Diamond Drill Geological Log

K- Fording 78(3) B-4

Fording COAL LIMITED

FORDING RIVER OPERATIONS

EV-10

Objective:

Sampled:

Logged By: DTM Date: FEBRUARY 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		ELK VALLEY			1122'

FOR 1050' COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
0	84					Overburden
84	94					Sandstone - coarse grained sandstone with decreasing grain size up to 90 ft. Inverse graded bedding repeated from 90 to 94 feet. Bedding is oriented between 40 deg. and 65 deg. to core axis. The rock is quite fractured along bedding planes. Some fracture surfaces are bituminous. There are fine carbonaceous and shaley laminations app. 1 mm thick in the sandstone. The sandstone has a calcite cement and calcite healed joint fractures are present, oriented 10 deg. to 20 deg. to core axis. Some limonite staining.
						Mudstone - black, calcareous, mudstone. From 104 to 108 feet some interbedded fine grained sandstone and siltstone 3 mm to 1.5 cm thick. Bedding is oriented app. 45 deg. to core axis. Siltstone is brownish grey in color. Sandstone is medium dark grey on fresh surface but white on core surface some calcite healed fractures are present oriented 30 deg. to core axis. A network of J_4 type calcite healed fractures from 107 to 108 feet.

Core Size HQ

Hole No. DDH. EV10 Page 1 of 34

322

2507-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

40 Scale

Color Plot & Dips | Ore Classes & Aver

Objective:

Sampled:

Logged By: DIM Date: FEBRUARY 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
118	126					Sandstone - white medium grained sst with carbonaceous and shaley laminations 1 - 2 mm thick some interbedded siltstone at app. 120 feet. Some wide bands of mudstone 2 cm to 4 cm thick between 124 and 126 feet. Some sediment slumping, some molar tooth calcite at 125 feet. Bedding is oriented 60 deg. to the core axis. The cement is calcareous.
126	132					Mudstone - Black with some interbedded fine grain sandstone and siltstone at 130 feet. Bedding is oriented 50 deg. to the core axis.
132	137					Sandstone - medium grained, laminated, sandstone, white on weathered surface. Heavily fractured along bedding planes with bitumen on fracture surfaces. There is some soft sediment deformation at 132 feet Calcite cement

Core Size HQ.

Hole No. DDH. EV 10

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: DIM Date: February 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO
DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
137	153					Mudstone Black. Some calcite infilling at 143 feet vuggy. Some minor sandstone is interbedded between 144 and 145 feet some flame structures. Pyrite mineralization at approx. 140 feet. Coal is interbedded between 148 and 153 feet. Core is somewhat broken.
153	173	152	173	46.3	52.7	Coal Measures, two feet, parting at 163'. 21(19)' 6.4(5.8)m
173	192					Mudstone Interbeded coal between 173 and 177 feet and quite bituminous between 182 and 192 feet, well fractured core in the carbonaceous zones. Banks of siltstone between 177 and 182 feet.
192	219	191	216	58.2	65.8	Coal Measures- Black, soft, broken, 25' 7.6m

Core Size HQ

Hole No. DDH. EV10 Page 3 of 34

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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Diamond Drill Geological Log

fording COAL LIMITED

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Objective:

Sampled:

Logged By: DIM Date: February 1979

Composites:

Block: Sect.: Place: App. Bear: App.: Dip.: Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
219	257					Mudstone, Black, interbedded coal, between 238 and 239 feet and also 219 to 222 feet. Minor siltstone and fine grained sand stone between 225 and 230 feet and 240 to 242 feet. Regular bedding oriented 50 deg. to core axis. Lode casting at 241.5 feet. Calcite healed joint fractures are present between 225 and 242 feet. Pyrite mineralization at 238 feet and 240 feet.
257	262					Sandstone Medium grain sandstone, white on weathered surface grey on fresh surface siltstone, mudstone are interbedded between 256 and 258 feet - gradational contact between the mudstone & sandstone. Bedding is oriented 67 deg. to the core axis. Many calcite healed joint fractures oriented approx. 30 deg. to core axis. Slight fault zone with Breccia ¼" to 3/4" thick. Calcite is ½" to 2 inches thick at 259 feet also numerous calcite veinlets. Bedding is oriented 40 deg. to core axis. Bituminous partings along bedding planes & bituminous laminations. Calcite cement

Core Size HQ

Hole No. DDH. EV10

2507-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: DIM Date: February 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. | RAD. LOG In Ft. | In meters

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE From	CORE To	RAD. LOG From	RAD. LOG To	In meters From	In meters To	
262	266					Mudstone, Black massive, fairly well broken core with pyrite mineralization on joint surfaces at 262.5 feet
266	269					Sandstone/Siltstone/Mudstone interbedded fine to medium grained sandstone - white on weathered surface, grey silstone and black mudstone, regular even bedding oriented 70 deg. to core axis.
269	275					Mudstone, Black, massive, broken core, some bituminous joint factures, pyrite mineralization on joint fractures at around 275 feet.
275	289.5					Sandstone with interbedded siltstone & mudstone Bdg approx. 45 deg. to core axis. Bituminous partings along bedding planes Slicken sided surface running 90 deg. along core axis on joint fractures oriented 13 deg. on the surface from core axis. Regular bedding with laminations 1mm to 1cm thick pyrite mineralization . Pyrite mineralization at 282 feet on fracture surface, coaly laminations 1 mm thick. Silicic cement.

Core Size

Hole No. DDH. Page 5 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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2507-

Diamond Drill Geological Log

FORDING RIVER OPERATIONS

Fording COAL LIMITED

Objective:

Sampled:

Logged By: DIM Date: February 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. | RAD. LOG In Ft. | In meters | COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO | DIRECTIONAL SURVEY DONE ☐YES ☐NO

CORE From	CORE To	RAD. LOG From	RAD. LOG To	In meters From	In meters To	
289.5	304.5					Mudstone Black massive with bituminous partings parrellel to bedding. Calcite healed fractures with 2 mm displacements at approx. 291 feet. Broken core, coaly interbeds between 302.5 to 304.5
304.5	312	304	314	92.7	95.7	Coal Measures Black, hard, with mudstone partings between 308 to 312 10' 3m
312	314					Mudstone/Coal interbedded, black hard, coal with black mudstone
314	316	318	326	96.9	99.3	Coal Measures -2 feet parting hard high lustre 8' 2.4m

Core Size HQ

Hole No. DDH EV10 Page 6 of

40 Scale

Color Plot & Dips | Ore Classes & Ash

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2507-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

40 Scale

Color Plot & Dips | Ore Classes & Ash

Objective:

Sampled:

Logged By: DIM Date: February 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
316	327					Mudstone, Black massive, interbedded fine grained sandstone at 325 feet. Lode casting flame structures present. Some fracture displacement 1cm.
327	334					Siltstone grey with some interbedded fine grained sandstone which is white on weathered surface. Regular, even bedding approx. 2mm thick bedding oriented 55 deg. Clasts of sandstone at 330 feet. Calcite healed joint fractures.
334	340					Mudstone, Black, massive, interbedded medium grained sandstone, white on core surface some core is broken, some Bituminous partings
340	342	350	353	106.7	107.6	Coal Measures 2 foot parting, shiny soft black coal 3', 0.9 m
342	356					Mudstone Black liluminous Completely broken core from 342 to 353 and 353.5 to 354.5 feet.

Core Size HQ

Hole No. DDH. EV10 Page 7 of

2507-

Diamond Drill Geological Log

Fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged by: DIM Date: Jebruary 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
356	367½					Sandstone/Siltstone/Mudstone beds from 2 mm to 8 m thick. Some lode casting 259.5 feet
						thick. Some lode casting 259.5 feet. Calcite healed joint fractures and also
						along bedding planes. Cross bedding between 364 and 365 feet indicating
						tops are up. Siltstone is light grey, sandstone is white, fine grained on
						weathered surface. Bedding is fairly regular and oriented 57 deg. Calcite
						cement
367½	370					Mudstone, Black, massive, calcite healed fractures at 358 feet ¼ inch thick, open
						space filling - calcite vuggy.
370	372					Siltstone/Mudstone interbedded 1 mm to 1 cm thickness. Grey siltstone, black mudstone
						regular bedding oriented approx. 45 deg.
372	377					Mudstone, Black, interbedded coal between 375 & 377 feet. Slicken sided at 373 feet
						Shale between 374 & 375 feet

Core Size HQ

Hole No. DDH. EV10 Page 8 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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2567-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: DIM Date: February 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
377	380	375	380	114.3	115,8	Coal measures - 3 foot parting, Black, shiny completely broken up.
						5' 1.5m
380	384					Mudstone, Black massive with fine grain sandstone at 372.5. White on weathered surface. Bedding oriented 60 deg. to core axis. Bituminous partings along bedding planes and joint fractures.
384	411⅛					Sandstone/Siltstone White (on weathered surface) fine to medium grain sandstone, grey siltstone, and some minor mudstone between 393 to 395 feet and 401 to 403 feet are interbedded. Bituminous partings 1mm thick parallel bedding planes. Calcite healed bedding and joint fractures. Coal 1 cm thick is interbedded between 386 & 387 feet. Soft sediment deformation, indicative of a turbulent environment between 388 & 396 and between 401 and 403 feet. Galcareous cement. Pyrite mineralization at 391 feet. Calcite healed joint fractures oriented 29 deg. to core axis. Bedding is oriented 57 deg. to core axis.

Core Size HQ

Hole No. DDH. EV10

40 Scale

Color Plot & Dips | Ore Classes & Aver

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Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: DIM Date: February 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
411½	420					Sandstone, White on weathered surface, dark grey on fresh, fine grained, with Bituminous laminations approx. 1mm thick. Bedding is oriented 56 deg to core axis. Some mudstone between 417 & 417.5. Calcite zone between 417.5 and 418.5 feet. Breccia zone ⅛ cm to 2 cm thick. Bituminous partings parallel to bedding planes. Calcite cement.
420	425					Mudstone /Siltstone/Sandstone, Interbedded beds vary 2 mm to 6 cm. Bituminous parting parallel bedding planes. Calcite healed fractures from 421 to 425 feet. Breccia zone 2cm thick at 422 feet. Lode casting at 424 feet. Calcite cement

Core Size HQ

Hole No. DDH. EV10 Page 10 of

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Diamond Drill Geological Log

Fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: DIM Date: February 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO DIRECTIONAL SURVEY DONE ☐ YES ☐ NO
425	426½					Mudstone, Black, massive, with bituminous beds oriented 67 deg. to core axis. Hairline calcite fractures at 57 deg. to core axis. Calcareous mudstone.
426½	430					Sandstone/Siltstone/Mudstone. Interbedded with beds 1mm to 1 cm thick Calcite cement. Calcite healed joint fractures oriented 45 deg to core axis. Bedding approx. 60 deg. to core axis. Cross bedding at 427 feet. Top is upwards.
430	439					Siltstone. Grey with minor fine grained snadstone, and Calcareous black mudstone Bedding is oriented57 deg. to core axis. Lode casting at 436 feet and sandstone clasts at 430.5 feet. Calcite healed joint fractures oriented 50 deg. to core axis.

Core Size HQ

Hole No. DDH. EV10 Page 11 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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2567-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged by: DIM Date: February 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. | RAD. LOG In Ft. | In meters

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE From	CORE To	RAD. LOG From	RAD. LOG To	In meters From	In meters To	
439	440					SST/Siltstone/Mudstone interbedded with beds 1mm up to 2 cm thick, regular even bedding oriented 48 deg. to core axis. Calcite healed fractures.
440	447					Siltstone Calcite healed fractures at 440feet. Some interbedded sandstone between 441 feet and 442 feet. Bedding is oriented 50 deg. to the core axis. Breccia zone 1 cm thick. Total displacement appears to be ½ cm.
447	454					Mudstone, Black, with interbedded coal 453 to 454 feet. Calcareous Mudstone.
454	457					Siltstone Dark grey, bituminous partings along bedding planes and some very fine grained sandstone giving a mottled appearance.
457	474					SST/Siltstone/Shale interbedded fine to medium grained sandstone, grey siltstone and black shale, quite deformed sediments between 457 and 467 feet indicating a turbulent environment. Calcite cement. More regular bedding at 467 to 474 feet however, it is fairly wispy. Bituminous partings parallel bedding. plane at approx. 60 deg. to core axis. There are afew calcite healed hairline fractures.

Core Size HQ

Hole No. DDH. EV10

Color Plot & Dips | Ore Classes & Ash

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Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged by: DIM Date: February 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
474	481					Siltstone/Very fine grain Sandstone dark grey, massive, with bituminous partings oriented 50 deg to the core axis.
481	482					Sandstone/Siltstone more fine to medium grain sandstone quite deformed indicating a turbulent environment.
482	486					Mudstone, Black, massive, with fractures oriented 52 deg. to the core axis
486	503	487	504	148.4	153.6	Coal Measure - soft, Black, shiny 17' 5.2 m

Core Size

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Hole No. DDH.EV10 Page 13 A

Color Plot & Dips | Ore Classes & Aver.

40 Scale

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2507-

Diamond Drill Geological Log

Fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: DJM

Date: February 1979

Composites:

Block:	Sect.:	Place:	App. Bear.:	App.: Dip.:	Length:

CORE In Ft. | RAD. LOG In Ft. | In meters

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE From	CORE To	RAD. LOG From	RAD. LOG To	In meters From	In meters To	
503	510					Sandstone/Siltstone/Mudstone - medium grain sandstone. 6" to 8" bands of mudstone. Crossbedded at 505'. Soft sediment deformation at 508 to 509 feet.
510	521					Mudstone- dark grey to black, massive, fractures oriented 60 deg. predominant. Bitumen on fracture surfaces. Breccia zone 514.5 to 515 feet.
521	530					Sandstone/Siltstone/Mudstone very irregular bedding from 524 to 527 feet. Lode casting, pseudo nodules, cross cutting beds, interfingering of sediments, clasts of coarse grained, sandstone. Some calcite healed joint fractures Bituminous partings parallel to bedding mudstone beds up to 6" thick with irregular shaped clasts of medium grained sandstone.
530	532					Mudstone Black, massive, with fractures oriented 60 deg. to core axis. Bitumen on fracture surfaces

Core Size

Hole No. DDH.

Page 14 of

40 Scale

Color Plot & Dips | Ore Classes & Ash

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Diamond Drill Geological Log

Fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: DIM Date: February 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
532	541					Sandstone/Siltstone/Mudstone irregular bedding of medium grained sandstone (white on exposed surface) Lode casting from 534 to 536 feet as well as pseudo nodules, and interfingered beds. Bituminous partings parallel bedding at 55 deg. to core axis. Calcite cement.
541	547					Mudstone, calcite healed, fractures oriented 60 deg. to core axis. Some medium grained sandstone at 542 feet.
547	562					Mudstone/Siltstone/Sandstone interbedded sandstone white on exposed surface grey on fresh surface medium grained, siltstone grey, black mudstone. Bedding oriented 47 deg. to core axis, swirled beds, wispy truncate, between 547 and 557 feet. Nodules of mudstone at 552 feet. Cross bedding (at 581 feet Small calcite gash fractures.
562	564					Siltstone - massive, dark grey, with gash fractures filled with calcite.

Core Size HQ

Hole No. DDHEV10 Page 15 of

40 Scale

Color Plot & Dips | Ore Classes & Areas

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Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: DJM Date: Feburay 1979 Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
						COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO DIRECTIONAL SURVEY DONE ☐ YES ☐ NO
564	573					Sandstone/Siltstone/Mudstone mudstone in bands 3 inches to one foot thick. Irregular bedding. Mudstone from 568 to 569 and 555.5 to 556.6 feet flame structures Lode casting interfingered beds, pseudonodules at 570 feet. Some beds, pseudonodules at 570 feet. Some minor displacement along fractures ½ cm crush fractures - calcite healed. Bituminous partings within the mudstone oriented 60 deg.
573	602.5					Mudstone Black and fairly massive with some calcite healed fractures. Interbedded coal from 585 to 591 feet. Bituminous fractures oriented 50 deg. to core axis with slicken sided surfaces.
		586	589.5	178.6	179.7	Coal 3.5' 1.1m
602.5	610	602.5	612	183.6	186.5	Coal Measures Soft, moderately shiny coal, dominant fractures oriented 42 deg. to core axis. 9.5' 2.9 m.
610	630					Mudstone, Black massive mudstone, bituminous fractures oriented 54deg.to core axis. Plant fossils at 619 feet. 620 to 622 feet interbedded coal and mudstone. A 4" coal parting at 623.5 feet.

Core Size HQ

Hole No. DDH. EV10 Page 16 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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Diamond Drill Geological Log

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OPERATIONS

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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Objective:

Sampled:

Logged By: DIM Date: February 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
630	635					Siltstone, grey to black in color with some fine grain and interbedded sandstone at 633 to 633.8 feet. Cross bedding with top upwards. Bedding oriented 65 deg. Interfingered sandstone 634.4 to 635 feet. From 633.8 to 634.2 feet mudstone.
635	639					SST/Siltstone/Mudstone interbedded, beds about ½ cm. to 8 cm. in thickness graded bedding. Minor fracture slippage approx. ½ cm. displacement. Calcite healed fractures, some gash fractures.
639	642					Sandstone - fine to medium grain sandstone poorly sorted with some laminations of siltstone and mudstone 1mm. thick. Cross bedding. Calate healed fractures oriented approx. 30 deg.

Core Size HQ

Hole No. DDH. EV10

2507-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged: DIM Date: February 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
642	654					Mudstone, Black, massive, with bituminous partings oriented 70' some broken core 677 to 679 feet with plant fossils
654	658	651.5	662.5	198.6	201.9	Coal Measures 3 foot parting 11' 3.3 m.
		684	686.5	208.5	209.2	Coal 2.5' 0.8m.
658	696					Mudstone- Black, some plant fossils, Calcite healed fractures, interbedded coal 684 to 685.5 feet. Beds approx 1 cm thick and oriented 60 deg. Some broken core with plant fossils 677 to 679 feet. Interbedded sandstone 685 to 686 feet and 690 to 691 feet. Regular even bedding 1 mm to 1cm thick. Some cross bedding at 691 feet. Bands of coal oriented 60 deg. Numerous bituminous fractures approx. 60 deg. to core axis.

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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Core Size

Hole No. DDH.

2567-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged: DIM Date: February 1979 Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE in Ft. | RAD. LOG in Ft. | in meters

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

From	To	From	To	From	To	
696	699					Siltstone interbedded with some fine to medium grained sandstone. Siltstone is dark grey in color. Interfingered sediments at 696 feet. A network of calcite fracture at 698 feet. Bedding oriented at 65 deg. to core axis, dominant fractures along bedding oriented 65 deg. to core axis parallel to bedding.
699	712					Mudstone, Black mudstone with interbedded coal up to 1 cm. thick. Numerous plant fossils. Calcite joint fractures oriented 30 deg. also calcite healed fractures along bedding planes. Bituminous slicken sided surface.
712	716					Sandstone/Siltstone/Mudstone 6 to 8 cm. bands of sandstone completely deformed indicating a turbulent environment, convolute, interfingered, sediments. Silicic cement . Calcite healed joint fractures oriented 20 deg. to core axis. Bituminous partings oriented 58 deg. to core axis parallel bedding planes. Bands of mudstone are 12 to 14 cm. thick

Core Size HQ

Hole No. DDH. EV10 Page 19 of

40 Scale

Color Plot & Dips | Ore Classes & Aver

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2567-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged: DIM Date: February 1979

Composites:

Block: Sect.: Place: App. Bear: App.: Dip.: Length:

40 Scale

Color Plot & Dips | Cre Classes & Aver

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CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO DIRECTIONAL SURVEY DONE ☐ YES ☐ NO
716	719					Mudstone Black with Bituminous partings oriented 60 deg. to core axis. Some hairline calcite healed fractures. Plant fossils. (Metosequoi)
719	721					Sandstone/Siltstone/Mudstone interbedded medium grained sandstone (white on weathered surface medium grey on fresh surface) siltstone and black mudstone, sandstone & siltstone are interfinered and exhibit some soft sediment deformation. Laminations are 1mm to 1.5 cm thick. Mudstone band 1 foot long with plant fossils and interbedded coal.
721	735					Mudstone Black mudstone with some interbedded coal between 722 to 723 feet and 725 to 725.6 feet. Some plant fossils. Dominant fracture orientation is 70 deg. to core axis. Calcite healed fractures between 731.5 to 732.3 ft.

Core Size HQ

Hole No. DDH. EV10

2567-

Diamond Drill Geological Log

Fording Coal Limited

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged: DIM Date: February1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
						COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
735	740					Sandstone/Siltstone/Shale interbedded. Sediments are deformed interfingered, slumped, and mudclasts within the sandstone. More regular even bedding between 638 to 640 feet with some lode casting. Bituminous joint fractures oriented 30 deg. to core axis. Sandstone is fine grained, grey siltstone and black shale.
740	754					Siltstone dark grey some very fine grained sandstone poorly sorted some fractures oriented 69 deg. to core axis with plant fossils on fracture surface.
754	756					Sandstone - medium grained laminated sandstone white onexplosed surface, grey on fresh surface some crossbedding with top upwards. Breccia zone 1 inch thick. Hairline calcite healed fractures crosscut each other and are oriented 2 deg. to 35 deg. to core axis. Soft sediment deformation between 755.5 and 756 feet silicic cement.

Core Size

Hole No. DDH.

40 Scale

Color Plot & Dips | Cre Cases & Aver.

0

2567-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged: DIM Date: February 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
756	757.8					Mudstone, Black massive mudstone with bituminous partings oriented 65 deg.
757.8	758					Sandstone, laminated medium grained sandstone with laminations oriented 60deg. to core axis. Laminae 1mm to 1cm thick. Some lode casting silicic cement.
758	782					Mudstone Black massive with hairline calcite healed fractures oriented 40 deg. to core axis. Dominant fractures, clean, oriented 60 deg to core axis some interbedded siltstone between 772 to 774 feet

Core Size HQ

Hole No. DDH. EV10

40 Scale

Color Plot & Dips | Core Classes & Aver.

0

2567-

Diamond Drill Geological Log

Fording Coal Limited

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged: DIM Date: February 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
782	788					Sandstone/Siltstone/Mudstone gradational contact between sandstone and mudstone. Bands of sandstone and mudstone between 6 cm and 12 cm. Sandstone is laminated with laminations 1mm to 1 cm thick. Calcite healed joint fractures 786 feet clasts of both mudstone and sandstone some crossbedding and lode casting 784 to 785 feet.
788	814					Sandstone - fine grained sandstone silicic cement. Well laminated between 787 to 790 feet. Bituminous laminations some mudstone, and silty laminae ranging from 1mm to 2 mm thick.. Mudstone Increased from 806 to 814 feet in bands 1cm to 4 cm thick. Fracture surfaces have both bitumen and calcite on them. Bedding is fairly regular and even with bedding oriented between 60 deg and 70 deg. to core axis

Core Size: HQ

Hole No. DDH. EV10

40 Scale

Color Plot & Dips | Core Classes & Aver.

0

2567-

Diamond Drill Geological Log

Fording Coal Limited

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged: DIM Date: February 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
						COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO DIRECTIONAL SURVEY DONE ☐ YES ☐ NO
814	831					Sandstone/Mudstone/Siltstone gradational contact between well laminated fine grained sandstone, bands of mudstone 2 cm to 20 cm thick, bands of laminated sandstone 8 to 20 cm. thick. Bedding is fairly regular with some cross beds in the sandstone. Grey siltstone is interbedded with black mudstone, lode casting and pseudonodules from 316 to 317 feet and lode casting from 824 to 826 feet. Calcite zone with fracture oriented dominantly 45 deg. from 815 to 820 feet. Numerous calcite fractures at 831 feet.
831	847					Mudstone Black massive with some silty layers and fine grained sandstone between 838 and 840 feet. Bands are irregular and deformed and exhibit lode casting. Bands are approx. 2 cm thick. Calcite healed fractures are oriented 45 deg are prevelent. Bituminous partings
847	856					Bituminous medstone very broken, calcite on fracture surfaces, rock is quite friable, rock is quite fraible.. rock is related to fault zone
856	861					Fault gouge, shaley bituminous crushed roack faulted zone.
861	867					Mudstone with some interbedded coal fractures oriented 57 deg. are prevelent with coaly surfaces, some broken core and calcite gash fractures at 842-843' some places it appears as calcareous mudstone.

Core Size HQ

Hole No. DDH. EV10 Page 24 of

40 Scale

Color Plot & Dips | Cre Classes & Aver.

0

2567-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged:

Date:

Composites:

Block:

Sect.:

Place:

App. Bear:

App.: Dip.:

Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
						COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO DIRECTIONAL SURVEY DONE ☐ YES ☐ NO
867	886					SST/SLST/MDST - Interbedded core is broken with intense clacite healing. Calcite zone, bitumin on fracture surfaces. Slicken sided surface at 871', slightly brecciated at 875' laminations vary from 1mm to 1 cm. fairly evenly bedded bands of mudstone 2" to 8". Bedding at 55.0 to C.A. Bituminous parting parallel to bedding.
886	899					SST- Medium grain white on core surface, dark grey on fresh surface. Calcite zone with numerous gash fractures at 887'. Minor fractures approx. 1 1/2 cm displacement, some bituminous partings oriented 54 deg along joint fractures. Bedding 58 deg. to C.A. alos calcite fractures oriented 12 deg. Laminated sandstone with laminaterions 1mm to 15 cm. Mudstone and siltstone 898 ' - 899'
899	915					MDST/SLST - Dark grey to black still in Calcite zone with Bitumin on fracture surfaces. Core is still well broken. Bituminous fracture approx. 68 deg. Some calcite fractures at 0 deg. Some interbedded sand fine grained at 910' some pseudonodules and interfingering at sediments.

Core Size

Hole No. DDH. E-10

Page 25 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

25C7-

Diamond Drill Geological Log

Fording Coal Limited

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: Date:

Composites:

Block: Sect.: Place: App. Bear: App.: Dip.: Length:

CORE in Ft. From	CORE in Ft. To	RAD.LOG in Ft. From	RAD.LOG in Ft. To	In meters From	In meters To	
						COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO DIRECTIONAL SURVEY DONE ☐ YES ☐ NO
915	918					Siltstone - quite fractured calcite healing orientation of fractures approx. 60 deg.
918	927					Sandstone - white medium grain on core surface darker grey on fresh surface. The sandstone is laminated with laminae 2mm to .5 m thick. Crossbedding exists between 923 to 926 feet. Mudstone bands are between 921-922 feet. Bituminous partings exist within the mudstone. Bedding is fairly regular and even oriented 52 deg. to core axis. Cement is silicic however intense calcite fracturing exists.
927	937					Sandstone/Siltstone/Mudstone interbedded the sediments have been quite deformed and around 937 feet sediments appear slumped and lode casting exists. Minor fractures show displacements of 1mm to 1/2 cm. Bituminous layers at approx. 927 feet with plant remains which have become coalified. The core is fairly broken. Calcite and bitumen exist on slicken sided surface oriented 60 deg. to core axis. Beds range 1mm to 6 cm in thickness. Bedding is oriented 60 deg. to core axis.

40 Scale

Color Plot & Dips	Ore Classes & Aver.
0	

Core Size

Hole No. DDH. EV-10 Page 26 of

25C7-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Logged

Date:

Sampled:

Composites:

Block:

Sect.:

Place:

App. Bear:

App.: Dip.:

Length:

40 Scale

Color Plot & Dips | Ore Classes & Aver.

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
						COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO DIRECTIONAL SURVEY DONE ☐ YES ☐ NO
937	955					Siltstone - grey siltstone with some fine grained sandstone at around 941 feet.
						Calcite is no longer present in fractures. Slicken sided surfaces exist.
						Black shiny, hard coal is interbedded between 844 and 851 feet.
955	959					Mudstone, Black, fairly massive, bituminous mudstone. Bituminous fractures exist as
						well as some minor J4 types calcite healed fractures. There are tiny
						clasts of fine grained sandstone at 958 feet as well as an 10 cm bank of
						medium grained sandstone at 588.7 feet. The sediment is swirled and quite
						deformed indicating a turbulent environment. Some calcite healed joint
						fractures in this segment.
959	960					Coal measures completely broken core

Core Size

Hole No. DDH. Ev-10

Page 27 of

2507-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged:

Date:

Composites:

Block:

Sect.:

Place:

App. Bear:

App.: Dip.:

Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO DIRECTIONAL SURVEY DONE ☐ YES ☐ NO
960	965					Mudstone with interbedded coal. Beds of hard black coal with a dull lustre are
						interbedded between 961 and 962.5 feet. Bitumin is present on most
						fracture surfaces. The mudstone is black and well fractured.
965	981					Siltstone - dark grey siltstone with bituminous partings along fracture surfaces. The
						rock is quite broken. There is some interbedded fine to medium grained
						sandstone at 972 to 973 feet and 976 to 977 feet. The bedding ranges from
						40 deg. to 72 deg. to core axis. Beds are 1mm to 0.5 cm.thick.
						Siltstone beds are 2 cm. Calcite healed fractures gash fractures, and
						stringers exist within the broken core. Broken core joint fractures are
						predominately 35 deg. to 40 deg. to core axis.

Core Size

Hole No. DDH. EV 10

Page 28 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

25C7-

Diamond Drill Geological Log

FORDING RIVER OPERATIONS

Fording COAL LIMITED

Objective:

Logged By: Date:

Sampled:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
981	1004					Sandstone/Siltstone/Mudstone interbedded fine grained laminated sandstone, dk. grey siltstone, dark grey to black mudstone. Laminations are 1mm to 1 cm thick. Calcite zone with stringer, and gash fractures, and calcite healed joint fractures. At 981 ft. Soft sediment deformation with large clasts of sandstone some slumped sediments. Bedding ranges between 35 deg. to 70 deg to coreaxis. The core is broken with bitumen on fractured surfaces. Fractures are dominantly oriented 60 deg to 70 deg to core axis. Some interbedded coal and mudstone from 996 to 1002 feet. Some limonite staining, some fracture surfaces are slicken sided. Bands of siltstone and mudstone range 2 to 12 cm. in thickness.

Color Plot & Dips | Ore Classes & Ash

40 Scale

0

Core Size

Hole No. DDH. EV-10 Page 29 of

2507-

Diamond Drill Geological Log

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: [redacted] Date:

Composites:

Block: [redacted] Sect.: Place: App. Bear: App.: Dip.: Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
1004	1011					Mudstone/Coal Interbedded with coal beds orients 70 deg. some minor calcite in J4 type fractures. Mudstone is black, black, soft coal.
1011	1017					Coal Measures shingy, soft, black coal, crushed.
1017	1024					Coal/Mudstone black, hard, shiny coal with black mudstone. The core is broken, some fractures are slicken sided.
1024	1037					Siltstone/Sandstone, interbedded grey siltstone and sandstone with bitumen along bedding and joint fractures. The core is broken. Fractures range 40 deg. to 70 deg. to core axis. There are some calcite healed fractures.

Core Size

Hole No. DDH. EV-10 Page 30 of

43 Scale

Color Plot & Dips | Ore Classes & Aver

0

25C7-

Diamond Drill Geological Log

Fording Coal Limited

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged [redacted] Date:

Composites:

Block: [redacted] Sect.: Place: App. Bear: App.: Dip.: Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	FOR 1050' ONLY COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO DIRECTIONAL SURVEY DONE ☐ YES ☐ NO
1037	1072					Mudstone. Black fairly massive with interbedded coal. Fractures are predominatly oriented 45 deg and 70 deg to core axis. Calcite healed fractures oriented at 70 deg to core axis. Coal partings oriented approx. 65 deg. exist between 1058 and 1062 feet. Two 15 cm. parting at 1053 and 1047 feet have interbedded mudstone. The partings are crushed core.
1072	1077					Sandstone/Siltstone/Mudstone interbedded regular even bedding indicative of a quiescent environment during deposition. Bedding is oriented 65 deg. to core axis beds are 2 mm to 1.5 cm thick. Clean fractures along bedding are dominant. Also bituminous joint fracture are oriented 12 deg. at 1075.5 ft. some flame structures exist. There are some minor J4 type calcite fractures with limonite staining.

Core Size

Hole No. DDH. EV-10

40 Scale

Color Plot & Dips | Ore Classes & Aver

0

2507-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Logged: Date:

Sampled:

Composites:

Hole: Sect.: Place: App. Bear: App.: Dip.: Length:

CORE in Ft. From	CORE in Ft. To	RAD. LOG in Ft. From	RAD. LOG in Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO DIRECTIONAL SURVEY DONE ☐ YES ☐ NO
1077	1083					Mudstone, black, massive, mudstone with bituminous partings. Some minor sandstone interbedded with beds oriented 70 deg. to core axis. The beds are 0.5 cm thick. Fractures are oriented approx. 72 deg. to core axis.
1083	1086					Sandstone/Siltstone/Mudstone interbedded lt. grey fine to medium grained siltstone, grey siltstone dark gery to black mudstone. Beds are 0.5 cm to 2 cm thick Clasts of siltstone are in the sandstone at 1086 feet. Bedding is 75 deg. to core axis. Some minor calcite healed fractures oriented 20 deg. to core axis. Also there are some gash fractures and stringers.
1086	1092					Siltstone - grey fairly massive with mudstone between 1089 to 1090 feet. Bituminous partings oriented 50 deg. to core axis. Some appear slicken sided. Minor calcite

Core Size

Hole No. DDH. EV-10 Page 32 of 34

40 Scale

Color Plot & Dips | Ore Classes & Aver

0

2SC7-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged:

Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE in Ft. | RAD. LOG in Ft. | in meters

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

From	To	From	To	From	To	
1092	1117½					Sandstone - dark grey fine to medium grained sandstone, white on exposed surface. from 1092 to 1100 feet siltstone sandstone gradational contact. Beds are 1mm to 0.5 cm thick. Bedding is oriented 70 deg to core axis. Minor calcite healed fractures parallel bedding. Cement is silicic. The sandstone is laminated from 1100 to 1111 feet but fairly massive between 1108 and 1110. Laminae are 1 to 5 mm thick. Fractures are dominantly along bedding planes oriented 65 deg. to 70 deg. with some bitumen on fracture surfaces. From 1115 to 1117½ grading into siltstone some lode casting at 1116½ feet. Some calcite healed fractures cross cut each other at 1113 feet showing up to 1cm displacement also some J4 type calcite fractures.
1117½	1120					Siltstone - medium grey faily massive siltstone. Fractures are predominantly oriented 70 deg. to core axis with bitumen on surface.

Color Plot & Dips | Ore Classes & Aver.

40 Scale

0

Core Size

Hole No. DDH. EV-10

Diamond Drill Geological Log

fording COAL LIMITED

OPERATIONS

40 Scale

Color Plot & Dips | Ore Classes & Aver.

Objective:

Sampled:

Logged [redacted] Date:

Composites:

Block.	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	To	RAD. LOG In Ft. From	To	In meters From	To	FOR 1050' ONLY COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
1120	1120.8					Sandstone - white medium grained sandstone, dark grey on fresh surface. Clasts of lighter grey siltstone exist within the sandstone. Clasts of lighter grey siltstone exist within the sandstone.
1020	1022					Mudstone, Black, with Bituminous partings and minor calcite.
						End of Hole @ 1122'
						OCTOBER /78

Core Size

Hole No. DDH. EV-10

2507-

Diamond Drill Geological Log

K-Fordens 78(3)B-4

Cominco

DDH 271

Objective:

Sampled:

Logged By: R.K. Date: January 9, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Turnbull			224'

From	To	Discard: Reason:
		Intersections taken from Gamma Ray Log
0	80	Basal sandstone, several feet of overburdend near top
80	86	Mudstone
86	114	Interbedded mudstone and siltstone
114	126	Coal 12'
126	160	Siltstone
160	183	Sandstone
183	194	Mudstone
194	216	Sandstone
216	219	Mudstone
219	224	Sandstone

Hole No. Elev.

Lat. Dep.

Elev. Th.

Top of @ '

Top of @ '

Top of @ '

Top of @ '

Hole abandoned at 224', as cone was dropped at the bottom of hole.

December 6, 1977

Core Size

B50 Hole - No Samples

Hole No. RH271 Page 1 of 1

322

Diamond Drill Geological Log

Cominco

004-272

K- F[illegible] 78(3)B-4

Objective:

Sampled:

Logged By: R.K. **Date:** January 16, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Turnbull			245'

From	To	Discard: / Reason:
		Intersections taken from Gamma Ray Log
0	9	Overburden
9	47.5	Mudstone with thin bands of siltstone grey and black cuttings
47.5	52	Coal 4.5'
52	58	Mudstone, brown cuttings
58	83	Sandy siltstone, coal stringers at 68' and 70', grey cuttings
83	90	Mudstone
90	119	Siltstone, sandstone band at 92'
119	128.5	Mudstone
128.5	138	Coal 9.5' (Seam - 7)
138	142	4' Mudstone (Seam - 7)
142	143.5	Coal 1.5' (Seam - 7)
143.5	146	2.5' Mudstone (Seam - 7)
146	148	Coal 2' (Seam - 7)
148	170	Mudstone, 1 foot coal band at 166'
170	188	Siltstone, brown cuttings
188	208	mudstone
208	220	siltstone, sandstone near bottom
220	245	Mudstone

End of Hole

Core Size B50 Drill - No Samples

Hole No. RH 272

Page 1 of 1

2507—N.D.N.

Diamond Drill Geological Log

Cominco

K- FORDING 72(3)B-4

004-273

Objective:	Sampled:
Logged By: R.K. Date: January 9, 1978	Composites:

Block:	Sect.:	Place: Turnbull	App. Bear:	App.: Dip.:	Length: 165'

From	To	Discard: Reason:
		Intersections taken from Gamma Ray Log
0	17	Overburden
17	37	Mudstone
37	70	Coal 33' Seam -
70	94	Mudstone
94	120	Mudstone with several bands of siltstone
120	144	Coal 24' Seam - 5
144	165	Interbedded mudstone and siltstone
		end of hole
		December 21, 1977

Hole No._____ Elev._____

Lat._____ Dep._____

Elev. Th.

Top of_____ @ _____ '

Top of_____ @ _____ '

Top of_____ @ _____ '

Top of_____ @ _____ '

Core Size: B50 Drill - No Samples

Hole No. RH 273 Page 1 of 1

Diamond Drill Geological Log

K- Forestburg 78(3)B-4

Cominco

40 S
Calc. 2DH-274
& Aver.

Objective:

Logged By: R.K. Date: January 9, 1978

Sampled:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Turnbull			274'

From	To	Discard: Reason:
		Intersections taken from Gamma Ray Log
0	8	Overburden
8	43	Mostly siltstone, mudstone interbeds
43	83	Sandstone
83	154	Mudstone, with bands of siltstone
154	233	Siltstone
233	235	Coal 2'
235	261	Mudstone
261	274	Coal 13' + Seam -
		End of Hole in coal.
		December 16, 1977

Hole No. Elev.
Lat. Dep.
Elev. Th.
Top of ___ @ ___ '
Top of ___ @ ___ '
Top of ___ @ ___ '
Top of ___ @ ___ '

Core Size
B50 Hole - No Samples

Hole No. RH 274 Page 1 of 1

322

2007—H.D.N.

Diamond Drill Geological Log

K- Fording 78 (S)B-4

D.D.H. 275

Cominco

Objective:

Sampled:

Logged By: KEN Hansen Date: August/78

Composites:

Scale

Color Plot & Dips | Ore Classes & Aver

Block:	Sect.: 500,000 N	Place: TURNBULL WEST	App. Bear:	App.: Dip.:	Length:

From	To	RAD. LOG		m.	m.	COAL INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG
0	55					Tricone
55	71					Conglomerate. Limestone and quartzite. Cobbles and boulders in unconsolidated muc matrix. Subround to subangular cobbles.
		0	71	0	21.64	OVERBURDEN.
71	89					Sandstone with carbonaceous mud bands. SS salt and pepper, coarse grained, massive.
						Pyrite nodular development @ 80' in part highly Brecciated with abundant slickensides. No evidence of oxidization.
89	106					Sandstone. Fine to medium grained. Light grey in part salt and pepper. No carbonaceous partings. Bedding dip @ 37°.
		105	109	32.00	33.22	COAL 4', 1.22 M SEAM - 2
106	109					Coal. Clarain. Soft coal.
109	117					Siltstone, with mudstone intercalations. Highly contorted interval and abundant slickensides. Siltstone medium brown grey.
		116	122	35.36	37.19	COAL 6' 1.83 M SEAM - 1
117	122					Coal. Clarain. Predominately soft coal.
122	146					Sandstone. Salt and pepper. Coarse grained. Bedding dip @ 26°. Clean SS.
146	261					Sandstone. Medium grained. Light grey. Almost salt and pepper. Very clean sandstone. Minor Breccias scattered throughout. But highly brecciated from 240' - 261'. Also rare coally laminate near base. Bedding @ 40° dip (for most part).
		260	268	79.25	81.69	COAL 8' 2.44 M PART SEAM - R5
261	268					Coal. Primarily clarain. Soft coal. Highly broken core.

Core Size

Hole No. DDH 275

Page 1

322

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hansen Date: August/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From	To	RAD. LOG		m.	m.	COAL INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG
268	277					Mudstone. Black carbonaceous, with silty bands. Abundant Slickensides found throughout interval, and highly brecciated near base.
277	311					Interlaminated siltstone and sandstone. Siltstone medium brown grey. Sandstone medium to light grey. Fine grained. Micro-X-bedding. Fine to coarsely laminated Bedding dip @ 33° - 20°. Few minor brecciated units with slickensides.
311	365					Sandstone. Medium to coarse grained. Salt and pepper. Thin coally lenses (1/2" thick) common, particularly near top. Silty lenses (of ≃1') @ 329' and 331', otherwise clean SS. Fossilized tree fragment @ 355'.
365	366.5					Mudstone. Dark brown. Sharp upper and lower contacts. Upper boundary marked by pyrite development parallel to bedding.
366.5	367					Sandstone. Fine grained. Light grey. Sharp upper and basal contacts.
367	379					Mudstone. Dark brown. Bedding dip @ 10°.
379	380					Coal. Primarily durain, but thin mudstone intercalations. Hard coal.
380	391					(Silty) mudstone. Dark brown. Silty intervals in unit, but not good siltstone.
391	415					Interlaminated siltstone and sandstone, with occasional thin mudstone interbeds, (app. <1' thick). Light grey brown with dark brown mudstone beds. SS fine grained. Micro-X bedding common and soft sediment deformational structures common. Bedding dip @ 22°.
		415	419	126.49	127.71	COAL 4' 1.22 M
415	419.5					Coal. Primarily clarain. Soft. Highly broken coal. 4" Parting @ 417'.
419.5	420.5					Mudstone. Black and carbonaceous.
		422	446	128.63	135.94	COAL 24(23)' 7.32 (7.01) M
420.5	423.4					Coal. Primarily durain with vitrain streaks. Hard coal.

Scale

Color Plot & Dips | Ore Classes & Aver.

0

Core Size

SEAM R4 31 (27)' 9.45(8.23) M

Hole No. DDH 275

Page 2

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hansen Date: August/78

Composites:

Block: | Sect.: | Place: | App. Bear: | App.: Dip.: | Length:

Scale

Color Plot & Dips | Ore Classes & Aver.

From	To	RAD. LOG	m.	m.	COAL INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG
423.4	426				Interlaminated SS and siltstone. Medium grey. Bedding dip @ 10°.
426	446				Coal. Primarily durain and vitrain, but clarain bands scattered throughout. For most part hard coal, but occasional very hard vitrain bands.
446	451				Siltstone. Medium brown. Brecciated for most part.
451	455				Sandstone. Medium grained. Salt and pepper. Highly brecciated and crushed.
455	469				Sandstone. Medium grained salt and pepper. Rare coally stringers (app ∠1/4" thick) Bedding dip @ 23°.
469	483.5				Sandstone. Medium to coarse grained. Salt and pepper. Abundant coally stringers (app ∠1/2" thick), as well as abundant mudstone intercalations and mini-mudchip breccias.
483.5	491.5				Siltstone. Medium brown, In part sandy. Abundant mudchip intercalations near base of interval. Gradational contact into SS @ base.
491.5	493				Sandstone. Medium to coarse grained. Salt and pepper. Abundant mudchip intercalations as well as coal blebs. Base marked by slickensides contact.
493	498				Siltstone. Dark brown. Oxidized near top.
498	500				Sandstone. Fine grained. Light to medium grey. Abundant mudstone intercalations near top. Same mudstone as above unit. Bedding @ 20° dip.
					TD 500' 152.40 M

Core Size

Hole No. DDH 275

Page 3

2507-

Diamond Drill Geological Log

DDH. 276

K. Fielding 78/3/8-4

Objective:

Sampled:

Logged By: Ken Hanson Date: June 9, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Turnbull West			

Discard: Reason: Coal Intersections corrected by Gamma-Ray - Neutron Log

From	To	
0	135	Tricone
135	135.3	Limestone, boulders, light brown grey, fine Xtalline.
135.3	140	Mudstone, dark brown, core thickly broken, non-oxidized, inpart carbonaceous.
140	141	Coal, very soft and highly broken up.
141	186	Mudstone, dark brown to black. Inpart carbonaceous, small coal stringers throughout. Highly broken core and much missing core. Calcite infilling of brecciated zones and joint planes evident in more compitant intervals. Bedding dipping at 56 degrees.
186	235	Interlaminated siltstone and mudstone. Siltstone dark to medium grey. Mudstone dark brown to black, with minor coal streaks (~1" thick) Bedding dipping at 46 - 30 degrees abundant slks. throughout interval inpart highly broken. Thin beds of mudstone almost a shale (Developing Fissility) Some evident of soft sediment deformation.
235	254	Mudstone, dark grey, carbonaceous, thin coal streaks. Bedding dipping at 40 degrees.
254	256.5	Coal, predominatly clarain, quite soft and broken up.
256.5	259.8	Mudstone, black highly carbonceous, minor coal stringers up to 3" thick.
259.8	265.6	Coal, both vitrain and clarain, moderatly soft and broken up.
265.6	271	Mudstone, black carbonaceous with minor coal stringers. Bedding dipping at 44 degrees.
271	271.5	Coal, predominatly vitrain moderatly hard coal.
271.5	274	Mudstone, black carbonaceous.
274	274.5	Coal, predominatly vitrain, moderatly hard coal.
274.5	302.4	Mudstone, dark brown, minor coal stringers, highly crushed zones within interval. Particularily from 292' - 304.5'.
302.4	312	Coal, vitrain and clarain both highly broken core.
312	314	Missing, Likely coal as above

Core Size 322

Hole No. DDH 276 Page 1 of 3

Color Plot & Dips | Ore Classes & Aver.

0

RAD LOG

172 - 177' Coal 5'
SEAM - R7U

252.5' - 253.5'
SHALEY COAL

258.5' - 261.5'
COAL 3' SEAM R7 ZONE

301 - 311 Coal 10'
311 - 313 Mudstone
313 - 337 Coal 24'
36 (34)' SEAM R5

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hanson Date: June 9, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Turnbull West			

From	To	Discard: / Reason:
314	319	Interbedded siltstone and mudstone, dark grey to black in color with coal stringers. Inpart highly Carbonaceous. Bedding dipping at 32 degrees, highly broken interval with part missing.
319	322	Missing likely coal.
322	333	Coal, both vitrain and clarain, small mudstone interlaminations at 325' (~2" thick) Coal soft and highly broken up.
333	335	Missing, likely coal.
335	338	Coal, predominately vitrain, hard coal.
338	345	Mudstone, black highly carbonaceous multitude of coal stringers (up to 3" thick) coal vitrain and clarain Bedding dipping at ~5 degrees
345	346.5	Coal, both vitrain and clarain, moderatly hard.
346.5	355	Mudstone, dark grey brown inpart carbonaceous, small coal stringers (max. 1").
355	397	Interbedded mudstone and siltstone, mudstone bark brown siltstone medium grey. Slks at 370' soft sediment deformation structures. Bedding dipping at 15 degrees.
397	401	Sandstone, light to medium grey. Fine grained with silty interlaminations.
401	416	Interbedded mudstone and siltstone. Dark brown mudstone. Medium grey siltstone, bedding dipping @ 25 degree
416	460	Sandstone, medium grey, fine to medium grain, inpart salt and pepper. Minor coal stringers at 427' Bedding dipping at 9 degrees minor pyrite concretions.
460	462	Mudstone, dark grey brown, minor sandy interlaminations.
462	471	Sandstone, medium grey, fine grained.
471	508	Mudstone, dark brown, fine coal stringers (¼" thick) throughout. Coal stringer 2" at 497'.
508	512.5	Coal predominatly clarain with vitrain streaks, hard coal, minor mudstone parting (3" thick) at 509'.

Core Size

Hole No. DDH 276 Page 2 of 3

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

RAD LOG

342 - 344.5' Coal 2.5'

506.5 - 511.5'
COAL 5'

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hanson Date: June 20, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Turnbull West			

From	To	Discard: Reason:
512.5	514	Mudstone, black highly carbonaceous with coal interlaminations.
514	515.5	Coal, primarily clarain with vitrain and durain streaks, moderately hard coal.
515.5	522	Interbedded mudstone and coal. Mudstone black and highly carbonaceous, coal interbeds up to 6" thick and primarily vitrain. Coal dirty (with abundant mudstone interlaminations).
522	523	Coal, primarily durain and clarain, highly broken core and inpart missing core.
523	527.3	Interlaminated siltstone and mudstone. Siltstone medium to dark grey, mudstone dark brown to black. Finely interlaminated. Bedding dipping at 14 degrees, siltstone inpart sandy.
527.3	535	Coal, clarain, vitrain and durain components. Moderatly hard to hard coal.
535	537	Mudstone, black highly carbonaceous with coally interlaminations.
537	542	Coal both vitrain and clarain, moderatly soft coal, broken core.
542	542.4	Mudstone black carbonaceous, thin coally interlaminations.
542.4	547	Coal, primarily clarain, soft broken core.
547	555	Coal, vitrain streaks in durain, also, clarain (Particularly near base of interval) hard core for most part.
555	556	Mudstone, dark brown.
556	562	Siltstone, medium grey, sandy for most part, fine interbeds of mudstone in unit. Few minor carbonceous interlaminations.
562	606	Sandstone, salt and pepper, medium grained, with few interlaminations of carbonaceous material. Hard rock bedding dipping @ 22 degrees, minor sulfide development associated with some of the carbonaceous interlaminations.
	606	TOTAL DEPTH

Core Size

Hole No. DDH 276 Page 3 of 3

40 Scale

Color Plot & Dips | Ore Classes & Aver.

RAD LOG

527 - 554' COAL
1.5 & 2.5' MUDSTONE at 534' and 544
27 (23)
SEAM - R4

2507-

Diamond Drill Geological Log

Objective:

Logged By: Ken Hanson Date: June 9, 1978

Sampled:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Turnbull West			

Discard: Reason: Coal Intersections corrected by Gamma-Ray - Neutron Log

From	To	
0	135	Tricone
135	135.3	Limestone, boulders, light brown grey, fine Xtalline.
135.3	140	Mudstone, dark brown, core thickly broken, non-oxidized, inpart carbonaceous.
140	141	Coal, very soft and highly broken up.
141	186	Mudstone, dark brown to black. Inpart carbonaceous, small coal stringers throughout. Highly broken core and much missing core. Calcite infilling of brecciated zones and joint planes evident in more compitant intervals. Bedding dipping at 56 degrees.
186	235	Interlaminated siltstone and mudstone. Siltstone dark to medium grey. Mudstone dark brown to black, with minor coal streaks (∿1" thick) Bedding dipping at 46 - 30 degrees abundant slks. throughout interval inpart highly broken. Thin beds of mudstone almost a shale (Developing Fissility) Some evident of soft sediment deformation.
235	254	Mudstone, dark grey, carbonaceous, thin coal streaks. Bedding dipping at 40 degrees.
254	256.5	Coal, predominatly clarain, quite soft and broken up.
256.5	259.8	Mudstone, black highly carbonceous, minor coal stringers up to 3" thick.
259.8	265.6	Coal, both vitrain and clarain, moderatly soft and broken up.
265.6	271	Mudstone, black carbonaceous with minor coal stringers. Bedding dipping at 44 degrees.
271	271.5	Coal, predominatly vitrain moderatly hard coal.
271.5	274	Mudstone, black carbonaceous.
274	274.5	Coal, predominatly vitrain, moderatly hard coal.
274.5	302.4	Mudstone, dark brown, minor coal stringers, highly crushed zones within interval. Particularily from 292' - 304.5'.
302.4	312	Coal, vitrain and clarain both highly broken core.
312	314	Missing, Likely coal as above

Core Size

Hole No. DDH 276 Page 1 of 3

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

172 - 177' Coal 5'
SEAM - R7U

252.5' - 253.5'
SHALEY COAL

258.5' - 261.5'
COAL 3' | SEAM R7 ZONE

301 - 311 Coal 10'
311 - 313 Mudstone
313 - 337 Coal 24'
36 (34)' | SEAM R5

2507-

Diamond Drill Geological Log

Cominco

Objective:				Sampled:		
Logged By: Ken Hanson	Date: June 9, 1978			Composites:		
Block:	Sect.:	Place: Turnbull West	App. Bear:	App.: Dip.:	Length:	

From	To	Discard: / Reason:
314	319	Interbedded siltstone and mudstone, dark grey to black in color with coal stringers. Inpart highly Carbonaceous. Bedding dipping at 32 degrees, highly broken interval with part missing.
319	322	Missing likely coal.
322	333	Coal, both vitrain and clarain, small mudstone interlaminations at 325' (~2" thick) Coal soft and highly broken up.
333	335	Missing, likely coal.
335	338	Coal, predominately vitrain, hard coal.
338	345	Mudstone, black highly carbonaceous multitude of coal stringers (up to 3" thick) coal vitrain and clarain Bedding dipping at ~5 degrees
345	346.5	Coal, both vitrain and clarain, moderatly hard.
346.5	355	Mudstone, dark grey brown inpart carbonaceous, small coal stringers (max. 1").
355	397	Interbedded mudstone and siltstone, mudstone bark brown siltstone medium grey. Slks at 370' soft sediment deformation structures. Bedding dipping at 15 degrees.
397	401	Sandstone, light to medium grey. Fine grained with silty interlaminations.
401	416	Interbedded mudstone and siltstone. Dark brown mudstone. Medium grey siltstone, bedding dipping @ 25 degree
416	460	Sandstone, medium grey, fine to medium grain, inpart salt and pepper. Minor coal stringers at 427' Bedding dipping at 9 degrees minor pyrite concretions.
460	462	Mudstone, dark grey brown, minor sandy interlaminations.
462	471	Sandstone, medium grey, fine grained.
471	508	Mudstone, dark brown, fine coal stringers (¼" thick) throughout. Coal stringer 2" at 497'.
508	512.5	Coal predominatly clarain with vitrain streaks, hard coal, minor mudstone parting (3" thick) at 509'.

Core Size

Hole No. DDH 276 Page 2 of 3

40 Scale

Color Plot & Dips | Ore Classes & Aver.

RAD LOG

342 - 344.5' Coal 2.5'

506.5 - 511.5'
COAL 5'

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hanson Date: June 20, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Turnbull West			

From	To	Discard: Reason:
512.5	514	Mudstone, black highly carbonaceous with coal interlaminations.
514	515.5	Coal, primarily clarain with vitrain and durain streaks, moderately hard coal.
515.5	522	Interbedded mudstone and coal. Mudstone black and highly carbonaceous, coal interbeds up to 6" thick and primarily vitrain. Coal dirty (with abundant mudstone interlaminations).
522	523	Coal, primarily durain and clarain, highly broken core and inpart missing core.
523	527.3	Interlaminated siltstone and mudstone. Siltstone medium to dark grey, mudstone dark brown to black. Finely interlaminated. Bedding dipping at 14 degrees, siltstone inpart sandy.
527.3	535	Coal, clarain, vitrain and durain components. Moderatly hard to hard coal.
535	537	Mudstone, black highly carbonaceous with coally interlaminations.
537	542	Coal both vitrain and clarain, moderatly soft coal, broken core.
542	542.4	Mudstone black carbonaceous, thin coally interlaminations.
542.4	547	Coal, primarily clarain, soft broken core.
547	555	Coal, vitrain streaks in durain, also, clarain (Particularly near base of interval) hard core for most part.
555	556	Mudstone, dark brown.
556	562	Siltstone, medium grey, sandy for most part, fine interbeds of mudstone in unit. Few minor carbonceous interlaminations.
562	606	Sandstone, salt and pepper, medium grained, with few interlaminations of carbonaceous material. Hard rock bedding dipping @ 22 degrees, minor sulfide development associated with some of the carbonaceous interlaminations.
	606	TOTAL DEPTH

Core Size

Hole No. DDH 276 Page 3 of 3

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

RAD LOG

527 - 554' COAL
1.5 & 2.5' MUDSTONE
at 534' and 544'
27 (23)'
SEAM - R1

2507-

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
254	260		24017			6		74.3			1 1/2		
260	265		24016			5		48.1			4 1/2		
314	319		24015			5		15.7			1		
319	326	SEAM - R5	24014			7		18.7			1		
326	333		24013			7		10.1			1		
333	340		24012			7		42.0			1		
340	345		24011			5		60.3			1		
345	347		24010			2		5.2			4		
314	333	COMPO.				19	0.6	14.7	19.0	65.7	1	0.26	
314	340	COMPO.				26	0.7	22.2	17.7	59.4	1	0.38	PETROGRAPHY & WASHABILITY.
508	513		24009			5		25.6			2 1/2		
513	518		24008			5		69.1			1/2		
518	523		24007			5		66.8			1/2		
508	513		24006			5	0.6	25.6	18.1	55.7	2 1/2	0.22	
528	531		24006			3		9.9			3		
531	536	SEAM - R4.	24005			5		39.7			1		
536	541		24004			5		16.0			7		
541	546		24003			5		28.6			3 1/2		
546	552		24002			6		27.4			5		
552	555		24001			3		33.7			3		
528	555	COMPO.		ACTUAL B.T.U 11,204		27	0.8	25.8	18.1	55.3	3 1/2	0.34	PETROGRAPHY & WASHABILITY.

TURNBULL

Diamond Drill Geological Log

D.D.H. 277

K-FORDING 78(3B-4

Cominco

Objective:

Sampled:

Logged By: K. H. Date: August /78

Composites:

Color Plot & Dips | Ore Classes & Aver.

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	501,000 N	TURNBULL WEST			

Reason: INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG

From	To	RAD. LOG		m.	m.	
0	177			0	53.95	Tricone
177	223					Interbedded siltstone and mudstone. Siltstone medium brown grey. Mudstone dark brown. Plant fossils found scattered throughout. Abundant soft sediment deformational structures. Bedding variable from 13°-27°. Parts of interval highly broken core.
		211.5	218.5	64.47	66.60	COAL 7' 2.13 M UPP, PART SEAM - R7
223	224					Coal. Vitrain. Very hard coal.
		214	215	65.23	65.53	COAL 1' 0.30 M
224	226					Missing core.
226	228					Mudstone. Black. Highly carbonaceous. 3" coal stringer at 227.2'
		228	242	69.49	73.76	COAL 14' 4.27 M SEAM - R7
228	231					Coal. Predominately clarain. Soft coal. Highly broken core.
231	236					Coal. Vitrain. Good proportion of interval missing.
236	242					Missing core.
242	246.5					Interbedded silty mudstone and coal. Dark brown to black mudstone. Coal beds (app. 6" thick), primarily vitrain.
246.5	274					Interlaminated siltstone and mudstone. Medium brown grey. Abundant soft sedimentary deformational structures. Minor thin coally stringers (app. 1/2" thick) found scattered throughout. Bedding variable dip from 9°-21°. Slickensides found scattered throughout interval.
274	292.5					Mudstone. Dark brown grey to black. Inpart carbonaceous. Highly broken and brecciated core throughout whole of interior. Thin coal bed (6" thick) at 290'.
292.5	296.5					Coal(?) primarily clarain. Abundant mudstone stringers. Good deal of missing core.

Core Size

Hole No. DDH 277

Page 1

322

2507-

Diamond Drill Geological Log

Cominco

Objective: | Sampled:

Logged By: K.H. | Date: August/78 | Composites:

Block: | Sect.: | Place: | App. Bear: | App.: Dip.: | Length:

Scale: Color Plot & Dips | Ore Classes & Aver.

From	To	RAD. LOG		m.	m.	COAL INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG
296.5	300					Siltstone(?) dark to medium grey. Over 70% of core missing.
300	302					Missing core.
302	327					Interbedded siltstone and mudstone. Siltstone medium grey, with mudstone interlaminations. Mudstone dark brown. Interval highly brecciated throughout.
		322.5	336.5	98.30	102.57	COAL 14' 4.27 M SEAM - R5
327	330.5					Missing core.
330.5	335					Coal. Primarily clarain. Soft coal. Highly broken core.
335	335.8					Siltstone. Dark grey. Abundant carbonaceous stringers.
335.8	340					Coal. Primarily clarain. Soft coal, highly broken core.
340	351					Siltstone. Light grey. Highly brecciated.
351	364					Interlaminated siltstone and sandstone. Light grey. Pyrite nodule formation at 359'. Bedding variable from dip of 13°-20°. Core broken for most part.
364	380					Interbedded siltstone and mudstone. Siltstone light brown grey. Mudstone dark brown. Abundant soft sediment deformational structures.
380	385					Sandstone. Light to medium grey. Strongly X-bedded. Tabular X-bedding. Fine to medium grained. Coally stringers.
385	406					Interbedded siltstone, sandstone and mudstone. Siltstone medium brown grey, sandstone medium grey. Fine grained. Mudstone dark brown. Abundant soft sediment deformational structures. Mudchip breccia common.
406	437					Interbedded siltstone and mudstone. Siltstone medium grey, mudstone brown. Abundant soft ~~sediment deformational structures and X-bedded~~ intervals. Brecciated with slickensides at 435'-437'.

Core Size

Hole No. DDH 277

Page 2

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: K.H. Date: August/78

Composites:

Block: | Sect.: | Place: | App. Bear: | App.: Dip.: | Length:

Scale

Color Plot & Dips | Ore Classes & Art

Reason: INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG

From	To	RAD. LOG		m.	m.	
437	442					Mudstone. Dark grey brown to black. Brecciated with slickensides from 437'-439'.
442	470					Interlaminated siltstone and mudstone. Siltstone medium brown grey, mudstone dark brown. Abundant soft sediment deformational structures. Bedding dip variable from 9°-20°.
470	477					Mudstone. Black, carbonaceous.
		475.5	483	144.93	147.22	COAL 7.5' 2.29 M
477	482					Coal. Mainly vitrain. For most part hard coal.
482	495					Mudstone. Dark brown to black. Inpart very carbonaceous.Small coally stringers throughout.
495	496.5					Coal. Predominately vitrain. Moderately hard coal. Pyrite nodule development in coal.
		496	498	151.18	151.79	COAL 2' 0.61 M
496.5	502					Mudstone. Black. Carbonaceous. Thin coally stringers throughout.
502	503					Coal. Clarain. Soft, highly broken core.
503	524					Siltstone. Medium brown. Bedding at 24° dip. Thin mudstone bed at 519' and mudchip breccia towards base of interval. Gradational contact with highly carbonaceous mudstone below.
524	525					Mudstone. Black. Carbonaceous. Coally stringers.
525	528					Siltstone. Dark grey.
528	529					Mudstone. Black carbonaceous. Coally stringers. Slickensides also.
529	533					Siltstone. Dark grey. A few minor coally stringers in interval.

Core Size

Hole No. DDH 277

Page 3

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: K.H. Date: August/78

Composites:

Scale

Color Plot & Dips | Ore Class...

Block: | Sect.: | Place: | App. Bear: | App.: Dip.: | Length:

Reason: INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG

From	To	RAD. LOG		m.	m.	
533	619					Interbedded siltstone and sandstone. Siltstone medium grey to light brown. Sandstone medium grey, fine to medium grained. Abundant soft sediment deformational structures, including micro X-bedding. Pyrite nodular development at 576'. Bedding variable from 11°-19° dip. Few minor mudstone beds. Dark brown mudstone scattered throughout interval, though rare.
		619	625	108.67	190.50	COAL 6' 1.83 M SEAM - R4 BAND
619	621					Missing core.
621	624					Coal. Clarain. Soft, highly broken core.
624	629					Mudstone. Black, carbonaceous. Abundant slickensides. Broken core.
		630	635.5	192.02	193.70	COAL 5.5' 1.68 M
629	635					Coal. Predominately clarain and vitrain. Hard coal.
635	636.5					Mudstone. Black. Highly carbonaceous. Abundant coal stringers.
636.5	638.5					Interlaminated coal and mudstone. Black, highly carbonaceous mudstone. Coal mainly vitrain. Laminate app. 1/4" thick.
638.5	654					Mudstone. Dark brown to black. Siltstone laminations and coally stringers. (app. 1/2" thick). Bedding at 1
		654	660	199.34	201.17	COAL 6' 1.83M
653.5	659.5					Coal. Durain with vitrain streaks. Hard coal.
659.5	688					Mudstone. Black. Carbonaceous. Thin coally stringers. Abundant slickensides. Pyrite nodular development at 669'. Thin, silty bands, dark brown to black. Bedding at 48° dip.
		687	699	209.40	213.06	COAL 12' 3.66M
688	690					Coal. Clarain. Moderately soft coal.
690	692.5					Missing core. Coal(???)

Core Size

Hole No. DDH 277

Page 4

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: K.H. Date: August/78

Composites:

Block: | Sect.: | Place: | App. Bear: | App.: Dip.: | Length:

Scale

Color Plot & Dips | Ore Classes & Aver

From	To	RAD. LOG		m.	m.	Reason: INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG
692.5	694					Mudstone. Black. Highly slickensided. Carbonaceous.
694	697					Coal. Clarain, soft coal. Inpart missing core.
697	698					Siltstone. Dark brown.
698	699					Coal. Clarain. Soft coal.
699	709					Siltstone. Medium grey brown to cark brown. Bedding dipping at 50°. Highly brecciated from 705'-709'.
		710	713	216.41	217.32	COAL 3' 0.91M
709	711					Mudstone. Black, carbonaceous. Minor coal stringers app. 3" thick. Broken core.,
711	713					Coal. Clarain mainly. Soft coal. Highly broken core.
713	716					Siltstone. Medium brown grey.
716	733					Mudstone. Dark brown to black. Highly brecciated with abundant slickensides from 716'-724' and 727'-733'.
		734	762	223.72	229.51	COAL WITH 753-756' MUDSTONE 3' 28(25)' 8.53 M (7.62)M SEAM - R4
733	740					Coal. Predominately clarain. Soft coal. Highly broken.
740	742					Siltstone. Highly carbonaceous at top of interval, increasingly silty towards base. Dark to medium brown grey.
742	752					Coal. Predominately clarain. Soft coal. Highly broken.
752	757					Mudstone. Brown to black. Highly broken and slickensided.
757	761					Coal. Vitrain and durain predominately. Moderately soft coal. Highly broken core.
761	770					Interbedded siltstone and mudstone. Siltstone medium brown grey. Mudstone dark brown. Highly brecciated throughout. Carbonaceous, just at base.
		771.5	781.5	235.15	238.20	COAL 10' 3.05M LOWEST BAND SEAM - R4

Core Size

Hole No. DDH 277

Page 5

2507-

Diamond Drill Geological Log

Cominco

Scale

Color Plot & Dips | Ore Classes & Aver.

Objective:

Sampled:

Logged By: K.H. Date: August/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

Reason: INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG

From	To	RAD. LOG		m.	m.	
770	776					Coal. Predominately durain and vitrain. Moderately hard coal.
776	777					Siltstone. Brown. Highly brecciated. Thin coally streaks and stringers.
777	781					Coal. Primarily vitrain. Moderately hard coal.
781	815					Siltstone. Medium grey brown to dark brown. Highly brecciated throughout, with abundant slickensides. Inpart sandy.
815	816					Sandstone. Salt and pepper. Highly brecciated.
816	822					Mudstone with coal stringers. Black, highly carbonaceous mudstone. Coal clarain mostly (app. 6" thick stringers). Highly brecciated with abundant slickensides.
822	824					Siltstone. Dark grey. Abundant thin coally stringers (app. 1/2" thick). Brecciated throughout interval.
824	871					Interbedded siltstone and mudstone. Grey brown siltstone, dark brown to black mudstone. Whole internal highly brecciated. Bedding variable from 11°-40° dip.
871	889					Interbedded sandstone and siltstone. Sandstone, medium grey; siltstone dark grey brown. SS medium to fine grained. Abundant coally stringers. Highly brecciated interval.
889	916					Interbedded siltstone and mudstone. Siltstone medium to dark grey. Mudstone dark brown to black and highly carbonaceous for most part. Highly brecciated throughout.
916	922					Coal. Very dirty with many mudstone interlaminations. Highly broken core.
		924	926	281.64	282.24	COAL 2' 0.61M SEAM - R 2
922	925					Coal. Predominately clarain. Soft coal. Highly broken core. A few durain streaks also.
925	934					Siltstone. Medium brown grey. Highly brecciated Bedding variable, but average app. 12° dip.

Core Size

Hole No. DDH 277

Page 6

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: K.H. Date: August/78

Composites:

Block: | Sect.: | Place: | App. Bear: | App.: Dip.: | Length:

Scale: Color Plot & Dips | Ore Classes & Aver.

From	To	RAD. LOG		m.	m.	Reason: INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG
934	945					Coal. Clarain. Primarily moderately soft coal. A few mudstone interlaminations, particularly at base.
		934.5	946.5	284.84	288.49	COAL 12' 3.66M SEAM- R1
945	951					Sandstone. Light to medium grey. Salt and pepper in part massive with rare silty intercalations.
951	951.5					Mudstone. Dark brown. Oxidized and brecciated.
951.5	1040					Sandstone. Light to medium grey. Salt and pepper inpart. often bedded. Bedding variable due to Macro X-bedding, from 32°-48°. Unit often brecciated and slickensides, common throughout. ~~Mudstone interlaminations (carbonaceous)common towards~~ base.
1040	1069					Sandstone interlaminated with siltstone/mudstone. Dark brown mudstone/siltstone. Light to medium grey SS. SS fine grained, also rare mudstone intercalations. ~~Bedding dip at 38°. Fairly abundant breccia zones with or without calcite infilling.~~
1069	1132					Siltstone with sandstone and mudstone interlaminations. Light brown to dark brown grey. Minor thin carbonaceous bands. Breccias and slickensides scattered throughout, ~~though not abundant. Birds-eye structures, abundant soft sediment~~ deformational structures. Dip from 20°-35°.
						T.D. 1132' 345.03M

Core Size

Hole No. DDH 277

Page 7

Diamond Drill Geological Log

DDH 278

15-FORDING 78(3)B-4

Cominco

Objective:

Sampled:

Logged By: Kenneth Hansen Date: July/78

Composites:

Block:	Sect.: 502,000 N	Place: TURNBULL WEST	App. Bear:	App.: Dip.:	Length:

From	To	Discard: m	m	Reason:
				INTERSECTIONS CORRECTED BY GM. - NT. LOG
0	47			Triconed 14.33 M
47	50			Mudstone, Black. Carbonaceous. Slickensides @ 49'. Non-oxidized.
50	52			Coal. Clarain streaks in durain with vitrain bands.
53	55	16.15	16.76	COAL 2' 0.61 M
52	103			Interlaminated siltstone. Dark to medium grey. Breccia from 81' - 82'.
103	113			Sandstone. Medium grey. Fine to medium grey with mudstone intercalations and mudchip breccia @ 108'. Bedding @ dip of 16°. (Variable 10 - 45°) due to X-bedding.
113	119			Mudstone. Dark grey to black. In part carbonaceous.
119	120			Coal. Clarain. In part missing.
120	138			Mudstone. Black. Carbonaceous. Silty from 127'-129'. Thin coally bands.
138	156			Coal. Primarily clarain. Moderately hard coal.
140	158	42.67	48.16	COAL 18'/5.49 M SEAM - R7
156	156.5			Shale. Black. Highly carbonaceous.
156.6	158			Coal. Clarain. Soft Coal.
158	206			Mudstone. Dark grey brown. Highly brecciated with calcite infilling. From 158'-180'; becomes more silty towards base. Bedding dip @ 20°. Slickensides throughout and at coal contact at base.
206	234			Coal. Clarain predominately soft coal. Infault contact with mudstone above.
207	236	63.09	71.93	COAL 29' 8.84M SEAM - R5
234	240			Siltstone with mudstone intercalations. Medium to dark grey. Bedding dip at 16°. Slickensides at 234-235'.

Color Plot & Dips | Ore Classes & Aver.

0

Core Size

Hole No. DDH 278

Page 1

2507-

Diamond Drill Geological Log

Cominco

40 Scale

Color Plot & Dips | Ore Classes & Aver.

Objective:

Sampled:

Logged By: K enneth Hansen Date: July/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From	To	Discard: m m	Reason:
240	243		Coal. Durain with vitrain streak, Hard coal.
240	245	73.15 74.68	COAL 5' 1.52 M
243	244		Mudstone. Black, Highly carbonaceous with coal bands.
244	245		Coal. Predominately vitrain. Hard coal.
245	247		Mudstone. Black. Highly carbonaceous.
247	250		Coal. Clarain. Soft. Highly broken core.
247.5	250	75.44 76.20	COAL 2.5' 0.76 M
250	266		Mudstone. Dark grey brown. Inpart silty bedding at 14° dip.
266	306		Interbedded siltstone and mudstone. Medium to dark grey siltstone. Dark grey brown mudstone. Abundant soft sediment deformational structures, including a few mudchip breccia.
306	366		Sandstone. Medium to light grey. Medium to coarse grained. Inpart silty. Mudstone interbeds from 310-312, also thin coally stringers throughout bedding ~~at 10° - 18° (somewhat variable due to micro X-bedding).~~
366	449		Interbedded siltstone and mudstone. Medium grey siltstone. Dark grey brown mudstone. Siltstone inpart sandy. Abundant soft sediment deformational ~~structures. Thin coal band of 6" at 343'. (clarain and shaley). Bedding at~~ 11° dip.
449	453		Mudstone. Black. Carbonaceous.
453	459		Missing core.
450	460	137.16 140.21	COAL 10' 3.05 M SEAM - R4 BAND
459	466		Mudstone. Black to dark grey brown.

Core Size

Hole No. DDH 278

Page 2

2507-

Diamond Drill Geological Log

Cominco

Objective:			Sampled:		
Logged By: KENneth Hansen	Date: July/78		Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From	To	Discard: m	m		Reason:
466	488				Interlaminated sandstone and siltstone. Sandstone fine grained medium grey. Siltstone dark grey. Pyrite infilling of joints at 481'. Bedding dip at 9° - 15° ~~(Micro-X-bedding causes variability).~~
488	491				Mudstone. Silty at top of interval. Dark brown to black.
491	502				Coal. Clarain. Highly broken core. Soft coal.
494	508	150.57	154.84		COAL 14' 4.27 M SEAM - R4 BAND
502	507				Coal. Durain with vitrain streaks. Hard coal.
507	514				Sandstone. Medium to coarse grained. Light grey. Almost salt and pepper. Coal stringers (app. 1/4" thick) throughout.
514	530				Siltstone. Dark brown to medium grey. Interlaminations of dark brown mudstone. Bedding highly variable. Dips 10° - 30°. Brecciation at 521'-524'. Abundant soft sediment deformational structures.
530	536.5				Mudstone. Dark brown grey to black. Silty at top. Numerous thin coally stringers.
536.5	543				Coal. Predominately clarain. Moderately soft coal. 1" moderately hard coal. from 542-543'. 4" mudstone parting at 541'.
537	542	163.68	165.20		COAL 5' 1.52 M SEAM R4 BAND
543	553				Mudstone. Black, carbonaceous. Numerous thin coally bands. (app. 6" thick) Also slickensides throughout interval.
553	555.5				Siltstone. Medium grey. Inpart sandy with mudstone interlaminations. Bedding at 15° dip.
555.5	563				Coal. Primarily clarain, soft coal. Bands of durain with vitrain streaks from 559'-562' ~~in clarain.~~

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

Core Size

Hole No. DDH 278

Page 3

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Kenneth Hansen Date: July/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

40 Scale

Color Plot & Dips | Ore Classes & Aver.

From	To	Discard: m	m	Reason:
556	564	169.47	171.91	COAL 8' 2.44 M SEAM R4 BAND
563	567			Mudstone. Dark brown. Numerous coally stringers. (app. 1/2" thick)
567	581			Siltstone interbedded with mudstone. Dark brown to medium grey. Abundant soft sediment deformational structures. Micro X-bedding. Bedding variable dip from 9° 0 15°.
a				
581	587			Sandstone. Light to medium grey. Medium grained. Coally stringers and blebs, throughout. Very sharp basal contact (knife edge contact).
587	592			Mudstone. Dark brown with siltstone intercalations. Sandstone lense at 591' of 6" thickness.
592	599			Coal. Durain with vitrain streaks. Hard coal.
592	609	180.44	185.62	COAL 17(16)' 5.18 (4.88) M. SEAM - R4 LOWEST BAND
599	608			Coal. Primarily clarain. Soft coal mainly.
608	619			Interbedded sandstone and siltstone. Siltstone dark grey brown. Sandstone medium grey. Bedding at 21° dip.
619	672			Sandstone. Medium to coarse, grained. Salt & pepper sandstone. Micro-X bedding. Mudchip breccia in SS matrix 665' - 669'. Bedding from 10°-18° dip.
				TD 672' 204.83 M

Core Size

Hole No. DDH 278

Page 4

2507-

Diamond Drill Geological Log

K- FRIDING 78(3)B-4

DDH 279

Cominco

Objective:

Sampled:

Logged By: K.H. Date: August/78

Composites:

Color Plot & Dips | Ore Classes & Aver.

Block: | Sect.: | Place: | App. Bear: | App.: Dip.: | Length:

From	To	RAD. LOG		m.	m.	COAL INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG
0	64					Triconed.
64	69					River gravel. Limestone cobbles and pebbles.
69	71					Mud. Dark brown, sandy with coarse sand grains in mud matrix.
71	110					River gravel. Limestone and sandstone cobbles and pebbles.
110	110.5					Mudstone. Dark brown.
110.5	111					Sandstone. Medium grained. Medium grey. Bedding at dip of 33°.
111	119					River gravel up to boulder size components.
119	128					Tricone.
128	129					River gravel. Cobble to pebble size limestone and sandstone.
		0	128	0	39.01	OVERBURDEN
129	154					Interlaminated siltstone and sandstone. Siltstone medium brown grey. SS brown grey, fine grained. Rare mudstone beds. Abundant soft sediment deformational structures. Bedding at dip of 15°-25°. Non-oxidized.
154	155					Mudstone. Black, carbonaceous. Thin silty band (1 1/2" thick) in center of unit.
155	161					Interbedded siltstone and laminated siltstone and SS. Siltstone medium brown grey. SS medium grey. Micro X-bedding.
161	172					Sandstone. Fine to medium grained. Salt and pepper inpart. Highly X-bedded. Clear scour and fill structures. Interlaminations of black, carbonaceous mud common throughout interval.
172	174					Mudstone. Dark brown. Silty at top.
174	194					Interbedded siltstone and sandstone. Dark brown siltstone (muddy inpart). Medium to light grey SS, fine grained. Abundant soft sediment deformational structures. Bedding variable from 19°-25°.

Core Size

Hole No. DDH 279

Page 1

322

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: K.H. Date: August/78

Composites:

Block: | Sect.: | Place: | App. Bear: | App.: Dip.: | Length:

Scale: Color Plot & Dips | Ore Classes & Aver.

From	To	RAD. LOG		m.	m.	COAL INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG
194	195.5					Coal. Clarain. Hard coal.
		196	197	59.74	60.05	COAL 1' 0.30M
195.5	199					Siltstone medium brown. Brecciated from 196.5'-199'.
199	202					Interlaminated sandstone and siltstone. Medium grey. Abundant soft sediment deformational structures.
202	210					Mudstone. Dark brown to black. Rare silty laminations. Bedding at 24° dip.
		204	206	62.18	62.79	COAL 2' 0.61M
210	212.5					Coal. Vitrain. Hard to very hard coal. Core inpart missing.
212.5	213.5					Mudstone. Black. Highly carbonaceous. Highly broken core.
		212.5	213.5	64.77	65.07	COAL 1' 0.30M
213.5	230					Interbedded sandy siltstone and mudstone. Medium grey siltstone. Dark brown mudstone. Inpart highly contorted bedding. Abundant soft sediment deformational structures. Brecciated from 215'-224'.
230	235.5					Shaley coal. Coal predominately vitrain. Abundant mudstone interlaminations, Particularly near top of unit.
		230	235	70.10	71.63	COAL 5' 1.52M
235.5	236.5					Siltstone. Medium brown. Containing mudstone intercalations.
236.5	237.5					Coal. Vitrain. Hard coal. Broken core.
237.5	245					Mudstone. Dark brown to black. Carbonaceous.
245	257					Siltstone. Medium brown. Bedding dip @ 36°.
257	289					Mudstone. Dark brown to black. Scattered carbonaceous zones and small coal stringers. (app. <3" thick)

Core Size

Hole No. DDH 279

Page 2

2507-

Diamond Drill Geological Log

Cominco

Scale

Color Plot & Dips | Ore Classes & Aver.

Objective:

Sampled:

Logged By: K.H. Date: August/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From	To	RAD. LOG		m.	m.	COAL INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG
289	293					Coal. Clarain. Soft coal. Highly broken core.
		292	293	89.00	89.31	COAL 1' 0.3M
293	294					Mudstone. Black. Highly carbonaceous. Thin vitrain band (1" thick).
294	297.5					Coal. Clarain. Highly broken core. Soft coal.
		296.5	299	90.37	91.13	COAL 2.5' 0.76M
297.5	298					Mudstone. Black. Carbonaceous.
298	300.5					Coal. Clarain. Soft coal. Highly broken core.
300.5	317					Mudstone. Dark brown to black. Carbonaceous with thin coally bands. Highly brecciated from 309'-317'.
317	329					Siltstone. Medium brown grey. Bedding dip at 29° dip.
329	348					Mudstone. Dark brown to black. Inpart carbonaceous. Pyrite nodular formation at 338'. Strongly brecciated throughout. Strong calcite development (cavity infilling???) at 340'.
348	354					Siltstone. Dark brown. Bedding at 21° dip.
354	361					Mudstone. Black. Carbonaceous. Coally zone from 355.5'-356.5'. For most part brecciated.
361	367					Siltstone. Dark brown, grey. Highly broken core.
		379	387	115.52	117.76	COAL 8' 2.44M SEAM - R7 PART
367	380					Mudstone. Black. Carbonaceous with coally bands. For most part, highly brecciated.
380	385.3					Coal. Mainly vitrain. Moderately soft coal. Highly broken core.
385.3	386.5					Lost core.

Core Size

Hole No. DDH 279

Page 3

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: K.H. Date: August/78

Composites:

Block: | Sect.: | Place: | App. Bear: | App.: Dip.: | Length:

Scale

Color Plot & Dips | Ore Classes & Aver.

From	To	RAD. LOG		m.	m.	COAL INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG
386.5	387					Coal. Vitrain. Hard to very hard coal.
		391	404	119.18	123.14	COAL 13' 3.96M SEAM - R7 PART
387	388					Mudstone. Black. Carbonaceous.
388	391.5					Coal. Clarain. Soft coal highly broken.
391.5	396.5					Core missing.
396.5	401.5					Coal. Clarain. Soft coal, highly broken.
401.5	403					Missing core.
403	403.5					Coal. Clarain. Very soft coal. Highly crushed.
403.5	405					Siltstone. Dark brown. Brecciated.
405	406					Coal. Clarain. Soft coal. Highly brecciated.
406	410					Interbedded siltstone and mudstone. Dark brown mudstone, medium grey brown siltstone. Bedding dip at 20°.
410	411.7					Coal. Interlaminated with mudstone. Black mudstone. Coal is clarain.
411.7	415					Siltstone. Dark brown.
415	416					Siltstone. Black. Carbonaceous.
416	425					Mudstone. Dark brown. Intensely brecciated with abundant slickensides. At base thin coally bed. (3" thick). Also highly brecciated.
425	432					Sandstone. Light grey to buff. Fine grained. Highly brecciated. Thin coally stringer at 431'.
432	433					Coal. Clarain. Soft coal highly broken.
433	434					Mudstone. Dark brown.
434	437					Sandstone. Dark grey. Fine grained.
437	440					Interlaminated sandstone and mudstone. Dark brown grey. Thin coally stringers. Bedding at 23° dip.

Core Size

Hole No. DDH 279

Page 4

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: K.H. Date: August/78

Composites:

Block: | Sect.: | Place: | App. Bear: | App.: Dip.: | Length:

Scale

Color Plot & Dips | Ore Classes & Aver.

From	To	RAD. LOG		m.	m.	COAL INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG
440	448					Mudstone. Dark brown to black. Inpart silty.
448	451					Coal. Primarily clarain. Mudstone laminations at base. Soft coal. Highly broken core.
451	452					Mudstone. Black. Carbonaceous.
452	453.5					Coal. Clarain mainly. Soft coal. Highly broken.
453.5	458					Mudstone. Dark brown to black. Carbonaceous. Thin coal stringers (app. 1" thick)
458	458.5					Interlaminated sandstone and mudstone. SS light grey, mudstone dark brown. Bedding at 31° dip.
458.5	460					Mudstone. Black, carbonaceous. 2" coal stringer at basal contact.
460	483					Interbedded sandstone and siltstone. SS medium grey; siltstone medium brown grey. Brecciated in several places. SS fine to medium grained. Abundant soft sedimentary deformational structures.
483	492					Mudstone. Dark brown. Rare silty laminations. Bedding at dip of 48°.
		493	506	150.27	154.23	COAL 13' 3.96M SEAM - R5
492	508					Coal. Primarily clarain with bands of durain and vitrain. Moderately soft to hard coal. Shaley at basal contact.
508	512					Mudstone. Dark brown. Highly brecciated from 507'-510'.
		514	515	156.67	156.97	COAL 1' 0.30M
512	517					Interbedded mudstone and coal. Mudstone dark brown to black. Inpart silty. Coal predominately vitrain.
517	533					Sandstone. Medium brown. Fine grained. Brecciated. Silty SS. Abundant soft sediment deformational structures.

Core Size

Hole No. DDH 279

Page 5

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: K.H. Date: August/78

Composites:

Block: | Sect.: | Place: | App. Bear: | App.: Dip.: | Length:

Scale

Color Plot & Dips | Ore Classes & Aver.

From	To	RAD. LOG		m.	m.	COAL INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG
533	535					Interlaminated siltstone and sandstone. Siltstone dark brown. SS medium grey brown and medium to fine grained. Bedding dip at 12°.
535	542					Siltstone. Medium to dark brown. Rare sandy interlaminations. Abundant coal stringers and coal blebs.
542	556.8					Interlaminated sandstone and siltstone. Dark brown siltstone. Medium grey sandstone. Fine grained. Rare coally stringers. Brecciated from 552'-557'.
556.8	559					Coal. Clarain. Soft coal. Highly broken core.
559	568					Siltstone. Dark brown. Brecciated sandstone intercalations.
568	586					Breccia. Mudstone fragments in sandstone matrix.
586	589.4					Coal. Mainly vitrain. Highly crushed ore.
589.4	593					Breccia. Mudstone. Dark brown to black fragments. Abundant slickensides.
593	605					Siltstone. Dark brown. Brecciated. Abundant slickensides. Bedding dip @ 51°.
605	612					Mudstone. Dark brown grey to black. Carbonaceous. Highly brecciated. Silty interbed from 607'-608'.
612	619					Siltstone. Medium brown. Highly brecciated near upper contact to 613'.
619	629					Interlaminated siltstone and sandstone. Medium brown. Fine grained SS. Abundant soft sediment deformational structures. Bedding dip @ 49°.
629	632					Sandstone. Medium grey. Medium grained. Thin carbonaceous stringers (app. 1/4" thick)
632	647					Interlaminated siltstone and sandstone. Medium brown grey. Abundant soft sediment deformational structures. Bedding dip @ 61° and 48° (X-bedding)

Core Size

Hole No. DDH 279

Page 6

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: K.H. Date: August/78

Composites:

Block: | Sect.: | Place: | App. Bear: | App.: Dip.: | Length:

Scale: Color Plot & Dips | Ore Classes & Aver.

From	To	RAD. LOG		m.	m.	Reason: INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG
647	684					Sandstone. Medium grained. Medium to dark grey. Abundant carbonaceous laminations and blebs. Pyrite infilling along joint planes at 659'. Highly slickensided at 676'-678'. Bedding at 688' is at 72° dip.
684	686.5					Coal. Clarain to 686', then vitrain to basal contact. Highly broken core.
686.5	689					Silty sandstone. Fine grained. Light grey brown. Bedding at 43° dip.
689	733					Sandstone. Medium to coarse grained. Medium grey to salt and pepper. X-bedded sandstone. Rare coally stringers. Abundant dark brown mudstone intercalations. (Angular fragments for most part) Up to 4" in length.
733	734.5					Interlaminated siltstone and mudstone. Dark grey.
734.5	735.2					Sandstone. Medium grey. Medium grained. Contains small mudstone intercalations.
735.2	736.2					Mudstone. Dark grey.
736.2	736.8					Sandstone. Medium grained. Medium grey.
736.8	749					Mudstone. Dark grey, with minor silty interlaminations. Bedding dip @ 32°-38°.
		750	755	228.60	230.12	COAL 5' 1.52M SEAM - R2
749	754.5					Coal. Clarain. Moderately hard coal.
754.5	755.5					Mudstone. Black. Highly carbonaceous.
755.5	762					Interlaminated sandstone and silty mudstone. Medium grey SS.Dark brown grey to black mudstone, also carbonaceous. SS fine grained. Bedding at 47° dip.
762	763.2					Sandstone. Medium grey. Massive.
763.2	766.5					Interlaminated. Sandstone and mudstone. Medium grey SS. Black mudstone. (Carbonaceous)
		769.5	773	234.54	235.61	COAL 5.5' 1.68M SEAM - R1

Core Size

Hole No. DDH 279

Page 7

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: K.H. Date: August/78

Composites:

Scale

Color Plot & Dips | Ore Classes & Aver.

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

Reason: INTERSECTIONS CORRECTED BY GAMMA RAY NEUTRON LOG

From	To	RAD. LOG		m.	m.	
766.5	772					Coal. Primarily clarain. Soft coal, highly broken.
772	825					Sandstone. Medium grained. Light to medium grey. Massive with the rare bedding plane visible.
						T.D. 825' 251.46M

Core Size

Hole No. DDH 279

Page 8

0

2507-

Diamond Drill Geological Log

K- FORDING 78(3)B-4

DDH - 282

Objective:

Sampled:

Logged By: Ken Hansen Date: July 20, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	503,000 N	Turnbull West			

Reason: Intersections corrected by Gamma Ray - Neutron Log

From	To	Discard:				
0	104					Tricone
104	126					Siltstone. Dark Grey brown to dark grey. Interbedded with dark grey mudstone. Bedding variable from 10° - 20° dip. Siltstone in part sandy. Non-oxidized.
126	128					Mudstone. Black. Highly carbonaceous.
128	132					Siltstone. Dark to medium grey.
132	139					Mudstone. Dark grey brown.
139	142					Sandstone. Medium grey. Fine grained with 6" mudstone band near base. Abundant soft sediment deformational structures.
142	147					Mudstone. Black. Slightly carbonaceous. Bedding dip @ 15°.
147	149					Coal. Clarian. Highly broken core. Soft coal.
149	157					Interbedded siltstone and mudstone. Medium grey siltstone. Dark grey brown mudstone. Bedding @ 20° dip.
157	196					Mudstone. Dark brown to black. In part carbonaceous. With thin coally bands. (<1' thick) Also rare siltstone interbeds.
196	222					Interbedded sandy siltstone and mudstone. Mudstone dark brown, siltstone medium grey. Abundant solft sediment deformational structures. Bedding variable from 11°-25° dip.
222	231					Mudstone. Dark brown. Occasional silty laminations. Essentially non-carbonaceous.
231	238					Interlaminated siltstone and mudstone. Dark grey brown mudstone, grey siltstone. Bedding @ 9° dip.
238	240.5					Mudstone. Dark brown to black. Becoming increasingly carbonaceous, just over the coal.
		239.5	244.5			Coal 5'
240.5	245					Coal. Durain with Vitrain, predominately. Moderately hard coal.

Core Size

Hole No. DDH 282

Page 1

Aver.

0

322

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hansen Date: July 20, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From	To	Discard: RAD.	Discard: LOG			Reason:
245	247					Interbedded coal and mudstone. Black carbonaceous mudstone. Coal predominately clarain. (coal < 4" thick)
247	252					Mudstone. Black with coally stringers.
		253	254			Shaley Coal. 1'
252	254.5					Coal. Highly broken core. Predominately vitrain.
254.5	255					Mudstone. Black.
255	256					Coal. Predominately vitrain. Highly broken core.
256	267.5					Mudstone. Dark brown to black with coal stringers and blebs. In part silty.
		267.5	293			Coal 25.5' SEAM - R7
267.5	292					Coal. Durain with vitrain streaks predominately. Hard to very hard coal. Thin mudstone partings @ 279' (of 4" thickness)
292	296					Interbedded coal and mudstone. Coal predominates. Coal predominately clarain. Mudstone black. Coal highly broken and soft.
296	357					Mudstone. Black to dark grey brown. Silty interlaminations in some locations. Bedding @ 9° - 14° dip. Becoming very carbonaceous just above coal intersection, with thin coal beds.
357	363					Coal. Mainly clarain. Broken core but moderately hard coal.
		356	362			COAL 6'
363	382					Mudstone. Black. Highly slickensided just below coal intersection and throughout interval. Thin coally bed @ 365' (3" - 4")
		381	402			COAL 21'
382	387					Moderately soft coal.
387	393					Missing core. Likely coal????

40 Scale

Color Plot & Dips | Ore Classes & Aver.

RAD. LOG.

0

267.5- 293 COAL 25.5 SEAM R7

356' - 362' COAL 6'

Core Size

Hole No. DDH 282

Page 2

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hansen Date: July/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

40 Scale

Color Plot & Dips | Ore Classes & Aver.

From	To	Discard: RAD.	Discard: LOG.			Reason:
393	401					Coal. Clarain. Highly broken, very soft coal.
401	411					Mudstone. Black carbonaceous with thin coally stringers. Slickensides throughout. In part silty. Abundant soft sedimentary deformational structures.
411	420					Coal. Clarain. Moderate soft to soft coal.
		411	421			COAL 10'
420	422					Mudstone. Dark brown to black. Bedding dip @ 41°
422	423.5					Coal. Predominately clarain. Moderate hard coal.
423.5	426					Mudstone. Black carbonaceous. In part core missing, presumed to be coal. Slickensides abundant throughout.
426	427					Coal. Clarain. Moderately hard coal.
427	430					Mudstone. Dark brown.
		436	445			COAL WITH 1' SHALE @ 440' 9(8)'
430	436					Siltstone. Medium to dark brown. Rare mudstone interlaminations. Bedding dip @ 42° Breccia @ 431' - 433'
445	459					Mudstone. Brown to dark grey. Highly broken for the most part. Slickensides throughout.
		459	479.5			COAL WITH 1' and 2' MUDSTONE AT 461' AND 474' 20.5 (17.5)'
459	461					Coal. Durain and vitrain. Predominately. But core in part missing.
461	462					Mudstone. Black carbonaceous. Broken core.
462	473.5					Coal. Predominately clarain. Soft to moderately hard coal.
473.5	475					Mudstone. Dark brown to black. Carbonaceous.
475	479					Coal. Predominately durain with clarain and vitrain streaks. Hard coal.

Core Size

Hole No. DDH 282

Page 3

2587-

Diamond Drill Geological Log

Cominco

Objective:				Sampled:	
Logged By: Ken Hansen	Date: July/78			Composites:	
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From	To	Discard: RAD.	Discard: LOG.			Reason:
479	509					Mudstone. Dark brown to black. In part carbonaceous, thin coally bands. Bedding @ 20° dip.
509	513					Interlaminated siltstone and mudstone. Dark brown. Bedding @ 22° dip.
513	521					Mudstone. Dark brown to black. Becoming increasingly carbonaceous.
521	549					Coal. Mainly durain with vitrain streaks, but occasional clarain bands. Hard to very hard coal. 4" mudstone parting @ 548'.
		521	548			COAL 27'
549	552.5					Mudstone. Black. Thin coally stringers throughout.
		553	555.5			COAL 2.5'
552.5	555					Coal. Durain with vitrain streak. Thin mudstone parting. 3" @ 553'.
555	561					Mudstone. Dark brown to black. Rare siltstone interlaminations. Bedding @ 18° dip.
561	574.5					Mudstone. Dark brown. Breccia @ 563' with calcite infilling. Abundant slickensides @ 571' - 573'.
		572	573			1' COALY SHALE
574.5	577					Coal. Durain with vitrain streaks. Hard coal.
		575	576.5			COAL 1.5'
577	578					Mudstone. Black.
578	599					Interbedded siltstone and mudstone. Dark brown. In part sandy. Bedding dip @ 22°.
599	600.5					Coal. Clarain. Moderately hard coal.
		599	602			COAL 3'
600.5	601					Mudstone. Black.
601	601.5					Sandstone. Very light grey. Coally laminations.
601.5	602.5					Coal, primarily vitrain. Hard core.

Core Size	
Hole No.	Page
DDH 282	4

40 Scale

Color Plot & Dips	Ore Classes & Aver.

0

2507-

Diamond Drill Geological Log

Cominco

Objective:

Logged By: Ken Hansen Date: July/78

Sampled:

Composites:

Block: Sect.: Place: App. Bear: App.: Dip.: Length:

40 Scale | Color Plot & Dips | Ore Classes & Aver.

0

From	To	Discard: RAD.	LOG.			Reason:
602.5	606					Mudstone. Black. Carbonaceous.
		606.5	608.5			COAL 2'
606	607					Coal. Vitrain. Highly broken core. Soft coal.
607	623					Mudstone. Dark brown, grey to black. Rare coally stringers.
623	631					Siltstone. Medium brown grey.
631	637					Interbedded siltstone and fine grained sandstone. Siltstone dark medium brown, grey. Siltstone medium to light grey.
637	667					Interbedded siltstone and mudstone. Dark brown. Minor coally stringers, 3" @ 656'. Abundant soft sediment deformation structures.
667	672					Sandstone. Medium grey. Abundant mudchip breccias and thin mudstone laminations. Bedding dip @ 28°. Abundant soft sediment deformational structures.
672	690					Interbedded siltstone and mudstone. Siltstone medium grey, mudstone dark brown.
690	693					Interbedded mudstone and sandstone. Mudstone dark brown. Sandstone medium grey. SS in part silty.
693	713					Sandstone. Salt and pepper. Clean sandstone. X-bedded. Bedding variable from 9° - 30°. Mudchip Breccia in SS. Matrix from 712' - 713'.
713	750					Interbedded siltstone and sandstone. Siltstone muddy, dark to medium brown grey. SS medium grey. Abundant soft sediment deformational structures, including scour and fill structures. Breccia from 717' - 727', with abundant slickensides.
750	751					Coal, primarily vitrain. Moderately hard coal.
751	754					Mudstone. Black, highly carbonaceous, with thin coally stringers.
754	760					Coal. Primarily vitrain. Very hard coal. Several thin mudstone partings scattered throughout the interval.

Core Size

Hole No. DDH 282 Page 5

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hansen Date: July/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

40 Scale

Color Plot & Dips | Ore Classes & Aver.

From	To	Discard: RAD.	LOG.			Reason:
		753	754			COAL 1'
		755	758			COAL 3'
760	761					Mudstone. Black, highly carbonaceous with coally stringers.
		761.5	763			COAL 1.5'
761	763					Coal. Curain with vitrain streaks. Hard coal.
763	765.5					Mudstone. Black, highly carbonaceous with coally stringers.
765.5	774					Interbedded sandstone and siltstone. SS medium to light grey, inpart salt and pepper. Siltstone medium to dark brown. Micro-X-bedding. Bedding @ 18° dip.
774	782					Mudstone. Dark brown to black. Slickensides @ 780'.
782	789					Interlaminated siltstone and mudstone. Dark brown mudstone. Medium brown grey siltstone. Abundant soft sediment deformational structures.
789	800					Mudstone. Dark brown to black. Essentially non-carbonaceous.
800	809					Interlaminated sandstone and siltstone. SS light to medium grey. Siltstone medium brown grey. Fine grained SS. Bedding dip @ 16°.
		807	815.5			COAL 7.5. UPPER BAND SEAM - R4.
809	816					Coal. Durain with vitrain streaks, predominately. Highly broken core, (soft coal???)
816	833					Interbedded sandstone and siltstone. SS medium grey, fine grained. Siltstone dark grey. Minor thin carbonaceous stringers throughout.
833	842					Mudstone. Black. Carbonaceous. Abundant plant fossils.
842	854					Interbedded SS and mudstone. Light to medium grey SS, fine grained. Dark brown to black mudstone. ~~Mudchip Breccia @ 846". Micro-X- bedding. Bedding dip @ 08° - 22°.~~
		852	871			COAL WITH 1.5' MUDSTONE AT 858.5'. 19(17.5)'. SEAM R4

Core Size

Hole No. DDH 282

Page 6

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hansen Date: July/78

Composites:

Block: | Sect.: | Place: | App. Bear: | App.: Dip.: | Length:

40 Scale | Color Plot & Dips | Ore Classes & Aver.

From	To	Discard: RAD.	LOG.			Reason:
854	861					Coal. Clarain. Soft coal, highly broken core.
861	866					Coal. Predominately durain and vitrain. Hard coal.
866	871					Coal. Primarily clarain. Moderately soft coal.
871	877					Mudchip Breccia. Dark brown grey mudstone chips in medium to light grey SS matrix. SS fine to medium grey.
877	939					Sandstone, medium to course grained. Salt and pepper. Clean SS. X-bedded. Bedding dip 11° - 30°.
939	940					Mudchip Breccia. Dark brown to black mudstone chips in light to medium grey SS matric
940	947					Mudstone with occasional siltstone laminations. Abundant soft sediment deformational structures.
947	954					Siltstone. Dark to medium brown. Abundant soft sediment deformational structures.
		953.5	958.5			COAL 5' SEAM - R2
954	959					Coal. Predominately clarain. Moderately hard coal. Small mudstone parting (2" thick) @ 955'.
959	961					Mudstone. Black.
961	978					Interlaminated sandstone and siltstone. SS medium grey. Siltstone dark to medium brown. Abundant soft sediment deformational structures. Bedding @ dip of 15°.
978	983.5	977.5	984			Coal. Predominately clarain. Moderately Hard coal. 6.5' SEAM - R1
983.5	994					Sandstone. Salt and pepper. Course grained, massive SS.
994	1052					Sandstone. Light to medium grey. Medium grained. Pyrite infilling and nodules. Rare. Breccia from ~~1005'-1008'. X-bedded throughout. Bedding dip~~ variable 09°-22°. Almost salt and pepper SS. TD - 1052'

Core Size

Hole No. DDH 282

Page 7

2507-

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
126	128'		26078			2		87.2			0		
147	149'		26077			2		44.0			4		
240	244	P.A. & S.FST →	26076			4'		13.5			4		
244	247		23875			3		62.9			1		
240	244		26076			4'	0.4	13.5	21.3	64.8	4	0.60	
252	254		23874			2		30.3			7		
267	272		23873			5'		26.3			2 1/2		
272	277	SEAM - R7.	23872			5'		7.3			2 1/2		
277	282		23871			5'		15.5			3 1/2		
282	287		23870			5		13.0			3 1/2		
287	292		23869			5		10.4			6 1/2		
292	296		23868			4		65.3			1		
267	292	SEAM R7 COMPO.				25'	0.5	14.3	20.7	64.5	4	0.45	Petrography.
357	363	P.A. & S.FST →	23867	ACTUAL BTU		6		16.0			3		
357	363		23867	12,522		6	0.4	15.9	20.6	63.1	3	0.37	
382	387		23866			5'		28.8			1 1/2		
387	397		23865			10'		23.3			3		
397	401		23864			4		16.8			2		
382	401	COMPO.				19'	0.3	23.6	18.8	57.3	2 1/2	0.66	
411	417		23863			6		16.7			1		
417	421		23862			4		9.4			2		
411	421	COMPO				10'	0.4	13.7	20.4	65.5	1	0.15	

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
426	428		23861			2		58·1			1/2		
436	440		23860			4		32·6			1		
440	445·5	✓	23859			5·5		22·6			1 1/2		
436	445·5	COMPO.				9·5	0·3	26·7	17·3	55·7	1 1/2	0·45	
460	462		23858			2		68·1			0		
462	466		23857			4		10·9			1 1/2		
466	473		23855			7		14·2			3 1/2		
473	475		26075			2		80·4			0		
475	479·5		26074			4·5		20·1			6		
462	479·5	✓COMPO.				17·5	0·2	22·7	19·2	57·9	3 1/2	0·44	
520	527		26073			2		29·6			3 1/2		
522	527		26072			5		15·7			4		
527	532		26071			5		11·4			2		
532	537		26070			5		11·2			2 1/2		
537	542		26069			5		14·0			4		
542	546		26068			4		9·1			5		
546	549		26067	B.T.U. ACTUAL		3		27·1			2 1/2		
520	549	SEAM – R5 COMPO.		13,087		29	0·5	14·9	20·1	64·5	3 1/2	0·38	Petrography.
552·5	555	P.A. & S FSI	26066			2·5		33·2			2		
552·5	555		26066			2·5	0·3	33·2	17·0	49·5	2	0·30	
575	577		26065			2		19·6			4 1/2		
596	602·5		26064			3·5		40·9			1		

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
750	752		26063			2		67.0			1		
752	757		26062			5		50.0			1 1/2		
757	762		26061			5		62.8			1		
762	765		26060			3		74.5			0		
809	816	SEAM - R4 U. BAND.	26059	ACTUAL	B.T.U	7		16.1			6		
809	816	P.A.P.S. FSI BTU.	26059	13,135		7	0.3	16.1	17.6	64.0	6	0.48	Petrography.
854	857.5		26058			3.5		9.7			6		
857.5	861	SEAM R4 COMPO.	26057			3.5		43.6			2		
861	866		26056			5		8.5			6		
866	871		26055	BTU ACTUAL		4,		35.2			3		
854	871			11,790		16	0.3	23.1	18.2	58.4	4 1/2	0.50	Petrography.
953.8	957	SEAM - R2	26054			3.2		23.2			7 1/2		
957	959		26053			2		25.5			7 1/2		
953.8	959	SEAM - R2 COMPO				5.2	0.3	24.0	18.2	57.5	7 1/2	0.56	
977.5	980	SEAM - R1.	26052			2.5		8.9			7		
980	983.5		26051	B.T.U. ACTUAL		3.5		13.4			7		
977.5	983.5	SEAM - R1 COMPO.		14,134		6	0.4	11.3	20.1	68.2	7	0.90	

Diamond Drill Geological Log

K. FORDING 78(3)B-4

DDH.-283?

Objective:

Sampled:

Logged By: MRS Date: October 30/78 Composites: DIRECTIONAL SURVEY DONE BY ROKE

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL N. HENRETTA CREEK		90°	1484'

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO

DIRECTIONAL SURVEY DONE ☑ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
0.0	8.0					Overburden/Tricone
8.0	43.5					MUDST/SLTST - Interbedded dark grey to brownish grey mudstones and light grey to tan coarse grained siltstones. Crossbedding is visible @ 30', 35' and 37'. A pseudonodule (?) is seen @ 35'. Minor calcite healed fractures crosscut bedding. Iron staining is abundant to about 16'. Bituminous partings common. Fractures @ 10.5' filled with mud to 2 cm. thick.
43.5	48.6	42	47.5	12.80	14.48	COAL MEASURES - Black, shiny coal; badly broken in places. COAL 5.5' 1.68m
48.6	53.0					SLTST/MUDST - Light grey to tan, coarse grained siltstones interbedded with narrow bands of black to brown mudstones. Minor crossbedding @ 52.5'. Fractures crosscut bedding.
53.0	57.0					SHALE - Black and brown shales with minor grey SLTST interbeds in places approx. 2mm thick. Mudclasts @ 54.0'. Minor calcite veinlets. Abundant bituminous partings.
57.0	84.0					SHALE/SLTST/SST - Interbedded dark grey, fine grained shales and light grey, coarse grained SLTST. SST interbeds @ 66.5'. This sections contains large angular mudclasts (?) and soft sediment deformation (Kink banding??). Bituminous partings and calcite veining abundant: calcite healing of gash fractures (?). Crossbedding visible 67-68'. Pseudonodules @ 73'.
84.0	94.0	87	92.5	26.52	28.19	COAL MEASURES - Black, shiny, broken. Poor recovery. Coal 5.5' 1.68m
94.0	98.5					SHALE - Black, thinly bedded shales with abundant bituminous partings. Minor calcite veining.
98.5	115.5	98	113	29.87	34.44	COAL MEASURES - Black, shiny, broken coal. Coal 15' 4.57m (Bottom 2' shaley coal)
115.5	117.0					COAL/SHALE - Coaly shale and shale is interbedded with shale.

Core Size HQ

Hole No. DDH. 283 Page 1 of 12

322

2507-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: October 31/78

Composites: DIRECTIONAL SURVEY DONE BY ROKE

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL N. HENRETTA CREEK		90°	1484'

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
117.0	127.0					SHALE/SLTST/SST - Interbedded black, thin-bedded shale and light grey SLTST and SST crosscut by a few calcite veins. Few bituminous partings. Plant fossils visible along some partings.
127.0	142.0					SLTST/SST - Light grey, fine to coarse grained siltstone with minor interbeds of fine grained sandstone becoming more abundant toward bottom of intersection. Pseudonodules seen @ 140.5'. Minor calcite veinlets. Few bituminous partings.
142.0	147.0					SST/SLTST - Medium to coarse grained SST is interbedded with thin bands of fine brownish grey siltstone. Crossbeds @144-145'.
147.0	158.0					SST - Coarse grained light grey and dark brownish grey cross-bedded sandstone. Minor calcite healing fractures.
158.0	159.0					SLTST/MUDST - Brownish grey coarse siltstone interbedded with narrow (1mm) bands of mudstone. Few mud clasts. Mud filled fractures.
159.0	161.0					SST - Coarse grained white and blue grey 'salt and pepper' textured SST with abundant plant fossils forming bituminous partings. Minor calcite healed fractures. Well sorted. Trace pyrite.
161.0	167.0					SLTST/MUDST/SST - Light grey brown, fine grained mudstone is interbedded with, and forms a few mud clasts in light grey coarse grained siltstone and light grey medium grained sandstone. Some bituminous partings. Minor calcite healed veins.
167.0	172.0					SST - Coarse grained, poorly sorted sandstone; salt and pepper texture with white, blue-grey and black grains as well as some iron stained grains and trace pyrite. Minor calcite cement. Bituminous partings.

Core Size HQ

Hole No. DDH. 283

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

2507-

Diamond Drill Geological Log

Fording Coal Limited

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: November 1/78

Composites: DIRECTIONAL SURVEY DONE BY ROKE

Block:	Sect.:	Place: TURNBULL N. - HENRETTA CREEK	App. Bear:	App.: Dip.: 90°	Length: 1484'

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
172.0	182.0					SST - Very coarse grained sandstone with a few finer grained interbeds. Grains range up to about 4 millimeters in diameter. The color, texture and sorting are the same as above, but there is more calcite cement, and up to 5% pyrite in places. Bituminous partings. Iron stain is abundant 177-180'.
182.0	197.5					SHALE - Black and dark brownish grey, thinly bedded shales with a 3" interbed of cross-bedded, very fine grained sandstone. Bituminous partings common. Minor calcite veining.
197.5	198.5					COAL/SHALE - Black shiny coal with thin interbeds of black shale.
198.5	203.0					MUDST/SLTST - Interbedded grey brown mudstone and grey to light grey, medium to coarse grained siltstone. Crossbeds at 202'. Large nodule of pyrite app. 2" in diameter @ 199'. Some calcite healed fractures and bituminous partings.
203.0	204.0					SHALE/coAL - Broken core comprised of black shale and black shiny coal intermixed.
204.0	207.5					BITUMINOUS SHALE/COAL - Black shales with abundant black, shiny bituminous partings. A 6" coal unit is present at approximately 206'. Badly broken 206.5-207.5'.
207.5	216.5					SHALE/MUDST - Black, thinly bedded black shales with thin interbeds of light brown, fine grained mudstones. Coalified plant fossils along partings.
216.5	219.0					SLTST/SST - Brownish grey, medium grained siltstone and light grey to white, very fine grained sandstone. Wispy bedding. Calcite healed fractures common.
219.0	221.0					SHALE/SLTST - Interbedded black shales with light grey brown siltstone. Bituminous partings. Minor calcite veining.
221.0	245.0					SHALE/MUDST - Black, thinly bedded shales inter-bedded with light grey brown mudstones. Bituminous partings. Minor calcite.

Core Size HQ

Hole No. DDH. 283 Page 3 of 12

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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2507-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: November 2/78 Composites: DIRECTIONAL SURVEY DONE BY ROKE

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL N. - HENRETTA CREEK		90°	1484'

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
245.0	252.0					SHALE/SLTST/SST/MUDST - Interbedded black thinly bedded shales, light brown fine grained mudstones, grey brown siltstones, and thin bands of light brownish grey sandstone. Sandstone interbeds are wispy. Calcite healed fractures. Few bituminous partings.
252.0	257.0					SANDSTONE - Grey brown, wispy, cross-bedded, fine grained sandstone, well-sorted. Some calcite veining and bituminous partings.
257.0	268.0					SHALE/SLTST/MUDST/SST - Interbedded brown, fine grained mudstones, black thinly bedded shales, grey brown siltstones and light grey fine grained sandstone. Bituminous partings. Minor calcite healing.
268.0	290.5					SHALE/MUDSTONE - Interbedded light brown, fine grained mudstones and black, thinly bedded shales. Bituminous partings. Pyrite veining and vag filling at 274.5' and 276'. Poor recovery. Broken core 284-287'. Mudclasts in shales at 276'.
290.5	293.5					SILTSTONE/SANDSTONE - Interbedded blue grey to grey, medium to coarse grained siltstone and light grey fine grained sandstone.Some cross-bedding and wispy bedding. Few calcite filled fractures. Bituminous partings.
293.5	311.0					SHALE/MUDSTONE - Black, thinly bedded shales interbedded with light brownish grey fine grained mudstones. Bituminous partings abundant. Few calcite veins, in part with limonite stain.
311.0	318.0					SILTSTONE/SANDSTONE/SHALE - Light grey, medium to coarse grained sandstone, with grey medium grained siltstone and brown to black, fine grained shales. Cross-bedding in sandstone at 312'. Bituminous partings. Calcite filled fractures.

Core Size HQ

Hole No. DDH. 283 Page 4 of 12

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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2507-

Diamond Drill Geological Log

Fording Coal Limited

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: Nov. 3/79

Composites: DIRECTIONAL SURVEY DONE BY ROKE

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL N. HENRETTA CK.		90°	1484'

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
						COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO DIRECTIONAL SURVEY DONE ☐ YES ☐ NO
318.0	334.0					SHALE/MUDSTONE - Thinly bedded black shales with minor interbedded fine grained black mudstones. Bituminous partings.
334.0	351.0					SILTSTONE/SANDSTONE/SHALE - Interbedded light grey, fine grained sandstone, grey, fine to medium grained siltstone and thin bands of black, shales. Sandstones are cross-bedded. Minor calcite filled fractures. Clean partings.
351.0	393.0					SANDSTONE - Light grey and grey, medium to coarse grained sandstone with abundant cross-bedding, clean partings. Minor calcite filled fractures. Abundant bituminous partings at 362-363'. At 393.0' sandstone contains mud clasts from underlying muddy unit.
393.0	402.0					MUDSTONE/SHALE/SLTST - Interbedded grey brown, fine grained mudstones with black to brownish grey shales and a narrow interbed of light grey, medium grained siltstone. Bituminous partings. Minor calcite stringers.
402.0	406.0					SANDSTONE/SILTSTONE/SHALE - Light grey, medium grained, cross-bedded, wispy sandstone is interbedded with grey brown, medium grained siltstone and black shales. Bituminous partings.
406.0	407.2					SHALE - Black thinly bedded shales with abundant bituminous partings.
407.2	413.0	407	411	124.1	125.3	COAL MEASURES - Black, shiny hard coal. Poor recovery. About 50% core loss. Coal 4'. 1.22m SEAM - R7u
413.0	418.0					SHALE/SILTSTONE/- Minor light grey, fine to medium grained siltstone is interbedded with black thinly bedded shales. Abundant bituminous partings. Minor calcite veining in part iron stained.
418.0	472.0					SANDSTONE/SILTSTONE/SHALE - Light grey, fine to medium grained, cross-bedded and wispy sandstone is interbedded with grey to brownish grey, coarse grained siltstone and light brown to black, thinly bedded shales. Bituminous partings present to 426.0'. Calcite veins fairly common.

Core Size HQ

Hole No. DDH. 283

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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2507-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: Nov. 6/78

Composites: DIRECTIONAL SURVEY BY ROKE

Block:	Sect.:	Place: TURNBULL N. HENRETTA CK.	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO DIRECTIONAL SURVEY DONE ☐ YES ☐ NO
472.0	477.0					SHALE/MUDSTONE - Interbedded dark grey to black shales and grey brown, fine grained mudstone. Bituminous partings.
477.0	478.0					SANDSTONE/SILTSTONE/SHALE - Light creamy white, medium grained, wispy sandstone interbedded with grey brown, fine grained siltstones and black shales. Bituminous partings.
478.0	479.0					SHALE - Black, fine grained, thinly bedded shales.
479.0	494.5	478.5	494.5	145.85	150.72	COAL MEASURES - Black, shiny, hard coal; badly broken in places. Coal 16' 4.88m SEAM R7
494.5	498.0					SHALE/COAL - Interbedded black shales and black shiny coal.
498.0	506.0					SHALE - Black, thinly bedded shales with abundant bituminous partings.
506.0	522.0					SHALE/SILTSTONE - Interbedded black shales with thin bands of grey to grey-brown, fine grained siltstone. Bituminous partings common. Minor calcite veining.
522.0	533.0	521.0	534.0	158.80	162.76	COAL MEASURES - Black, shiny coal; badly broken in places. COAL 13' 3.96m SEAM-R5
533.0	536.0					SHALE/COAL MEASURES - Black to brown shales interbedded with 2 inch coal units.
536.0	551.5					SHALE - Black and brown, thinly bedded shales with abundant bituminous partings. Minor calcite filling fractures.
551.5	585.5					SHALE/SILTSTONE/SANDSTONE - Black, thinly bedded shales are interbedded with tan, coarse grained siltstone and light grey to brownish grey, medium grained sandstone. Bituminous partings are common. Minor calcite veining. Sandstone interbeds are cross-bedded in places. A few shaley clasts are seen at 578' and 583'.
585.5	598.5					SHALE/MUDSTONE - Black, thinly bedded shales are interbedded with brown, fine grained mudstones. Bituminous partings common.
598.5	604.0					SHALE/SILTSTONE - Thinly bedded, black shales form thin interbeds (to 1 cm. thick) with light grey brown, medium grained siltstone. Bituminous partings.

Core Size HQ

Hole No. DDH. 283 Page 6 of 12

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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2507-

Diamond Drill Geological Log

Fording Coal Limited

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: Nov. 17/78 Composites: DIRECTIONAL SURVEY BY ROKE

Block:	Sect.:	Place: TURNBULL N. HENRETTA CK.	App. Bear:	App.: Dip.:	Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
604.0	611.5					SANDSTONE - Brownish grey, medium to coarse grained sandstone, some apparently massive and some bedded, with individual beds 1-4mm. Abundant bituminous partings, some also containing blebs and disseminations of pyrite. Calcite veining common filling gash fractures. The majority of these are at 0° to bedding. Some are irregular. No cross-bedding noted.
611.5	613.0					SHALE/SILTSTONE - Black, thinly bedded shales interbedded with light brownish grey, fine grained siltstone. Bituminous partings are abundant.
613.0	632.0					SHALE - Thinly bedded black shales with abundant bituminous partings. Minor calcite veinings.
632.0	632.5					COAL MEASURES - Black, shiny coal - hard.
632.5	633.0					SHALE - Thinly bedded, bituminous, black shale.
633.0	634.0					COAL MEASURES - Badly broken, black, shiny coal.
634.0	637.0					SHALE - Thinly bedded, black shales with abundant bituminous partings. Minor calcite veining.
637.0	639.0					SHALE/MUDSTONE - Thinly bedded, black shales have interbeds of brown, fine grained mudstone. Bituminous partings common. Few calcite veins.
639.0	682.0					SHALE/SILTSTONE/SANDSTONE - Predominantly black shales with interbedded grey brown, medium grained siltstones and light grey, fine to medium grained sandstone, cross-bedded in places. Bituminous partings are common, calcite veining is abundant at 639-640', 657-658.5', 660-662', and 666.5-667'. There is some gash fracture filling.

Core Size HQ

Hole No. DDH. 283 Page 7 of 12

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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2567-

Diamond Drill Geological Log

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: Nov. 17/78

Composites: DIRECTIONAL SURVEY BY ROKE

Block:	Sect.:	Place: TURNBULL N. HENRETTA CK.	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
682.0	692.0					SILTSTONE - Medium to coarse grained, buff to greyish brown siltstone with a few bituminous partings.
692.0	695.0					SHALE - Thinly bedded black shales. Bituminous partings.
695.0	707.5					SILTSTONE/SANDSTONE - Interbedded cream fine to medium grained, cross-bedded sandstone and buff to greyish brown, medium to coarse grained siltstone. Interbeds vary in thickness from a few millimeters to about 20 cm. Fractures are clean.
707.5	714.0					SHALE/SILTSTONE - Black, fine grained, thinly bedded shales are interbedded with brown-grey, medium grained siltstones. Interbeds vary in thickness from a few millimeters to several centimeters. Fractures clean.
714.0	731.0					SHALE/SILTSTONE/SANDSTONE/MUDSTONE - Black, fine grained, thinly bedded shales are interbedded with medium grained dark grey siltstone and brown, very fine grained mud-stone, and some light grey to blue,grained medium grained sandstone. Iron stain is present in the sandstone. There is some cross-bedding. Interbeds vary in thickness. Fractures clean. Quartz vein at 718' at 60° to core axis.
731.0	753.5					SANDSTONE - Cream to brownish grey, coarse grained sandstone with abundant bituminous partings. Well-sorted, uniform. Some iron stain.
753.5	760.5					SANDSTONE/SHALE/SILTSTONE - Interbedded light grey, fine grained sandstone, grey, fine to medium grained siltstone, and dark grey shales. Shaley clasts occur in the sandstone. Minor faults and slumping are present. Minor calcite filled veinlets. Sandstone is is wispy.
760.5	769.5					SHALE/COAL MEASURES - Black, thinly bedded shales interbedded with thin units (to 4") of black, shiny coal, badly broken. Numerous bituminous partings in the shales.

Core Size HQ

Hole No. DDH. 283

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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2507-

Diamond Drill Geological Log

fording COALUMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: Nov. 23/78

Composites: DIRECTIONAL SURVEY BY ROKE

Block:	Sect.:	Place: TURNBULL N. HENRETTA CK.	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
769.5	771.0					SHALE - Black, thinly bedded shales with abundant bituminous partings. Minor interbeds (about 1mm) of grey siltstone at 770.5'. Core is broken 773-775', 775.5-776.5', 777-779'. With very abundant bituminous partings.
771.0	787.0					SHALE/siltstone - Black, thinly bedded shales are interbedded with light brown to grey, medium grained, siltstone. Bituminous partings, common. A few calcite healed fractures.
787.0	801.0					SHALE/SILTSTONE/SANDSTONE - Thinly bedded black shales interbedded with light brown to grey, medium to coarse grained siltstone and light grey, fine to medium grained sandstone. Sandstone has wispy bedding and load casting is present at 791.5'. Calcite filled fractures are common. Some partings are clean and some are bituminous.
801.0	805.0					SHALE/SILTSTONE - Interbedded dark grey shales and light grey brown, fine grained siltstone. 802-805' has interbeds a few millimeters thick. There is some calcite veining and a few bituminous partings.
805.0	806.0					SANDSTONE/SILTSTONE/SHALE - Light grey to cream, fine grained sandstone is interbedded with light grey brown, fine grained siltstone and dark grey shales. Sandstone beds are wispy. Bituminous partings common. Abundant calcite veining.
806.0	809.5					SHALE - Black, fine grained, thinly bedded shales with abundant bituminous partings.
809.5	812.0					SHALE/SILTSTONE/SANDSTONE - Black, thinly bedded shales interbedded with light grey-brown, fine grained siltstone and light grey, fine to medium grained sandstone. Some calcite veins cross-cutting bedding. Few bituminous partings.
812.0	817.5					SHALE - Black, thinly bedded, fine grained shales with abundant bituminous partings.
817.5	819.5					COAL/SILTSTONE - Abundant black, shiny coal with minor interbeds of poorly sorted, black fine to medium grained siltstone. Badly broken in places.

Core Size HQ

Hole No. DDH. 283

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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2507-

Diamond Drill Geological Log

Fording Coal Limited

FORDING RIVER OPERATIONS

40 Scale

Color Plot & Dips | Ore Classes & Aver.

Objective:

Sampled:

Logged By: MRS Date: Nov. 23/78

Composites: DIRECTIONAL SURVEY BY ROKE

Block	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL N. HENRETTA CK.			

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO

DIRECTIONAL SURVEY DONE ☐YES ☐NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
819.5	828.5	818.0	828.5	249.33	252.53	COAL MEASURES - Black, shiny coal, badly broken in places. Coal 10.5' 3.2m SEAM-R4 Band
828.5	829.5					SHALE - Black, fine grained, thinly bedded shale with abundant bituminous partings.
829.5	842.5					SANDSTONE/SILTSTONE - Light grey, medium grained, wispy sandstone is interbedded with grey to grey brown, medium to coarse grained siltstone. Few calcite veinlets parallel to and cross-cutting bedding. Cross-bedding at 838' indicates tops up. Abundant bituminous partings.
842.5	844.0					SHALE - Black, fine grained, thinly bedded shale. Abundant bituminous partings. Few calcite veins parallel to and cross-cutting bedding.
844.0	848.0					SHALE/SILTSTONE - Black, fine grained, thinly bedded shales interbedded with light grey to greyish brown, fine to medium grained siltstone. Bituminous partings common. Minor calcite veinlets cross-cut bedding.
848.0	864.0					SHALE/MUDSTONE/SILTSTONE/SANDSTONE - Black, fine grained shales and mudstone are interbedded with grey brown, fine to medium grained siltstone and light grey to cream, medium grained, wispy sandstone. Some cross-bedding. Calcite filled fractures, common. Abundant bituminous partings; faulting gives a 3" displacement.
864.0	866.0					SHALE/COAL - Black shales with interbedded thin coal units. Coal is black and shiny.
866.0	870.0	866.0	878.0	263.96	267.61	COAL - Black shiny coal, crumbled in places. Coal with 2' shale 871-873'. 12(10)' 3.66(3.05)m SEAM - R4 Band
870.0	871.0					COAL/MUDSTONE - Interbedded and intermixed mudstone and coal.
871.0	877.0					COAL - Black, shiny coal interbedded in places.
877.0	884.0					SHALE/MUDSTONE - Black, fine grained shales and mudstones with abundant bituminous partings with a 2" coal seam @ 883.5'.

Core Size HQ.

Hole No. DDH. 283

2507-

Diamond Drill Geological Log

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: Nov. 27/78

Composites: DIRECTIONAL SURVEY BY ROKE

Block:	Sect.:	Place: TURNBULL N. HENRETTA CK.	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
884.0	896.5					MUDSTONE/SILTSTONE/SANDSTONE - Black, fine grained mudstone interbedded with grey-brown fine grained siltstone and light grey fine to medium grained sandstone. Abundant bituminous partings. Calcite partings and fracture fillings fairly common.
896.5	930.5					SANDSTONE - Coarse grained, light grey and grey interbedded sandstone. Bituminous partings and inclusions common from 918'-929'. One black siltstone clast at 916' is pea-pod shaped and approximately 2" x 1/4". Mudclasts are common at 922' and 896-898'. Mudclasts are grey brown of irregular shapes and varying sizes. One large mudclast about 3" x 4" contains aligned vesicles possible indicating leaching after some fossil?? Minor calcite filling fractures at 898-899'. Trace pyrite along fracture plane at 902'.
930.5	946.0					SANDSTONE/SILTSTONE/MUDSTONE - Light grey, fine to medium grained sandstone interbedded with light grey, medium grained, siltstone and dark grey to grey brown, fine grained mudstone.
946.0	950.0	945.0	949.0	288.04	289.26	COAL - Black, shiny coal, badly broken in part. Coal 4' 1.22m SEAM-R2
950.0	951.5					MUDSTONE - Black, fine grained mudstone.
951.5	967.0					SANDSTONE/SILTSTONE - Light grey to cream, medium grained sandstone interbedded with grey brown, fine grained siltstone. Some wispy bedding. No cross-bedding visible.
967.0	971.0					MUDSTONE/SANDSTONE - Wispy, interbedded, black, fine grained mudstone and light grey to cream fine grained sandstone. There is some load casting and flame structures. Bituminous partings.
971.0	971.5					MUDSTONE - Black, fine grained mudstone. Bituminous partings.
971.5	976.0					SANDSTONE - Light grey, mostly massive medium grained sandstone. Some wispy bedding in places. Abundant calcite veining.

Core Size HQ

Hole No. DDH. 283

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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Diamond Drill Geological Log

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: Dec. 4/78 Composites: DIRECTIONAL SURVEY BY ROKE

Block:	Sect.:	Place: TURNBULL N. HENRETTA CK.	App. Bear:	App.: Dip.:	Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO
DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE in Ft. From	CORE in Ft. To	RAD. LOG in Ft. From	RAD. LOG in Ft. To	in meters From	in meters To	
976.0	977.5					MUDSTONE - Black, fine grained mudstone with abundant bituminous partings.
977.5	981.0	976.0	981.0	297.48	299.00	COAL - Black, shiny coal, badly broken. COAL 5' 1.52m SEAM-R1
981.0	987.5					MUDSTONE/SILTSTONE - Black, fine grained mudstone with minor light grey medium grained siltstone. Bituminous partings common. Minor calcite veining.
987.5	989.0					SANDSTONE/SILTSTONE/MUDSTONE - Light grey to cream medium grained bedded sandstone is interbedded with dark brown grey, medium grained siltstone and black, fine grained mudstone. Bituminous partings common. Minor calcite veining.
989.0	996.0					SANDSTONE - Light grey to cream, medium grained sandstone, bedded with beds from 1 mm to 1 cm. Bituminous partings common. Plant fossils visible along partings @ 995.5'. No cross-bedding visible. Mineral calcite veining. Well-sorted.
996.0	997.0					MUDSTONE/SILTSTONE - Interbedded black, fine grained mudstone and dark grey, coarse grained siltstone. Bituminous partings.
997.0	998.0					SANDSTONE/MUDSTONE - Light grey to cream, medium grained sandstone is interbedded with fine grained black mudstone.
998.0	1216.0					SANDSTONE - Light grey to cream, medium grained sandstone. Bituminous partings common. Some calcite veining. No cross-bedding visible. Some partings are clean. 3" mudstone unit @ 1018'. Well sorted sandstone.
1216	1484				391.36	Some siltstone near top and Fernie Shale Formation.
						END OF HOLE - OCTOBER 6, 1978

Core Size HQ

Hole No. DDH83 Page 12 of 12

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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2507-

Diamond Drill Geological Log

Cominco

DDH - 1120

K- FORDING 78L3/B.4

Objective:

Sampled:

Logged By: KEN HANSEN   Date: JUNE 21, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

Discard:

Reason: GAMMA RAY – NEUTRON LOG & DIRECTIONAL SURVEY

Color Plot & Dips | Ore Classes & Aver.

RAD. LOG.

From	To	Description
13	40	INTERBEDDED SILTSTONE & MUDSTONE. SILTSTONE DARK GREY TO MEDIUM GREY, IN PART SANDY, INTERLAMINATED (FINELY) WITH MUDSTONE. MUDSTONE BLACK. ABUNDANT SOFT SEDIMENTARY DEFORMATION STRUCTURES. HIGHLY OXIDIZED. SLKS @ 31' BEDDING DIPPING @ 14° (VARIABLE SOMEWHAT).
40	44	MUDSTONE BLACK. OXIDIZED.
44	61	INTERLAMINATED SILTSTONE & MUDSTONE. MEDIUM GREY SILTSTONE, INPART SANDY, BLACK MUDSTONE. OXIDIZED. SOFT SEDIMENT DEFORMATIONAL STRUCTURES. BEDDING DIPPING @ 12°.
61	72	MUDSTONE BLACK INPART CARBONACEOUS. SILTSTONE INTERLAMINATIONS IN SOME AREAS. OXIDIZED.
72	75	COAL ?? MISSING CORE WITH COAL FRAGEMENTS. PRIMARILY CLARAIN IN FRAGMENTS.
75	77	MUDSTONE BLACK WITH SILTSTONE INTERLAMINATIONS. NON OXIDIZED.
77	79	SILTSTONE BRECCIA. CALCITE INFILLING BETWEEN SILTSTONE FRAGMENTS. NON OXIDIZED.
79	80.5	MUDSTONE BLACK CARBONACEOUS. WELL BROKEN UP.
80.5	96.5	COAL PRIMARILY CLARAIN WITH VITRAIN AND DURAIN STREAKS. COAL HARDNESS VARIABLE FROM HARD TO MODERATELY SOFT.
96.5	116	INTERLAMINATED SILTSTONE AND MUDSTONE. SILTSTONE MEDIUM GREY, IN PART SANDY. MUDSTONE DARK BROWN TO BLACK. ABUNDANT SOFT SEDIMENT DEFORMATIONAL STRUCTURES, INCLUDING THIN MUDCHIP BRECCIAS. NON OXIDIZED. MINOR COAL BLEBS ALSO PRESENT. BEDDING VARIABLE FROM 11° – 20°.
116	130	MUDSTONE, BLACK TO DARK BROWN GREY. CARBONACEOUS WITH SMALL COAL STRINGERS AND SEVERAL LARGER STRINGERS (UP TO 6 THICK) BEDDING DIPPING @ 18° SLKS @ 123'.
130	131.5	SILTSTONE WITH MUDSTONE INTERLAMINATIONS. SILTSTONE MEDIUM GREY, MUDSTONE DARK BROWN. QUITE FINELY INTERLAMINATED
131.5	137.5	INTERLAMINATED SILTSTONE AND MUDSTONE. SILTSTONE MEDIUM GREY, MUDSTONE DARK BROWN TO BLACK. SLKS @ 137'. ABUNDANT SOFT SEDIMENT DEFORMATIONAL STRUCTURES. BEDDING DIPPING @ 18°.
137.5	143	MUDSTONE. BLACK CARBONACEOUS WITH COAL STRINGERS. 6" COAL STRINGER @ 139'.
143	147	COAL. DIRTY (MUDSTONE INTERLAMINATIONS) PREDOMINATELY VITRAIN – SOME CORE MISSING. QUITE HARD COAL.

71–72' COAL 1'

78–92' COAL 14
1.5' SHALE 92–93.5'
93.5'–94.5' COAL 1'
SEAM – II

142.5–146.5' COAL
3' SEAM – Hm 1

Core Size

Hole No. DDH 1120   Page 1 of 8

322

2507–

Diamond Drill Geological Log

Cominco

Objective:			Sampled:			
Logged By: KEN HANSEN	Date: JUNE 21, 1978		Composites:			
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:	

From	To	Discard: Reason:
147	151	MUDSTONE. BLACK TO DARK BROWN. INPART CARBONACEOUS.
151	224	INTERLAMINATED SILTSTONE AND MUDSTONE. SOFT SEDIMENT DEFORMATIONAL STRUCTURES. BEDDING VARIABLE (22^{o}-14^{o})
		SILTSTONE MEDIUM TO DARK GREY. MUDSTONE BLACK. SILTSTONE INPART SANDY. SMALL PYRITE DEVELOPMENT @ 156'.
224	243	MUDSTONE, BLACK. BRECCIATED FROM 229'-232' - CORE IS FRACTURED THROUGHOUT. BEDDING @ 25^{o} DIP.
243	254	INTERBEDDED SILTSTONE - MUDSTONE. SILTSTONE MEDIUM GREY, INPART SANDY. MUDSTONE BLACK, INPART CARBONACEOUS.
		ABUNDANT SOFT SEDIMENT DEFORMATIONAL STRUCTURES.
254	260	MUDSTONE, DARK BROWN GREY TO BLACK.
260	262	SANDSTONE, LIGHT GREY FINE GRAINED. SILTY INTERLAMINATIONS. BEDDING DIPPING @ 11^{o}.
262	262.2	MUDSTONE, BLACK CARBONACEOUS.
262.2	263	COAL, PREDOMINATELY VITRAIN. HIGHLY BROKEN AND SOFT COAL.
263	269	COAL, INPART COAL MISSING. PREDOMINATELY CLARAIN WITH DURAIN AND VITRAIN STREAKS.
269	270.5	MUDSTONE, BLACK CARBONECEOUS WITH MINOR COALLY STREAKS.
270.5	286	COAL, MAINLY CLARAIN AND VITRAIN. MODERATELY HARD COAL.
286	288	MUDSTONE, BLACK CARBONACEOUS. PART OF CORE MISSING. SOFT COAL.
288	289.5	COAL, DURAIN PREDOMINATELY. PART OF CORE MISSING. SOFT COAL.
289.5	291	MUDSTONE, BLACK CARBONACEOUS.
291	295	COAL. PREDOMINATELY CLARAIN AND VITRAIN. PART OF COAL MISSING.
295	298	MUDSTONE, BLACK TO DARK GREY BROWN. CARBONACEOUS WITH COALLY STREAKS THROUGHOUT ($\frac{1}{2}$" THICK).
298	299	COAL, CLARAIN. SOFT AND HIGHLY BROKEN. PARK OF CORE MISSING.

40 Scale

Color Plot & Dips | Ore Classes & Aver.

RAD. | LOG

262-285' COAL WITH 1' SHALE @ 268' 23(21)' SEAM-H

292-296' COAL 4'

Core Size

Hole No. DDH 1120

2507-

Diamond Drill Geological Log

Cominco

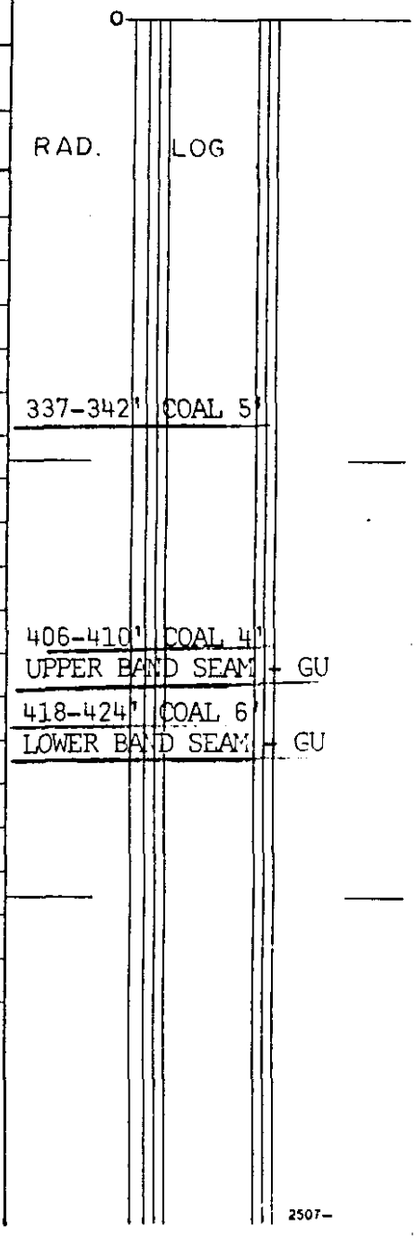
Objective:				Sampled:		
Logged By: KEN HANSEN	Date: JUNE 26, 1978			Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:	

From	To	Discard: Reason:
299	314	MUDSTONE, DARK GREY BROWN TO BLACK. CARBONACEOUS INPART. SMALL COAL BANDS (UP TO 3" THICK). BEDDING DIPPING @ 16°. SLKS @ 306'.
314	327	INTERBEDDED SILTSTONE AND MUDSTONE. SILTSTONE MEDIUM TO DARK GREY. MUDSTONE DARK GREY BROWN TO BLACK. MUDSTONE OFTEN SLICKENSIDED (@ 318' - 319', 322' and 326'). BEDDING VARIABLE 45° - 10° DIP.
327	332	INTERLAMINATED SILTSTONE AND MUDSTONE JOINTED WITH CALCITE INFILLING. BEDDING @ 13° DIP.
332	338.5	MUDSTONE DARK BROWN GREY. INPART HIGHLY BROKEN CORE. MINOR COALLY STREAKS MAINLY ABOVE COAL.
338.5	343	COAL, DURAIN WITH VITRAIN STREAKS. SOFT COAL.
343	407	INTERBEDDED SILTSTONE AND MUDSTONE. SILTSTONE MEDIUM GREY, MUDSTONE BLACK TO DARK GREY BROWN AND CARBONACEOUS. ABUNDANT SOFT SEDIMENT DEFORMATIONAL STRUCTURES. HIGHER BRECCIATED FROM 355'-364' WITH CALCITE INFILLING. BEDDING VARIABLE DIPPING FROM 25° - 17°.
407	411	COAL, DURAIN WITH VITRAIN STREAKS. QUITE DIRTY FROM 409'-410'. MODERATELY HARD TO HARD COAL.
411	420	MUDSTONE, DARK GREY BROWN TO BLACK. SILTY FROM 415'-416'. BEDDING DIPPING @ 11°.
420	424	COAL, CLARAIN AND VITRAIN PREDOMINATELY. MODERATELY SOFT COAL FOR THE MOST PART.
424	424.6	MUDSTONE, BLACK CARBONACEOUS.
424.6	426	COAL, PREDOMINATELY VITRAIN. MODERATELY HARD COAL.
426	437	INTERLAMINATED MUDSTONE AND COAL. MUDSTONE BLACK AND CARBONACEOUS. COAL MAINLY VITRAIN.
437	438	MUDSTONE, BLACK. CARBONACEOUS WITH THIN COAL STRINGERS. BEDDING DIPPING @ 16°.
438	438.8	COAL, PREDOMINATELY CLARAIN. SOFT COAL.
438.8	439.4	MUDSTONE, BLACK, CARBONACEOUS, WITH MINOR COAL STRINGERS.
439.4	440	COAL, CLARAIN. SOFT COAL.
440	441	MUDSTONE, BLACK, CARBONACEOUS.
441	445	SILTSTONE, LIGHT TO MEDIUM GREY. BEDDING DIPPING @ 26°. MUDSTONE INTERLAMINATIONS.
445	446	COAL. CLARAIN. DIRTY COAL WITH MUDSTONE INTERLAMINATIONS.

Core Size

40 Scale

Color Plot & Dips | Ore Classes & Aver.



2507-

Diamond Drill Geological Log

Comineo

Objective:				Sampled:		
Logged By: KEN HANSEN	Date: JUNE 26, 1978			Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:	

From	To	Discard: Reason:
446	457	MUDSTONE, DARK BROWN GREY TO BLACK. SLKS @ 455' and 452'.
457	458	COAL, PREDOMINATELY VITRAIN, MODERATELY HARD COAL.
458	466	SANDSTONE. DARK TO MEDIUM GREY. FINE GRAINED. BEDS DIPPING @ 38° SILTY INTERLAMINATIONS.
466	470	MUDSTONE, BLACK. CARBONACEOUS.
470	472	INTERLAMINATED SILTSTONE AND MUDSTONE. MUDSTONE DARK GREY BROWN, SILTSTONE MEDIUM GREY. FINE TO MEDIUM THICK
		INTERLAMINACEOUS (1/2" THICK) BEDS DIPPING @ 37°.
472	474.6	MUDSTONE, HIGHLY CARBONACEOUS AND BLACK. PART OF CORE MISSING.
474.6	478	COAL, CLARAIN WITH VITRAIN STREAKS. HARD COAL.
478	480	MUDSTONE, DARK GREY. BRECCIATED FROM 478.5'-480'.
480	481.5	COAL, CLARAIN AND VITRAIN. SOFT COAL.
481.5	493	MUDSTONE, BLACK TO DARK GREY BROWN. SLKS FREQUENT THROUGHOUT @ 482', 486', 487', 488', 'CLEAN' MUDSTONE. NO
		CLEAR BEDDING PLANES. COAL STREAKS FOUND THROUGHOUT (GENERALLY 1" THICK).
493	507	BRECCIA. MUDSTONE HIGHLY BRECCIATED WITH NUMEROUS SLK. ON FRAGMENTS.
507	561	MUDSTONE, BLACK TO DARK GREY BROWN. SEVERAL SLK. SURFACES BUT NOT AS NUMEROUS AS ABOVE @ 520', 527', 540', 552',
		559' INPART CARBONACEOUS.
561	576	INTERBEDDED SILTSTONE AND MUDSTONE. SILTSTONE MEDIUM GREY, MUDSTONE DARK GREY TO BLACK. SMALL COAL STRINGER
		BUT RARE. BEDDING DIPPING @ 0°. ALMOST HORIZONTAL SILTSTONE INPART SANDY. FEW SOFT SEDIMENT DEFORMATIONAL
		STRUCTURES.
576	604	SILTSTONE WITH MINOR INTERLAMINATIONS OF MUDSTONE. INPART SANDY LIGHT TO MEDIUM AND EVEN DARK GREY IN COLOR.
		SOFT SEDIMENT DEFORMATIONAL STRUCTURES ABUNDANT. MINOR BRECCIATION AND CALCITE
		INFILLING FROM 589-590'. BEDDING VARIABLE FROM 0° - 11° DIP.
604	645	SANDSTONE. SALT AND PEPPER TO MEDIUM GREY. FINE TO MEDIUM GRAINED. RARE COAL
		BLEBS. FINE MUDSTONE INTERLAMINACEOUS IN SOME PARTS. SLKS. @ 607'. BEDDING
		@ 12° DIP. MUDCHIP BRECCIA @ 611: BRECCIATED FROM 640'-643' WITH NUMEROUS
		SLKS. OF FRAGMENTS.

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

RAD. | LOG

472-478 COAL 6'

SEAM GL

Core Size

Hole No. DOH 1120 Page 4 of 8

2507-

Diamond Drill Geological Log

Cominco

Objective:			Sampled:			
Logged By: KEN HANSEN	Date: June 27, 1978		Composites:			
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:	

From	To	Discard: Reason:
645	660	MUDSTONE, DARK BROWN GREY. IMPART CARBONACEOUS. SLKS. @ 660' & @ 649'. POSSIBLE COAL BANDS FROM 651-653, BUT
		MISSING CORE. HARD TO TELL. HIGHLY BROKEN CORE.
660	662	SILTSTONE. MEDIUM TO DARK GREY.
662	669	MUDSTONE. DARK GREY BROWN TO BLACK. BEDDING DIPPING @ 24°.
669	673	COAL. VITRAIN @ TOP WITH MORE CLARAIN TOWARDS BOTTOM. MODERATELY SOFT COAL FOR MOST PART.
673	685	MUDSTONE, DARK GREY TO BLACK. HIGHLY BROKEN CORE FROM 673' to 675' WITH MINOR SLKS.
685	734	INTERBEDDED SILTSTONE AND MUDSTONE. BECOMING MORE SILTY TOWARDS BASE. MEDIUM GREY SILTSTONE. DARK GREY TO
		BLACK MUDSTONE. ABUNDANT SOFT SEDIMENT DEFORMATIONAL FEATURES, INCLUDING BIOTURBATED SEDIMENTS (BURROWING ETC.)
		BEDDING VARIABLE 15° DIP. PYRITE MODULE (3" DIAMETER) @ 726'.
734	748	MUDSTONE, BLACK. MINOR SILTSTONE INTERBEDS. VERY CARBONACEOUS JUST ABOVE COAL.
748	749	COAL, PRIMARILY VITRAIN. MODERATELY HARD COAL.
749	750.5	MUDSTONE, BLACK, HIGHLY CARBONACEOUS WITH SMALL COAL STRINGERS.
750.5	752	COAL, PRIMARILY CLARAIN. SOFT COAL HIGHLY BROKEN CORE.
752	755	MUDSTONE, BLACK CARBONACEOUS, HIGHLY BROKEN - SOFT JUST ABOVE COAL. PART OF INTERVAL MISSING.
755	763	COAL, DURAIN WITH CLARAIN - VITRAIN STREAKS. HARD COAL.
763	763.8	MUDSTONE PARTINGS. CARBONACEOUS BLACK.
763.8	764.5	COAL, CLARAIN. MODERATELY HARD COAL.
764.5	766	MUDSTONE. BLACK HIGHLY CARBONACEOUS.
766	768	COAL. CLARAIN WITH DURAIN STREAKS. MODERATELY HARD COAL.
768	862.5	MUDSTONE, BLACK, CARBONACEOUS WITH SMALL COAL STRINGERS.
862.5	864	COAL, MAINLY VITRAIN. HARD COAL.
864	880	MUDSTONE. DARD GREY BROWN TO BLACK. FEW SILTY INTERLAMINATION. MINOR
		BRECCIA WITH CALCITE IN FILLING @ 878' ALSO OXIDIZED ZONE. BEDS DIPPING
		@ 12° DIP.

40 Scale

Color Plot & Dips | Ore Classes & Aver

0

RAD. | LOG

669-672' COAL 3'

750.5-752 COAL 1.5'

754-766.8 COAL WITH 1'5' MUDSTONE AT 763' 12.5 (11') SEAM F

794-799' COAL 5' SEAM F1

Core Size

Hole No. DDH 1120

2507-

Diamond Drill Geological Log

Cominco

Objective:			Sampled:		
Logged By: KEN HANSEN	Date: JUNE 28, 1978		Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From	To	Discard: Reason:
880	886	COAL. DURAIN WITH VITRAIN STREAKS, VERY HARD COAL.
886	887	MUDSTONE. DARK BROWN GREY TO BLACK.
887	900	SILTSTONE. MEDIUM GREY, BEDDING @ 14° DIP. MUDSTONE INTERLAMINATIONS 896'-897' OXIDIZED ZONE.
900	939	INTERBEDDED SILTSTONE AND MUDSTONE. SILTSTONE DARK GREY, MUDSTONE BLACK. INPART BIOTUROZATED WITH PYRITE AND
		SAND INFILLING OF BURROWS.
939	947	MUDSTONE, DARK GREY BROWN. RARE THIN COALLY STREAKS (1/4" THICK).
947	993	INTERLAMINATED SILTY SANDSTONE AND SILTSTONE . SS MEDIUM GREY, FINE GRAINED. SILTSTONE DARK BROWN TO DARK GREY.
		BEDDING @ DIP OF 12°. SLKS @ 966'.
993	1030	SANDSTONE. LIGHT TO MEDIUM GREY. MEDIUM TO COARSE GRAINED. ALMOST SALT AND PEPPER SS SLKS. @ 993'. THIN
		CARBONACEOUS STREAKS THROUGHOUT, AS WELL FINE MUDSTONE INTERCALATIONS. SMALL COAL SEAM (6" THICK) @ 1007 ALSO
		SLKS FROM 1005 - 1009' COAL VERY HARD WITH SAND INTERPERSED. 1030 -1031' mdstn. dip 18°
1031	1039.5	SANDSTONE, LIGHT TO MEDIUM GREY. COURSE GRAINED. NUMEROUS COAL BLEBS AND COAL LENSES.
1039.5	1059	INTERLAMINATED SILTSTONE AND MUDSTONE. SILTSTONE MEDIUM GREY, MUDSTONE DARK GREY. PYRITE NODULE @ 1048.6'
		COARSLY LAMINATED ALSO MINOR FINE GRAINED SILTY SS LAMINATIONS. BIDDING DIPPING @ 13°.
1059	1076	MUDSTONE. DARK BROWN TO BLACK WITH SILTY INTERCALATIONS. SLIGHTLY CARBONACEOUS IN PART. SLKS @ 1068'. HIGHLY
		CARBONACEOUS JUST ABOVE COAL CONTACT.
1076	1083	COAL. FIRST 2' DURAIN WITH VITRAIN STREAKS. THE REST PRIMARILYCLARAIN.
1083	1084	SHALE, HIGHLY CARBONACEOUS BLACK.
1084	1086	DIRTY COAL CLARAIN WITH SHALE LAMINATIONS. SOME MISSING CORE IN INTERVAL.
1086	1086.5	MUDSTONE. SOMEWHAT SILTY BLACK MUDSTONE.
1086.5	1091	COAL. DURAIN WITH VITRAIN STREAKS. FEW MINOR THIN MUDSTONE BEDS (1" THICK)
		SOFT COAL.
1091	1092	MUDSTONE. BLACK CARBONACEOUS.

Core Size

Hole No. DDH 1120 Page 6 of 8

40 Scale

Color Plot & Dips | Ore Classes & Aver.

RAD. LOG

880-882.5' COAL 2'
SEAM F2

1076-1096' COAL
2' MUDSTONE 1091-1093'
20(18)' SEAM EU

2507-

Diamond Drill Geological Log

Cominco

40 Scale

Color Plot & Dips | Ore Classes & Aver.

Objective:

Sampled:

Logged By: KEN HANSEN Date: JULY 10, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From	To	Discard: Reason:
1092	1096	COAL. DURAIN WITH VITRAIN STREAKS. VERY HARD COAL. FEW MINOR MUDSTONE INTERCALATIONS. (1/2" THICK).
1096	1099	MUDSTONE. BLACK CARBONACEOUS. THIN COALLY STRINGERS.
1099	1102	INTERBEDDED COAL AND MUDSTONE. VERY CARBONACEOUS. MUDSTONE AND COAL PRIMARILY VITRAIN.
1102	1104	SANDSTONE. FINE GRAINED MEDIUM GREY. BEDDING VARIABLE DIP 09° - 20°.
1104	1112	INTERBEDDED SILTSTONE AND MUDSTONE. MEDIUM TO DARK GREY.
1112	1116	SANDSTONE. MEDIUM GREY. FINE GRAINED. MINOR MUDSTONE INTERCALATIONS. MICRO X-BEDDING.
1116	1123	INTERBEDDED SILTSTONE AND MUDSTONE. MEDIUM TO DARK GREY. ABUNDANT SOFT SEDIMENT DEFORMATIONAL STRUCTURES BEDDING @ 12° DIP. SOME MINOR MICRO X-BEDDING.
1123	1136	MUDSTONE. DARK GREY BROWN TO BLACK. MINOR COAL STRINGERS - ABUNDANT COAL BLEBS. BEDDING DIP 14°.
1136	1144.6	COAL. DURAIN WITH VITRAIN STREAKS. HARD COAL.
1144.6	1145	MUDSTONE. BLACK CARBONACEOUS.
1145	1147	COAL. DURAIN WITH VITRAIN STREAKS. HARD COAL.
1147	1154	INTERBEDDED MUDSTONE AND COAL. 6" COAL SEAM @ 1149'. MUDSTONE, BLACK AND HIGHLY CARBONACEOUS.
1154	1198	MUDSTONE WITH SILTSTONE INTERBEDS. DARK GREY TO BLACK. BEDDING DIP @ 18° (THOUGH SOMEWHAT VARIABLE).
1198	1200	SANDSTONE. MEDIUM GREY. SILTY FINE GRAINED WITH MUDSTONE INTERBEDS AND INTERLAMINATIONS.
1200	1204	MUDSTONE, BLACK BRECCIA @ 1203' IS OXIDIZED. MINOR SS INTERLAMINATIONS, RARE COAL BLEBS.
1204	1226	INTERLAMINATED SILTSTONE AND MUDSTONE. DARK TO MEDIUM GREY IN COLOR. FINELY LAMINATED. THIN COALLY STRINGER @ 1220' (2" THICK). BEDDING DIP @ 13°. PLANT FOSSILS @ 1207'.
1226	1230	MUDSTONE. BLACK HIGHLY CARBONACEOUS WITH NUMEROUS COALLY STRINGERS. ALSO SLKS. THROUGHOUT INTERVAL.
1230	1242	COAL. PRIMARILY DURAIN WITH VITRAIN STREAKS. HARD COAL.
1242	1247	COAL. PRIMARILY CLARAIN. SOFT COAL, BROKEN CORE.
1247	1259	COAL. PRIMARILY DURAIN WITH VITRAIN STREAKS. HARD COAL.

Core Size

Hole No. DDH 1120 Page 7 of 8

0

RAD. | LOG

1134.5-1149.5' COAL
13' SEAM EL

1230-1258' COAL 28'
SEAM D

2307-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: KEN HANSEN Date: JULY 10, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From	To	Discard: Reason:
1259	1272	MUDSTONE, BLACK HIGHLY CARBONACEOUS WITH NUMEROUS COALLY STRINGERS. FOR THE MOST PART CORE HIGHLY BROKEN.
		MINOR SILTSTONE INTERCALASION @ 1266'. BEDDING DIP @ 11°.
1272	1288	INTERLAMINATED SILTSTONE AND MUDSTONE. MEDIUM TO DARK CREY IN COLOR. COARSE LAMINATIONS. MICRO X-BEDDING IN PARTS.
1288	1304	MUDSTONE, BLACK TO DARK GREY. BEDDING DIP @ 18°.
1304	1309	COAL. VITRAIN AND DURAIN @ TOP. CLARAIN PREDOMINATE TOWARDS BASE. @ 1307' 6" SAME PARTINGS. MODERATELY HARD COAL.
1309	1314	INTERLAMINATED SILTSTONE AND MUDSTONE. COARSELY LAMINATED. DARK GREY IN COLOR.
1314	1319	MUDSTONE. DARK GREY TO BLACK. MINOR COAL STRINGER 4" THICK @ 1316': RARE SILTY INTERLAMINATIONS. PLANT FOSSILS
		@ 1315'.
1319	1328	COAL. DURAIN WITH VITRAIN STREAKS. MODERATELY HARD COAL.
1328	1329	MUDSTONE. DARK GREY TO BLACK. CARBONACEOUS.
1329	1332	COAL. DURAIN WITH VITRAIN STREAKS. HARD COAL WITH MINOR MUDSTONE PARTINGS.
1332	1380	INTERBEDDED SILTSTONE AND MUDSTONE. SILTSTONE MEDIUM TO DARK GREY. MUDSTONE DARK GREY BROWN. MINOR MICRO
		X-BEDDING. BEDDING DIP @ 80°✓(THROUGH SOMEWHAT VARIABLE).
1380	1437	SANDSTONE. MEDIUM TO LIGHT GREY. FINE TO COURSE GRAINED. THIN MUDSTONE INTERBEDS THROUGHOUT. ALSO CAOL BLEBS
		CROSS BEDDED SS ALSO MUDCHIP BRECCIA @ 1412' BEDDING DIP VARIABLE FROM (24°-11°) SLKS @ 1409' IN BRECCIA FROM
		(1405'-1410') PYRITE CUBES @ 1407'.
1437	1474	COAL. PREDOMINATELY CLARAIN. MODERATELY SOFT COAL.
1474	1482	MUDSTONE. BLACK INPART CARBONACEOUS WITH THIN COALLY STREAKS
		T D 1482'

Core Size

Hole No. DDH 1120 Page 8 of 8

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

RAD. LOG

1318.5-1326' COAL 7.5'
SEAM DL

1436-1473.5 COAL 37.5'
SEAM B

2507-

RH-499

DIAMOND DRILL SAMPLING RECORD

K-FORDING 78 (4) B-4 (3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS RAD LOG
54	56		17389			2		37.7			5		
56	58		17390			2		43.4			3		
64	66		20755			2		21.2			3		
66	68		20756			2		10.0			7 1/2		
68	70		20757			2		20.8			5 1/2		
70	72		20758			2		11.6			1 1/2		
72	74		20759			2		7.7			7 1/2		
74	76		20760			2		21.6			6 1/2		
76	78	SEAM-7	20761			2		9.2			8		63.5 - 91 COAL
78	80		20762			2		25.3			6		27.5'
80	82		20763			2		27.6			6 1/2		
82	84		20764			2		SAMPLE		LOST			
84	86		20765			2		17.0			6 1/2		
86	88		20766			2		10.0			7		
88	90		20767			2		31.2			6 1/2		
90	92		20768			2		34.7			6 1/2		
64	92	SEAM-7 COMPOSITE				26 28	0.3	18.7	20.0	55.5	5	0.51	
144	146		20751			2		SAMPLE		LOST			
146	148		20752			2		24.7			3 1/2		
148	150	C & Sh.	20753			2		46.3			3 1/2		
203	205		20754			2		53.9			1		

322

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
233	235		20769			2		10.2			5 1/2		
235	237		20770			2		12.5			6		
237	239		20771			2		17.2			5		
239	241		20772			2		14.1			4		
241	243		20773			2		11.1			2 1/2		
243	245		20774			2		15.0			2		22.5' - 256.5'
245	247		20775			2		14.2			1 1/2		COAL
247	249		20815			2		20.1			2 1/2		3.1'
249	251		20820			2		16.4			4		
251	253		20821			2		19.0			3		
253	255		20822			2		26.3			1 1/2		
255	257		20823			2		34.4			1		
257	259		20824			2		28.2			4 1/2		
259	261		20825			2		SAMPLE LOST.					
233	259	SEAM — 1.5	COMPOSITE			26'	0.4	19.0	18.9	51.1	2	0.37	

RH-622

DIAMOND DRILL SAMPLING RECORD

K - FOOTWALL 78 ¥(4) B-4 ¥(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
87	89		17079			2		3.1			7		
89	90		17080			1		29.4			6½		
87	90	COMPOSITE		12,157		3	0.3	17.2	21.6	60.9	7½	0.64	
103	105		17081			2		13.8			7		
105	107		17082			2		14.0			6½		
103	107	COMPOSITE		13,163		4	0.4	13.5	22.1	64.0	7	0.30	
302	304		17083			2		45.4			1		
479	481		17084			2		16.2			2		
481	483		17085			2		23.0			S		
483	485		17086			2		20.0			2½		
485	487		17087			2		16.0			4		
487	489		17088			2		19.2			2		
489	491		17089			2		16.0			2½		
491	493		17090			2		12.1			2½		
493	495		17091			2		10.0			2½		
495	497		17092			2		10.0			2½		
497	499		17093			2		9.3			3½		
499	501		17094			2		11.3			6½		
501	503		17095			2		22.6			2½		
503	505		17096			2		16.8			6½		
505	507		17097			2		57.6					
507	509		17098			2		8.3			6		
509	511		17099			2		14.3			4½		
479	511	COMPOSITE		12,470		32	0.4	18.0	19.5	62.1	3	0.44	
638	640		21001			2							
640	642		21002			2							

322

RH-627

DIAMOND DRILL SAMPLING RECORD

K-FORDING 78 1/4 B-4 #(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
94	96	C & Sh.	15768			2		47.4			2		
96	98	SEAM - 2	15769			2		11.2			7 1/2		
96	98						0.4	10.8	21.6	67.2	7	0.45	
98	100		15770			2		67.9			1		
112	114		15771			2		23.9			7		
114	116	SEAM - 1	772			2		27.1			4 1/2		
116	118		773			2		12.8			7 1/2		
118	119		15774			1		14.2			8		
112	119	SEAM - 1 COMPOSITE		12,066		7	0.3	20.0	21.0	58.7	7	0.41	
175	177		16065			2		15.3			1 1/2		
177	179		15777			2		25.2			2		
175	179	COMPOSITE		12,041		4	0.4	20.2	19.2	60.2	1	0.32	
179	181	C & Sh.	15778			2		71.2			1/2		
185	187		15775			2							
187	188		15779			1		32.7			1		
188	190		780			2		8.4			4 1/2		
190	192		781			2		7.6			2 1/2		
192	194		782			2		14.2			4		
194	196		783			2		11.2			3 1/2		
196	198	SEAM - R5	784			2		9.9			2		
198	200		785			2		11.1			1		
200	202		786			2		12.2			1		
202	204		787			2		11.6			2		
204	206		788			2		12.2			3 1/2		
206	208		789			2		11.7			3 1/2		
208	210		790			2		16.0			2 1/2		
210	212		791			2		52.9			1		
212	214		15792			2		34.1			1 1/2		

322

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
214	216		15793			2		69.2			1		
216	218	C & Sh.	15794			2		71.4			1 1/2		
218	219	" "	15795			1		61.8			1		
185	210	SEAM - R5 COMPOSITE		13,339	23/25		0.5	12.8	19.3	67.4	2	0.28	2' SAMPLE LOST.
226	228	C & Sh.	15796			2		47.6			2 1/2		
231	233	C & Sh.	15797			2		65.5			1.0		
422	424		15798			2		14.8			4		
424	426		15799			2		22.4			5 1/2		
426	428		15800			2		17.3			3		
428	430		15876			2		22.3			2		
430	432		15877			2		11.3			3 1/2		
432	434		15878			2		11.8			3 1/2		
434	436		15879			2		10.0			4		
436	438		15880			2		13.7			6 1/2		
438	440		15881			2		10.8			4 1/2		
440	442		15882			2		8.3			7		
442	444		15883			2		10.3			8		
444	446		15884			2		12.4			5		
446	448		15885			2		22.4			3 1/2		
448	450		15886			2		66.7			1		
450	452		15887			2		24.3			6 1/2		
452	454		15888			2		8.2			7		
454	456		15889			2		43.8			2		
456	458	C & Sh.	15890			2		40.5			1 1/2		
422	454	SEAM - R4 COMPOSITE		12,249		32 1	0.4	18.4	19.0	62.2	3 1/2	0.36	

RH-632

DIAMOND DRILL SAMPLING RECORD

K-FORDING 78*(4) B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
33	35		21052			2		10·0			7		
35	37		21053			2		14·1			7		
37	39		21054			2		18·0			7		
37	39												
						6'							
33	39	SEAM - IIU COMPOSITE		12,979			0·6	14·4	24·2	60·8	7 1/2	0·55	
47	49		21055			2		36·1			6 1/2		
49	51		21056			2		19·6			8		
47	51	COMPOSITE		10,583		4'	0·5	26·5	22·2	50·8	7 1/2	0·80	
58	60		21057			2		39·4			4 1/2		
60	62		21058			2		56·7			2		
71	73		21059			2		45·3			2		
73	74		21060			1		78·3			6		
78	80		21061			2		64·8			1		
196	198		21062			2		34·2			1 1/2		
198	200		21063			2		54·7			0		
200	202		21064			2		20·0			2 1/2		
202	204		21065			2		24·0			1 1/2		
204	206		21066			2		22·0			2		
206	208		21067			2		52·0			1		
208	210		21068			2		54·5			1		
210	212		21069			2		16·0			1		
212	214		21070			2		27·?			1 1/2		
214	216		21071			2		22·4			5		

222

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
216	218		21072			2							
218	220		21073			2		32.6			3½		
220	222		21074			2		57.8			1		
222	224		21075			2		47.1			1		
224	226		21076			2		50.2			1½		
226	228		21077			2		54.0			1		
228	230		21078			2		46.6			4		
200	220	SEAM-9 COMPOSITE		10,	212	18/20	0.4	30.4	20.9	48.3	2	0.40	2' SAMPLE LOST

RH-634

DIAMOND DRILL SAMPLING RECORD

K-FORDING 78 *(4) B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
108	110		21026			2		45.8	HI	CK	1 1/2		CHECKED FEB 78
110	112		21027			2		27.1			7		
112	114		21028			2		26.5			6 1/2		
114	115		21029			1		41.1			3		
110	114	SEAM-7 COMPOSITE				4	0.2	26.7	23.6	49.5	6 1/2	0.50	
118	120		21030					23.2			2 1/2		
122	124		21031			2		28.5			3		
124	126		21032			2		39.4			3		
138	140		21033			2		48.0			3		
140	142		21034			2		40.[illegible]			1 1/2		
			21051			2		50.0			3		
416	418		21035			2		25.1			2		
418	420		21036			2		12.7			2		
420	422		21037			2		7.8			3		
422	424		21038			2		8.9			7		
424	426		21039			2		27.6			2		
426	428		21040			2		13.7			4 1/2		
428	430		21041			2		15.7			3 1/2		
430	432	R7	21042			2		9.8			6 1/2		
432	434		21043			2		23.8			7		
434	436		21044			2		64.5			1		
436	438	P.A 0.5 ± FSI	21045			2		17.2			3 1/2		
438	440	" "	21046			2		79.1			0		
416	434	SEAM R7 COMPOSITE		12	650	18	0.2	16.4	21.2	62.2	3 1/2	0.34	
436	438		21045			2		70.0			0		RECHECK MAR '78

322

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
486	488		21047			2		17.2			3 1/2		
488	490		21048			2		79.1			0		
507	509		21045			2		36.9			1		
509	511		21050			2		29.4			1		
511	513		21006			2		31.8			1/2		
513	515		21007			2		30.3			1/2		
515	517		21008			2		38.0			1		
517	519		21009			2		47.9			1		
519	521		21010			2		35.6			1		
521	523		21011			2		36.0			1		
523	525		21012			2		34.4			1		
525	527		21013			2		48.2			1		
527	529		21014			2		33.1			1		
529	531		21015			2		20.2			1 1/2		
531	533		21016			2							
533	535		21017			2		25.0			1		
535	537		21018			2		23.6			1		
537	539		21019			2		23.6			1		
539	541		17251			2		21.6			1		
541	543		17252			2		20.1			2		
543	545		17253			2		17.4			1 1/2		
545	547		17254			2		16.8			1		
547	549		17255			2		30.5			1		
549	55		17256			2		31.1			1		
551	553		17257			2		21.2			1		
553	555		17258			2		23.1			1 1/2		
555	557		17259			2		21.1			1 1/2		
557	559		17260			2		26.2			1		
559	561		17261			2		33.7			1		
561	563		17262			2		34.8			1		
563	565		17263			2		30.2			1		

-RS

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
565	567		17264			2		53.0			1		
567	569		17265			2		70.6			1 1/2		
569	571		17266			2		48.5			1		
571	573		17267			2		49.3			1 1/2		
573	575		17268			2		37.9			1		
575	577		17269			2		42.9			1		
577	579		17270			2		73.7			0		
579	581		21023			2		67.2			1/2		
581	583		21024			2		34.9			1		
583	585		21025			2							
507	565	SEAM- R5 COMPOSITE		10,448		56/58	0.3 *	30.2	18.7	50.8	1	0.24	*ASH% SEEM TO BE TOO HIGH SAMPLES MIGHT HAVE BEEN CONTAMINATED
588	590	C & Sh	21020			2		44.7			1/2		
590	592		21021			2		59.9			1/2		
592	594		21022			2		67.1			1/2		

RH-636

DIAMOND DRILL SAMPLING RECORD

K-Fording 78*(4) B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
114	116		16576			2							
116	118		16577			2							
118	120		16578			2		26.8			1		
120	122		16579			2		58.8			6		
122	124		16580			2		38.9			3 1/2		
124	126		16581			2		12.2			7		
126	128		16582			2		51.2			1		
128	130		16583			2		16.6			6 1/2		
128	130		16584			[illegible]		18.0			3 1/2		
130	132		16585			2		22.1			7 1/2		
132	134		16586			2		25.2			2 1/2		
134	136		16587			2		37.3			2		
136	138		16588			2		39.6			3		
138	140		16589			2		30.0			6 1/2		
140	142		16590			2		64.9			1		
142	144		16591			2		43.7			1		
144	146	C & Sh	16592			2		42.1			4		
146	148	" "	16593			2		69.4			1/2		
148	150	" "	16594			2		73.9			1/2		
150	152	" "	16595			2							
128	134	COMPOSITE		11,501		6	0.2	19.8	23.3	56.7	5	0.40	
124	140	COMPOSITE		10,640		16	0.4	27.4	21.9	50.3	4 1/2	0.40	
273	275	C & Sh.	16601			2							
275	277	" "	16602			2							
277	279	" "	16603			2		63.8			1		
279	281	" "	16604			2		55.1			1		
281	283	" "	16605			2		75.4			1/2		
417	419		16606			2		47.6			1 1/2		
419	421		16607			2		64.0			1		

322

TURNBULL

RH-638

DIAMOND DRILL SAMPLING RECORD

K. FORDING 78 *(4) B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
74	76		13726			2		8.1			1 1/2		
76	78		13727			2		2.0			1 1/2		
78	80		13728			2		2.8			2		
80	82		13729			2		5.6			3		
82	84		13730			2		A3.6			1/2		
84	86		13731			2		55.2			0		
86	88		13732			2		22.9			0		
88	90		13733			2		34.8			1/2		
90	92		13739			2		38.1			1		
74	82	COMPOSITE		12,452		8'	0.8	12.3	26.1	60.8	1 1/2	0.68	
152	154		13736			2							
154	156		13737			2							
156	158	PASS FSI	13738			2	0.7	12.5	26.8	60.0	8 1/2	0.54	
163	165		13739			2		12.5			8 1/2		
237	239		15724			2							
239	241		15725			2							
241	243	PASS FSI	16701			2	0.6	10.1, 9.6	27.5	61.8	8 1/2 8	0.72	
290	292		16702			2		9.1			8		
292	294		16703			2		12.3			8 1/2		
294	296		16704			2		49.1			4		
290	294	COMPOSITE				4'	0.7	11.4	27.5	59.7	8 1/2	0.72	
300	302		16705	12,660		2		7.0			7 1/2		
302	304		16706			2		29.0			7		
300	304	COMPOSITE				4'	0.5	19.3	24.0	56.2	7 1/2	0.72	

323

TORNBULL

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
361	363		13740			2		40.1			5 1/2		
378	380		13741			2		14.8			8		
380	382		13742			2		8.5			8		
382	384		13743			2		7.3			8 1/2		
384	386		13744			2		17.9			6 1/2		
386	388		13745			2		15.8			5 1/2		
378	388	SEAM — 12 COMPO.		12,461		10'	0.5	13.4	25.4	60.7	7 1/2	0.62	
416	418	C & Sh.	16707			2		24.2			7		
418	420	" "	16708			2		15.2			7 1/2		
420	422	" "	16709			2		63.4			3 1/2		
416	420			11,636		4	0.5	20.3	23.9	55.3	7	0.56	
430	432		16710			2		37.3			7		
439	440		16711			1							
459	461	C & Sh.	16712			2		57.3			1		
622	624	C & Sh.	16713			2		27.5			2 1/2		
624	626		16714			2							
626	628	C & Sh.	16715			2							
628	630	C & Sh.	16716			2							
630	632	" "	16717			2		18.8			2 1/2		
632	634	" "	16718			2							
634	636	" "	16719			2		19.1			5 1/2		

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET / BTU		WIDTH	M	A	VM	FC	FSI	S	REMARKS
636	638	C & Sh.	16720			2'		.25.0			2 1/2		
638	640	" "	16721			2'							
640	642	" "	16722			2'		.42.5			2 1/2		
622	638	SEAM-S. COMPOSITE		11,423	8/	16' *	0.5	22.9	21.0	55.6	2 1/2	0.42	8' SAMPLE LOST

DIAMOND DRILL SAMPLING RECORD

RH-639

K-FORDING 78/1B-4

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
53	55		20232			2		7.5			1		
55	57		20233			2		8.3			5		
53	57	COMPOSITE		14,078		4	0.3	8.2	21.3	70.2	2 1/2	0.48	
71	73		20234			2		14.5			2 1/2		
73	75		20235			2							
75	77		20236			2		14.1			1		
77	79		20237			2		64.3			0		
79	81		20238			2		60.3			1		
71	77	COMPOSITE		13,033		4/6	0.2	14.9	19.3	65.6	2	0.35	
58	100		20239			2		20.4			1		
100	102		20240			2		9.1			6 1/2		
102	104		20241			2		9.8			1 1/2		
104	106		20242			2		8.4			2		
106	108		20243			2		8.6			7 1/2		
108	110		20244			2		15.5			6 1/2		
110	112		20245			2		32.1			4 1/2		
112	114		20246			2		29.0			3		
114	116		20247			2		16.5			1 1/2		
116	118		20248			2		9.9			6 1/2		
118	120		20249			2		10.4			8		
120	122		20250			2		8.2			7		
122	124		20701			2		14.7			9		
124	126		20702			2		33.7			7		
126	128	C&Sh.	20703			2		48.7			4		
130	132		20705			2		66.8			1		
58	126	SBNM-R7 COMPOSITE		12,728		28'	0.3	15.9	20.4	63.4	5	0.34	

322

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
155	157		20706			2		33.8			1		
157	159	C & Sh.	20707			2		27.8			2 1/2		
159	161	C & Sh.	20708			2		46.8			1/2		
161	163	C & Sh.	20709			2		19.5			2		
163	165	C & Sh.	20710			2		14.4			5 1/2		
165	167	C & Sh.	20711			2		8.1			2		
167	169	C & Sh.	20712			2		10.8			2 1/2		
169	171	C & Sh.	20713			2		15.3			5 1/2		
171	173	C & Sh.	20714			2		20.3			1		
173	175	C & Sh.	20715			2		10.3			1 1/2		
175	177	C & Sh	20716			2		15.2			4		
177	179	C & Sh.	20717			2							
179	181	C & Sh.	20718			2							
181	183	C & Sh	20719			2		29.7			1		
155	183	SEAM - R5 COMPOSITE		11,493	24/28	0.3		23.0	17.4	59.3	2 1/2	0.28	1 SAMPLER LOST

RH-644

DIAMOND DRILL SAMPLING RECORD

K. FORDING 78*/4) B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
69	71		16120		2		27.2			1½		
71	73		16121		2		18.5			3½		
73	75		16122		2		17.7			5		
75	77		16123		2		62.7			1½		
71	75			11,422	4'	0.4	18.1	21.4	60.1	4	0.74	
145	147		16124		2		32.5			7		
147	149		16125		2		67.7			1		
153	155		15526		2		38.3			2½		
155	157		15527		2		36.2			1		
157	159		15528		2		53.1			1		
159	161		15529		2		—			—		
161	163		15530		2		14.2			5½		
163	165		15531		2		31.6			6		152.5 - 168.1 COAL 15.5'
165	167		15532		2		17.7			7½		
167	169		15533		2		47.1			2½		CHECKED FEB '76
169	171		15534		2		66.2			1½		
161	167	SEAM-R7 COMPOSITE.		12,213	6'	0.4	17.4	21.0	61.2	6	0.34	
222	224		15535		2		23.0			3		
224	226		15536		2		20.7			4		
226	228		15537		2		48.4			1		
228	230		15538		2		45.8			1½		
230	232		15539		2		32.6			2½		

322

TURNBULL

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
232	234		15540			2		34.8			2 1/2		
234	236		15541			2		22.4			3		
236	238		15542			2		20.2			4 1/2		
238	240		15543			2		17.1			3		
240	242		15544			2		12.5			1		
242	244		15545			2		10.2			5 1/2		
244	246		15546			2		7.8			4		
246	248		15547			2		8.8			1 1/2		
248	250		15548			2		14.7			3		
250	252		15549			2		16.1			3		
252	254		15550			2		11.7			4 1/2		
254	256		15601			2		13.3			2 1/2		
256	258		15602			2		17.6			1		
258	260		15603			2		16.9			3		
260	262		15604			2		7.3			7 1/2		
262	264		15605			2		11.9			2 1/2		
264	266		15606			2		11.8			2 1/2		
266	268	C & Sh.	15607			2		34.6			1		
222	268	SEAM - R5 COMPOSITE		12,345		46	0.4	20.3	19.1	60.2	2 1/2	0.35	
430	431		15608			1		52.2			1 1/2		
434	436		15609			2		26.1			3		
436	438		15610			2		27.7			3 1/2		
438	440		15611			2		56.9			1		
440	442												
442	444		15612			2		67.5			1		
444	445		15613			1		64.7			1		
434	438	COMPOSITE				4	0.4	27.8	17.2	54.6	3	0.32	

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
448	450		15614			2		16.1			6		
450	452		15615			2		9.8 ✓			1½		CHECKED W CHANDLER FEB'76
452	454		15616			2		13.4			5		
454	456		15617			2		7.3			8		
456	458		15618			2		17.2			6½		
458	460		15619			2		18.0			2		
460	462		15620			2		33.4			2½		
462	464		15621			2		16.2			7½		
464	466		15622			2		34.8			3½		
466	468		15623			2		44.2			1		
448	466	SEAM - RA COMPOSITE			11,861	18'	0.5	21.8	18.5	59.2	4½	0.45	

DIAMOND DRILL SAMPLING RECORD

RH-646

K-FORDING 78 (4) B-4 * (3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
381	383		15576			2		21.0			2 1/2		
383	385		15577			2		11.4			7		
385	387		15578			2		29.3			3 1/2		
387	389		15579			2		51.0			1		
389	391		15580			2		32.3			5		
391	393		15581			2		17.4			2 1/2		
393	395		15582			2		12.6			2 1/2		
395	397		15583			2		11.5			3 1/2		
397	399		15584			2		10.9			2		
399	401		15585			2		11.3			3		
401	403		15586			2		10.1			7		
403	405		15587			2		8.6			7 1/2		
405	407		15588			2							
407	409		15589			2		38.5			1 1/2		
409	411		15590			2		26.4			4		
411	413		15591			2		25.0			6		
413	415		15592			2		26.8			6 1/2		
415	417		15593			2		65.5			1		
417	419	C & SH.	15594			2		80.2			0		CALC. AVE. A. 21.5 %
				BTU			*						*
381	415	SEAM- R4 COMPOSITE		12,387	32/34		0.3	20.8	19.8	59.1	4	0.28	2' SAMPLE LOST

322

TURNBULL

DIAMOND DRILL SAMPLING RECORD

RH-647

K. FORDING 78 * (4) B-4 * (3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
79	81		19589			2		27.4			6 1/2		
81	83		19590			2		16.8			5		
83	85	C & Sh.	19591			2		52.3			6 1/2		
85	87	C & Sh.	19592			2		71.8			1		
79	83	COMPOSITE				4	0.2	19.1	21.6	59.1	7 1/2	0.60	
171	173		19593			2		14.2			3 1/2		
173	175		19594			2		12.4			5 1/2		
175	177		19595			2		16.4			7		
177	179		19596			2		13.0			5		
179	181		19597			2		14.6			6 1/2		
181	183		19598			2		12.7			4		
183	185		19599			2		28.8			1 1/2		
185	187		19600			2		28.8			2 1/2		
187	189		19551			2		16.1			2 1/2		
189	191		19552			2		15.0			2 1/2		
191	193		19553			2		13.1			6 1/2		
193	195		19554			2		11.2			5 1/2		
195	197		19555			2		18.9			7 1/2		
171	197	SEAM - R7 COMPOSITE.		12	464	26	0.4	17.1	19.8	62.7	4 1/2	0.42	
265	267		19556			2		42.3			1		
267	269		19557			2		10.6			2 1/2		
269	271		19558			2		9.6			5 1/2		
271	273		19559			2		10.1			2		
273	275		19560			2		11.0			5		
275	277		19561			2		27.1			1 1/2		
277	279		19562			2		14.3			5 1/2		
279	281		19563			2		13.1			7 1/2		

322

TURNBULL MT.

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
281	283		19564			2		22.7			2		
283	285		19565			2		7.7			6 1/2		
285	287		19566			2		14.4			2		
287	289		19567			2		14.2			2 1/2		
289	291		19568			2		7.5			2		
291	293		19569			2		12.7			4 1/2		
293	295		19570			2		18.9			1 1/2		
295	297		19571			2		9.6			1		
297	299		19572			2		12.0			1		
299	301		19573			2		10.8			6 1/2		
301	303		19574			2		8.1			1/2		
303	305		19575			2		11.5			1 1/2		
305	307		19619			2		17.8			2		
307	309		19620			2		21.9			1 1/2		
267	309	BEAM - R5 COMPOSITE		13,067		42'	0.4	13.9	19.6	66.1	3	0.83	
482	484		19671			2		12.2			2 1/2		
484	486		19672			2		33.5			2 1/2		
486	488	C.E.Sh.	19673			2		30.3			7 1/2		
482	488	COMPOSITE		10,381		6'	0.3	26.3	17.7	55.7	4	0.52	
489	491		19674			2		61.3			1		
491	493		19675			2		68.4			1 1/2		
493	495		17279			2		47.4			1		
495	497		17280			2		15.7			1 1/2		
497	499		17281			2		14.5			2 1/2		
499	501		17282			2		12.4			3 1/2		
501	503		17283			2		11.4			3		
503	505		17284			2		10.2			4		
505	507		17285			2		24.2			4 1/2		
507	509		17286			2		14.6			3 1/2		

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
505	511		17287			2		43.6			1		
511	513		17288			2		34.7			2		
513	515		17289			2		12.7			4½		
515	517		17290			2		38.4			2		
517	519		17291			2		52.5			1		
519	521		17292			2							
						1							
495	515	SEAM R4 COMPOSITE				20	0.2	19.4	19.5	60.9	2½	0.22	

RH-649

DIAMOND DRILL SAMPLING RECORD

K- FORDING 78*(4) B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
35	37		20876		2		7.5			1		
37	39		20877		2		11.1			1/2		
39	41		20878		2		14.6			0		
41	43		20879		2		5.4			1		
43	45		20880		2		10.4			1 1/2		
45	47		20886		2		21.5			1/2		
47	49		20881		2		12.3			1/2		
49	51		20882		2		6.3.2			0		
51	53		20883		2		49.0			1/2		
53	55		20884		2		77.6			0		
55	56		20885		2		—			—		
35	47	SEAM - 12 COMPOSITE		13,027	14'	0.9	11.2	24.0	68.9	1	0.56	
71	73											
73	75		20887		2		9.4			1		
75	77		20888		2		12.5			2		
77	79		20889		2		13.4			7		
79	81		20890		2		12.9			7 1/2		
81	83		20891		2		20.4			6		
83	85		20892		2		11.4			7 1/2		
85	87		20893		2		23.1			4 1/2		
87	89		20894		2		33.7			6 1/2		
89	91		20895		2		20.8			6		
91	93		20896		2		22.0			6		
			20897		2		21.6			6 1/2		
71	93	SEAM - 11U COMPOSITE		11,889	22'	0.5	18.6	22.7	58.2	5 1/2	0.62	
102	104		20898		2		23.2			6 1/2		
104	106		20899		2		3.1			6		
106	107	C.E. Sh.	20900		1		59.1			3 1/2		
102	106	COMPOSITE		9,942	4'	0.4	30.9	20.6	48.1	6 1/2	0.71	

322

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
108	110		20976		2		68.6			1		
110	112		20977		2		32.6			3 1/2		
112	114		20978		2		35.4			S		
114	116		20979		2		30.9			S		
116	118		20980		2		32.9			A 1/2		
110	118	COMPOSITE		9,679	8	0.3	33.4	19.4	46.5	S	0.44	
239	241		20981		2		38.1			1		
241	243		20982		2							
243	245		20983		2		48.8			1/2		240-260 COAL
245	247		20984		2							
247	249		20985		2		27.2			1		
												245-260' GOOD COAL
251	253		20986		2		12.8			7		
253	255		20987		2							
255	257		20988		2		32.6			3 1/2		
257	259		20989		2		17.0			6 1/2		
259	261		20990		2		30.1			2 1/2		
261	263		20991		2		46.3			3		
264	266		20994		2		52.8			1		
266	268		20995		2		55.6			1		
247	261	COMPOSITE		11,298	10/14	0.3	24.4	22.6	52.7	3 1/2	0.45	2' SAMPLE NOT TAKEN & 2' SAMPLE LOST
703	705		20833		2		20.2			3		
705	707		20834		2		23.1			6 1/2		
707	709		20835		2		17.4			6		
709	711		20836		2		31.4			4 1/2		
711	713		20837		2		46.0			2		
713	715		20838		2		38.4			2		

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
715	717		20835			2		55.0			2		
717	719	C & Sh	20836			2		39.4			1 1/2		
719	721	" "	20837			2		67.9			1		
703	741	COMPOSITE		11,	214	8'	0.6	23.7	23.6	52.1	4 1/2	0.39	
735	737		20840			2		63.5			1		
737	739		20841			2		53.4			1		
739	741		20842			2		49.2			3		

RH-650

DIAMOND DRILL SAMPLING RECORD

K- FORDING 78*(4) B-Y *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
320	322		19801			2		15.1			6 1/2		
322	324		19802			2		30.8			2		
324	326		19803			2		21.4			1/2		
326	328		19804			2		32.0			1		
328	330		19805			2		25.9			2		
330	332		19806			2		18.7			2		
332	334		19807			2		14.0			2 1/2		
334	336	SEAM - R4	19808			2		13.4			2 1/2		
336	338		19809			2		11.3			2 1/2		
338	340		19810			2		8.5			2 1/2		
340	342		19811			2		6.4			3 1/2		
342	344		19812			2		7.6			6		
344	346		19813			2		10.9			6 1/2		
346	348		19814			2		13.1			5 1/2		
348	350		19815			2		20.6			2 1/2		
350	352		19816			2		51.5			1 1/2		
352	354		19817			2		35.2			4		
354	356	C & Sh.	19818			2		11.5			6 1/2		
356	358	C & Sh.	19819			2		35.2			2 1/2		
358	360	C & Sh	19820			2		47			1		
320	356	SEAM - R4 COMPOSITE		12,	387	36	0.5	18.8	18.8	61.9	3 1/2	0.32	
471	473		19996			2		11.5			5		
473	475	C & Sh.	19997			2		67.0			1		
471	473		19996			2	0.6	12.5	18.4	68.5	5	0.40	
486	488		19998			2		17.6			4 1/2		
488	490		19999			2		21.1			5		
490	492		20000			2		18.6			6 1/2		
486	492	SEAM - R1 COMPOSITE.		12,	163	6	0.5	19.5	18.4	61.6	5 1/2	0.52	

322

RH-651

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
58	60	C & Sh.	20720			2		29.6			1		
60	62	" "	20721			2		15.8			2 1/2		
62	64	" "	20722			2		19.4			3 1/2		
64	66	" "	20723			2		11.8			5 1/2		
66	68	" "	20724			2		16.1			5		
68	70	" "	20725			2		15.4			2		
70	72	" "	16005			2		18.6			3		
72	74	" "	16006			2		13.5			3		
74	76	" " Sc Am	16007			2		15.7			2		
76	78	" "	16008			2		18.4			3 1/2		
78	80	" "	16009			2		39.5			1		
80	82	" " -RS	16010			2		16.6			1/2		
82	84	" "	16011			2		18.3			3 1/2		
84	86	" "	16012			2		26.2			4 1/2		
86	88	" "	16013			2		13.8			1		
88	90	" "	16014			2		22.0			2		
90	92	" "	16015			2		19.1			4 1/2		
58	92	SEAM - R5 COMPOSITE		11,938		34	0.4	28.0	18.6	61.0	2 1/2	0.36	
281	283		16016			2		21.3			1 1/2		
283	285		16017			2		14.8			2		
285	287		16018			2		12.7			6		
287	289		16019			2		8.2			6 1/2		
289	291		16020			2		10.7			7		
291	293		16021			2		10.1			7		
293	295		16022			2		15.5			7		
295	297		16023			2		14.1			6		
297	299		16024			2		43.4			2 1/2		
299	301		18804			2		35.6			4 1/2		
301	303		18805			2		27.0			5		
303	305		18806			2		33.7			5		

333

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
305	307		18807			2		32.2			5 1/2		
311	313		18808			2		24.7			6		
313	315		18809			2		10.6			6 1/2		
315	317		18810			2							
317	319		18811			2		23.3			7		
319	321		18812			2		28.6			6 1/2		
321	323		18813			2		30.4			2		
323	325		18814			2		24.7			4		
325	327		18815			2		21.7			6		
327	329		18816			2		28.9			4 1/2		
329	331	C & Sh.	18817			2		38.8			4		
331	333	" "	18818			2		64.8			1		
333	335	" "	18819			2		38.1			1 1/2		
335	337	" "	18820			2							
337	339	" "	18821			2		20.0			3 1/2		
339	341	" "	18822			2		49.5			2		
341	343	" "	18823			2		50.0			1		
343	345	" "	18824			2		50.7			1 1/2		
345	347	" "	18825			2		52.5			2		
347	349	" "	20151			2		46.5			1		
349	351	" "	20152			2		31.3			3		
351	353	" "	20153			2		45.8			1		
353	355	" "	20154			2		51.7			1		
281	329	SRAM - R4 COMPOSITE.		11,182		42	48	0.5	23.1	19.4	57.0	4 1/2	0.78

Objective: K-FORDING 78(3)B-4 | Sampled:

Logged By: R.K. | Date: November/78 | Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG.

From	To	Discard: m	m	
0	10			Sandstone
10	18			Siltstone
18	41.5			Mudstone
41.5	64	12.65	19.51	Coal 22.5' 6.86m SEAM - 4
64	71.5			7.5' mudstone
71.5	84.5	21.79	25.76	Coal 13' 3.96m PART SEAM - 4
84.5	116			Mudstone
116	144			Siltstone sandy intervals
144	182			Sandstone
182	190			Mudstone
190	197			Sandstone and siltstone
197	226	60.04	68.88	Coal 29' 8.84m SEAM - R7
226	258			Mudstone
258	282.5	78.64	86.10	Coal 24.5' 7.47m SEAM - R5
282.5	323			Mudstone with interbeds of siltstone, coal stringers at 316'
323	388			Siltstone, sandy near bottom.
388	442			Sandstone PEAR SS.
442	466			Silty sandstone.
466	478.5	142.04	145.85	Coal 12.5' 3.81m
478.5	487			8.5' mudstone
487	496.5	148.44	151.33	Coal 9.5' 2.90m SEAM - R4
496.5	508			Mudstone
508	513	154.84	156.36	Coal 5' 1.52m

Core-Size

Hole No. RH 653

Page 1 of 2

40 Scale

Cc ... & Aver.

RH-653

322

Logged By: | Date: | Composites:

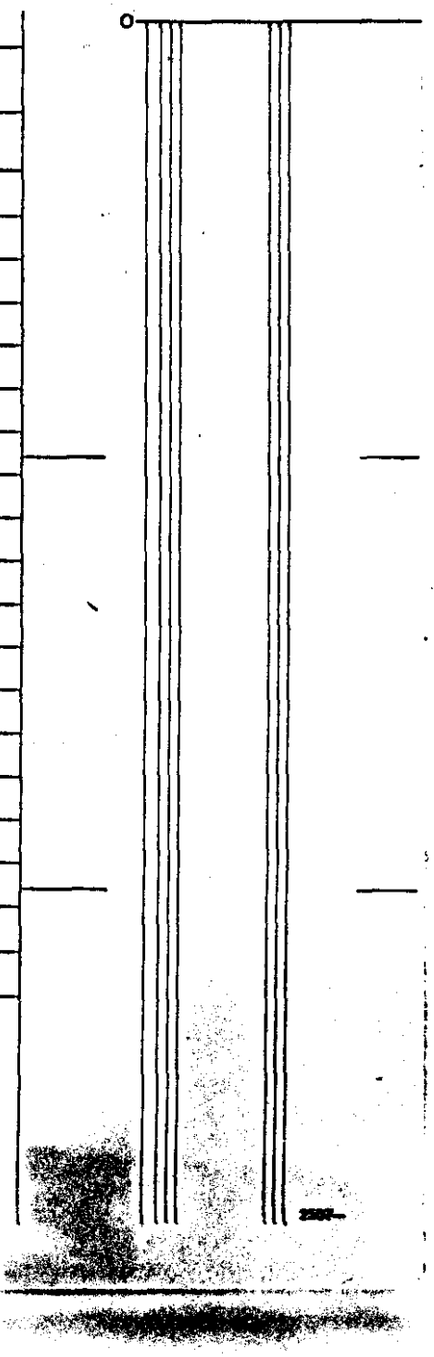
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From	To	Discard: m	m	Reason:
513	537			Mudstone, thin coal band (less than one foot) at 519'
537	546			3' sandstone band at top and mudstone
546	547.5	166.42		Coal 1.5' 0.46m
547.5	582		177.39	Mostly mudstone, probably some siltstone.
				END OF HOLE
				MAY 28, 1978

Core Size

Hole No. RH 653

Page 2 of 2



ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
34	35		24930		1		29.5			1 1/2		
40	42		24931		2		11.5			4 1/2		
42	44		24932		2		12.6			5 1/2		
44	46		933		2		26.5			5 1/2		
46	48		934		2		11.8			5 1/2		
48	50		935		2		7.0			2 1/2		
50	52		936		2		9.4			4 1/2		
52	54		937		2		5.3			6 1/2		
54	56	SEE	938		2		9.2			3 1/2		
56	58		940		2		6.1			7		
58	60	4 - 4	941		2		6.0			7 1/2		
60	62		942		2		47.0			1		
62	64		943		2		42.3			4 1/2		
64	66		944		2		61.8			1 1/2		
66	68		945		2		52.9			2		
68	70		946		2		55.4			1		
70	72		947		2		36.7			4 1/2		
72	74		948		2		22.6			7		
74	76		949		2		17.2			6		
76	78		24950		2		21.7			3 1/2		
78	80		24676		2		15.9			8		
80	82		677		2		60.1			1 1/2		
82	84	P.A. o/o S, FSI.	678		2	0.7	32.5 32.2	15.6	51.2	5, 4 1/2	0.32	
84	86		679		2		37.5			5 1/2		
86	88		24680		2		53.1			1 1/2		
88	89		24681		1		28.1			6 1/2		
40	60	COMPOSITE			20	0.5	11.0	20.6	79.4	5	0.44	
70	80	COMPOSITE.			10	0.5	22.8	20.5	51.7	5	0.41	PETROGRAPH.

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
183	185		24682		2		40.4			3		
196	198		24683		2		39.3			5 1/2		
198	200		684		2		9.4			2 1/2		
200	202		685		2		2.7			8		
202	204		686		2		17.3			1 1/2		
204	206		687		2		10.5			5		
206	208		688		2		16.2			6 1/2		
208	210		689		2		11.2			7 1/2		
210	212		690		2		15.4			7 1/2		
212	214		691		2		17.1			5		
214	216		692		2		19.8			7 1/2		
216	218		693		2		18.9			1 1/2		
218	220		694		2		28.6			1		
220	222		695		2		11.4			6		
222	224	CE SH.	24696		2		77.4			1		
196	222	COMPOSITE			26'	0.6	17.0	20.2	62.2	5	0.34	PETROGRAM
256	258		24697		2		31.8			1 1/2		
258	260		698		2		26.6			2		
260	262		699		2		13.8			5 1/2		
262	264		24700		2		21.7			5		
264	266		24701		2		8.8			1 1/2		
266	268		24702		2		13.0			1 1/2		
268	270		703		2		11.0			5 1/2		
270	272		704		2		12.1			1 1/2		
272	274		705		2		15.0			4 1/2		
274	276		706		2		18.9			1		
276	278		707		2		13.2			4		
278	280		708		2		60.7			1		
280	282	PA. 0% S FSI.	24709		2	0.6	34.5 34.1	14.7	50.2	1 1/2	0.40	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
256	278	COMPOSITE			22	0.6	17.3	19.1	63.0	2 1/2	0.30	PETROGRAPHY.
315	317	C.E. SH.	24710		2		64.2			1		
466	468		24711		2		12.8			7		
468	470		712		2		11.4			6		
470	472		713		2		6.5			7 1/2		
472	474		714		2		19.2			4 1/2		
474	476		715		2		16.0			6 1/2		
476	478	C.E. SH.	24716		2		69.0			1		
466	476	COMPOSITE			10	0.5	13.2	21.2	65.1	6 1/2	0.30	
488	490		24717		2		22.2			2		
490	492		718		2		25.4			2 1/2		
492	494		719		2		22.5			1 1/2		
494	496	C.E. SH.	24720		2		43.8			3 1/2		
488	494	COMPOSITE			6	0.5	23.1	20.4	56.0	2	0.39	
507	509	C.E. SH.	24721		2		22.4			5 1/2		
509	511		24722		2		10.6			3 1/2		
511	513		24723		2		65.0			1		
507	511	COMPOSITE			4							
518	520		24724		2		64.2			1/2		
540	542		24725		2		63.4			1		
542	544		24726		2		69.9			1		
544	546		24727		2		47.4			1		

Diamond Drill Geological Log

K. Fordink 78 (3) B-4

Cominco

RH-654

Objective:		Sampled:	
Logged By: R.K.	Date: November/78	Composites:	DIRECTIONAL SURVEY DONE BY ROKE

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL			

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	8	0	2.44	Overburden
8	13			Mudstone
13	22	3.96	6.71	Coal 9' 2.74m } SEAM - 9
22	26			2' mudstone, 2' Coal }
26	72			Mudstone with thin bands of siltstone
72	148			Sandstone, silty near top
148	312			Mudstone, 3' sandstone or coal band at 198.5', 3' sandstone band at 254', silty interval near bottom.
312	320			Siltstone
320	341.3			Mudstone
341.3	345.3	104.03	105.25	Coal 4' 1.22m
345.3	353.3			Mudstone
353.3	376.7	107.69	114.82	Coal 23.4' 7.13m SEAM - 7
376.7	402.1			Mudstone
402.1	442.9	122.56	135.00	Coal 40.8' 12.44m SEAM - 5
442.9	477.2			Mudstone and shaley siltstone
477.2	482.7	145.45	147.13	Coal 5' 1.52m
482.7	516			Mudstone
516	556			Interbedded mudstone and siltstone
556	645.3			Mudstone, some siltstone near bottom.
645.3	647.8	196.69		Coal 2.5' 0.76m
647.8	697		212.45	Mudstone, sandy siltstone 665-680'
				END OF HOLE - MAY 31, 1978

Core Size

Hole No. RH 654

Page 1 of 1

322

2507-

ROTARY DRILL SAMPLES FROM Coal

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
15	19	NO SAMPLE - CASING	20135		4							
19	21		136		2		56.9			1		
21	23	PART SEAM-9	20137		2		22.2			1 1/2		
25	27		20138		2		33.1			1		
27	29		20139		2		56.2			1		
344	346		20140		2		12.9			7		
346	348	C & SH	141		2		50.0			4		
348	350		20142		2		54.5			2 1/2		
355	357		20143		2		41.9			1		
357	359		20144		2		17.7			5 1/2		
359	361		145		2		15.8			6 1/2		
361	363		146		2		12.2			3		
363	365		147		2		14.4			7 1/2		
365	367	SEAM-7	148		2		31.3			3 1/2		
367	369		149		2		15.9			2		
369	371		20150		2		13.4			5		
371	373		12901		2		12.9			6 1/2		
373	375		902		2		15.5			7		
375	377		903		2		27.5			7		
377	379		904		2		52.3			2 1/2		
379	381	C & SH	905		2		75.3			1/2		
381	383	" "	12906		2		65.9			1		
357	377	COMPO.			20 1	0.3	18.0	20.7	61.0	5	0.22	PETROGRAPHIC ANALYSIS

ROTARY [illegible]

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
404	406		12907		2		32.1			2 1/2		
406	408		908		2		30.0			2 1/2		
408	410		909		2		10.3		—	6 1/2		
410	412		12910		2		6.3			6 1/2		
412	414		911		2		17.8			3		
414	416		912		2		21.2			1 1/2		
416	418		913		2		9.6			3		
418	420	SE	914		2		15.5			1		
420	422		915		2		10.1			4		
422	424	AM- S	916		2		13.7			3 1/2		
424	426		917		2		19.9			1		
426	428		918		2		10.3			1		
			919				15.3			1		
428	430		12920		2		32.3			2 1/2		
430	432		921		2		15.9			3		
432	434		922		2		9.8			1 1/2		
434	436		923		2		9.5			2		
436	438		924		2		21.1			2		
438	440		12925		2		29.1			1 1/2		
440	442		12876		2		15.6			2		
442	444		12877		2		83.1			0		
404	442	COMPO.			38'	0.3	16.9	22.4	60.4	3	0.34	PETROGRAPHIC ANALYSIS.
479	482		12878		3		15.6			6 1/2		
482	484		879		2		35.3			6		
484	486		880		2		14.8			6 1/2		
486	488		881		2		67.4			1/2		
488	490		882		2		74.5			0		
479	486	COMPO.			7'	0.2	20.2	27.0	52.6	5 1/2	0.35	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	PSI	S	REMARKS
514	516	C & SH.	12883		2		84.2			0		
516	518	" "	884		2		88.3			0		
518	520	" "	12885		2		90.4		—	0.		
648	652		12886		4		54.5			1		
652	654		12887		2		64.6			1		

RH-655

Geological Log

K-FORDING 78(3)B-4

Fording COAL LIMITED

40 S.

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	498,000 N.	TURNBULL			

Color Plot & Dips | Ore Classes & Aver.

From	To	m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG
0	22			Sandstone
22	59			Mudstone
59	76	17.98	23.16	Coal 17' 5.18m SEAM - 4
76	88.5			Mudstone
88.5	91.5	26.96	27.89	Coal 3' 0.91m
91.5	114			Mudstone
114	152			Siltstone
152	188			Sandstone, bottom 2' mudstone.
188	190.5	57.30	58.06	Coal 2.5' 0.76m SEAM - 2
190.5	202			Mudstone and siltstone.
202	209	61.57	63.70	Coal 7' 2.13m SEAM - 1
209	234			Basal sandstone.
234	251			Silty sandstone, mudstone near bottom
251	258	76.50	78.64	Coal 7' 2.13m
258	284			Mudstone
284	311	86.56	94.79	Coal 27' 8.23m SEAM - R5
311	347			Mudstone
347	404			Siltstone, sandy in lower half interval.
404	488			Sandstone
488	497.5			Siltstone grading into mudstone near bottom.
497.5	535	151.64	163.07	Coal with 3' shale from 526.5-529.5' 37.5(34.5)' 11.43(10.52)m SEAM - R4
535	560		170.69	Mudstone near top, siltstone and sandstone.
				END OF HOLE MAY 27, 1978

Hole No. RH 655

Page 1 of 1

322

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	H	A	VH	FC	FSI	S	REMARKS
57	59		20121		2		17·4			3		
59	61		20122		2		24·1			2 1/2		
61	63		20123		2		10·6			3 1/2		
63	65		20124		2		9·0			7		
65	67		20125		2		8·3			5		
67	69		24851		2		10·6			6		
69	71		24852		2		3·7			7 1/2		
71	73		24853		2		15·5			6 1/2		
73	75	SEAM-4.	24854		2		42·1			5 1/2		
75	77		24855		2		39·7			6		
77	79		24856		2		67·6			1		
79	81		24857		2		72·6			1		
81	83		24858		2		43·1			3		
83	85		24859		2		46·7			1		
85	87		24860		2		61·5			1		
87	89		24861		2		20·1			7		
89	91		24862		2		51·8			1		
91	93		24863		2		47·2			4		
57	73	SEAM-A. COMPO.			16	0·2	12·8	20·7	66·3	5 1/2	0·33	PETROGRAPHY.
187	189		24864		2		45·8			1		
189	190		24865		1		13·7			7		
203	205	SEAM-1	24866		2		51·8			5		
205	207		24867		2		22·5			5 1/2		
207	208		24868		1		15·9			6 1/2		
	3	SEAM-1 COMPO.			5	0·6	30·2	21·2	48·0	6	0·40	
223	225		24869		2		45·0			5		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
251	253		24826		2		59.6			2		
253	255		24827		2		13.0			2		
255	257		24828		2		11.5			1		
257	259	CES	24829		2		19.5			2		
253	259	COMPO.			6'	0.6	14.4	20.1	64.9	1 1/2	0.13	
286	288		24830		2		26.1			2 1/2		
288	290		24831		2		9.2			6 1/2		
290	292		24832		2		32.0			1		
292	294		24833		2		16.5			2		
294	296	SEAM R5	24834		2		10.3			2		
296	298		24835		2		11.3			1 1/2		
298	300		24836		2		16.8			1 1/2		
300	302		24837		2		30.0			1		
302	304		24838		2		23.6			1 1/2		
304	306		24839		2		18.5			1		
306	308		24840		2		18.0			4 1/2		
308	310	CES	24841		2		21.6			1 1/2		
286	308	SEAM-R5 COMPO.			22'	0.3	27.0	20.7	52.0	2	0.32	
498	500		24842		2		18.5			2 1/2		
500	502		24843		2		21.8			4 1/2		
502	504		24844		2		16.1			2 1/2		
504	506		24845		2		18.9			1		
506	508		24846		2		14.2			2 1/2		
508	510		24847		2		12.2			2		
510	512		24848		2		7.2			7		
512	514	SEAM-	24849		2		12.8			1 1/2		
514	516		24850		2		6.4			7		
516	518	R4	24870		2		9.4			7		
518	520		24871		2		10.0			7		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
520	522		24872		2		14.2			5 1/2		
524	526		24873		2		12.5			5		
526	528		24874		2		55.9			1		
528	530		24875		2		33.5			2 1/2		
530	532		20126		2		10.4			6 1/2		
532	534		20127		2		30.1			3		
534	536		20128		2		56.0			1		
536	538		20129		2		40.6			1		
538	540		20130		2		19.3			4		
540	542		20131		2		—			—		
542	544		20132		2		—			—		
544	546		20133		2		—			—		
546	548		20134		2		—			—		
498	534	SEAM - R4 COMPO.			34/36'	0.3	18.1	21.1	60.5	3 1/2	0.15	

RH 656 -

Geological Log

K- FORDING 78 (3)B-4

Fording COAL LIMITED

40 Scale

Color Plot & Dips | Ore Classes & Aver.

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block: | Sect.: | Place: TURNBULL | App. Bear: | App.: Dip.: | Length:

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	6		1.83	Overburden
6	40			Mudstone
40	41			Coal 1'
41	44.5			Mudstone
44.5	119			Mudstone, occasional bands of siltstone, 1' Coal 44.5-45.5'
119	170			Siltstone
170	182			Silty sandstone.
182	337			Mostly mudstone with interbeds of siltstone.
337	340	102.72	103.63	Coal 3' 0.91m
340	480			Interbedded siltstone and mudstone, several bands of sandstone.
480	510			Mudstone
				END OF HOLE
				MAY 25, 1978

Hole No. RH 656

Page 1 of 1

322

ROTARY DRILL SAMPLING RECORD

SAMPLED MAY 24/25.

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
39	41	C & SH	24926		2		22.4			1/2		
41	42	" "	24927		1		61.7			0		
44	46		24928		2		—			—		
46	48	C & SH.	24929		2		42.8			1/2		
327	329		24951		2		51.4			4 1/2		
329	331		24952		2		84.0			0		

RH-657 --

Geological Log

K-Fordenc 78(3)B-4

Fording Coal Limited

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	30		9.14	Overburden
30	31			Mudstone
31	33	9.45		Coal 2' 0.61m
33	46			Mudstone
46	170			Sandstone
170	187			Mudstone
187	194	57.00	59.13	Coal and coaly shale. 7(6)' 2.13(1.83)m Part SEAM - R7
194	234			Mudstone with thin bands of siltstone
234	262.5	71.32	80.01	Coal 28.5' 8.69m SEAM - R5
262.5	294			Mudstone
294	324			Siltstone
324	412			Sandstone, silty near top.
412	442			Siltstone grading into mudstone towards bottom.
442	478	134.72	145.69	Coal with 2' shale at 470.5' 36(34)' 10.97(10.36)m SEAM - R4
478	482			Siltstone
482	500		152.4	Sandstone

END OF HOLE

MAY 25, 1978

40 Scale

Color Plot & Dips	Ore Classes & Aver.

0

Hole No. RH 657

Page 1 of 1

322

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
33	35		22861		2		47.8			1		
35	37		22862		2		67.4			1		
179	181		22863		2		78.1			1 1/2		
181	183	CR SH. PART	864		2		79.3			1 1/2		
183	185	" "	865		2		85.8			0		
185	187		866		2		73.3			1		
187	189	SEAM - R7	867		2		73.5			1 1/2		
189	191		868		2		42.0			1		
191	193		22869		2		50.6			1		
235	237		24995		2		26.4			1 1/2		
237	239		25000		2		36.6			2 1/2		
239	241		24876		2		25.8			1		
241	243		24877		2		11.2			1 1/2		
243	245		878		2		12.1			2 1/2		
245	247	SEAM -R5	879		2		8.0			3		
247	249		880		2		11.2			1 1/2		
249	251		881		2		14.3			2		
251	253		882		2		9.3			1		
253	255		883		2		9.8			1 1/2		
255	257		884		2		13.5			3		
257	259		885		2		55.0			1		
259	261	P.A. 4 & 5, FSI →	886		2		29.6			1		
261	263	CR SH.	24887		2		58.2			1		
263	265		24888		2		77.8			0		
265	267	CR SH.	889		2		81.3			0		
267	269		24890		2		36.3			3 1/2		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
235	257	COMPOSITE		12,851	22'	0.5	16.4	19.2	63.9	1½	0.32	
272	274		24891		2		50.6			1		
443	445		20101		2		30.7			1		
445	447		102		2		26.4			5		
447	449		103		2		27.3			1		
449	451		104		2		59.3			1		
451	453		105		2		11.2			3		
453	455		106		2		11.1			3 1/2		
455	457		107		2		21.4			2 1/2		
457	459		108		2		9.6			3 1/2		
459	461		20109		2		10.4			4 1/2		
461	463		110		2		8.7			3		
463	465		111		2		7.8			6 1/2		
465	467		112		2		8.1			7 1/2		
467	469		113		2		8.4			5 1/2		
469	471		114		2		14.2			5 1/2		
471	473		115		2		45.3			1		
473	475		116		2		34.6			3		
475	477		117		2		8.3			7		
477	479		118		2		31.5			5 1/2		
479	481		119		2		52.8			1		
481	483		20120		2		51.2			1		
443	479	COMPOSITE		11,762	36	0.6	22.2	17.9	59.3	3 1/2	0.29	

SE 4 M - R4

RH-658

Geological Log

K - FORDING 78(3)B-4

Fording Coal Limited

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	10		3.05	Overburden.
10	120			Basal Sandstone
120	183			Siltstone with some sandstone
183	239			Sandstone
239	263			Mudstone
263	298			Silty sandstone and siltstone near bottom.
298	305			Mudstone
305	311	92.96	94.79	Coal 6' 1.83m
311	315			4' mudstone
315	342	96.01	104.24	Coal 27' 8.23m SEAM - R4
342	344			2' mudstone
344	346.5	104.85	105.61	Coal 2.5' 0.76m
346.5	365		111.25	Siltstone, some mudstone near top.
				END OF HOLE
				MAY 19, 1978

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

322

Hole No. RH 658

Page 1 of 1

ROTARY DRILL HOLE LOG RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
306	308		24977		2		19.8			4		
308	310		24978		2		23.8			7		
310	312		979		2		33.1			3 1/2		
312	314		980		2		77.5			1 1/2		
314	316		981		2		42.1			3 1/2		
316	318		982		2		35.2			4 1/2		
318	320		983		2		20.6			3 1/2		
320	322		984		2		11.3			1 1/2		
322	324		985		2		6.0			6 1/2		
324	326		986		2		12.3			6		
326	328		987		2		52.8			1		
328	330		988		2		13.1			3		
330	332		989		2		10.1			7		
332	334		990		2		8.7			8		
334	336		991		2		10.8			7		
336	338		992		2		9.1			7 1/2		
338	340		993		2		12.3			6 1/2		
340	342		994		2		23.2			6 1/2		
342	344		995		2		7.8			3		
344	346		996		2		12.8			6 1/2		
346	348		24997		2		44.5			1		
348	350		24998		2		33.6			1 1/2		
306	312	COMPO.			6'	0.6	25.0	18.4	56.0	4 1/2	0.36	
316	346	COMPO.			30'	0.6	16.0	20.8	62.6	5	0.31	
306	346	COMPO.		11,795	40'	0.6	22.5	17.8	59.1	4 1/2	0.31	

EM-R1

RH-659

Geological Log

K - FORDING 78(3)B-4

Fording COAL LIMITED

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	8		2.44	Overburden
8	13	2.44	3.96	Coal 5' 1.52m
13	20			7' mudstone
20	39	6.10	11.89	Coal 19' 5.79m SEAM - 12
39	77			Mudstone
77	90	23.47	27.43	Coal 13' 3.96m SEAM - 11u
90	130.5			Silty mudstone
130.5	132			Coal 1.5'
132	136			4' mudstone
136	147	41.45	44.81	Coal 11' 3.35m SEAM - 11
147	177			Mudstone
177	182.5	53.59	55.63	Coal 5.5' 1.68m
182.5	194.5			Mudstone
194.5	196			Coal 1.5'
196	236.5			Interbedded mudstone and siltstone.
236.5	238			Coal 1.5'
238	241			Mudstone
241	245	73.46	74.68	Coal 4' 1.22m
245	247			Mudstone
247	251	75.29	76.50	Shaley coal 5' 1.52m
251	259			Mudstone
259	263	78.94	80.16	Coal 4' 1.22m SEAM - 9 Band
263	267			4' mudstone

Hole No. RH 659

Page 1 of 2

Color Plot & Dips	Ore Classes & Aver.

0

322

Geological Log

Fording COAL LIMITED

Objective:				Sampled:	
Logged By:	Date:			Composites:	
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

40 Scale

Color Plot & Dips | Ore Classes & Aver.

From	To	m	m	Reason:
				INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG
267	276	81.38	84.12	Coal 9' 2.74m
276	287.5			Siltstone and mudstone SEAM - 9
287.5	296	87.63	90.22	Coal 8.5' 2.59m
296	374			Mostly mudstone with interbedded siltstone
374	394			Siltstone
394	416			Mudstone and shaley siltstone
416	422	126.80	128.63	Coal 6' 1.83m
422	424			2' mudstone
424	426	129.24		Coal 2' 0.61m
426	428			2' mudstone
428	430	130.45		Coal 2' 0.61m
430	445			Mudstone
445	448.5	135.64	136.70	Coal 3.5' 1.07m
448.5	457		139.29	Siltstone
				END OF HOLE
				MAY 23, 1978

Hole No. RH 659

~~DIAMOND~~ DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
8	12	ACTUAL SEAM - CLEAN BUT SAMPLE IS CONTAMINATED (AS SAMPLED FROM CASING DRILLING)	23310			2		32.2			1/2		
16	18	C & SH	23311			2		64.5			1/2		
20	22		23312			2		9.6			7		
22	24		23313			2		12.3			7 1/2		
24	26		314			2		5.0			8		
26	28	SEAM - 12	315			2		5.1			8		
28	30		316			2		15.4			7 1/2		
30	32		317			2		7.8			7 1/2		
32	34		318			2		15.5			5		
34	36		319			2		29.5			6		
36	38		320			2		26.3			6 1/2		
38	40		23321			2		54.6			5 1/2		
40	42	C & SH.	23322	ACTUAL BT.U.		2		73.3			1		
20	38	COMPOSITE.		13,125		18'	0.6	14.4	25.6	59.4	7	0.56	
76	78		23323			2		22.8			8		
78	80		324			2		16.5			8		
80	82		23325			2		10.5			7 1/2		
82	84	SEAM - 11U	23376			2		22.0			3 1/2		
84	86		377			2		7.9			8 1/2		
86	88		378			2		18.0			8		
88	90		23379	ACTUAL BTU.		2		57.6			3		
76	88	COMPOSITE.				12'	0.5	16.6	23.8	59.1	6 1/2	0.65	
131	133	C & SH.	23380			2		61.8			2 1/2		
133	135	" "	23381			2		63.9			1 1/2		

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
137	139		23382			2		47.5			3 1/2		
139	141	SEAM-11	383			2		37.2			4 1/2		
141	143		384			2		18.7			6 1/2		
143	145		385	ACTUAL		2		32.4			4 1/2		
145	147		23386	BTU.		2		19.4			6 1/2		
139	147	COMPOSITE		11,006		8'	0.5	27.3	21.3	50.9	5	0.59	
177	179	P.A. do S. FSI. BTU	23387	11,479		2	0.5	20.4	25.7	53.4	2	0.68	
179	181		388			2		38.9			1		
181	183		23389			2		38.0			1		
195	196		23390			1		64.9			1		
224	226		23391			2		68.5			1		
226	227		23392			1		60.0			1		
235	237		23393			2		24.0			6		
237	239	SEAM-9	394			2		56.5			2 1/2		
239	241		395			2		44.3			4 1/2		
241	243		396	ACTUAL		2		15.5			8		
243	245		23397	BTU.		2		17.3			7		
241	245	COMPOSITE		12,266		4'	0.5	16.6	24.9	58.0	7 1/2	0.65	
246	248		23398			2		41.3			5		
248	250	P.A. do S FSI., BTU.	399	10,679		2	0.5	29.1	20.9	49.4	6	0.65	
250	252		23400			2		40.1			2		

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
259	261		24901			2		43.7			4		
261	263		24902			2		39.8			4.		
264	268		24903			2		29.2			5		
268	270	SEAM-9	904			2		18.6			5		
270	272		905			2		32.7			5		
272	274		906			2		28.8			4		
274	276		24907			2		24.4			6		
				ACTUAL BTU.									
266	276	COMPOSITE		11,119.		10'	0.6	27.0	20.7	51.7	5	0.69	
287	289		24908			2		21.1			6		
289	291	SEAM-9	909			2		12.7			3 1/2		
291	293		910			2		29.7			1		
293	295		911			2		23.0			1		
295	297		24912			2		43.4			1/2		
				ACTUAL BTU.									
287	295	COMPOSITE.		11,570		8	0.5	22.0	20.4	57.1	2 1/2	0.68	
414	416		24913			2		59.8			2		
416	418		914			2		20.7			7		
418	420		915			2		21.1			7 1/2		
420	422		916			2		15.1			7		
422	424		24917			2	40	21.0	22		1 1/2		
416	424	COMPOSITE.				8	0.6	19.9	20.0	59.5	5 1/2	0.53	
426	428		24918			2							
428	436		24919			2							

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
442	444		24920			2		53.1			1		
444	446		24921			2		38.7			1		

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
442	444		24920			2		53.1			1		
444	446		24921			2		38.7			1		

RH 660

Geological Log

K-FORDING 78(3)B-4

Fording COAL LIMITED

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	9		2.74	Overburden
9	28			Siltstone
28	47			Mudstone
47	71	14.33	21.64	Coal 24' 7.32m SEAM - R7
71	135			Mudstone, one foot coal band at 99'
135	194	41.15	59.13	Coal 59' 17.98m SEAM - R5
194	200.5			Mudstone
200.5	203	61.11		Coal 2.5' 0.76m
203	234			Mudstone, siltstone 220-230'
234	252.5	71.32	76.96	Coal 18.5' 5.64m SEAM - R5
252.5	306			Mudstone with some siltstone, one foot coal band at 260'
306	394			Siltstone near top, grading progressively to sandstone towards bottom. Pear S.S.
394	400			Mudstone
400	405			Siltstone
405	425			Mudstone
425	434			Siltstone
434	437			Mudstone
437	439	133.20		Coal 2' 0.61m
439	447.5			Mudstone
447.5	468.5	136.40	142.80	Coal with 2.5' mudstone at 462.5' 21(18.5)' 6.4(5.64)m SEAM R4
468.5	473			Mudstone
473	489		149.05	Siltstone near top, sandstone.
				END OF HOLE MAY 18, 1978

Color Plot & Dips | Ore Classes & Aver.

40

0

Hole No. RH 660

Page 1 of 1

322

~~DIAMOND~~ DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
40	42		23401			2		81.0			0		
46	48		23402			2		44.1			1		
48	50		23403			2		24.0			1 1/2		
50	52		23404			2		14.5			4 1/2		
52	54		23405			2		7.7			1		
54	56		23406			2		11.0			7 1/2		
56	58		23407			2		18.6			6 1/2		
58	60	SEAM	23408			2		41.9			1		
60	62		23409			2		22.8			7		
62	64		23410			2		8.8			7 1/2		
64	66	-R7.	23411			2		10.8			8		
66	68		23412			2		10.6			6 1/2		
68	70		23413			2		12.2			7		
70	72		23414			2		19.4			7 1/2		
72	74		23415			2		52.4			3 1/2		
74	76		23416			2		63.3			1		
48	72	SEAM- R7 COMPOSITE				24	0.7	17.2	21.6	60.5	5 1/2	0.42	
99	103	C&S	23417			4		79.0			0		
134	136	C&S	23418			2		45.1			1		
136	138		23419			2		64.1			2 1		
138	140		23420			2		38.0			1		
140	142		23421			2		18.9			2 1/2		
142	144		23422			2		25.2			1		
144	146		23423			2		22.0			1		
146	148		23424			2		15.3			1 1/2		
148	150	SEAM -R5	23425			2		—			—		
150	152		23476			2		34.0			1		
152	154		23477			2		8.6			3 1/2		
154	156		23478			2		32.0			3 1/2		
156	158		23479			2		25.4			3 1/2		

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
158	160		23480			2		33.5			4 1/2		
160	162		23481			2		13.8			1 1/2		
162	164		23482			2		15.1			2 1/2		
164	166		23483			2		13.6			6		
166	168		23484			2		15.1			1		
168	170		23485			2		13.6			6		
170	172		23486			2		11.2			1		
172	174		23487			2		16.6			1		
174	176		23488			2		13.9			2 1/2		
176	178		23489			2		19.4			2 1/2		
178	180		23490			2		22.0			1		
180	182		23491			2		11.7			1 1/2		
182	184		23492			2		11.3			4 1/2		
184	186		23493			2		14.6			2		
186	188		23494			2		15.6			1 1/2		
188	190		23495			2		13.4			4		
190	192		23496			2		13.4			4 1/2		
192	194	C&S	23497			2		37.4			1		
194	196	C&S	23498			2		61.2			1		
196	198	C&S	23499			2		32.5			1 1/2		
138	194	SEAM - R5 COMPOSITE				54/56	0.5	19.0	19.2	61.3	2 1/2	0.25	
201	203	C&S	23500			2		—			—		
235	237		21826			2		7.8			6		
237	239		21827			2		34.0			1		
239	241		21828			2		15.6			1 1/2		
241	243		21829			2		11.6			2		
243	245		21830			2		20.6			1 1/2		
245	247		21831			2		13.0			2		
247	249		21832			2							
249	251		21833			2		17.0			1 1/2		

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
251	253		21834			2		34.1			1		
253	255		21835			2		62.2			1		
255	257	P.A & S. FSI. →	21836			2	0.8	33.5	16.7	49.0	1 1/2	0.41	
257	259		21837			2		—			—		
259	261	C & S	21838			2		—			—		
235	253	COMPOSITE.				18'	0.8	19.4	18.6	61.2	2	0.27	
436	438		21839			2		34.4			1 1/2		
436	440		21840			2		30.6			5 1/2		
	~~442~~	✓ COMPOSITE.				4'	0.9	32.4	16.4	50.3	3 1/2	0.38	
442	444		21841			2		57.5			1		
444	446	C & S	21842			2		54.0			1 1/2		
448	450		21843			2		14.4			4 1/2		
450	452		21844			2		11.6			2		
452	454		21845			2		10.5			4 1/2		
454	456	Two Samples Taken for 2' interval	21846			1		8.3			6 1/2		
			21847			1		7.8			7		
456	458	SEAM - R4.	21848			2		14.1			7 1/2		
458	460		21849			2		12.9			6		
460	462		21850			2		70.5			1		
462	464		23434			2		15.3			3		
464	466		23435			2		—			—		
466	468		23436			2		18.0			2		
468	470	C & S	23437			2		—			—		
470	472		23438			2		29.3			2		
448	472	SEAM - R4 COMPOSITE.											
						20/24'	0.4	19.7	18.1	61.8	4 1/2	0.28	

Diamond Drill Geological Log

RH - 661

K. FORDING 78(3)B-4

Cominco

Objective:

Sampled:

Logged By: Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG

From	To	Discard: m	m	
0	10	0	3.05	Overburden (gravel, clay and boulders)
10	20			Sandstone
20	68			Mudstone with some siltstone, SS. band at 44-46'
68	106			Mostly siltstone, bands of mudstone and sandstone.
106	110			Sandstone
110	131			Mudstone
131	148			Siltstone
148	187			Mudstone
187	192	57.00	58.52	Coal 5' 1.52m SEAM - R7 U
192	263.5			Mostly siltstone, bands of mudstone, sandy intervals
263.5	283.5	80.31	86.41	Coal 20' 6.10m SEAM - R7
283.5	311.5			Siltstone and mudstone
311.5	331.5	94.94	101.04	Coal 20' 6.10m SEAM - R5
331.5	361			Mudstone
361	374.5	110.03	114.15	Coal with 2.5' mudstone band at 370.5' 13.5(11)' 4.11(3.35)'
374.5	386			Mudstone
386	394	117.65	120.09	Coal 3' 2.44m
394	407			Mudstone
407	419			Silty sandstone and siltstone
419	456			Mudstone with silty bands
456	461	138.99	140.51	Coal 12' 3.66m
461	485			Mudstone
485	497	147.83	151.49	Coal 12' 3.66m

Core Size

Hole No. RH 661

Page 1 of 2

322

asses & Aver

2507-

Diamond Drill Geological Log

Comaco

Objective:			Sampled:		
Logged By:	Date:		Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From	To	Discard: m	m	Reason:
497	531.5			Mudstone
531.5	548.5	162.00	167.18	Coal 17' 5.18m SEAM - R5
548.5	552			Mudstone
552	554			Coal 2'
554	562			Mudstone
562	563			Coal 1'
563	572			Mudstone
572	596			Siltstone
				END OF HOLE
				SEPTEMBER 13, 1978

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

Core Size

Hole No. RH 661

Page 2 of 2

250/-

RH-662

Geological Log

K- fordings 78(3)B-4

fording COAL LIMITED

40 Scale

Color Plot & Dips | Ore Classes & Aver.

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	90			Overburden
90	124			Mudstone
124	129	37.80	39.32	Coal 5' 1.52m SEAM - R7u
129	180			Siltstone, bottom 30' sandy siltstone.
180	194.5			Mudstone
194.5	215.5	59.28	65.68	Coal 21' 6.4m SEAM - R7
215.5	260			Silty mudstone, 1' shaley coal band at 217'
260	292	79.25	89.00	Coal (281'-292' shaley) 32' 9.75m SEAM - R5
292	297			Mudstone, top 2' highly carbonaceous
297	301	90.53	91.74	Coal 4' 1.22m
301	344			Mudstone
344	347	104.85	105.77	Coal 3' 0.91m
347	369			Siltstone
369	424			Sandstone, siltstone 406-416'
424	455			Siltstone
455	478			Sandstone
478	490			Sandy siltstone
490	499	149.35	152.10	Coal 9' 2.74m
499	536			Siltstone, shaley intervals.
536	551	163.37	167.94	Coal with 2' shale at 542' 15(13)' 4.57(3.96)m
551	575			Siltstone near top, sandstone
575	597	175.26	181.97	Coal 22' 6.71m
597	610			Mudstone

SEAM
R4
BANDS

Hole No. RH 662

Page 1 of 2

322

Geological Log

fording COAL LIMITED

Objective:

Sampled:

Logged By: Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

40 Scale

Color Plot & Dips | Ore Classes & Aver.

From	To	m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG
610	615			Sandstone
615	624	187.45	190.19	Coal 9' 2.74m
624	639		194.77	Siltstone and sandstone.
				END OF HOLE
				JUNE 14, 1978

Hole No. RH 662

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
124	126		25 101		2		10.4			3 1/2		
126	128		102		2		11.4			5		
128	129		25103		1		60.8			3 1/2		
124	128	R7U. COMPO.			4	0.5	11.0	22.0	66.5	4	0.69	
194	196		25104		2		MISSING.			—		
196	198		105		2		40.8			1		
198	200		106		2		30.3			2		
200	202		107		2		16.2			2 1/2		
202	204		108		2		9.4			6 1/2		
204	206		109		2		12.6			6		
206	208		110		2		15.8			3 1/2		
208	210		111		2		9.7			6 1/2		
210	212		112		2		12.9			7		
212	214		113		2		29.3			7 1/2		
214	216		114		2		56.3			2		
216	218		115		2		57.6			1		
218	219		25116		1		21.1			1		
202	214	V COMPO.	202-214		12'	0.4	21.2	20.2	58.2	6	0.40	
196	214	SEAM - R7. COMPO.	196-214	11,518	18'	0.5	23.6	19.5	56.4	5	0.39	
259	261		25117		2		26.0			3 1/2		
261	263		118		2		10.6			3 1/2		
263	265		119		2		10.8			2 1/2		
265	267		120		2		11.2			4		
267	269		121		2		11.8			1		
269	271		122		2		10.6			3		
271	273		123		2		11.9			4		
273	275		124		2		12.1			3 1/2		
275	277		25 125		2		23.0			1 1/2		
277	279		25002		2		30.8			1		
279	281		25003		2		34.6			1		

ROTARY DRILL STATEMENT RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
252	281	SEAM - R5 COMPO.		12,574	22'	0·5	17·7	19·0	62·8	2 1/2	0·33	
282	284		25004		2		52·8			1		
284	286		005		2		39·8			1		
286	288		006		2		50·1			1		
288	290		007		2		52·7			1		
290	292		008		2		37·6			1		
292	294		009		2		55·0			1		
294	296		25010		2		7·2			0		
296	298		011		2		58·9			1/2		
298	300		25012		2		43·0			1		
418	420	C & SH										
420	422	" "										
490	492		25136		2		47·6			1		
492	494		137		2		12·2			5 1/2		
494	496		138		2		23·3			1		
496	498	C & SH.	25139		2		54·3			1		
492	496	SEAM-R4 U. BAND. COMPO.			4	05	17·8	19·0	62·7	3 1/2	0·45	
536	538		25140		2		54·2			1		
538	540		141		2		34·3			2 1/2		
540	542		142		2		52·8			1		
542	544		143		2		44·0			1		
544	546		144		2		14·9			6 1/2		
546	548		145		2		14·2			4 1/2		
548	550	C & SH.	25146		2		50·5			1		
538	540		25141		2	0·4	34·0	17·4	48·2	2 1/2	0·47	
544	546	SEAM-R4 BAND. COMPO	25144-5		4	0·5	14·8	19·9	65·3	5 1/2	0·53	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VH	FC	FSI	S	REMARKS
574	576		25147		2		24.3			3 1/2		
576	578		148		2		17.5			5 1/2		
578	580		149		2		36.7			3		
580	582		25150		2		41.3			4 1/2		
582	584		25076		2		35.3			1		
584	586		077		2		32.1			1		
586	588		078		2		34.4			1 1/2		
588	590		079		2		42.7			1		
590	592		080		2		17.4			6 1/2		
592	594		081		2		31.6			2		
594	596		25082		2		53.2			1		
574	594	SEAMR4 MAIN BAND COMPO.		10,049	20	0.3	31.6	17.6	50.5	2 1/2	0.42	
616	618		25083		2		40.6			1		
618	620		084		2		29.1			1		
620	622		085		2		32.6			1 1/2		
622	623		25086		1		52.6			1		
618	622	LWR. BAND COMPO.			4	0.3	31.1	16.8	51.8	1 1/2	0.36	

RH-663

Geological Log

K- FORDING 78(3)B-4

Fording Coal Limited

40 Scale

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL			

Color Plot & Dips | Ore Classes & Aver.

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	115.5		35.2	Overburden
115.5	119.5	35.2	36.42	Coal? 4' 1.22m
119.5	226			Interbedded siltstone and sandstone, occasional bands of mudstone.
226	228	68.88		Coal 2' 0.61m
228	258			Mostly siltstone, some mudstone, sandstone band at 253'
258	261	78.64	79.55	Coal 3' 0.91m
261	312			Silty sandstone near top, siltstone and mudstone near bottom.
312	314	95.10		Coal 2' 0.61m
314	330			Shaley coal 314-317' and mudstone
330	332	100.58		Coal 2' 0.61m
332	376			Interbedded siltstone and mudstone, sandstone 338-343'
376	408	114.60	124.36	Coal with 1' shale band at 403' 32(31)' 9.75(9.45)m
408	457			Sandy siltstone, bands of mudstone.
457	486			Sandstone Pear S.S.?
486	508			Siltstone
508	525			Mudstone, sandy siltstone 519-523'
525	531	160.02	161.85	Coal 6' 1.83m
531	569			Siltstone
569	580	173.43	176.78	Coal with 2' shale band at 573' 11(9)' 3.35(2.74)m
580	619		188.67	Sandstone, mudstone band at top.
				END OF HOLE
				JUNE 21, 1978

Hole No. RH 663

Page 1 of 1

322

ROTARY [illegible]

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
311	313		25013		2		72.0			1		
313	315		014		2		MISSING.					
315	317		25015		2		69.5			1		
379	381		25016		2		12.8			3 1/2		
381	383		017		2		14.2			3 1/2		
383	385		018		2		15.7			2 1/2		
385	387		019		2		15.3			1		
387	389		020		2		19.8			3 1/2		
389	391		021		2		40.2			1		
391	393		022		2		42.6			1		
393	395		023		2		17.9			1 1/2		
395	397		024		2		14.5			1		
397	399		25025		2		16.4			1		
399	401		25126		2		18.7			1 1/2		
401	403		127		2		10.6			5 1/2		
403	405		128		2		47.1			1		
405	407		129		2		15.5			1 1/2		
407	409		25130		2		47.0			1 1/2		
					28'	0.2	21.2	18.5	60.1	2	0.38	
379	407	SEAM - R5 COMPO.										
413	415				2		30.8			1		
415	417		23131		2		51.4			1		
			23132		2							
418	420		23133		2		74.9			1/2		
420	422		23134		2		47.2			1		
422	423		23135		1		69.3			0.		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
528	530											
530	532											
570	572		25062		2							
572	574		063		2							
574	576		064		2							
576	577		065		1							
577	578		066		1							
578	580		25067		2							

SAMPLES MISSING

RH-664 —

Geological Log

K-FORDING- 78(3)B-4

Fording COAL LIMITED

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		STURNBULL			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	13		3.96	Overburden
13	41			Siltstone and mudstone
41	43	12.50		Coal 2' 0.61m
43	63			Mudstone
63	65.5	19.20		Shaley coal 2.5' 0.76m
65.5	245			Mudstone, siltstone 68- 73' and 126-130'
245	248	74.68	75.59	Coal 3' 0.91m
248	269			Siltstone, coal stringer at 259'
269	281			Mudstone
281	297			Sandy siltstone.
297	362			Mudstone, bands of siltstone in lower half interval.
362	386			Siltstone
386	412			Sandstone
412	444			Mudstone
444	460			Siltstone
460	487			Mudstone and siltstone
487	494			Sandstone
494	583			Siltstone
583	612			Mudstone, coal stringers at 590'
612	620	186.54	188.98	Coal 8' 2.44m
620	659		200.86	Mudstone, bands of siltstone.
				END OF HOLE
				SEPTEMBER 14, 1978

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

Hole No. RH 664

Page 1 of 1

322

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
31	33		27101		2		78.2			1/2		
33	35		102		2		64.5			1		
35	37		103		2		34.7			2 1/2		
37	39	C & SH.	104		2		61.0			1		
40	42	C & SH	105		2		23.5			4		
42	44	" "	106		2		41.3			4 1/2		
44	46	" "	27107		2		59.1			1 1/2		
40	44	COMPO.			4'	0.3	32.9	19.8	47.0	4	0.61	
60	62		27108		2		51.5			1		
62	64		109		2		52.4			1		
64	66		27110		2		51.0			1 1/2		
248	250		27111		2		42.6			5		
259	261	C & SH.	27112		2		67.3			1		
613	615		27113		2		30.1			1		
615	617		114		2		34.5			1		
617	619		115		2		16.8			5 1/2		
619	621		116		2		25.3			7		
621	623		117		2		60.9			1		
623	625		118		2		72.3			1 1/2		
625	627		27119		2		80.8			0		
613	621	COMPO.			8'	0.4	27.0	20.8	51.8	3 1/2	0.41	

RH 665 —

Geological Log

K - FORDING 78(3)B-4

fording COAL LIMITED

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	93		28.35	Overburden and casing.
93	102			Mudstone and siltstone.
102	106	31.09	32.31	Coal 4' 1.22m
106	143			Mudstone
143	160			Siltstone, sandstone near bottom.
160	170			Mudstone and siltstone.
170	285.5			Mostly sandstone, mudstone bands throughout, silty near bottom.
285.5	289.5	87.02		Shaley coal 4' 1.22 m
289.5	324			Mudstone and siltstone, sandstone 296-302'
324	344			Sandstone
344	369.5			Sandy siltstone near top and mudstone.
369.5	372.5	112.62	113.54	Coal 3' 0.91m
372.5	426			Mudstone to 393.5', less than 1' coal band at 393.5, siltstone.
426	428	129.84		Coal 2' 0.61m
428	458.5			Siltstone
458.5	464	139.75	141.43	Coal 5.5' 1.68m
464	471			Siltstone and mudstone
471	472			Coal 1'
472	475			Mudstone
475	476.5	144.78		Coal 1.5' 0.46m
476.5	512			Siltstone with mudstone bands
512	514	156.06		Coal 2' 0.61m

Hole No. RH 665

Page 1 of 2

40 Scale

Color Plot & Dips | Ore Classes & Aver.

322

Geological Log

fording COAL LIMITED

Objective:

Sampled:

Logged By: Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
514	556			Siltstone near top and sandstone.
556	561	169.47	170.99	Coal 5' 1.52m
561	620		188.98	Mudstone near top, siltstone with bands of mudstone.
				END OF HOLE
				JUNE 26, 1978

40 Scale

Color Plot & Dips	Ore Classes & Aver.

0

Hole No. RH 665

Page 2 of 2

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
102	104		25068		2		18.0			3		
104	106.		25069.		2.		21.4			3		
102	106	COMPO.			4'	0.9	19.5	33.1	46.5	3	0.77	
144	146	P.A.d.S,F SC.	25070		2		14.7			6		
146	148		25071		2		56.2			1 1/2		
			25070		2	1.0	15.0	32.0	52.0	6	0.55	
287	289	C & SH.	25072		2		41.5			4		
289	291	" "	25073		2		—			—		
370	372		25074		2		68.4			1		
374	376		25075		2.		65.4			1		
376	377		25076		2.		75.2			0.		
377	379				2							
393	395											
426	428	C & SH.	24351		2		57.4			2 1/2		
460	462	P.A.d.S.F.S.T.	24352		2		20.1			6		
462	463		24353		1		53.5			1 1/2		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
			24352		2	0.9	20.3	27.6	51.2	6	0.62	
471	472		24354		1		65.4			1		
475	476		24355		1		52.3			2 1/2		
557	559	P.A. o/o S F St.	24356		2		17.6			7 1/2		
559	560		24357		1		51.6			3 1/2		
			24356		2	0.9	17.6	28.4	53.1	7	0.76	

RH-666 -

Geological Log

K-Fording 78(3)B-4

Fording Coal Limited

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	83		25.30	Overburden , Casing to 70'
83	108			Mudstone
108	144			Interbedded mudstone and siltstone
144	160			Mudstone
160	176			Siltstone
176	190			Mudstone
190	248			Siltstone, mudstone bands, some mudstone near bottom.
248	253.5	75.59	77.27	Coal 5.5' 1.68m
253.5	274			Mudstone, 1' coal band at 257.5'
274	296.5	83.52	90.37	Coal 22.5' 6.86m SEAM - R7
296.5	299.5			Shaley coal.
299.5	309			Mudstone
309	320			Siltstone, sandstone bands.
320	330.5			Mudstone
330.5	337	100.74	102.72	Coal 6.5' 1.98m
337	359			Siltstone
359	405			Mudstone, siltstone bands
405	473			Siltstone
473	480	144.17	146.30	Coal 7' 2.13m
480	507			Mudstone, siltstone 486-496', Coal stringers at 482 and 501'

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

322

Hole No. RH 666

Rotary Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From Ft.	To Ft.	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO
507	513			Sandstone
513	521			Mudstone
521	525			Siltstone
525	536			Mudstone
536	541.5	163.37	165.05	Coal 5.5' 1.68m
541.5	547.5			6' mudstone, silty
547.5	554	166.88	168.86	Coal 6.5' 1.98m
554	562			Mudstone
562	580			Siltstone
580	587			Mudstone
587	602	178.92	183.49	Coal 15' 4.57m
602	619		188.67	Mudstone
				END OF HOLE
				JUNE 20, 1978

Color Plot & Dips | Ore Classes & Aver.

Hole No. RH
RH 666

Page of
2 of 2

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
251	253		25096		2		61.8			1/2		
253	255		097		2		76.4			1		
255	257		25098		2		49.5			1		
259	261		25099		2		57.0			1		
261	263		25100		2		64			1		
277	279		25026		2		38.2			1		
279	281		027		2		41.7			1		
281	283		028		2		13.4			1		
283	285		029		2		18.6			3		
285	287		030		2		15.7			2		
287	289		031		2		28.6			1		
289	291		032		2		19.1			1		
291	293		033		2		42.2			1		
293	295		034		2		40.0			1		
295	297		035		2		38.0			2		
297	299		036		2		53.9			1		
299	301	C.E.SH	037		2		68.1			1		
301	303	" "	25038		2		70.4			1 1/2		
281	291				10'	0.4	18.8	19.7	61.1	1 1/2	0.45	
277	297	SEAM - R7 COMPO.			20'	0.3	29.5	19.2	51.0	1 1/2	0.24	
334	336		25039		2		64.3			0		
336	338		040		2		50.1			1		
338	339		25041		1		61.3			1		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
474	476		25042		2		23.3			1 1/2		
476	478		25043		2		37.2			1		
478	480		2504A		2		47.4			1 1/2		
474	478	COMPO.			4.	0.4	30.1	23.3	46.2	1 1/2	0.73	
537	539		25045		2		32.7			1		
539	541		046		2		34.3			1		
541	543		25047		2		72.2			1 1/2		
537	541	COMPO.			4.	0.3	33.2	19.5	46.6	1	0.38	
548	550		25048		2		75.3			1		
550	552		049		2		60.9			1		
552	554		25050		2.		53.2			1		
554	556		25051		2		64.5			1		
559	561		25052		2		66.9			1		
561	563		25053		2.		75.9			1 1/2		
588	591		25054		2		61.5			1		
591	593		25055		2		55.3			1		
593	595		056		2		53.9			1		
595	597		057		2		51.0			1		
597	599		058		2		35.2			1		
599	601		059		2		32.4			1		
601	603		060		2		56.8			1		
603	605	C.C. SH.	25061		2		75.3			0.		
597	601	COMPO.			4.	0.3	34.1	21.4	44.2	1	0.20	

RH-667

Geological Log

K - FORDEX 78(3)B-4

fording COAL LIMITED

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL			

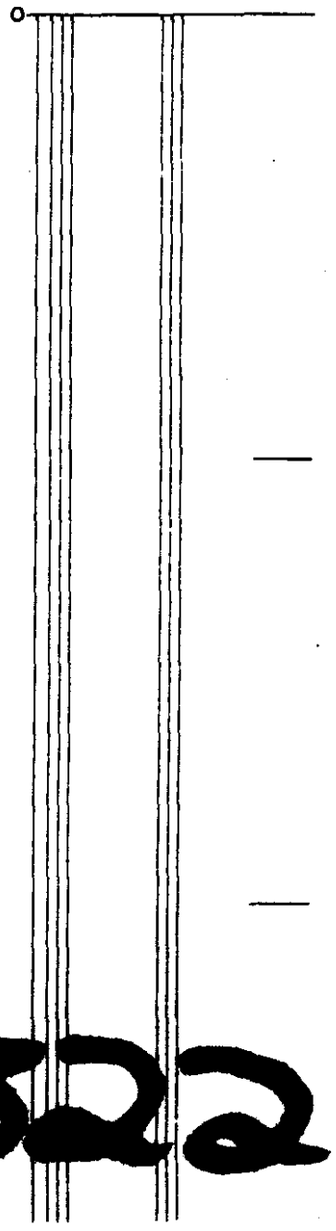
Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	103		31.39	Overburden (Casing to 84')
103	118			Mudstone and siltstone.
118	150			Sandstone
150	154.5	45.72	47.09	Coal 4.5' 1.37m
154.5	205			Interbedded siltstone and sandstone
205	222			Siltstone
222	228			Mudstone
228	229.5	69.65		Coal 1.5' 0.46m
229.5	241			Mudstone and siltstone
241	244	73.46	74.37	Coal 3' 0.91m
244	255			Mudstone, sandstone band near top.
255	258	77.72	78.64	Coal 3' 0.91m
258	306.5			Sandstone, some siltstone near bottom.
306.5	317.5	93.42	96.77	Coal 11' 3.35m
317.5	331			Sandstone, mudstone band near top.
331	360			Mostly siltstone, some mudstone.
360	368			Sandstone
368	370	112.17		Coal 2' 0.61m
370	383.5			Siltstone and sandstone.
383.5	385.5	116.89		Coal 2' 0.61m
385.5	519		158.19	Sandy siltstone with occasional sandstone intervals.
				END OF HOLE JUNE 28, 1978

Hole No. RH 667

Page 1 of 1

Color Plot & Dips | Ore Classes & Aver.



322

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
149	151		24426		2		51.0			1		
151	153	P.A o/o S FSI.	24427		2		29.8			4 1/2		
			24427			0.4	30.0	27.6	42.0	5	0.91	
221	223		24428		2		50.6			3 1/2		
223	225		24429		2		78.6			0		
227	229		24430		2		68.6			1/2		
229	231		24431		2		76.8			1		
231	233	C & SH.	24432		2		67.1			1		
239	241	C & SH	24433		2		80.5			0		
241	243	P.A o/o S FSI.	24434		2		33.1			6 1/2		
			24434		2	0.3	33.2	28.5	38.0	7	0.92	
247	249		24435		2		66.3			1		
249	251		436		2		80.4			0		
251	253		437		2		76.5			1/2		
253	255		438		2		75.1			0		
255	257		439		2		41.8			4 1/2		
257	259		24440		2		58.1			1		
306	308		24441		2		67.4			1		
308	310		442		2		22.0			7		
310	312		443		2		24.8			7		
312	314		444		2		50.4			1 1/2		
314	316		445		2		44.7			3		
316	317	C & SH.	24446		1		56.7			4		
308	312	COMPO			4'	0.4	23.6	28.7	47.3	7	0.50	
383	385		24447		2							

Rotary Drill Geological Log K-FORDING-78(3)B-4

fording COAL LIMITED

RH-668

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL			

From Ft.	To Ft.	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
0	63		19.20	Overburden
63	102			Interbedded mudstone and siltstone
102	120			Sandy siltstone
120	127	36.58	38.71	Coal 7' 2.13m
127	143			Mudstone, siltstone 130-136'
143	161			Siltstone, sandy towards bottom.
161	204			Sandstone
204	209			Mudstone
209	212	63.70	64.62	Coal 3' 0.91m
212	366			Mostly mudstone with interbedded siltstone.
366	368.5	111.56		Coal 2.5' 0.76m
368.5	377			Mudstone
377	401			Siltstone, sandy
401	464			Mudstone with siltstone bands throughout
464	472			Siltstone, sandstone band near bottom.
472	506			Mudstone with bands of siltstone.
506	517			Silty sandstone and siltstone.
517	553		168.55	Interbedded siltstone and mudstone.

END OF HOLE
JUNE 17, 1978

Hole No. RH
RH 668

Page of
1 of 1

Col

Aver.

0

322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WATER	M	A	VM	FC	PSI	S	REMARKS
118	120		25087		2		23.8			2 1/2		
120	122		088		2		15.4			3 1/2		
122	124		25089		2		30.0		--	4.		
118	124	COMPO.			6	0.7	22.7	34.6	41.8	4	0.60	
204	206	C & SH.	25090		2		45.5			1		VCM?
209	211	C & SH	25091		2		35.0			3 1/2		
211	212	" "	25092		1		37.3			3		
337	338	C & SH.	25093		1		74.2			0		
364	366		25094		2		39.2			4		
366	368		25095		2		51.0			1.		

Rotary Drill Geological Log K-FORDINS 78(3)B-4

fording COAL LIMITED

Ft KH-669

Objective:

Sampled:

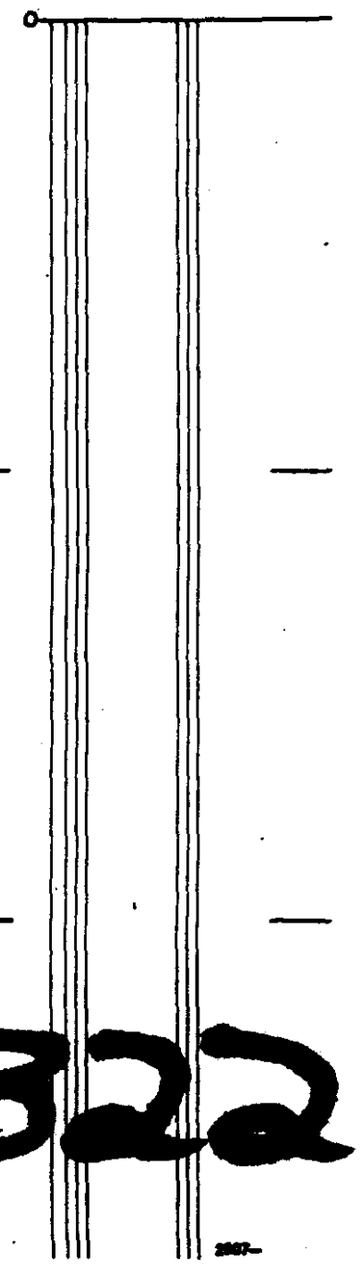
Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TURNBULL			

From Ft.	To Ft	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
0	114		34.75	Overburden (Casing 108')
114	120			Mudstone
120	163			Silty sandstone, with mudstone bands.
163	201			Siltstone
201	205	61.26	62.48	Coal 4' 1.22m
205	216			Mudstone
216	239			Sandstone, siltstone 230-235'
239	254.5			Mudstone
254.5	257	77.57		Coal 2.5' 0.76m
257	276			Mudstone
276	278	84.12		Coal 2' 0.61m
278	288			Mudstone, siltstone band near top.
288	334			Mostly siltstone with mudstone bands, mudstone near bottom.
334	338.5	101.80	103.17	Coal 4.5' 1.37m
338.5	385			Siltstone
385	402	117.35	122.53	Coal 17' 5.18m
402	453			Mudstone near top and siltstone, sandy near bottom.
453	462	138.07	140.82	Coal 9' 2.74m
462	466			4' mudstone
466	470	142.04	143.26	Coal 4' 1.22m
470	489			Top 6' mudstone and sandy siltstone.
489	493	149.05	150.27	Coal 4' 1.22m

Color Plc Aver.



Hole No. RH 669 Page 1 of 2

322

Rotary Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From Ft.	To Ft	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
493	603			Silty sandstone with bands of siltstone.
603	605			Shaley coal 2'
605	610			Mudstone
610	611.5			Shaley coal 1.5'
611.5	622			Sandstone, mudstone band near top.
622	646.5			Mudstone, near top and siltstone.
646.5	648			Coal 1.5'
648	679		206.96	Mudstone near top and sandy siltstone.
				END OF HOLE
				JULY 25, 1978

Color Plot & Dips | Ore Classes & Aver.

0

Hole No. RH 669

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
202	204		23573+574+575				53.3			1		
248	250		23576		2		68.0			1		
250	252		23577		2		79.4			0		
252	254		23578		2		79.5			0		
254	256		23579		2		83.5			0		
256	258		23580		2		71.2			1		
258	262		23581		4		80.5			0		
277	280		23582		3		70.8			1		
305	307		23583		2		67.0			1		
334	336		23584		2		42.0			5 1/2		
336	338		23585		2		46.8			4 1/2		
338	339		23586		1		MISSING					
388	390	C E J	23587		2		44.8			1		
390	392		23588		2		44.3			1		
392	394		23589		2		36.0			3		
394	396		23590		2		55.7			1		
396	398		23591		2		36.2			1		
398	400		23592		2		35.6			3 1/2		
400	402		23593		2		MISSING					
402	404		23594		2		53.4			1		
404	406	C E J	23595		2		70.8			1		
388	400	COMPO.			12	0.2	42.4	16.6	40.8	.2	0.34	SAMPLES CONTAMINATED

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
455	457		23596		2		55.4			1		
457	459		23597		2		56.4			1		
459	461		23598		2		66.6			1		
461	463		23599		2		59.3			1		
463	465	C E S	23600		2		47.9			1 1/2		
465	467	C E S	23601		2		43.6			1 1/2		
467	469		23602		2		49.0			1		
469	471	C E S	23603		2		MISSING					
493	495	C E S	23604		2		46.6			1		

DIAMOND DRILL SAMPLING RECORD

RH-104

K. FORDING 78(3)B-4

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
24	26		19618			2		37.9			6 1/2		
149	151		19576			2							
151	153		19577			2		20.4			6 1/2		
153	155		19578			2		41.8			7		
189	191		19574			2		25.8			7		
191	193		19580			2		7.8			8		
193	195		19581			2		11.1			7		
195	197		19582			2		18.2			7		
197	199		19583			2		35.0			3		
199	201		19584			2		25.0			7		
201	203		19585			2		11.8			6		
203	205		19586			2		34.7			3		
205	207		19587			2		—			—		
207	209		19588			2		—			—		
189	205	SEAM — F COMPOSITE				16'	0.4	21.4	23.5	54.7	6 1/2	0.34	
135	137		19545			2		53.4			1		
137	139		546			2		48.3			3		
141	143		547			2		6.6.3			0		
143	145		548			2		29.2			1 1/2		
145	147		19549			2		15.4			7 1/2		

322

RH-1047

DIAMOND DRILL SAMPLING RECORD

K- FORDING 28*(4) B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
41	43		22218			2		—			—		
43	45		22219			2		—			—		
45	47		22220			2		51.0			4		
73	75		22221			2		22.8			7		
160	162		22222			2		23.7			4½		
162	164		22223			2		27.2			6		
190	192		22224			2		23.8			6		
224	226	C & Sh	22151			2		—			—		
2													
274	276	SEAM- F	22152			2		20.8			1		
276	278		22153			2		13.4			1		
278	280		22154			2		12.0			1		
280	282		22155			2		28.0			1		[redacted]
282	284		22156			2		24.7			1		
284	286		22157			2		16.3			1		
286	288		22158			2		23.8			3½		
288	290		22159			2		36.3			3		
290	292		22160			2		56.0	← CHECK		1½ ✓		CHECKED
292	294		22161			2		21.0			3		FEB 78
294	296		22162			2		37.0			[illegible]		
274	294	SEAM- F COMPOSITE			11,701	20	0.5	24.2	22.0	53.3	1½	0.38	CALC AVE ASH 25.2%

Diamond Drill Geological Log

K-FORDING 78(3)B-4

RH-1048

Cominco

40 Scale

Color Plo

er.

Objective: To determine location and thickness of Seam H.

Sampled:

Logged By: R.K. Date: February 6, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South - #	1 Pit Area		48'

Intersections taken from Gamma Ray log

From	To	Discard: Reason:	ASH	VCM	FC	FSI	S	BTU
0	7	Overburden						
7	15.5	Silty Mudstone						
15.5	39.5	Coal 24' Seam - H						
		Rotary Chip Grab Sample						
39.5	46	Mudstone	25.7%	23.4%		4	0.66	10,505
46	48	Sandstone or Coal						
		End of Hole at 48'						
		January 31, 1978						

Core Size B-50 Hole

Hole No. RH 1048

Page 1 of 1

322

2507—N.D.N.

Diamond Drill Geological Log

K-Fording 78(3)B-4

RH-1049

Cominco

Objective: To determine location and thickness of seam - H

Sampled:

Logged By:

Date:

Composites:

Block	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South - # 1 Pit Area			225'

Intersections from Gamma Ray Log

From	To	Discard: / Reason:
0	8	Overburden, some mudstone near bottom (Casing 10')
8	33	Mudstone, Brown Cuttings
33	64	Coal 31' Seam - H
		Rotary Chip Grab Sample
		Ash 21.0% VCM 25.7% FC FSI 6½ S 0.78 BTU 11,849
64	74	Siltstone, grey cuttings, mudstone near top
74	107	Mudstone with thin bands of siltstone
107	111	Siltstone
111	120	Mudstone
120	128	Sandstone
128	160	Silty sandstone and sandstone
160	173	Mudstone
173	181	Sandy Siltstone
181	204.5	Siltstone and mudstone interbeds
204.5	207.5	Coal 3'
207.5	210.5	3' Mudstone
210.5	211.5	Coal 1'
211.5	225	Mostly siltstone with mudstone interbeds
		End of Hole
		February 3, 1978

Core Size B - 50 Hole

Hole No. RH 1049

Page 1 of 1

Col. 40

Aver.

0

322

2507—N.D.N.

RH-1050

DIAMOND DRILL SAMPLING RECORD

K. FORDING 78(4)B-4 * (3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
147	149												
149	151												
248	250												
250	252												
			20286			2		22.2			4		
446	448												
			20289			2		13.9			4½		510-526.5 COAL
515	517		20290			2		6.7			7		16.5
517	519		20291			2		4.7			7½		
519	521		20292			2		4.8			7½		
521	523		20293			2		3.7			6		
523	525		20294			2		6.1			7½		
525	527		20295			2		7.3			8		
527	529		20296			2		6.6			8		
529	531		20297			2		36.6			5½		
531	533				BTU								
515	531	SEAM-K COMPOSITE		13,850		16	0.7	7.0	32.0	60.3	6½	0.44	

RH-1054

DIAMOND DRILL SAMPLING RECORD

K - FORDING 78*(4) B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
93.5	94.5		16797			1		36.3			4		
72	74	C & Sh.	15741			2							
74	76	" "	15742			2		9.7			8		
76	78		15743			2		62.5			1½		
78	80		15744			2		13.1			6½		
80	82	SEAM-I	15745			2		6.9			7		
82	84		15746			2		9.9			7½		
84	86		15747			2		4.9			8		
86	88		15748			2		3.8			7½		76.5-88.5 [illegible]
88	90		15749			2		4.0			8		18(16)
90	92		15750			2		22.2			7½		
74	92	COMPOSITE			12,458	18	0.7	15.4	28.2	55.7	7½	0.58	
154	156		13695			2		34.0			4½		
156	158		13696			2		41.5			4½		
158	160		13697			2		33.7			4½		
229	231		13698			2		54.1			2½		
231	233	SEAM-H U.P.	13699			2		21.7			7		
233	235		13700			2		26.3			6½		
231	235	Comp.				4	0.6	24.2	24.7	50.5	7	0.48	

3222

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
340	342		13701			2		8.7			8		FOOTAGE SHOULD BE 240 TO 252 EVEN THOUGH TAGS SHOW 300'
342	344		13702			2		21.5			8		
344	346		13703			2		11.4			7		
346	348		13704			2		6.2			7		
348	350	SEAM - H.	13705			2		7.7			7 1/2		
350	352		13706			2		11.7			6		
352	354		13708			2		48.5			3 1/2		
354	356		13709			2		58.8			2		
240	252	SEAM - H. COMPOSITE		12,354		12'	0.5	11.3	28.5	59.7	7	0.40	
363	364	C & Sh.	13710			1		48.1			2 1/2		
343	345	C & Sh.	13711			2		7.3			1		
346	348		13712			2		25.2			4		
348	350		13713			2		67.2			1		
351	353		13714			2		13.9			4		
353	355	SEAM - G	13715			2		7.2			7 1/2		
355	357		13716			2		8.9			7		
351	357	COMPOSITE				6'	0.6	10.1	25.8	63.7	6 1/2	0.64	

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
378	380		13717			2		42.6			5		
407	409		13718			2		16.0			7		
409	411		13719			2		25.1			6 1/2		
411	413		13720			2		19.7			6		
413	415		13721			2		40.3			2 1/2		
407	413	COMPOSITE				6'	0.8	20.9	24.8	53.5	6 1/2	0.76	11.23 B.T.U.
459	461		17376			2		26.8			2 1/2		
461	463		17377			2		20.4			7		
464	465		17378			1		29.4			6		
533	535		17351			2		76.3			1		
535	536		17352			1		82.4			0		

RH-1055

DIAMOND DRILL SAMPLING RECORD

K-FORDING 78*(4) B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
62	64		17426			2		43.4			4 1/2		
64	66		17427			2		12.8			7 1/2		
66	68		17428			2		41.1			6		
85	87		17429			2		16.7			7 1/2		
87	89		17430			2		25.0			6 1/2		
89	90		17431			1		55.3			3		
85	89	COMPOSITE		11,417		4	0.6	21.2	27.2	51.0	7 1/2	0.68	
117	119		17432			2		6.5			8 1/2		
119	121		17433			2		9.8			8		
121	123		17434			2		8.9			8		
123	125		17435			2		3.3			8		
125	127		17436			2		4.7			8 1/2		
127	129		17437			2		—			—		
129	131		17438			2		45.5			4 1/2		
131	133	C & Sh.	17439			2		47.4			4		
117	127	SEAM-H COMPOSITE		14,160		10'	0.5	7.0	30.1	62.4	8	0.48	
246	248		17440			2		35.4			5		
255	257		17441			2		27.3			5		
257	259		17442			2		6.7			8		
259	260		17443			1		10.1			8		
255	260	SEAM-GU COMPOSITE		12,504		5'	0.6	15.0	25.3	59.1	7	0.64	

322

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
335	337	C & Sh.	17444			2		21.7			5		
337	339	" "	17445			2		34.5			5 1/2		
3													
341	343		17446			2		14.0			5		
343	345		17447			2		8.4			7		
345	347		17448			2		18.9			6 1/2		
341	347	SEAM - G1 ✓ COMPOSITE		12,282		6'	0.6	14.5	25.4	59.5	5 1/2	0.60	
365	367	C & Sh.	17449			2		29.3			6 1/2		
3													
376	378		17450			2		14.2			7 1/2		
378	380		17412			2		20.4			7 1/2		
380	382		17413			2		30.7			6		
382	384		17414			2		34.1			3 1/2		
384	386		17415			2		76.4			1/2		
376	384	SEAM - G1 ✓ COMPOSITE		11,019		8'	0.5	25.9	24.1	49.5	6 1/2	0.62	
427	429		17416			2		34.8			2 1/2		
429	431		17417			2		16.0			7 1/2		
431	433		17418			2		18.7			8		
427	433	SEAM - FM3 ✓ COMPOSITE		11,279		6	0.5	23.7	23.7	52.1	6 1/2	0.70	
481	483		17419			2		67.5			1		

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
484	486		17420			2		49.4			3 1/2		
486	488		17421			2		48.5			3		
488	489		17422			1		32.2			7 1/2		
496	498		17423			2		67.5			1		
498	499		17424			1		64.4			1		

DIAMOND DRILL SAMPLING RECORD

RH-1059

K-FORDING 78*(4) B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
76	78		16691			2		24.5			7		
84	86		16692			2		31.1			7		
128	130	SE AM — GU	16693			2		20.5			5 1/2		
130	132		16694			2		7.4			7 1/2		
132	134		16695			2		7.8			7		
134	135		16696			1		44.0			4 1/2		
128	134	✓ COMPOSITE		12,882		6'	0.7	12.0	25.3	62.0	6 1/2	0.74	
176	177		16697			1		44.6			4 1/2		
181	183	SE AM — GL.	16698			2		29.1			7		
183	185		16699			2		24.9			6		
185	186		16700			1		49.6			2		
181	183	✓ COMPOSITE				4'	0.7	27.5	27.6	44.2	6 1/2	0.82	
187	189		17476			2		45.9			3 1/2		
228	230	SE AM — FM 3	17477			2		32.4			5		
230	232		17478			2		9.7			8		
232	233		17479			2		16.0			8 1/2		
228	233	✓ COMPOSITE		11,847		6'	0.6	19.9	24.6	54.7	7	0.64	
237	239		17480			2		48.2			8		

232

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
288	290		17481			2		60.7			2		
290	292	SEAM	17482			2		60.8			3 1/2		
292	294		17483			2		32.7			5		
294	296	-FM 2	17484			2		35.1			6 1/2		
296	298		17485			2		27.8			6		
298	299		17486			1		45.0			4		
292	298	COMPOSITE		9.773		6	0.6	31.7	20.3	46.8	6	0.77	
336	338		17487			2		51.2			3 1/2		
398	400		17488			2		67.0			1		
400	402		17489			2		14.9			2 1/2		
402	404		17490			2		10.5			3		
404	406		17491			2		8.7			4		
406	408		17492			2		19.0			3 1/2		
408	410	SEAM - F	17493			2		23.2			1 1/2		
410	412		17494			2		13.4			3 1/2		
412	414		17495			2		13.8			6		
414	416		17496			2		24.8			6		
416	418		17497			2		41.2			3		
418	420		17498			2		22.8			4 1/2		
420	422		17499			2		11.9			5 1/2		
422	424		17500			2		SAMPLE LOST					
424	426		17451			2		13.2			7		
400	426	COMPOSITE		24		26	0.7	18.2	22.0	59.1	4	0.42	BTU 11,786
434	436		17452			2							
439	441		17453			2							

RH-1060

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S
46	48		19926			2		36.4			2	
48	50	SEAM - I	19927			2		22.6			6 1/2	
50	52		19928			2		13.1			7	
52	54	C & Sh.	19929			2						
54	56	" "	19930			2		53.2			2	
46	52	COMPOSITE		10,941		6	0.8	24.3	23.5	51.4	5	0.48
180	182		19931			2		36.6			3	
182	184	SEAM - H	19932			2		13.8			7	
184	186		19933			2		11.5			7	
186	188		19934			2		8.4			7 1/2	
188	190		19935			2		9.2			7 1/2	
182	190	COMPOSITE		12,782		8'	0.8	10.3	27.8	61.1	8	0.68
193	195	C & Sh.	19936			2		80.0			1/2	
196	198	C & Sh	19937			2		57.0			3	
202	204		19938			2		29.1			6 1/2	
204	206		19939			2		50.6			2 1/2	
231	233		19940			2		25.5			7	
270	272	P.A. 4-3 FSI -	19941			2		28.4			4	
272	274		19942			2		53.3			1	
270	272		19941			2	0.4	28.5	22.1	49.0	4	0.62

322

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S
314	316	C & Sh.	19943			2		56·4			2½	
416	418	C & Sh.	19944			2		28·6			4	
418	420	" "	19945			2		28·4			6½	
416	420	COMPOSITE				4	0·3	28·7	21·7	49·3	5½	0·82
425	427	C & Sh.	17055			2		60·1			1	
497	499		19946			2		15·9			1½	
499	501		19947			2		11·5			1½	
501	503		19948			2		11·3			1½	
503	505		19949			2		24·0			1½	
505	507		19950			2		28·9			1	
507	509		17051			2		25·9			2½	
509	511	C & Sh.	17052			2		46·1			1½	
511	513		17053			2		17·5			3	
513	515		17054			2		14·3			7.	
497	515	COMPOSITE		11,515		18	0·4	21·7	21·3	56·6	2½	0·28

SEAM-F

Page No. 2 of 2 Pages. 421 1060

RH-1061

DIAMOND DRILL SAMPLING RECORD

K. FORDING 78*(4) B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
86	88		20477			2		11.6			3 1/2		
88	90		20478			2		13.5			7		
90	92		20479			2		9.5			7		7.5'
92	94		20480			2		65.7			1		
94	96		20481			2		52.4			1		
96	98		20482			2		63.5			1		
98	100		20483			2		73.9			1/2		
86	92	✓COMPOSITE			13,067	6	0.6	12.1	26.8	60.5	6 1/2	0.54	
217	219		20485			2		54.8			1 1/2		
219	221		20486			2		54.1			2 1/2		
221	223		20487			2		17.5			7 1/2		6'
223	225		20488			2		13.7			7		
225	227		20489			2		—			—		
227	229		20490			2		29.3			5		
221	229	✓COMPOSITE			11,642	6/8 *	0.6	21.3	26.6	51.5	7	0.50	* 2' SAMPLE LOST
234	236		20491			2		55.3			3 1/2		
242	244		20492			2		25.7			7		
244	246		20493			2		26.3			7		
242	246	✓COMPOSITE				4	0.5	26.6	30.0	42.9	6 1/2	0.50	
248	250		20494			2		—			—		
250	252		20495			2		36.5			5		
252	254		20496			2		71.0			1/2		
248	250		20284			2		28.8			4 1/2		
250	252		20285			2		59.7			1		

322

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
264	268		20457			2		14·7			7		
268	269		20458			1		45·2			4½		
310	312		20499			2		15·7			4		
312	314		20500			2		7·8			7		
314	315		20276			1		—			—		
310	314	✓ COMPOSITE				4	0·6	13·1	24·8	61·5	5	0.69	
409	411		20277			2		78·4			0		
411	413		20278			2		12·7			7½		
413	415		20279			2		24·5			7½		
411	415	✓ COMPOSITE				4	0·5	19·4	24·4	55·7	7½	0·70	
418	420	C & Sh.	20280			2		68·1			1		
420	422	" "	20281			2		77·0			0		
147	149		20282			2		4·8			5½		
149	151		20283			2		17·3			6½		
147	151	✓ COMPOSITE				4	0·9	11·1	34·8	53·2	6½	0·66	
424	426		17056			2		18·8			6		
426	428	C & Sh.	17057			2		54·9					
443	445	C & Sh.	17058			2		50·8			1		

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
528	530		17059			2		26.4			3		
530	532		17060			2		7.7			2½		
532	534		17061			2		7.5			4		
534	536	SEAM - F	17062			2		21.9			2½		
536	538		17063			2		23.0			1½		
538	540		17064			2		19.8			2½		
540	542		17065			2		9.4			6		
542	544		17066			2		31.8			5		
544	546		17067			2		45.0			1½		
546	548		17068			2		15.3			2½		
548	550		17069			2		19.9			5½		
528	550	SEAM - F COMPOSITE		11,564		22'	0.4	22.1	21.8	55.7	3	0.36	CALC AVE A. 20.8%
563	565		17070			2		43.4			2½		

RH-1064

DIAMOND DRILL SAMPLING RECORD

K. FORDING 78*(4) B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
AR	50		16906			2							
50	52		16907			2		53.2			3		
52	54		16908			2		8.4			7		
54	56		16909			2		10.7			7 1/2		
56	58		16910			2		51.4			5		
52	56	COMPOSITE		13,448		4	0.9	9.4	31.4	58.5	7	0.72	
78	80		16911			2		17.6			7 1/2		
80	82		16912			2		56.6			2 1/2		
82	84	C & Sh.	16913			2		32.7			6		
100	102	C & Sh.	16914			2		47.8			3		
104	106		16915			2		27.7			5 1/2		
106	108		16916			2		28.2			6 1/2		
108	110		16917			2		24.1			6 1/2		
110	112		16918			2		20.9			7		
112	114	C & Sh.	16919			2		33.4			5 1/2		
104	114	SEAM - "J" COMPOSITE		10,456		10	0.8	26.7	26.3	46.2	6	0.62	
135	137		16876			2		26.2			8		
137	138	C & Sh.	16877			1		65.7			5		
161	163	C & Sh.	16878			2		42.8			4		
252	254		16879			2		64.7			3		

322

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
~~259~~	260		16880			1		63.8			2		
267	269		16920			2		52.2			3 1/2		
269	271		16921			2		22.9			5 1/2		
271	273		16922			2		8.4			7 1/2		
273	275	SEAM - I	16923			2		9.0			7		267 - 281 CoAl
275	277		16924			2		2.8			8		14.
277	279		16925			2		3.2			7		
279	281		16881			2							
281	283		16882			2	31.9*	~~68.0~~			6 1/2		CHECKED. ASH %
283	284		16883			1		63.0			2		
~~269~~	279	SEAM - I COMPOSITE		12,859		10	0.4	13.1*	28.7	57.4	7	0.47	*CALC. AVE. ASH 9.3 %
288	290		16884			2		26.3			4 1/2		
293	295		16885			2		61.3			1		
295	296		16886			1		63.9			1		
309	311		16887			2		22.8			6 1/2		
309	311		16887			2	0.4	25.1	24.9	49.6	7	0.70	
315	317		16888			2		10.8			6		
317	319		16889			2		15.3			8		
317	320		16890			2		59.2			1 1/2		
315	319	COMPOSITE		12,801		4	0.6	14.1	28.0	57.3	7 1/2	0.67	
414	416		16891			2		45.2			3 1/2		
416	418		16892			2		15.6			8		
418	420		16893			2		27.8			7 1/2		

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BIT.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
420	422		16894			2		4.9			5		
422	424	SEAM - H	16895			2		7.7			8 1/2		
424	426		16896			2		15.1			8		
426	428		16897			2		9.2			7 1/2		
428	430		16898			2		10.4			7		
430	432		16899			2		7.1			7 1/2		
432	434		16900			2		10.5			6 1/2		
434	436		16851			2		44.0			2 1/2		
436	438		16852			2		37.9			2 1/2		
416	434	SEAM - H COMPOSITE		12,	254	18'	0.7	17.1	27.2	55.0	6 1/2	0.44	
443	445		16853			2		30.0					
494	496		16854			2		49.8			1/2		
496	498		16855			2	27.9	~~38.4~~			6 1/2		CHECKED FEB 18
498	500	SEAM - GU	16856			2		26.1			3 1/2		
500	502		16857			2		—			—		
502	504		16858			2		14.1			7 1/2		
504	506	C & Sh.	16859			2		47.0			2 1/2		
		COMPOSITE											
540	542	C & Sh.	16860			2		12.4			4 1/2		
542	544	" "	16861			2		17.2			4		
540	544	COMPOSITE											
550	552	SEAM - GL	16862			2		26.0			7		
552	554		16863			2		—			—		
554	556		16864			2		9.2			5 1/2		
556	558		16865			2		44.7			2		
550	556	COMPOSITE				4/6.							2' SAMPLE LOST.

DIAMOND DRILL SAMPLING RECORD

RH-1076

K-FORDING 78*(4)B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
84	86		17071			2		50.3			1		
288	290		17751			2		66.2			1		
288	290		17072			2		48.7			2 1/2		
290	292	C&Sh.	17073			2		54.6			2 1/2		
292	294	" "	17074			2		55.6			2 1/2		286.5-294.5
294	296	" "	17075			2							
296	298	" "	17752			2		56.3			2		
433	435		17753			2		38.3			4		
435	437		17754			2		17.6			7 1/2		
437	439		17755			2		15.4			7		
439	441		17756			2		16.7			2		
441	443	C&Sh.	17757			2		58.2			1		
433	441	COMPOSITE		11,508		8'	0.4	23.5	21.6	54.5	6	0.54	
447	449		17758			2		59.5			1		
449	451		17759			2		38.2			1		434-443'
451	453		17760			2		18.6			1 1/2		
453	455		17761			2		13.3			3		
455	457		17762			2		11.5			3		
457	459		17763			2		18.1			2		
459	461		17764			2		18.7			4 1/2		446-470'
461	463		17765			2		23.5			3 1/2		
463	465		17766			2		29.5			3		
465	467		17767			2		34.2			2		
467	469	C.C.Sh.	17768			2		48.9			2		
449	467	SEAM - F COMPOSITE		12,347		18'	0.4	23.4	20.5	55.7	2 1/2	0.26	

322

Page No. 1 OF 2 Pages. 1076

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BT 6'	WIDTH	M	A	VM	FC	FSI	S	REMARKS
522	524		17769			2		29.0			3 1/2		RAD. LEG 524-532
524	526		17770			2		21.1			6 1/2		
526	528	C & Sh.	17771			2		41.6			3 1/2		
522	526	✓ COMPOSITE		11,420.		4	0.4	25.3	20.3	54.0	4 1/2	0.55	
566	568		17772			2		29.7			2		
568	570		17773			2		17.7			5 1/2		565-572 (C)
570	572		17774			2		27.6			4 1/2		
572	574	C & Sh.	17775			2		54.2			4		
566	572	COMPOSITE		11,514		6	0.6	24.7	20.0	54.7	4	0.50	
592	594	C & Sh P.A & J FSI →	17801			2		31.1			5		
594	596	" "	17802			2		46.8			3		
596	598	" "	17803			2		68.1			1.		
592	594		17801			2	0.7	31.0	14.5	48.8	5	0.58	

RH-1086

DIAMOND DRILL SAMPLING RECORD

K-FORDING 78*(4) B.4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
72	74		19851		2		27.4			6 1/2		
74	76		19852		2		10.3			7 1/2		
76	78		19853		2		8.2			7		
78	80		19854		2		25.4			7		
80	82		19855		2		30.4			5 1/2		
82	84		19856		2		14.0			6 1/2		
84	86		19857		2		12.7			2 1/2		
86	88		19858		2		74.3			0		
88	90		19859		2		33.4			5 1/2		
72	86	SEAM – H ✓ COMPOSITE		11,476	14'	0.7	19.1	23.7	56.5	7	0.66	
163	165		19860		2		46.1			5 1/2		
165	167		19861		2		44.5			3		
167	169		19862		2		25.4			2 1/2		
169	171		19863		2		16.8			6		
171	173		19864		2		20.8			7		
173	175		19865		2		57.3			3 1/2		
175	177		19866		2		54.4			2 1/2		
163	173	V COMPOSITE		10,552	10'	0.6	27.9	22.2	49.3	4 1/2	0.58	
267	267		19867		2		61.6			1		
267	269		19868		2		—			—		
269	271		19869		2		45.6			1		
271	273		19870		2		32.2			1		
273	275		19871		2		3.4			3		
275	277		19872		2		28.2			1		
277	278		19873		1		19.8			1		
271	277	COMPOSITE		9,913	6'	0.6	32.1	19.2	48.1	1 1/2	0.47	

227

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
279	281		19874			2		67.9			1		
281	283		19875			2		63.6			1		
356	358		19876			2		69.3			1		
358	360		19877			2		23.6			3½		
360	362		19878			2		16.8			1½		
362	364		19879			2		13.2			2		
364	366		19880			2		24.6			2½		
366	368		19881			2		39.5			1		
368	370		19882			2		29.7			4½		
370	372		19883			2		22.7			5½		
372	374		19884			2		39.7			3½		
374	376	SEAM - E	19885			2		28.1			1		
376	378		19886			2		12.0			2		
378	380		19887			2		9.7			4		
380	382		19888			2		36.3			1½		
382	384		19889			2		22.4			1½		
384	386		19890			2		12.2			6		
386	388		19891			2		34.7			7		
388	389	CE SH	19892			1							
358	388	SEAM - E COMPOSITE			11,646	30'	0.7	24.8	19.2	55.3	2	0.33	

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
498	500		20169			2		28.0			1 1/2		
500	502		20170			2		18.7			3 1/2		
502	504		20171			2		16.8			1 1/2		
504	506		20172			2		13.5			2 1/2		
506	508		20173			2		14.9			1		
508	510		20174			2		13.3			2 1/2		
510	512	SEAM - D	20175			2		12.3			2 1/2		
512	514		20209			2		20.0			2		
514	516		20210			2		15.7			1 1/2		
516	518		20211			2		11.8			1 1/2		
518	520		20212			2		18.4			1 1/2		
520	522		20213			2		13.8			1 1/2		
522	524		20214			2		14.7			2		
524	526		20215			2		16.5			1 1/2		
526	528	C & SW	20216			2		32.7			1		
498	528	SEAM - D COMPOSITE				30'	0.4	19.3	19.4	60.7	1 1/2	0.24	

DIAMOND DRILL SAMPLING RECORD

RH-1090

K-FORDING 78*(4) B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
123	125		20038			2		24.6			7		
125	127		20039			2		30.6			6		
127	129		20040			2		10.7			8		
129	131	C & Sh.	20041			2		24.6			7 1/2		
123	131	✓ COMPOSITE		11,934		8'	0.7	21.8	26.4	51.1	8	0.60	
153	155	C & Sh.	20042			2		63.3			1		
155	157	C & Sh.	20043			2		26.9			3		
157	159	" "	20044			2		47.6 ✓			3 1/2 ✓		CHECKED
159	161	" "	20045			2		43.4			2 1/2		FEB 78.
161	163	" "	20046			2							
155	157		20043			2	0.4	27.0	20.7	51.9	2	0.59	
167	169	C & Sh.	20047			2		42.9			1 1/2		
189	191		20048			2		38.3			4 1/2		
191	193	P.A. & FSI.	20049			2		29.3			4		
193	195		20050			2							
191	193		20049			2	0.6	30.1	19.9	49.4	3	0.51	
315	317		19529			2		29.9			1		
317	319		19530			2		31.7			2 1/2		
319	321		19531			2		42.4			1 1/2		
321	323		19532			2		21			4 1/2		
323	325		19533			2		55.0			2 1/2		
315	323	✓ COMPOSITE		8,575		8'	0.6	31.9	17.4	50.1	2 1/2	0.40	
348	350		19534			2							

322

DIAMOND DRILL SAMPLING RECORD

RH-1092

K-FORDING 78*(4) B-4*(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
16	18		19666			2		21.0			7		
18	20		19667			2		39.1			7		
128	130		19535			2							
130	132		19536			2		22.5			6 1/2		
132	134		19537			2		8.1			6 1/2		
134	136	SEAM - I	19538			2		7.0			6		129.5 - 147 (17.5)
136	138		19539			2		8.0			7		
138	140		19540			2		—			—		
140	142		19541			2		12.3			7		
142	144		19542			2		—			—		
144	146		19543			2		—			—		
146	148		19544			2		60.6			1		
128	142	SEAM - I ✓COMPOSITE		13,022		10/14	0.7	11.1	27.4	60.8	6 1/2	0.54	
205	207		19668			2		34.6			6 1/2		
207	209		19669			2		59.4	← CHECK		11/2	← CHECK (USED IN BTU)	
209	211		19670			2		28.2			6 1/2		
387	389		19601			2		17.3			8		
389	391		19602			2		29.6			4 1/2		
391	393		19609			2							
393	395	SEAM - II	19610			2		9.7			7 1/2		
395	397		19611			2		11.8			7		
397	399		19602			2							
399	401		19603			2							

322

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
401	403		19604			2							
403	405		19605			2		28.0			7		
405	406	C & Sh.	19606			1		77.7		—	1/2		
387	405	SEAM - H ✓ COMPOSITE		12,062	10	18*	0.8	14.7	26.9	52.4	8	0.53	* 8' SAMPLE LOST
414	416	C & Sh.	19612			2							
416	418	" "	19613			2		77.7			0		
550	552	C & Sh.	19614			2		25.3			4		
552	554	C & Sh.	19615			2		14.4			7		
554	556	" "	19616			2							
556	558	" "	19617			2		22.4			6		
550	558	COMPOSITE		12,028		6/8*	0.7	21.2	23.8	54.3	6	0.49	* 2' SAMPLE LOST

DIAMOND DRILL SAMPLING RECORD

RH-1095

K. FORDING 78 (4)B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
106	108		17294			2		19.3			5 1/2		
108	110		295			2		10.7			7		
110	112		296			2		14.4			7		
112	114		297			2		15.4			7		
114	116		298			2		36.8			2 1/2		
116	118		299			2		33.3			1		
118	120		17300			2		23.8			1 1/2		
120	122	SE	19621			2		67.5			1		
122	125	SHALE.	—			3'							
125	127	A	19622			2		34.2			1		
127	129	W	—			2							
129	131		19623			2		18.8			2		
131	133	-F	19624			2		13.2			2 1/2		
133	135	19625	22001			2		48.4			1		122.5 -140' COAL
135	137		22002			2		23.6			2 1/2		
137	139		22003			2		42.1			1		2' SHALE
139	141		22004			2		27.2			4		
141	143	C & SH.	22005			2		69.0			1		
				BTU.									
106	120	COMPOSITE		12,202		14'	0.7	21.4	21.0	56.7	4 1/2	0.48	
125	141	COMPOSITE		9,913	14	16'	0.6	30.1	21.4	47.9	2 1/2	0.58	
217	219		22026			2		29.2			3		
219	221		22027			2		26.2			1 1/2		
221	223		22028			2		26.7			1 1/2		
223	225		22029			2		21.9			2		
225	227		22030			2		41.0			1		CHECKED FEB 1/78
227	229		22031			2		58.4			1/2		
229	231		22032			2		76.6			0		
231	233		22033			2		81.1			0		

322

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
233	235	C&Sh.	22034			2		74·2			1/2		
235	237	" "	22035			2		77·8			0		
237	239	" "	22036			2		77·4			0		"
217	225	COMPOSITE		10,696		8'	0·8	26·6	18·4	54·2	1 1/2	0·44	
547	549		22006			2		29·0			1		
549	551		22007			2		18·9			2		
551	553		22008			2		17·9			5		
553	555		22009			2		25·4			6 1/2		
555	557		22016			2		74·5			1/2		CHECKED FEB 10
557	559		22012			2		23·2			4		
559	561		22013			2		27·5			5 1/2		
561	563		22014			2		54·2			2		
563	565		22015			2		7·4			1		
565	567		22016			2		74·8			1		
567	569		22017			2		79·6			1/2		
547	561	COMPOSITE				14	0·7	31·5	17·6	50·2	3 1/2	0·46	

RH-1097

DIAMOND DRILL SAMPLING RECORD

K. FORDING 78 *(4) B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
80	82		22051			2		20.4			6		
82	84		22052			2		12.5			2		
84	86		22053			2		19.5			2 1/2		
86	88		22054			2		35.6			5		
88	90		22055			2		40.4			1		
90	92		22056			2		17.5			1		
92	94		22057			2		31.1			2		
94	96		22058			2		51.2			1		
96	98		22059			2		30.8			3 1/2		
98	100		22060			2		27.8			7		
100	102		22061			2		6.5.2			1		
80	100	SEAM - F COMPOSITE		10,738		20	0.2	29.2	20.5	50.1	4	0.37	
123	125		22062			2		34.2			3		
125	127		22063			2		13.0			5 1/4		
127	129		22064			2		16.9			6.5		
129	131		22065			2		32.3			7		
123	131	COMPOSITE		11,421		8	0.3	23.9	21.0	54.8	5 1/2	0.60	
149	151		22066			2		65.0			1		
151	153		22067			2		73.2			1		
208	210		22068			2		58.8			1		
210	212		22069			2		49.4			1		
212	214		22070			2		40.5			1 1/2		
214	216		22071			2		25.6			2 1/2		
216	218		22072			2		36.0			1 1/2		
218	220		22073			2		25.7			3		
220	222		22074			2		26.1			5		

322

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET BTU		WIDTH	M	A	VM	FC	FSI	S	REMARKS
222	224		22075			2		57.9			1		
224	226					2							
214	222	COMPOSITE		10,321		8'	0.4	28.4	19.7	51.5	2 1/2	0.47	

KH-1098

DIAMOND DRILL SAMPLING RECORD

K. FORDING 78 *(4) B-4 *(3)

SAMPLES TAKEN -

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
140	142		20626			2		55.6			1 1/2		
142	144		20627			2		27.4			7 1/2		
144	146		20628			2		53.1			4		
151	153		20629			2		70.3			1/2		
317	319		20630			2		43.9			2		
319	321		20631			2		18.0			7		
321	323		20632			2		19.7			4 1/2		
323	325		20633			2		20.1			7 1/2		
325	327		20634			2		41.0			1		
327	329		20635			2		69.3			1/2		
319	325	SEAM-F ✓ COMPOSITE		12,	118	6' 1	0.3	19.6	22.6	57.5	6	0.52	
334	336		20636			2		56.6			1/2		
336	338		20637			2		61.2			1/2		
338	340		20638			2		74.6			0		
363	365		20639			2							
365	367		20640			2		17.0			2 1/2		
367	369		20641			2		27.1			4		
369	371		20642			2		15.7			7 1/2		
371	373		20643			2							
365	371	SEAM-F LWR. ✓ COMPOSITE		11,	604	6.1	0.2	29.7	21.3	58.8	5	0.52	

322

DIAMOND DRILL SAMPLING RECORD

RH-1101

K-FORDING 78 *(4) B-4 *(3)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
24	26		22076			2		34.3			5 1/2		
26	28		22077			2		14.4			3 1/2		
24	28	✓ COMPOSITE				4	0.6	25.3	19.6	54.5	4	0.65	
83	85		22047			2		35.4			1 1/2		
85	87		22048			2		30.8			3 1/2		
87	89		22049			2		11.0			2 1/2		
89	91		22050			2		22.5			7		
91	93		22078			2		18.7			3 1/2		
93	95		22079			2		22.3			1 1/2		
95	97		22080			2		23.7			1 1/2		
97	99	C & Sh.	22081			2		71.2			1/2		
83	97	✓ COMPOSITE		11,	124	14	0.6	23.7	20.2	55.5	2 1/2	0.50	
125	127	C & Sh.	22082			2		18.3			1		
350	352		22083			2		70.1			0		
352	354		22084			2		46.0			1/2		
354	356		22085			2		50.2			1		
356	358		22086			2		22.8			4 1/2		
358	360		22087			2		13.4			7		
360	362		22088			2		30.2			4		
362	364		22089			2							
364	366		22090			2							
366	368		22091			2							
368	370		—									/	
356	362	✓ COMPOSITE		11,	596	6	0.4	21.5	22.6	55.3	5 1/2	0.46	

Page No. 1 OF 1 Hole No. RH 1101

Diamond Drill Geological Log

K. Fordink 78(3)B-4

RH 1103

Cominco

Objective:

Sampled:

Logged By R.K. Date: February 13/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South - #1 Pit area.			43'

From	To	Discard: Reason:
		Intersections taken from Gamma Ray Log
0	23	Coal 23'
23	26	3' Mudstone — 37' (34') Seam - H
26	37	Coal 11'
37	40	Mudstone
40	43	Siltstone
		Hole was collared in Coal Seam
		End of hole at 43'.
		February 10, 1978

Core Size

Hole No. RH 1103

Page 1 of 1

322

Diamond Drill Geological Log

K-Forcing 78(3)B-4

RH-1104

Objective:

Sampled:

Logged By: R.K. Date: January 26, 1978

Composites:

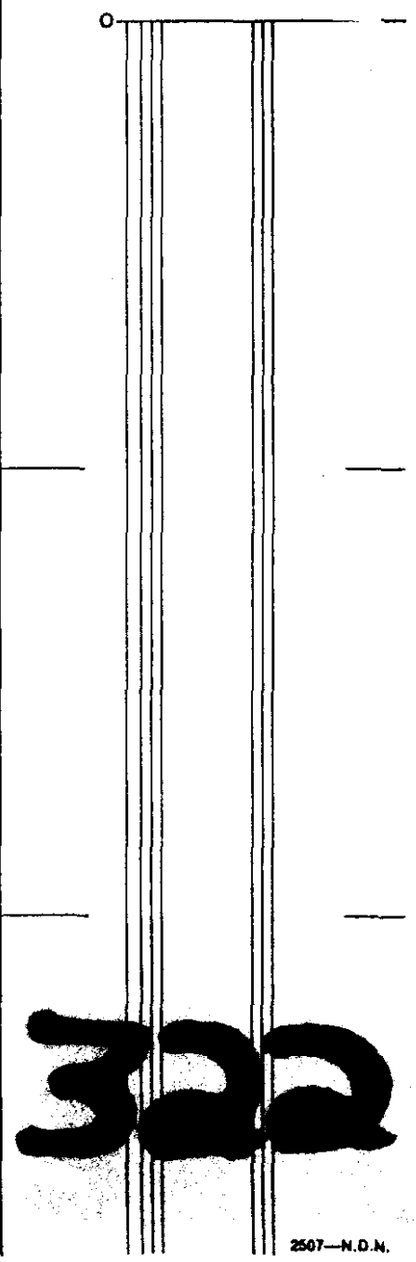
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South - Burnt Ridge Area			160'

From	To	Discard:	Reason:
		Intersections taken from Gamma Ray Log	
0	14	Overburden (Casing - 17')	
14	51	Mostly mudstone with siltstone bands.	
51	55	Coal 4'	
55	68	Mudstone	
68	80	Siltstone, mudstone bands	
80	88	Mudstone	
88	109	Interbedded siltstone and mudstone	
109	136.6	Coal 27.5'	
136.5	160	Mudstone	
		End of Hole	
		January 20, 1978	

Core Size

B 50 Hole - No Samples

Hole No. RH 1104



322

Diamond Drill Geological Log

K-FORDING 78(3)B-4

RH-1105

Objective: To determine location and thickness of Seam - H. Sampled:

Logged By: R.K. Date: Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South			200'

From	To	Discard: Intersections taken from Gamma Ray - Neutron Log	Reason:
0	11	Overburden (casing 16')	
11	25	Mudstone	
25	27.5	Siltstone, grey cuttings	
27.5	40	Mudstone, brown cuttings	
40	57	Coal 17'	
57	61	4' Mudstone	
61	63	Coal 2'	SEAM — H
63	65	2' Mudstone	
65	67.5	Coal 1.5'	
67.5	90	Mostly Mudstone some siltstone, grey	
90	94	Coal 4'	
94	100	Mudstone and siltstone	
100	101.5	Coal 1.5'	
101.5	106	Mudstone	
106	118.5	Siltstone	
118.5	126	Mudstone	
126	129	Silty sandstone	
129	131	Mudstone	
131	146	Siltstone	
146	163	Mudstone	
163	181	Siltstone	
181	200	Sandstone	
		End of Hole - February 8, 1978	

Core Size B - 50 Drill

Hole No. RH 1105 Page 1 of 1

322

2507—N.D.N.

Diamond Drill Geological Log

K-Fording 78(3)B-4

RH-1106

Objective: To determine location and thickness of Seam - H. Sampled:

Logged By: R.K. Date: Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South			46'

From	To	Discard: Intersections taken from Gamma Ray Log	Reason:
0	5	Overburden and or mudstone	
5	30.5	Coal 25.5'	
30.5	35.5	Mudstone	Seam - H
35.5	42.5	Coal 7'	
		Rotary Chips - Coal Grab Sample (# 22475)	
		Ash VCM FSI S BTU	
42.5	46	Mudstone	
		End of Hole	
		February 9, 1978	

Core Size B - 50 Drill

Hole No. RH 1106 Page 1 of 1

322

2507—N.O.N.

Diamond Drill Geological Log

K-Fording 78(3)B-4

Cominco

RH-1107

Objective:

Sampled:

Logged By: R.K. Date: February 6, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South			290'

From	To	Discard: for 265' Intersections taken from Gamma Ray Log — Reason:
0	42	Mostly siltstone with mudstone bands
42	52	Mudstone
52	67	Coal 15' Seam - D
67	112	Silty mudstone with several siltstone interbeds
112	124.5	Coal 12.5' Seam - D1
124.5	151	Siltstone, sandstone 130 -134'
151	169	Siltstone, grading progressively to sandstone towards the bottom
169	227	Sandstone
227	234	Sandstone ?
234	243	Coal 9'
243	251	8' Mudstone
251	262	Coal 11' Seam - B
262	265	3' Mudstone
265	275	Coal 10' (Drillers Report)
275	290	Mudstone

End of Hole

January 28, 1978

Core Size B-50 Hole, No Samples

Hole No. RH 1107 Page 1 of 1

322

2507—N.D.N.

Diamond Drill Geological Log

K - FORDING 78(3)B-4

RH 1108
-1109

Objective:

Sampled:

Logged By R.K. Date: February 15, 1978

Composites:

Block	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South - #1 Pit	Area		

From	To	Discard. Reason:
		Intersections taken from Gamma Ray Log
		RH 1108
0	24	Overburden
24	27	Mudstone
27	29	Coal 2', Coal band below Seam H
29	35	Siltstone
		End of Hole at 35'
		RH 1109
0	2	Overburden
2	15.5	Coal 13.5' } Seam - H
15.5	22	6.5' Mudstone } Seam - H
22	34	Coal 12' } Seam - H
34	40	Siltstone
		End of Hole at 40'

Core Size B 50 Hole

Hole No. RH 1108
RH 1109

Page

322

Diamond Drill Geological Log

K-Forming 78(3)B-4

Cominco

RH-1110

Objective:

Sampled:

Logged By: R.K. Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills #1 Pit Area			55'

From	To	Discard: Reason:
		Intersections from Gamma Ray Log
0	21	Overburden (Casing 20)
21	28.5	Coal 7.5', Bottom part Seam - H
28.5	36	Mudstone, coaly shale
36	38	Coal 2'
38	43	Mudstone
43	55	Siltstone with mudstone interbeds.
		End of Hole
		February 15, 1978

Core Size B 50 Hole

Hole No. RH 1110 Page

322

Diamond Drill Geological Log

K - Fording 78(3)B-4

RH - 1111

Objective:

Sampled:

Logged By: R.K. Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length
		Greenhills South No. 1 Pit Area			40'

From	To	Discard: Reason:
		Intersections taken from Gamma Ray Log
0	4.5	Overburden
4.5	17.5	Coal 13'
17.5	20	2.5' Mudstone } SEAM – H
20	25.5	Coal 5.5'
25.5	40	Mudstone, some siltstone near bottom

End of Hole

February 16, 1978

Rotary Chips	Coal Seam - H	Grab Sample
Ash	V.C.M.	F.S.I.	B.T.U.
24.5	26.9	7	11,333

Core Size B 50 Drill

Hole No. RH 1111 Page

322

Diamond Drill Geological Log

K-FORDING 78(3)G-4

Cominco

RH-1112
-1113

Logged By: R.K.　　Date: February 22, 1978

Sampled:

Composites:

Sect.:　　Place: Greenhills South #1 Pit Area　　App. Bear:　　App.: Dip.:　　Length:

Discard:　　Reason:

Intersections taken from Gamma Ray Log

From	To	
		RH 1112
0	13	Overburden
13	22	Siltstone
22	34.5	Mudstone, one foot shaley coal band at 28'
34.5	45.5	Coal 11' Seam - H
45.5	50	Mudstone
50	52	Shaley Coal 2'
52	60	Mudstone
60	65	Siltstone
		End of Hole February 17, 1978
		RH 1113
0	17	Overburden
17	28	Mudstone
28	36	Siltstone
36	44	Mudstone
44	48	Shaley Coal 4'
42	52.5	4.5' Mudstone
52.5	62	Coal 9.5' Seam - H
62	72	Mudstone
72	85	Siltstone and mudstone
		End of Hole February 20, 1978

Core Size: B 50 Drill

Hole No. RH 1112
RH 1113

Page

322

2507—N D N

Diamond Drill Geological Log

K- forcing 78(3)B-4

RH-1114

Cominco

Objective:

Logged By: R.K. Date:

Sampled:

Composites:

Block	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South #1 Pit Area			86'

From	To	Discard: Reason:
		Intersections taken from Gamma Ray Log
0	5	Overburden or mudstone
5	17	Mudstone
17	22	Sandstone
22	35	Siltstone and sandstone
35	50	Mudstone
50	70.5	Coal with approximately 1', 1.5' and 1' bands of shale at 52.5', 62' and 67'. 20.5 (17)' Seam - H
70.5	86	1.5' Shaley Coal band at 77.5', Mudstone
		End of Hole
		February 21, 1978

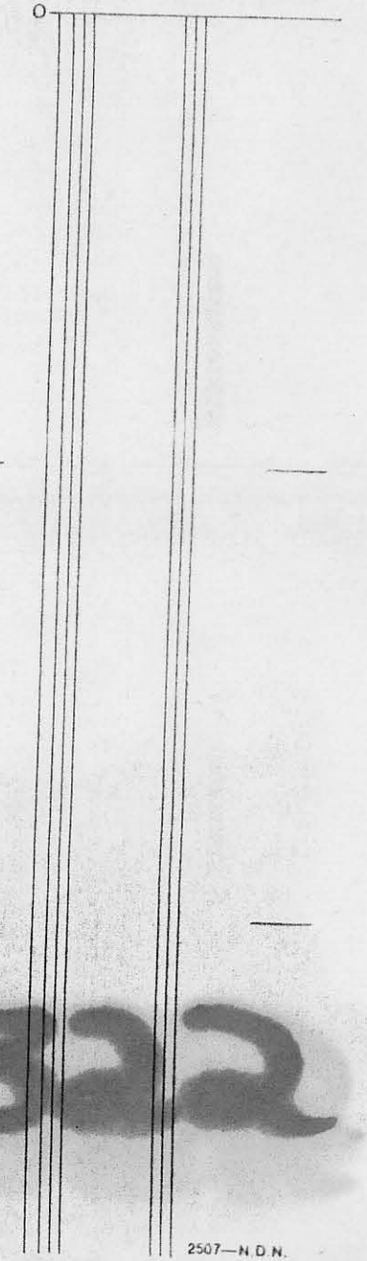
Core Size B 50 Drill

Hole No. RH 1114 Page

40 S

Color Plot & Dips | Ore Classes & Aver.

0



332

2507—N.D.N.

Diamond Drill Geological Log

K-Forgings 78(3)B-4

RH-1115

Cominco

Objective:

Sampled:

Logged By: R.K. Date: March 11, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South #1 Pit Area			225'

From	To	Discard: Reason:
		Intersections taken from Gamma Ray Log
0	16	Overburden (casing 22')
16	34	Siltstone
34	52	Silty sandstone, grey cuttings
52	65.5	Mudstone, shaley siltstone bands
65.5	69.5	Coal 4'
69.5	73	Mudstone — Seam - H W 1
73	75	Coal 2'
75	80.5	Mudstone
80.5	81.5	Coal 1'
81.5	86	Mudstone
86	96	Siltstone grading to sandstone towards bottom
96	116	Mudstone, coal stringers at 98'
116	173.5	Mostly siltstone. with very thin interbedded bands of sandstone
173.5	194.5	Coal 21' Seam - H
194.5	211	Mudstone and siltstone
211	215	Coal 4'
215	225	Mudstone
		End of Hole
		March 7, 1978

Core Size: B-50 Drill - No Samples

Hole No. RH 1115 Page 1 of 1

322

2507—N.D.N.

Diamond Drill Geological Log

K-Forging 78(3)B-4

Cominco

RH-1116
-1117

Objective: To determine location and thickness of Seam H.

Sampled:

Logged By: R.K. Date: March 23, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills #1 Pit Area			

Reason: For RH 1117 Intersections taken from Gamma Ray Log

From	To	Discard:
		RH 1116
0	45	Overburden (Casing 16.5')
		Hole abandoned at 45' in overburden because of caving in. March 15, 1978
		RH 1117
0	8	Overburden
8	23	Mudstone
23	35	Sandy Siltstone
35	52	Mostly siltstone some mudstone near top
52	58	Mudstone
58	61	Coal 3'
61	64	3' Mudston e
64	82.5	Coal 18.5' Seam - H
82.5	100	Siltstone and mudstone
		End of Hole
		March 2-, 1978

Core Size: B-50 Drill - No Samples

Hole No. RH 1116
RH 1117

Page

322

2567—N.D.N.

Diamond Drill Geological Log

1K - Fording 78(3)B-4

RH-1118

Objective:

Sampled:

Logged By: RK Date: March 23, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills #1 Pit Area			127'

From	To	Discard:	Reason:
			Intersections taken from Gamma Ray Log
0	6		Overburden (Casing 7')
6	13		Siltstone
13	72		Sandstone with occasional siltstone bankds; grey cuttings
72	79		Siltstone
79	83		Coal 4'
83	88		5' Mudstone
88	109		Coal with two feet shale band at 96' 21(19') Seam - H
109	119		Mudstone, coal stringers at 112' and 114'
119	127		Siltstone
			End of Hole
			March 22, 1978

Core Size B-50 Drill - No Samples

Hole No. RH 1118 Page 1 of 1

322

2507—N.D.N.

Diamond Drill Geological Log

K- FOLDING 78(3)B-4

RH-1119

Objective:

Sampled:

Logged By: R.K. Date: April 3, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills West of #1 Pit	Area		225'

Discard: Reason: Intersections taken from Gamma Ray Log

From	To	
0	6	Overburden ?, casing 6'
6	10	Mudstone
10	14	Sandstone
14	29	Mudstone with bands of siltstone
29	69	Mostly siltstone with several thin interbeds of sandstone and mustone.
69	86	Coal 17' Seam - H.
86	88	Mudstone
88	90	Shaley Coal
90	97	Mudstone
97	102	Coal 5'
102	105	Mudstone
105	126	Mostly sandstone with one siltstone interbed.
126	142	Mudstone, siltstone 133-137'
142	177	Siltstone with silty sandstone bands
177	187.5	Mudstone, siltstone near bottom.
187.5	190.5	Coal 3'
190.5	194	3.5' mudstone
194	211	Coal with 2' mudstone band at 202' 17'(15') Seam - G.
211	222	Mudstone, coal stringers at 216' and 218'
222	225	Siltstone
		End of hole
		March 27, 1978

Core Size B 50 Drill - No Samples

Hole No. RH 1119 Page 1 of 1

322

2507—N.D.N.

Diamond Drill Geological Log

K- FORDING 78(3)B-4

DDH-1121

Objective:

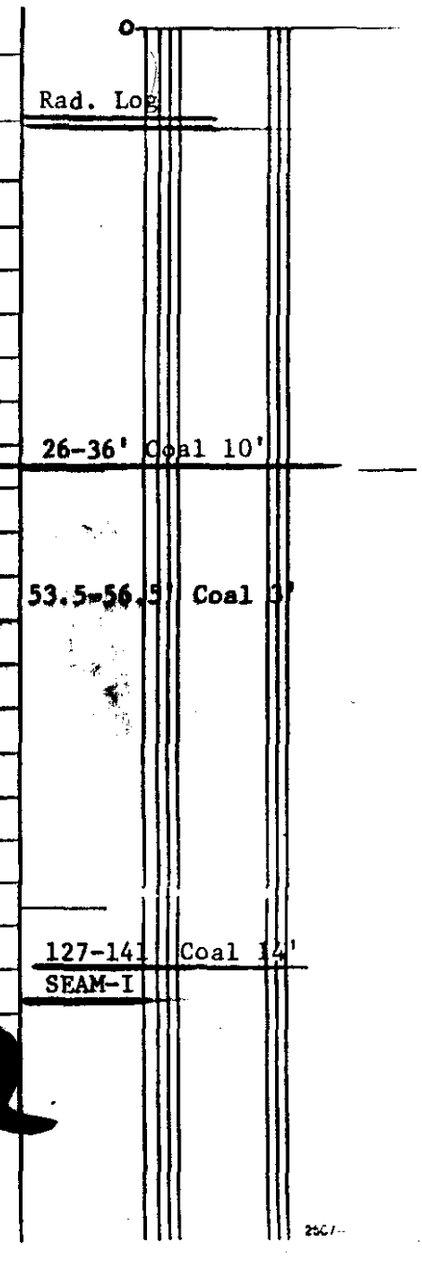
Sampled:

Logged By: Ken Hansen Date: May 11, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South Upper Seams Area			1570'

From	To	Discard: Reason:
0	20	Tricone
20	27.5	Siltstone, light Grey with black carbonaceous laminations. Finely laminated with soft sed. deformational structures. Oxidized increasingly carbonaceous directly above coal and highly broken above coal.
27.5	31	Coal, primarily clarain with some vitrain soft and well broken up.
31	35.5	Coal, primarily vitrain with some clarain hard coal.
35.5	51.2	Siltstone, med. brown grey to dark grey. Course laminated with abundant soft sediment. Deformational structures. Oxidized. Siltstone grades into a black mudstone directly over the coal.
51.2	52	Coal, Clarain highly broken up.
52	54.8	Mudstone, black, moderately carbonaceous. Pyrite speckles in some instances.
54.8	57	Coal, hard at top and bottom with highly broken in middle. Clarain, vitrain with some durain. Also Pyrite showings.
57	67.5	Siltstone, (Course Grained) medium grey with Light grey laminations, finely laminated with abundant soft sed. deformational structures. Oxidized.
67.5	68.2	Breccia Zone in siltstone, calcite infilling between angular fragments
[illegible].2	124.6	Siltstone, light to medium grey finely to coarsely laminated with darker grey (mudstone) laminations. Abundant soft sed. deformational structures. Oxidized along joint planes (as well calcite).
[illegible].6	129	Mudstone- black carbonaceous with minor coal stringers and blebs.
129	141.5	Coal, vitrain primarily with clarain and durain. Soft coal.
141.5	142	Mudstone, black, highly carbonaceous.
142	143	Coal, primarily clarain, very soft.
143	151.5	Mudstone, black with abundant fairly thick coal stringers. Hand coal stringers. Abundant mud (brown) enclosing coal fragments.
[illegible].5	154	Mudstone, Black non coal bearing.



Core Size 322

Hole No. DDH 1121 Page 1

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hanson Date: May 11, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South Upper Seams Area			1570'

From	To	Discard: Reason:
154	161	Interbedded light grey very fine grained sandstone and medium to dark grey siltstone.
161	164	Coal, with 2" black mudstone, parting in middle. Hard coal mainly vitrain.
164	177	Siltstone, light grey to medium grey with interlaminations of dark brown grey mudstone. Some fine coaly stringers and blebs but rare non-oxidzed. Abundant soft sediment structures.
177	179	Mudstone, black highly carbonaceous in parts.
179	184	Mudstone, dark brown grey with some light medium grey siltstone interlaminations. Fossel plant fragments.
184	186.5	Siltstone, light to medium grey interlaminations of dark brown grey mudstones. Abundant soft sediment structures. Fairly course laminations.
186.5	190	Mudstone, in part sandy, black to dark brown grey slightly carbonaceous.
190	196	Mudstone, black highly carbonaceous with coal bands and blebs. (up to 2") highly broken up some fragments with suckensides.
196	232	Mudstone, dark to meduim dark brown grey with interlaminations of medium grey siltstone. Impart slightly carbonaceous with small coally blebs.
232	280	Siltstone, light to medium grey in part (very fine grained) sandy. Interlaminated coursely with dark grey mudstone. Abundant soft sediment deformational structures including X-laminations.
280	283.5	Mudstone, dark grey black, impart carbonaceous.
283.5	284	Siltstone, light medium grey with dark grey mudstone interlaminations.
284	285	Mudstone, black, highly carbonaceous.
285	293	Coal; Predominating vitrain, soft and highly broken.
293	300	Coal, pred. vitrain, hard shiney.
300	301½	Coal, pred. clarain, soft
301½	302	Carbonaceous
302	310.2	Mudstone, black with coal streaks (up to ½ thick)

Core Size

Hole No. DDH 1121 Page 2

40 Scale

Color Plot & Dips | Ore Classes & Ass

0

RAD. LOG

283' – 301.5' COAL 18.5'

SEAM-H

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hanson Date: May 19, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South Upper Seams Area			1570'

From	To	Discard: Reason:
310.2	311	Coal, Vitrain highly broken up.
311	311.4	Mudstone, black, highly carbonaceous.
311.4	312.2	Coal, predominatly vitrain, hard, with mud interlaminations
312.2	313.4	Mudstone, black, highly carbonaceous.
313.4	314.5	Coal, predominatly clarain with vitrain streaks. Interlaminations of mudstone (black and highly carbonaceous).
314.5	322	Mudstone, dark grey to black, moderatly carbonaceous.
322	322.6	Breccia Zone, fragmented mudstone with calcite infilling
322.6	326	Coal, bitrain, moderately hard, mudstone bedding @ 324.8 of 2"
326	344	Mudstone, black, coally streaks of up to 1"., dark throughout, when broken fracture often somewhat conchoidal (complex bedding pattern).
344	345	Sandstone, light brown grey. Fine grained silty sandstone moderately coarsly laminated with medium grey siltstone
345	346.8	Mudstone, black with siltstone interlaminations bedding at 27 degrees
346.8	347.4	Oxidized zone, light grey zone
347.4	360.5	Interbedded mudstone and siltstone, dark grey mudstone - medium grey siltstone bedding @ 18 degrees
360.5	362	Coal, primmarily clarain, soft (Broken Core).
362	365	Mudstone, black, only slightly carbonaceous bedding @ 22 degrees.
365	377	Interbedded siltstone & mudstone, mudstone dark grey & siltstone medium to light brown grey, some soft sediment structures. Bedding @ 16 degrees.
377	381	Sandstone, fine grained silty sandstone, light grey with dark to medium grey siltstone interlaminations.
381	387½	Mudstone, black non - carbonaceous
	388	L' Coal seam hard - vitrain contact between mudstone and coal seam 26° BAC
	389	dark grey to black mudstone
389	394	Predominately black mudstone however coal seams at 389' 2" thick vitrain
		@ 391½' infilling of calcite in joints 15 degree BAC discontinuous.

Core Size

Hole No. RH 1121 Page 3

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

Rad. 1.0

321 - 326' Coal 5'

2507-

391' 2" thick clarain

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hanson   Date: May 24, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South Upper Seams Area			1570'

From	To	Discard: / Reason:
394	401	black mudstone fracture density noticably lower, calcite in filling at joints at 36 degrees separation~1/8"
401	411	Mustone some what lighter in colour and slightly more silter sedimentary structures present, some cross bedding bedding wavy, soft sediment deformation structures.
411	417	Black mudstone lack of visable strucutes -- massive
417	426	Massive black mudstone interbeds of fine siltstone @ 422' 2 each 2" thick soft def. struct. visiable in beds.
426	429	Coal, predominatly vitrain, hard
429	431	Coal, predominatly clarain, moderatly soft
431	433	Mudstone, black moderatly carbonaceous with coal streaks.
433	440½	Coal, predominatly clarain, soft and highly broken core
440½	455	Interbedded siltstone & mudstone & siltstone light to medium brown grey, mudstone dark brown grey. Inpart sandy . Bedding dip @ 37 degrees, abundant soft sediment deformational structures.
455	467	Interbedded silty sandstone & mudstone, fine grain Sandstone light grey, mudstone dark brown grey. Abundant soft sedimentary deformational structures. Many thin coal stringers (~½" thick) throughout. Cross bedding visiable at~460' - 462' (predominent Dip @ 35 degrees).
467	469	Interbedded siltstone & mudstone, siltstone medium grey, mudstone dark grey to black (non- carbonaceous).
469	474	Mudstone, black with thin coal stringers (~½" thick) mainly vitrain.
474	484	Interbedded siltstone & mudstone, siltstone medium brown grey, mudstone black: minor coal stringers.
484	490	Sandstone, medium brown grey, very fine grained & silty interlaminations - high degree of jointing througout interval.
490	492	Mudstone, black highly carbonaceous, upper 6" highly broken core.
492	494	Interbedded silty sandstone & mudstone, medium brown grey sandstone and black mudstone. Abundant soft sedimentaries structures bedding @ 26 degrees siltstone fine grained.

40 Scale

Color Plot & Dips | Ore Classes & Av...

0

RAD. LOG

425 - 441' Coal 2'
Mudstone 430 - 432'
Seam - 16(14)

Core Size

Hole No. RH 1121   Page 4

Diamond Drill Geological Log

Cominco

Objective:		Sampled:			
Logged By: Ken Hanson	Date: May 25, 1978	Composites:			
Block:	Sect.:	Place: Greenhills South Upper Seams Area	App. Bear:	App.: Dip.:	Length: 1570'

From	To	Discard: Reason:
494	500	Mudstone, black with minor thin coal stringers slikensides @ 495.5'
500	511	Interbedded sandy siltstone and mudstone, siltstone medium brown grey & mudstone dark grey to black
		abundant soft sedimentary structures. bedding @ 22 degrees.
511	516	Mudstone, dark grey slightly carbonaceous with coal blebs. Plant fossels.
516	519	Interbedded siltstone & mudstone, siltstone medium brown grey & mudstone dark grey to black.
519	519½	Coal, predominately vitrain, soft highly crushed core.
519½	519.8	Mudstone, black highly carbonaceous with thin coal laminations.
519.8	521	Interbedded sandy siltstone & mudstone. Coursely laminated medium brown grey siltstone with dark grey to
		black mudstone.
521	521.4	Shaley coal, dirty coal with laminations of black mudstone, predominatly vitrain.
521.4	536	Mudstone, dark grey brown, bedding dip @ 26 degrees some minor siltstone interlaminations.
536	536½	Coal, predominatly clarain, soft and highly crushed core.
536½	537½	Mudstone, black highly carbonaceous, bedding dip @ 18 degrees some minor siltstone interlaminations.
7½	537.8	Coal, primarily clarain soft highly broken.
7.8	539	Mudstone, black highly carbonaceous.
539	543½	Coal, primarily vitrain, moderatly soft highly broken core.
543½	544	Mudstone, black moderatly carbonaceous.
544	552	Interbedded siltstone & mudstone, Siltstone sandy in part and medium brown grey in color, mudstone dark grey
		brown bedding dip @ 21 degrees fairly corse laminations.
552	553	Sandstone, fine grained light grey brown, interlaminations of dark grey
		brown mudstone.
	557	Mudstone, dark grey with silty laminations.
7	557.8	Coal, primarily clarain moderately hard but broken core.

Core Size

Hole No. RH 1121 Page 5

40 Scale

Color Plot & Dips | Ore Classes & A...

0

RAD. LOG

538 - 544' COAL 6

Diamond Drill Geological Log

Cominco

Objective:			Sampled:		
Logged By: Ken Hanson	Date: May 25, 1978		Composites:		
Hole:	Sect.:	Place: Greenhills South Upper Seams	App. Bear:	App.: Dip.:	Length: 1507'

40 Scale

Color Plot & Dips | Ore Classes & Ave

0

From	To	Discard: Reason:
557.8	558.2	Mudstone, black highly carbonaceous, broken core.
558.2	558.8	Coal, primarily clarain, soft highly broken core.
558.8	564	Mudstone, dark grey moderatly carbonaceous few minor coal stringers (to 1" thick) near top of unit.
564	564.5	Coal, primarily clarain very soft and broken.
564.5	582	Mudstone, black carbonaceous with coal blebs & plant fossels bedding dip @ 19 degrees
582	595	Mudstone, medium grey brwon, less compitant than above unit (more highly fractured & joint freq. higher)
		bedding variable from 34 degrees - 18 degrees.
595	604	Mudstone as above only highly broken core with several slickenside surfaces.
604	610	Interbedded fine to medium grained sandstone & silty mudstone, sandstone in part salt and pepper otherwise
		light grey, mudstone dark brown grey - Bedding at 28 degrees.
610	611	Sandstone salt and pepper medium grained.
611	616	Interbedded siltstone and mudstone, siltstone medium grey, mudstone dark grey to black. Slickensides @∩612
		Core highly broken.
616	617	Sandstone, salt and pepper, medium grained.
617	620	Interbedded siltstone & mudstone, siltstone medium grey, mudstone dark grey brown. Bedding at 38 degrees.
620	623	Coal ??, missing core but coal visable in fragmented remains.
623	631½	Mudstone, black carbonaceous, plant fossles found highly broken core in parts.
631½	633	Coal, predominatly clarain, black higher carbonaceous mud pardings in center of interval.
633	637	Mudstone, black carbonaceous, bedding @ 27 degrees.
637	640	Sandstone, medium grey, carbonaceous, fine grained and silty with
		interlaminations of dark grey mudstone, highly fractured and jointed.
640	652	Interbedded siltstone and mudstone, siltstone medium to dark grey and mud-
		stone dark grey to black. Some soft sedimentary deformational structures
		bedding @ 14 degrees.

Core Size

Hole No. RH 1121 Page 6

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hanson Date: May 26, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South Upper Seams Area			1507'

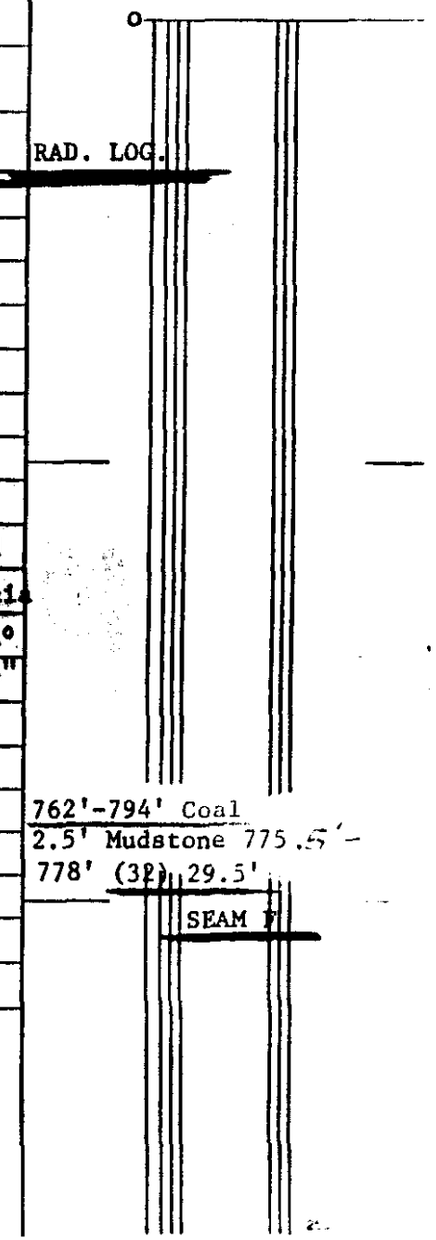
From	To	Discard: Reason:
652	656	Mudstone, black highly carbonaceous containing coal stringers okay up to 1/2" in thickness.
656	657	Interlaminated fine grained medium grey sandstone and dark grey to black mudstone.
657	659	Mudstone, dark grey brown.
659	665	Mudstone, black carbonaceous, thin coal stringer of 4" thickness @ 652' very soft & broken up coal.
665	670	Interbedded siltstone & mudstone, siltstone medium grey, mudstone dark grey brown to black. Coarsly interlaminated. Bedding inclination 27 degrees.
670	675	Interbedded silty sandstone & mudstone, sandstone very fine grained, medium grey, mudstone dark brown grey Abundant soft sediment deformation structures.
675	730	Interbedded mudstone & siltstone, mudstone dark grey to black, siltstone medium grey, siltstone interlaminated with mudstone & in parts sandy (very fine grained). Abundant soft sedimentary features. Also, mud chip breccia @ 675'. Beds of mudstone in the order of 4' thich while siltstone in order of 1' thick bedding inclination 34°
730	740	Zone of intense brecciation, mudstone and siltstone fragments with calcit infilling calcite beinlets up to 3/4" thick.
740	754	Mudstone, brown grey, bedding inclination 40 degrees.
[illegible]	763	Mudstone, black carbonaceous, slickenside plane @ 760'.
[illegible]	776.8	Coal, fairly hard, predominatly clarain and vitrain.
776.8	777.2	Mudstone, black highly carbonceous.
777.2	778	Coal, very soft and highly broken.
778	791	Coal, moderatly hard, predominatly clarain.
791	794	Missing, no recovery.
794	795	Coal, highly broken and very soft.
795	847	Mudstone, black to dark brown grey. Inpart carbonaceous. Bedding inclination @ 38 - 25 degrees slickenside plane @ 843' minor coal streaks.

Core Size

Hole No. RH 1121 Page 7

40 Scale

Color Plot & Dips | Ore Classes & A.a.



Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hanson Date: May 26, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South Upper Seams Area			1507'

From	To	Discard: Reason:
847	889	Interbedded siltstone & mudstone, siltstone medium grey , mudstone dark grey brown, siltstone sandy in part.
		Abundant soft sedimentary deformational structures. Bedding @∩38 degrees slks. & quartz infilling @ 875'
		(possible fault zone).
889	893	Breccia zone with silica infilling (lithology unchanged).
893	911	Interlaminated mudstone & siltstone, siltstone light grey, mudstone dark brown grey bedding @ dip 33 degrees.
911	913	Mudstone, black carbonaceous with thin coal stringers
913	924½	Coal, predominatly clarain, quite soft.
924½	925	Mudstone, black highly carbonaceous.
925	926	Coal, highly broken core.
926	929	Interbedded siltstone and mudstone, siltstone medium grey, mudstone dark brown grey bedding dipping @ 38 deg.
		abundant soft sedimentary deformational structures. Slks, @ 928'.
929	930	Coal, highly broken core with 2" black carbonaceous mudstone partings.
930	938	Interbedded siltstone & mudstone, medium grey siltstone & dark brown grey mudstone siltstone inpart sandy.
938	938.8	Coal, highly fractured (essendally coally mud).
938.8	939½	Mudstone, black carbonaceous.
939½	950	Interbedded sandstone & mudstone, sandstone is fine grained, silty, light brown grey, mudstone dark brown grey
		to black with minor coal stringers. Coal stringer of 2" @ 940' bedding dip @ 38 degrees.
[illegible]	961.7	Mudstone, black to dark grey brown, carbonaceous with coal stringers of up to 2" thickness. Silty laminations
		found throughout though a minor constivent.
961.7	966	Coal (??) good deal of interval missing but abundant coal mud (primmarily
		clarain fragments).
966	974	Interbedded sandstone & mudstone, Sandstone medium grey and silty, mudstone
		dark grey brown, minor coal stringer of∩3" @ 970' bedding @ 50 degrees.

Core Size

Hole No. RH 1121 Page 8

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

RAD. LOG.

911-924' Coal 13

961.5-965.5' COAL 4'

2507-

Diamond Drill Geological Log

Cominco

Objective:			Sampled:		
Logged By: Ken Hanson	Date: May 31, 1978		Composites:		
Block:	Sect.:	Place: Greenhills South Upper Seams Area	App. Bear:	App.: Dip.:	Length: 1570'

From	To	Discard: Reason:
[illegible]	990	Sanstone medium grey, fine to medium grained. Salt and pepper in part highly brecciated from 974 - 979.
		Highly broken unit throughout.
990	993.5	Mudstone, black highly carbonaceous.
993.5	1000	Coal (?) 4' missing coal highly broken and quite soft predominatly clairain.
1000	1004	Mudstone, black carbonaceous with small coal stringers bedding dipping @ 43 degrees.
1004	1005	Coal highly broken up, both clarain and vitrain.
1005	1014	Mudstone, black highly carbonaceous. Coal stringers of up to 2" in thickness.
[illegible]	1015½	Coal, highly broken up predominatly vitrain.
1015½	1019	Mudstone, black highly carbonaceous with coal stringers up to 3" in thickness.
[illegible]19	1019½	Coal, broken up core, predominatly vitrain.
1019½	1048	Mudstone, black to dark brown, inpart carbonaceous with rare coal stringers of < 1" thickness, bedding dipping
		@ 46 degrees slks. @ 1037 minor interlaminations of siltstone from 1040' - 1042'
1048	1118	Interbedded siltstone & mudstone, siltstone medium grey to light brown grey, inpart sandy, mudstone dark grey
		to black, inpart carbonaceous with small plant fossels. Abundant soft sedimentary deformational structures,
		bedding dipping variable from 63 - 73 degrees slks. @ 1092'.
1118	1122	Mudstone, black carbonaceous, minor coal stringers (< 1" thick) bedding dipping at 47 degrees.
1122	1132	Interbedded mudstone & sandstone, mudstone black, sandstone salt and pepper carbonaceous, fine to medium
		grained with abundant calcite veinlets.
1132	1147	Sandstone, salt and pepper fine to medium grained with interlaminations of mudstone @ 1135' mudchip breccia in
		in sandstone mastrix. Mirco - X - bedding in sandstone. Bedding dipping
		@ 48 degrees Slks. found along joints throughout unit.
1147	1161	Interbedded sandstone & mudstone, mudstone black & carbonaceous, sandstone
		salt & pepper, inpart silty (same as above) soft sediment deformational
		structural visible coal stringers @ 1152' & 1153' of ∿ 3" in thickness, minor
		coal blebs throughout

Core Size

Hole No. RH1121 Page 9

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

RAD. LOG

994'-998' Coal 4'

2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hanson Date: June 2, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South Seams Area			1570'

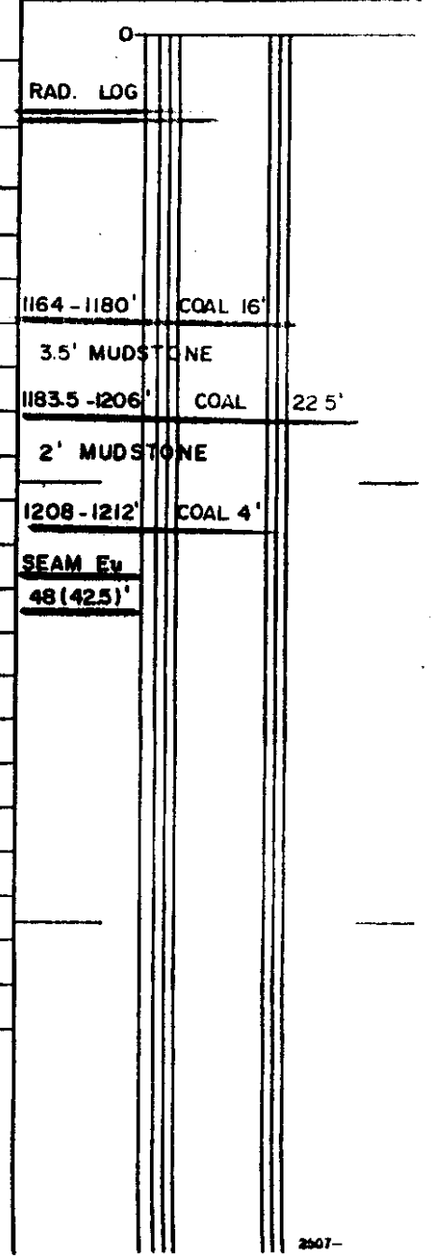
From	To	Discard: Reason:
1161	1163	Mudstone, black carbonaceous.
	1163½	Coal, primarily vitrain.
3½	1164	Mudstone, black carbonaceous.
64	1166	Coal, missing in part, highly broken core, clarain primarily.
1166	1166½	Mudstone, black carbonaceous.
1166½	1181½	Coal, both vitrain and clarain, moderatly hard coal.
1181½	1186	Coal, dirty with good deal of mud in it.
1186	1206	Coal, primarily clarain, quite soft and broken up.
1206	1211	Coal with mudstone, interlaminations (dirty Coal) predominatly clarain.
1211	1212	Coal, predominatly vitrain and durain, hard coal.
1212	1212½	Mudstone, black highly carbonaceous.
1212½	1217	Coal, predominatly clarain.
1217	1227	Mudstone, black highly carbonaceous with coal bands up to 4" thick bedding at 32 degrees dip.
1227	1254	Interbedded sandstone & mudstone, sandstone salt and pepper with thin carbonaceous interlaminations. Fine to medium grained. Mudstone black and carbonaceous, bedding @ 48 degrees.
1254	1258	Mudstone, black highly carbonaceous, results in choncoidal fracture when broken.
1258	1260	Sandstone, fine grained salt and pepper, thin mudstone interlaminations micro- X bedding bedding dipping @ 38°
1260	1263	Mudstone black, carbonaceous, interlaminations of silty sandstone becoming increasingly carbonaceous approching the thin coal stringer at 1262.2' - 1262.8'
1263	1287	Interbedded mudstone & silty sandstone, mudstone black carbonaceous with abundant plant fossels, sandstone light grey fine to medium grained with mudstone interlaminations, micro cross bedding bedding dipping @ 38 degrees.

Core Size

Hole No. RH 1121 Page 10

40 Scale

Color Plot & Dips | Ore Classes & Ass



2507-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hanson Date: June 2, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South Upper Seams Area			1570'

From	To	Discard: Reason:
1287	1300½	Mudstone, black in part carbonaceous - scarse plant fossels. Rare silty laminations, ecoming increasingly carbonaceous just over the coal.
1300½	1304	Coal primarily vitrain, moderatly hard.
1304	1305	Coal, clarain and durain hard.
1305	1317	Coal, vitrain and clarain with bands of durain, moderatly hard to soft. Inpart highly broken - up.
1317	1320	Mudstone, highly carbonaceous with coal bands of up to 6" thick.
1320	1321	Siltstone, medium grey, course siltstone.
1321	1335	Mudstone, black carbonaceous with coal stringers of up to 2" thick bedding @ 28 degrees dip.
1335	1366	Interbedded sandy siltstone and mudstone, siltstone light to medium grey, mudstone dark grey brown to black . Slks. @ 1351 - minor coal stringers ∩ 1" thick. Bedding dipping @ 32 Degrees, mirco Xbedding.
1366	1367	Coal, clarain highly broken up.
1367	1368	mudchip breccia, dark grey brown mudstone fragments in sandy siltstone matric.
1368	1383	Interlaminated siltstone and mudstone, abundant soft sedimentary deformational structures, mudstone inpart very carbonaceous. Minor coal stringers, bedding dip at 38 - 45 degrees - Slks. @ 1380'
1383	1384	Mudchip breccia, mudstone (dark brown) fragments in siltstone matrix (medium grey).
[illegible]	1400	Mudstone, dark grey brown to black carbonaceous, with many thin coal streaks. Highly broken core.
[illegible]	1402	Siltstone with mudstone interlaminations, dark grey in color minor brecciation @ 1401' - minor coal streak ∩ ½" dark bedding dipping @ 52 degrees.
1402	1412	Mudstone, black carbonaceous, with many thin coal streaks, highly broken core.
1412	1423	Coal, primarily clarain with vitrain streaks - soft coal.
1423	1425	Coal, streaked clarain and durain, moderatly hard core.
1425	1460	Coal, predominatly clarain, moderatly soft to very soft. Missing core throughout inerval.

Core Size

Hole No. RH 1121 Page 11

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

RAD. LOG.

1300 - 1316' Coal
SEAM-E 16'

1411-1460' Coal
SEAM-D 49'

2867-

Diamond Drill Geological Log

Cominco

Objective:

Sampled:

Logged By: Ken Hanson Date: June 7, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South Upper Seams Area			1570'

From	To	Discard: Reason:
1460	1471	Mudstone, black highly carbonaceous. Minor coal structures. Slks. @ 1462' - 1463' and 1466'.
1471	1483½	Mudstone (as above) intensly brecciated inpart with calcite infilling between mudstone fragments. Also, abundant Slks.
1483½	1484½	Coal, predominatly clarain with some vitrain, very soft and broken core.
1484½	1485	Mudstone, black carbonaceous, zone of Slks.
1485	1485½	Siltstone, medium grey, bedding at 3 degrees dip.
1485½	1488	Mudstone, dark brown grey, with siltstone laminations, abundant Slks. in interval.
1488	1500.8	Coal, predominatly clarain, with vitrain and durain streaks soft coal - broken core.
1500.8	1507	Mudstone, black carbonaceous Slks. @ 1501' oxidized zone with major joint @ 1504' - 1505'.
1507	1512	Interlaminated siltstone and mudstone, siltstone light grey and inpart sandy. Mudstone medium brown grey bedding @ 12 degrees dip. Abundant soft sediment deformational structures.
1512	1522	Mudstone, black minor carbonaceous material, abundant slks. through out interval. Bedding variable dip from 8 - 50 degrees many soft sediment deformational structures.
1522	1527	Interbedded siltstone and mudstone, siltstone light grey, mudstone dark grey brown. Micro X-bedding. Abundant slks. throughout bedding dipping @ 25 degrees.
1527	1557	Mudstone, dark brown, highly broken with abundant slks. throughout interval minor siltstone interbeds.
1557	1570	Sandstone, fine grained, light grey in color, minor brecciation @ 1563 - 1565' and 1568' - 1520' bedding dipping @ 30'.

Core Size

Hole No. RH 1121 Page 12

40 Scale

Color Plot & Dips | Ore Classes & Ave

0

RAD. LOG

1487-1496' COAL 9'

SEAM - DI

2507-

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET ACTUAL-BIU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
27	30		24085		3		26.7			1 1/2		
30	39		24086		9		11.9			7		
27	39	COMPO.		12, 779.	12'	0.7	15.3	28.7	55.3	5 1/2	0.75	
51	54		24088		3		71.6			1		
55	57		24089		2		16.1			8		
128.5	136.5	SEAM - I	24082		8		18.2			7		
136.5	141.5		24083		5		8.5			7 1/2		
141.5	147		24084		5.5		55.9			2		
128.5	141.5	SEAM-I COMPO.		13, 157	13'	0.6	14.2	28.8	56.4	7	0.59	
162	164		24090		2		44.8			3		
284	292		24079		4		14.5			6 1/2		
292	297	SEAM - H	24080		5		8.0			7 1/2		
297	301.5		24081		4.5		5.6			7 1/2		
284	301.5	SEAM-H. COMPO.		14,066	13.5	0.8	8.9	28.4	61.9	7 1/2	0.46	
310	312		24077		2		48.1			5 1/2		
323	326.5	P.A. o/o S. FST.	24078		3.5		17.2			7 1/2		
323	326.5		24078	12,500	3.5	0.5	17.3	28.2	54.0	7 1/2	0.72	
426	432		24044		6.	1.0	25.7	21.7	51.6	6 1/2	0.61	
432	436	SEAM - G	24045		4	1.1	13.0	27.8	58.1	8 1/2	0.62	
436	440.5		24046	?	4.5	0.8	53.5	15.3	30.4	4	0.52	
426	440.5	SEAM-G COMPOSITE	24044-46.									

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	ACTUAL B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
538	543'5	SEAM - FM 3 P.A. & S, FSI	24076			5'5		27·0			6 1/2		
538	543'5		24076	11,186		5'5	0·4	27·1	24·1	48·4	6 1/2	0·54	
763	766		21625			3		10·8			8		
766	771		624			5		8·4			7 1/2		
771	775		623			4		19·4			1 1/2		
775	782	SEAM - F	622			7		46·9			4		
782	787		621			5		7·2			4 1/2		
787	795	(CORE LOST-791-794')	21620	3'		8'		17·3			4.		
763	795	SEAM - F COMPO.		12,083	29/32		0·3	20·1	22·6	57·0	4 1/2	0·48	3' CORE SHORT
886	888		21618			2		80·5			1/2		
912	916		21617			4		10·0			6 1/2		
916	921		616			5		9·0			8		
921	925	SEAM - F	21615			4		24·2			6 1/2		
912	925	COMPOSITE		11,774		13'	0·3	13·8	23·2	62·7	7	0·70	
961	966'5		21614			5'5		59·7			1/2		
994	1000		21613			6		64·3			1		
1166	1172		21612			6		29·5			4		
1172	1177		21611			5		21·0			3 1/2		
1177	1180	SEAM - E_U	21610			3		21·6			7		
1180	1185		21609			5		71·7			1/2		
1185	1189		21608			4		29·3			5		
1189	1193		21607			4		—			—		

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	ACTUAL BTU.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
1193	1199		21606			6		32.7			5 1/2		
1199	1204	SEAM - EU	21605			5		24.7			5		
1204	1209		21604			5		57.6			1 1/2		
1209	1214		21603			5		56.0			1 1/2		
1214	1220		21602			6		85.1			0		
1220	1225		21601			5		83.1			0		
1166	1180	PARTING											
1185	1204	EXCLUDED.											
		SEAM-EU COMPO.		11,109	29/33		0.2	27.1	21.2	51.5	5	0.36	4' SAMPLE MISSING
1301	1304		24043			3		19.9			2		
1304	1309	SEAM - EL	042			5		15.9			4 1/2		
1309	1312		041			3		7.6			7 1/2		
1312	1317		040			5		36.1			7		
1317	1320		24039			3		73.6			1		
1301	1317	COMPO.		12,323		16'	0.5	21.0	21.1	57.4	4 1/2	0.40	
1412	1417		24038			5		24.7			5 1/2		
1417	1422		037			5		25.9			2		
1422	1427		036			5		16.3			1 1/2		
1427	1432		035			5		7.0			1		
1432	1437	SEAM - D	034			5		10.0			4		
1431	1442		033			5		10.6			2		
1442	1447		032			5		8.5			1		
1447	1452		031			5		12.9			3 1/2		
1452	1457		030			5		6.7			3		
1457	1461		029			4		13.5			1 1/2		
1412	1961	SEAM D.		13,350		45'	0.3	14.0	20.8	64.9	2 1/2	0.31	

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
1488	1492	SEAM - DL	24028			4		13.8			2.1/2		
1492	1496.5		24027			4.5		23.1			2		
1496.5	1500.75		24026			4.25		63.9			1/2		
1488	1496.5	COMPO.		12,483		8.5	0.4	17.4	21.2	61.0	2	0.54	

Diamond Drill Geological Log

K-Fording 78(3)B-4

fordin COAL LIMITED

FORDING RIVER

DDH - 1122

Aver.

Objective:

Sampled:

Logged By: N. Ball Date: September 13/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length: 1571'

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
0	62			0	18.9	Tricone
62	64½					unconsolidated sand & gravel grading to black mudstone.
						Coal intersection @ approx. 63½. Highly crushed. Dull lustre
64½	68½	62.5	88.5	19.1	27.0	Coal highly crushed with minor interbedded highly carbonaceous black mudstone. Approx
						2 ft. of core missing. SEAM - G 26' 7.9 m
68½	88½					Coal. Dull, moderately powdered. Some core missing at top of section. Progressively
						brighter lustre with depth and beoming quite highly crushed.
88½	91					Coal. Highly crushed @ top of section and grading into black highly carbonaceous
						mudstone at 91'. Some core missing.
91	96½					Siltstone with some interlaminated mudstone. Siltstone light to medium gray mudstone
						dark gray to black. Bedding slightly contorted from horizontal. Limited calcite
						fracture filling. Black highly carbonaceous mudstone becoming predominant near bottom
						(approx 95½) of section. Near bottom occur open calcite fractures
		95	104	29.0	31.7	Coal SEAM - G LWR Band 9' 2.7m
96½	98½					Coal intersection @ approx 96½. Highly crushed here becoming massive and having brighter
						lustre Dominant joint at 52 deg.

Core Size 322

Hole No. DDH. 1122 Page 1 of 27

2507-

Diamond Drill Geological Log

Fording COAL LIMITED

FORDING RIVER OPERATIONS

40 Scale

Color Plot & Dips | Ore Classes & Aver.

Objective:

Sampled:

Logged By: N. Ball Date: September 13, 1978 Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE in Ft. From	CORE in Ft. To	RAD. LOG in Ft. From	RAD. LOG in Ft. To	in meters From	in meters To	
98½	102					No core recovery.
102	106					Sandstone mg. to c.g. sandstone with black coating on grains. Minor pyrite 6 in. of core (max) recovered in this section.
106	127½					Mudstone. Predominatly black carbonaceous mudstone with inter bedded light gray f.g. siltstone between 106' and 107'. approx 6 in. of highly carbonaceous mudstone at 119'. Apparent bedding plane jointing dipping approx 37 deg. to core axis. Also dominant joints at approx 40 deg and 33 deg to axis.
127½	152					Dark grey to black mudstone with some silty laminations, soft sediment deformation present from approx 148 thru 152. Highly polished slickensides occuring in the carbonaceous mudstone throughout the section. Calcic infilling of fractures also present.
152	157					Medium grey mudstone with light grey siltstone laminations grading into a very f.g. siltstone around 155 - 157'. Bedding @ 30 deg. to core axis. Prominent jointing along bedding plane 930 deg) and at 60 deg to core axis.
157	161					Black carbonaceous medstone with minor calcic coating on some fracture faces. This section completely broken.

Core Size

Hole No. DDH. 1122 Page 2 of 27

2507-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: N. Ball Date: Septembeu 18, 1978 Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. | RAD. LOG In Ft. | In meters

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

From	To	From	To	From	To	
161	190					Primarily black to dark grey mudstone with interlaminations of light grey silty material
						Slight soft sediment deformation becoming evident near bottom of section. Calcite
						infilling of fractures also more abundant at bottom. Intense small scale normal faulting
						(apparent) occuring around 187'.
190	208					Mudstone dark grey to black, with highly polished carbonaceous fracture surfaces. Fine
						interlaminations of light grey siltstone and very minor calcite infilling becoming
						evident at lower end of section.
208	215					Bedding becoming more visible and calcite present both along bedding plane fractures as
						well as in well healed fracture planes. Some crossbedding at approx 213 ft. light
						grey silty material increasingly abundent toward bottom. Prominent jointing at 34 deg.
						and 50 deg. to core axis, 150 deg and 160 deg to bedding respectively .
215	226					Interlaminated siltstone, light grey, and mudstone, dark grey carbonaceous. Crossbedding
						evident in several places. Numerous irregular but well healed fractures occuring
						approx. 221 to 222 feet. Calcite infilling becoming increasingly abundent. Many
						parting surfaces are highly carbonaceous. From approx 222 to 226' the siltstone is very
						coarse grained.

Core Size

Hole No. DDH. 1122 Page 3 of 27

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

2507-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: N. Ball Date: September 20, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. | RAD. LOG In Ft. | In meters

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

From	To	From	To	From	To	
226	237					Siltstone Light grey, fine to med. grained, ending abruptly at a 6 inch gouge zone at 228 ft. Followed by dark grey, carbonaceous mudstone with irregular calcite stringers to 232 ft. 232 thru 237 comprised of dark grey mudstone with lighter silty interlaminations dipping @ approx. 60 deg. from core axis. Minor soft sed. def'm has occured.
237	240½					Mudstone. Black, carbonaceous. Whole section shattered core. Parting along bedding planes.
240½	244½					Siltstone, Light grey m.g. siltstone with minor plastic deforamation and possible cross-bedding, up to 243'. Also a series of highly irregular, open but well healed fractures are concentrated from 240½ - 242'. Mudstone (carbonaceous) occuring at bottom.
244½	248					Mudstone. Black carbonaceous
248	249					Coal
249	253					Mudstone, Black, carbonaceous with parting on bedding planes.
		252	260	76.8	79.2	Coal Seam - FM 3 8' 2.4m
253	255					Coal
255	255⅙					Mudstone, Highly carbonaceous

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

Core Size

Hole No. DDH. 1122

2507-

Diamond Drill Geological Log

Fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: N. Ball Date: September 20, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
255½	260					Coal
260	260.4					Highly carbonaceous mudstone parting
260.4	261.4					Coal
261.4	261.8					Mudstone parting
261.8	264.5					Coal
264.5	265.7					Black, shaley very carbonaceous mudstone, Soft and broken
265.7	273					Mudstone. Dark grey to black. Generally quite hard and massive
273	276					Siltstone. Coarse to med. grained, light grey in color. Slumping visible in bedding
						Some interlaminations of carbonaceous shale.
276	285					Mostly black mudstone. Core quite shattered. Very carbonaceous @ approx 282'. Below
						283' interlaminations of lighter siltstone.
285	291					Primarily v.c.g. siltstone or v.f.g. sandstone with low natural fracture frequency (less
						than 4/ft) Some carbonaceous partings.
291	300					Interlaminations of light grey, c.g. siltstone and carbonaceous mudstone with irregular
						calcite stringers and evidence of minor soft sed. deformations.
300	321					Mudstone. Black massive with minor calcite filled fractures and very little
						interlaminating with siltstone.. Highly carbonaceous partings at 306', 313', 314', 321'
321	337					Siltstone and mudstone interlaminated, very light to medium grey with carbonaceous
						bedding plane fracture surfaces common. Calcite fracture filling @ approx 25 - 30 deg to
						core axis common.
						Black mudstone separations from 325' to 326½', 328'
						- 330', and 332' - 333' Slumping and soft sed def'm
						occurs at 330' and more intensely at 333' - 336'
337	357					Mudstone Dark toned grey. Some calcite fracture filling. Siltstone laminations at approx. 346' thru 355'

Core Size

Hole No. DDH. 1122 Page 5 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

2307-

Diamond Drill Geological Log

Fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: N. Ball Date: September 21, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
357	364					Siltstone. Med. to coarse grained, light grey laminated with partings along carbonaceous bedding planes. Irregular calcite stringers assoc. Grades into a dark grey mudstone at approx 358' - 363' then back to laminated siltstone as above. Again calcite stringers present. Some slumping at approx 357'.
364	378					Mudstone. Dark grey to black with carbonaceous partings @ approx 63 deg. to core axis only indication of bedding. Interlaminated with light grey siltstone 369' - 372', 373' - 376' with soft sed. dem'm evident both places.
378	390					Thinly bedded siltstone and mudstone (light and dauk grey mat'l) with many calcite-filled well healed fractures @ approx 28 deg - 30 deg. to core axis and approx. 145 deg. to bedding. Soft sed. def'm evident through out with possible crossbedding.
390	414					Thinly bedded siltstone with lesser amounts of mudstone. Dominant calcite filled, healed fractures at 34° deg to core axis, 180 deg to bedding. Minor irregular calcite stringers. Cross bedding common, 1 cm coal parting at 409' Series of irregular calcite stringers concentrated between 413' - 414'
414	417.5					Mudstone. Black with carbonaceous bedding plane fracture surfaces. Minor light grey silty interlaminations
417.5	427					Thinly bedded siltstone and mudstone. Calcite stringer and minor slumping.
427	440.5					Mudstone primarily with occassional sections of interlaminated siltstone. Numerous calcite filled fractures @ approx 15 deg - 30 deg to the core axis. At 431.8' occurs a 1 inch thick bed of white crystalline calcite containing very fine interlaminations of argillaceous and carbonaceous matter. Very competent rock with 1 and 2 feet sections of un-broken core common.
		440.0	473.5	134.1	1443	Coal with 2 ' & 1 ' Partings at 457' & 467' Seam F 33.5 (30.5') 10.2 (9.3)m

Core Size

Hole No. DDH. Page 6 of

Color Plot & Dips | Ore Classes & Aver.

40 Scale

0

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: N. Ball Date: September 21, 1978 Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From | To | RAD. LOG In Ft. From | To | In meters From | To

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

From	To					
440.5	457					Coal
457	458½					Mudstone. Black carbonaceous, very broken
458½	467⅓					Coal. Mudstone parting at 465½
467⅓	468½					Mudstone. Black, carbonaceous
468⅓	474½					Coal

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

Core Size

Hole No. DDH. 1122 Page 7 of

2507-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: N. Ball Date: September 27, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
474½	476					Shaley mudstone. Black, highly carbonaceous. Shattered core.
476	476.8					Coal. Shaley
476.8	489					Mudstone. Black with some carbonaceous partings along beddding plane traces 6 - inches
						of gauge mat'l present at 486'. Irregular calcite stringers common from 484' to 486'.
						Minor silty interlaminations at 477' to 480'.
489	509					Interlaminated mudstone (dark grey to black) with light grey, f.g. siltstone. Cross
						bedding fairly common with minor slumping evident. at approx. 495' displacement of 1.5
						c.m. appears along a fracture approx. 21 deg. from core axis. Carbonaceous parting
						(.3 cm), crossing bedding and some soft sed. def'm at 496'. Calcite infilling of
						well-healed fractures common. Carbonaceous plant remains evident in black mudstone
						sections.
509	512					Mudstone. Dull black extremely fine grained. Easily broken by hand. Broken core.
		513	517	156.4	157.6	COAL SEAM - f 4' 1.2m
512	517					Section begins as highly carbonaceous shaley mudstone 513 - 517 shaley coal
517	536					Mudstone, Black fine-grained with interlaminations of light grey siltstone Cross-bedding
						evident in the lighter siltstone. Carbonaceous partings at 521' 530' and 535'
536	545					Interlaminated f.g. sandstone and med. to cg. siltstone with crossbedding common.
						Darker mudstone partings at 538.5 and 540'. Contacts at both ends of section are
						gradational
545	551					Mudstone. Dark grey to black, highly carbonaceous
						partings throughout. Carbonaceous plant remains
						also visible. Interbedded f.g. sandstone and c.g.
		551	556.5	167.9	169.6	siltstone from 548' to 549.5'
						Coal Seam - f 5.5' 1.7m

Core Size

Hole No. DDH. 1122 Page 8 of

0

2507-

Diamond Drill Geological Log

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: N. Ball Date: September 27/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
551	558					Coal. Shaley and quite competent to 555'. Mudstone partings 2-3 cm. thick at approx.
						555.5' and 556'
558	566					Mudstone/shale. Black, v.f.g. with highly reflective (carbonaceous) fracture surfaces.
						Coal partings common from 2-5 mm. thick. Carbonaceous plant remains evident.
566	567					Breccia zone at 566' separating mudstone (upper) and f.g. sandstone (lower) interbedded
						with a darker silty material. One sst. bed 5 cm. thick. At 567' an abrupt return to
						black f.g. mudstone

Core Size

Hole No. DDH. 1122 Page 9 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

2567-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: N. Ball Date: October 12/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. | RAD. LOG In Ft. | In meters

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

From	To	From	To	From	To	
567	573					Mudstone. Black to dark grey, f.g. with highly polished (slickensided) fracture surfaces common.
573	576					Coal. Shaley and quite hard (Fairly competent with up to 6 in. lengths of intact core Very shiny lustre when broken
		572.5	574.5	174.5	175.1	Coal 2' 0.6m
576	586					Mudstone/shale. Black f.g. with slickensided carbonaceous fracture surfaces throughout Coal partings to 5mm present.
586	621					Siltstone/mudstone. Interlaminated light and dark grey bands. Calcite infilling of fractures becoming increasingly abundant with depth. Crystalline calcite in fractures seen @ 590', 595' and 596'. Minor slumping features evident. Irregular but well healed fractures abundent between 588' and 590'.
621	623					Mudstone. Dark grey, m.g. to c.g. with several 4-8 mm wide coal partings.
623	631					Siltstone/Mudstone. Interlaminated light and dark grey. Bedding plane dipping @ approx. 25 deg - 40 deg from core axis. Slumping is present throughout the section f.g. sandstone interlaminated w/siltstone around 630' - 631'. Calcite filled bedding plane fractures common.
631	635.5					Mudstone. Dark grey, f.g. with carbonaceous plant remains. Some calcite infilling of fractures.
						Coal Seam - EU 13' 4.0m
635.5	648	635	648	93.5	97.5	Coal with several carbonaceous mudstone partings.
648	652					Mudstone/shale. Black carbonaceous, broken core, with slickensided fracture surfaces.
652	653					Coal. Shaley extremely shatterd.

Core Size

Hole No. DDH. 1122 Page 10 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

2507-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: N. Ball Date: October 12/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO
DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
653	670.5					Mudstone/ Dark grey to black. Bedding visible when interlaminated with siltstone
						Minor calcite infilling of fractures. Slickensides throughout. Coal partings.
670.5	672					Coal. Powderized and rather dull (lustre)
672	687					Mudstone. Black to dark grey carbonaceous content decreasing with depth . Some
						minor calcite stringer. Slickensided surfaces abundant.
687	695					Siltstone and mudstone interbedded. Siltstone light grey and mdst. dark grey to black
						Breccia zone @ approx 694' and minor slumping below @ 694.5'.

Core Size

Hole No. DDH. 1122 Page 11 of

Color Plot & Dips	Ore Classes & Aver.
40 Scale	

0

2507–

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: N. Ball Date: October 23/78

Composites:

Block | Sect.: | Place: | App. Bear: | App.: Dip.: | Length:

CORE In Ft. From | To | RAD. LOG In Ft. From | To | In meters From | To

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

From	To					
695	704					Siltstone primarily w/minor interlaminations of mudstone. Concentrated zone of irregular calcite stringers @ approx 699'. Possible breccia zone (sharp contact - 13 deg to core axis) @ approx 700'. Siltstone grades into f.g. sandstone grand 703'-704'.
704	710					Sandstone f.g. light grey, interbedded with finer grained, light grey siltstone. Calcite infilling of fractures common.
710	721					Mudstone. dark grey to black with interlaminations of light grey siltstone from 713' - 714'/
721	722.5					Breccia zone. Calcite infilling of broken fine-med gr. steeply-dipping (approx. 30 deg from core axis) bedded sandstone zone is quite well-healed.
722.5	736					Sandstone to 723' f.g. to m.g. bedded and dipping as above followed by black f.g. mudstone from 723' to 724.5' ½" carbonaceous parting separating the mudstone from more light grey steeply dipping, bedding sandstone to 728'. Black carbonaceous and slickensided mudstone to 730' where another carbonaceous parting precedes above sandstone interlaminated with siltstone. Black, carbonaceous, mostly broken mudstone follows to 736'. Cross-bedding present in the sandstones.
736	742					Mudstone and Siltstone interlaminated with slickensided, carbonaceous fracture surfaces common. Core in this section completely shattered.
742	745					Siltstone. Med. to light grey with abundant irregular calcite filled fractures (well healed) up to 3mm. thick. Massive rather than bedded.
745	756					Mudstone. Black to dark grey with carbonaceous coated fracture planes and some calcite infilling 745' to 752' and 754' to 756' are broken and shattered sections.

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

Core Size

Hole No. DDH.

Diamond Drill Geological Log

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: N. Ball Date: October 23/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE in Ft.		RAD. LOG in Ft.		in meters		COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
From	To	From	To	From	To	
756	759					Sandstone, Siltstone and carbonaecous mudstone interlaminated. Calcite infilling of both bedding plane and oblique fractures common. Bedding orientation approx. 35 deg to core axis.

Core Size

Hole No. DDH. 1122 Page 13 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

2507—

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: N. Ball Date: November 1/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. | RAD. LOG In Ft. | In meters

From	To	From	To	From	To	
						COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
759	773					Mudstone. Black with abundant carbonaceous partings evident on fracture surfaces
						(bedding plane). Also on slickensided surfaces. Almost entire section is shattered
						and broken. Some calcite infilling is present
773	784					Siltstone. Med to dark grey interlaminated with black mudstone. Calcite infilling
						common as are slickensided fracture surfaces. Mudstone parting approx 4 in. thick at
						776' also @ 783' (8" thick)
784	793					Sandstone. v.f.g. to f.g. at 784' and grading into m.g. @ approx 786' - 787'. Med to
						light grey, bedded Coloration becoming lighter with increased grain size. Bedding
						plane dipping approx 40 deg to 45 deg from core axis. Well-healed heavily
						fractured (irregular) zone at approx 791.5 - 792'.
793	830.0					Sandstone f.g. to m.g. interbedded with darker grey silty material. Some calcite
						infilling of fractures evident. Much broken core in this section but both rock types
						very hard. Brecciated zone from approx 806.5 to 807.5 preceded by fig.. sst. and
						followed by shaley siltstone. Bedding plane orientation generally 30 deg - 40 deg.
						from core axis. Some slumping features visible at 820', 823'. Minor pyrite present.
						Minor bituminous partings. Siltstone is more abundant toward end of intersection
830.0	837.0					SST/SLTST- Grey to d.K. grey, fine gr. SLTST is interbedded w H. Grey to cream fine to
						med. gr. SST Bedding in SST is @ a 40 deg to core axis. Bituminous partings
						common in the silty layers calcite lining fractures in SST.
837.0	916.5					SST-SLTST grey to cream fine to med gr. SST
						grading into med to coarse grained grey & white
						salt & peper. SST. Core bedding angle is approx.
						40 deg bituminous partings & abundant calcite
						veining cross cutting bedding along smoothe, stepped or irregular fractures. Core is badly broken

Core Size

Hole No. DDH. 1122 Page 14 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

2307-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS

Date: December 6/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE in Ft. From	CORE in Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
						Inberbeds of fine grained SST from 2-6" thick exist @ 880.5' and 886' within the med.
						g SST's. Mud clasts of irregular rounded shapes are included @ 882' & 885'. They are
						of varying sizes. Bituminous partings & bands common @ 872 - 874'
916.5	920.5					SLTST- Grey fine gr. SLTST w/ abund. bituminous partings & minor calcite fracture
						fillings badly broken core
920.5	927.0					SLTST/SST - Grey fine gr. SLTST is interbedded w/ H. grey to cream fine to med. gr.
						SST SST/SLTST contacts are irreg. due to soft sediment def'm. Abundant bituminous
						partings & calcite coating on fractures. Broken core.
927.0	931.5					SLTST - Dk grey, fine gr. SLTST w/ abundant bituminous partings broken core.
931.5	939.0					SST/SLTST - Lt. grey to cream fine gr. SST contains minor interbeds & clasts of grey
						brown fine gr. SLTST. Core is bakdly broken. Minor bituminous partings Most
						fractures are clear & irregular. A few have secondary calcareous coatings. Some
						nalcite veins 937-938'

Core Size HQ

Hole No. DDH. 1122

Page 15 of

40 Scale

Color Plot & Dips	Ore Classes & Aver.

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2507-

Diamond Drill Geological Log

Fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Logged By: MRS Date: Dec 8/78

Sampled:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO

DIRECTIONAL SURVEY DONE ☐YES ☐NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
939.0	962.0					SLTST/SST - DK Grey to greyish brown med. gr. SLTST has minor interbeds of H. Grey to cream. fine gr. SST w/ wispy bdg. There is some evidence of soft sediment def m @ 949' Bituminous partings are common. Some secondary calcite on fracture surfaces. Bedding is approx. 55 deg to core axis. Core is badly broken 942.5 - 943.5 & 950 - 951.5'. The rock quality has improved in this section.
962.0	963.5					Mudstone, Black, v fine gr. mudst. w/ abund bituminous partings
		965.0	980.5	294.1	298.9	Coal Seam - EL 15.5 4.7m
963.5	972.0					Coal - Black , Shiny coal - Broken core.
972.0	973.0					Coal/Mudst. - black shiny coal is interbedded w/ black, fine gr. coal. Broken
973.0	980.5					Coal - Black shiny coal broken core.
980.5	1007.0					Mudst. - Dk. grey to black fine gr. mudstones w/ abundant bituminous partings. Abundant calcite coatings on partings and in veins
1007.0	1016.0					SLTST/MUDST/SST- Lt. grey, fine gr. SST is interbedded w/ brownish grey to dk/grey, fine gr. SLTST & minor black fine gr. mudst. Bedding is @ Approx. 40 deg to the core axis. At 1015' a clast (?) displays festoon bedding (?) on core in-conistructured(?) Bituminous partings are abundant there is some calcite coating on the bituminous partings calcite veins are common some with a limonite stain.

Core Size

HQ

Hole No. DDH. 122 Page 16 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

2567-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: Dec. 13/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. | RAD. LOG In Ft. | In meters

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO

DIRECTIONAL SURVEY DONE ☐YES ☐NO

CORE From	CORE To	RAD. LOG From	RAD. LOG To	In meters From	In meters To	
1016.0	1033.0					Mudstone - Blank to lt. brown in part blotchy mudstone, fine grained with abundant bituminous partings. Calcite & limonite veining common.
1033.0	1039.5					Mudstone/Caol - Interbedded black & brown, fine grained mudstone and black shiny coal coal bands range up to about 4 inches thick.
1039.5	1050.0					Mudstone - Black, coarser grained mudstone with abundant bituminous partings. Breaks with irregular to concoidal fractures. Minor calcite veining with minor limonite.
1050.0	1067.0					Siltstone/Sandstone. Fine grained black siltstone is interbedded with very fine grained light grey brown sandstone. Sandstone shows evidence of soft sediment deformation due to a compressive stress. Bituminous partings are abundant. There is minor calcite veining with some limonite stain. Bedding @ Approx. 45 deg. to core axis.
1067.0	1078.0					Mudstone/Siltstone- black to brown fine grained mudstone is interbedded with light brownish grey, coarse grained siltstones. Bituminous partings common. Celcite veining common with limonite stain. There are @ 20 deg. or 90 deg. to the core axis or form irregular patterns.

Core Size

Hole No. DDH.

Page 17 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

2507-

Diamond Drill Geological Log

Fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS

Date: December 18/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
1078.0	1086.5					Siltstone/ Sandstone- Brownish grey to black medium grained siltstone interbedded with fine grained light grey to cream sispy sandstone. Bituminous partings common. Limonite starined calcite veins form networks at 1078 - 1079', 1081', 1082'- 1084', 1088' - 1086'
1086.5	1102.5					Coal - Black, shiny coal, badly broken
		1086	1102	331.0	335.9	Coal SEAM - D 16' 4.9m
1102.5	1103.5					Siltstone/Coal - Black finegrained siltstone forms narrow interbeds with black shiny hard coal
1103.5	1114.0					Sandstone/Siltstone- Light brownish grey, fine to medium grained sandstone is interbedded with dark brownish grey, fine grained siltstone A 6" coal seam exists @ 1104.5 to 1105.0. Calcite veining is abundant forming networks in places. There is some evidence of soft sediment deformation. Bituminous partings are abundant & core is badly broken from 1111' to end of intersection
1114.0	1115.0					Coal - Black, shiny, crumbled coal

Core Size

HQ

Hole No. DDH. 1122

Page 18 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

2507-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: Dec. 19/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
1115.0	1125.5					Sandstone/Siltstone. Light grey to cream to tan fine to medium grained is interbedded with dark grey brown fine grained siltstone. There is a 2 in. coal unit @ 1117.2'. Sandstone is more abundant towards the base of the intersection. Bituminous partings are common. Calcite veining & calcite coatings on partings on surfaces are common. Core is badly broken, from 1118 - 1120 is SST Rubble
		1125.0	1135.5	342.9	346.1	Coal seam - DL 10.5' 3.2m
1125.5	1137.0					Coal - Black, shiny coal badly broken Sample #26274
1137.0	1138.0					Coal/Mudstone - Interbedded black shiny coal & dark grey to tan weathering mudstone w/ minor calcite veining
1138.0	1141.5					Coal - Black, shiny coal, badly broken Sample #26275
1141.5	1146.0					Coal/Mudstone - Interbedded black shale & black shiny hard coal, badly broken
1146.0	1153.0					Siltstone- Interbedded light & dark grey, medium to coarse grained siltstones Bituminous partins common must also with a calcareous coating. (magnesite) There is some limonite stain in places turning calcite veinlets oragne. Bedding is approx. 65 deg. to the core axis. Calcite veins are from 15 deg to 45 deg from the core axis and approx. 140 deg to Bedding
1153.0	1180.0					Sandstone/Siltstone - dark grey brown medium grained siltstone is interbedded with light grey to cream fine grained Sandstone with wispy bedding. There is evidence of soft sediment deformation and a locallized fault black causes a 7mm displacement. Core is stained

Core Size HQ

Hole No. DDH. 1122 Page 19 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

3507-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: Jan 9/79

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. | RAD. LOG In Ft. | In meters

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG [X] YES [ ] NO

DIRECTIONAL SURVEY DONE [ ] YES [ ] NO

From	To	From	To	From	To	
						orange from 1154' to 1155', from iron staining. Calcite veins are
						abundant some of these also stained orange. Bedding is approximately
						60 deg. to the core axis. Calcite veins are about 190 deg to bedding
						Bituminous partings are less common here but they do exist expecially
						associated with siltstones. Core is badly broken 1167 - 1171 and 1172 -
						1174'.
1180.0	1184.0					Sandstone- Light grey to cream, medium grained sandstone with bedding @
						70 deg. to the core axis; well sorted. Few bituminous partings, mostly
						clean with minor calcareous cratings. Core badly broken 1183 - 1184'
						Rock quality 30 %.
1184.0	1186.0					Sandstone/Siltstone- Interbedded fine grained light grey sandstone & dk.
						brownish grey to black, fine to medium grained siltstone. Bedding @ 70
						deg. to core axis. Magnesite veining abundant parallel to &. cross
						cutting bedding. Bituminous partings common.
1186.0	1188.0					Sandstone- light grey to cream, fine grading into coarse grained well -
						sorted sandstone. Bedding in fine gr. portion is approx 85 deg. The
						coarse grained portion is massive. Core is badly broken in part.
						Bituminous partings common. Minor magnesite veining is part iron stained.

Core Size

HQ

Hole No. DDH. 1122 Page 20 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

2507-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS. Date: January 9/79

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. | RAD. LOG In Ft. | In meters

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ~~XXXX~~ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

From	To	From	To	From	To	
1188.0	1189.5					Siltstone/Sandstone - Dark grey brown coarse grained siltstone is interbedded w/ light brownish grey, fine grained sandstone. Bedding deformed due to soft sediment deformation Bituminous partings are common. There are minor magnesite veinlets cross-cutting bedding.
1189.5	1200.0					Sandstone- Alternately fine and coarse grained, cream to brownish grey well-sorted sandstones. Bedding 65 deg. to core axis are massive Bituminous partings abundant. Few magnestic veins, iron stained.
1200.0	1200.5					Mudstone - Dk greyish brown, fine grained mudstone w/ bituminous partings
1200.5	1210.0					Sandstone- medium to coarse gr. sandstones, grey to cream, bedding @ 60 deg. to 70 deg. to core axis. Bituminous partings common. Minor magnesite veining iron stained.
1210.0	1213.5					Siltstone- dk. brownish grey to black very fine grained siltstone w/ some bituminous partings & minor iron stained magnesite veins. Core broken 1210 - 1211.

Core Size

HQ

Hole No. DDH. 1122

Color Plot & Dips	Ore Classes & Aver.

40 Scale

0

2307-

Diamond Drill Geological Log

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: January 10/79

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
1213.5	124.0					Sandstone - Cream to grey, medium to coarse grained sandstone. Bedding is at 55 deg. to the core axis. Beds are from 2 min to 1 cm thick. Partings are generally clean with minor bituminous partings, Sandstone is well-sorted.
1240.0	1241.5					Sandstone/Siltstone - Interbedded cream to grey fine to coarse grained Sandstone & brownish grey medium grained siltstone. Corase grained sandstone forms a 6 in. unit @ 1241.0 - 1241.5' 1 cm coal band @ 1240.0'. Bedding @ 70 deg to core axis.
1241.5	1245.0					Siltstone/Sandstone - Grey to tan, medium grained siltstones within interbeds of light grey v.f.g. sandstone. Some soft sediment deformation & pseudo nodules. Minor calcite veins.
1245.0	1250.0					Mudstone - Brownish grey to dk. grey in part orange stained coarse grained mudstone Partings are mainly bituminous w/minor calianeous coatings, or clean minor calcite veins.
1250.0	1258.0					Siltstone/Mudstone/Sandstone- very minor light grey very fine grained thin SST bands are interbedded with dk. grey, fine grained siltstone & dark grey to tan fine grained mudstone. Bituminous partings common. A qtz. vein a 1 cm thick @ 1252'

Core Size: HQ

Hole No. DDH. DDH#1122 Page 22 of

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: January 16, 1979

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
1258.0	1278.5					Sandstone/Siltstone - Light grey to cream medium grained, wispy sandstone interbedded with grey, dark grey to black and tan medium to coarse grained siltstone Bituminous partings common. Calcite veining abundant cross cutting, bedding & filling fractures. Badly broken cone 1265.5' - 1265.5' approx. 1267' - 1270' the siltstone is limy - effervesces w/dilute HCL.
1278.5	1286.5					Sandstone - Light grey to cream sandstone w/ dk grey bands well, sorted. Some cross-bedding indicating tops up. Few bituminous partings, mostly clean fractures. Core badly broken 1284' - 1285'. Few calcite veins.
1286.5	1293.0					Siltstone/ Sandstone - Medium gr. dk. grey to brownish grey siltstone is interbedded w/ lt. grey to cream med. gr. SST. Bituminous partings common. Few calcite veinlets.
1293.0	1296.0					Sandstone - Medium grained light brownish grey & dk. grey banded sandstone. Darker bands are finer grained . Partings are bituminous or clean. Few calcite veinlets cross-cutting bedding. Bedding @ 75 deg to core axis. Jointing @ 60 deg. to core axis.
1296.0	1304.0					Siltstone/Sandstone - Light grey, tan & black, med to coarse gr. siltstone is interbedded with fine to med. gr. lt. grey to lt. brownish grey sandstone. The black siltstone shows and abundance of bituminous partings. Bedding @ 75 deg. to core axis. A fault runs @ 15 deg to core axis and 0 deg. to bedding. The black siltstone is faulted up against sandstone. Fault gouge is about 6 mm wide w/ minor breccia frags. Displacement is greater than 2 feet. There is calcite veining and bituminous partings thru-out the section

Core Size

HQ

Hole No. DDH. 1122 Page 23 of

2567-

Diamond Drill Geological Log

COAL LIMITED

Objective:

Logged By: MRS

Date: Jan. 17.79

Sampled:

Composites:

Block:

Sect.:

Place:

App. Bear:

App.: Dip.:

Length:

40 Scale

Color Plot & Dips

Ore Classes & Aver.

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	Description
1304.0	1315					Sandstone- Medium grained, cream, Lt. grey to dark grey sandstone. Bedding approx 65 deg. to core axis, wispy in places. Bituminous partings common. Calcite veins common some @ 180 deg. to bedding, some irregular. There is a 2" bituminous shale section @ 1313'.
1315.0	1340.0					Siltstone/Sandstone - Dark grey to black fine gr. siltstone with interbeds of fine grained light grey to lt. brownish grey sandstone. There is some evidence of soft sediment deformation with small scale slumping & load casting. Beds are of variable thicknesses. Bituminous partings are abundant & calcite veinging is faily common. Joint surface generally contain both bitument & calcite @ 1326' soft sediment slumping causes isoclinal folding. There is also abundant calcite veining@ this point. Core is broken 1325.5 - 1328'.

Core Size: HQ

Hole No. DDH. 1122

Page 24 of

0

Diamond Drill Geological Log

Fording River Operations

Objective:

Sampled:

Logged By: MRS. Date: Jan. 22/79

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
1340.0	1343.0					Siltstone - Very fine grained, black siltstone w/ abundant bituminous partings. Core is quite broken.
1343.0	1343.5					Siltstone/Coal - Badly broken black siltstone w/ abundant bituminous partings & narrow coal interbands.
1343.5	1345.0					Coal - Black, shiny, crumbled coal.
		1344.0	1350.5	409.6	411.6	Coal with 1.5' mudstone parting Seam-A 6.5 (5') 2(1.5)M
1345.0	1345.5					Mudstone- Light brownish grey, highly broken, poorly consoliated mudstone
1345.5	1346.0					Coal - Black shiny coal, broken core, poor recovery,
1346.0	1346.5					Mudstone - Lt. greyish brown, partly unconsolidated mudstone.
1346.5	1347.0					Coal - Black, shiny coal, broken core
1347.0	1348.5					Mudstone- Lt. Greyish brown, partly unconsolidated mudstone, poor recovery

Core Size
HQ

Hole No. DDH. 1122

Page 25 of 27

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

#15395 Sample
#1343.0 - 1349.5'

Diamond Drill Geological Log

Fording Coal Limited

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: Jan 22/79

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO

DIRECTIONAL SURVEY DONE ☐ YES ☐ NO

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	
1348.5	1349.5					Coal - Black shiny coal, crumbled core.
1349.5	1350.0					Sandstone- poorly consolidated grey brown medium grained sandstone.
1350.0	1360.0					Sandstone- Lt. grey brown medium grained sst. bedded, beds from (1mm to approx 3 mm)
						Mostly clean partings afew w/ calcareous coatings 1354.5 - 1355.5 is
						badly broken w/ some poorly consolidated material. Minor calcite veining
						Probable fault zone @ 1355'
1360.0	1382.0					Sandstone/Siltstone - Fine grained, light grey to cream sandstone is interbedded with
						grey, fine grained siltstone. Bedding is at approx. 70 deg. to the core
						axis. Beds are of variable thicknesses from 1 mm to several centimeters
						Bituminous partings are abundant. Calcite veining is fairly common. Core
						is badly broken in places. Some fault gauge.
1382.0	1418.0					Siltstone / w/ Fault Gauge/ Grey to dk. grey fine grained siltstone contains sections
						of poorly consolidated material, probably fault gauge

Core Size: HQ

Hole No. DDH. 1122

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

2567-

Diamond Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: MRS Date: Jan 29/79

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

CORE In Ft. From	CORE In Ft. To	RAD. LOG In Ft. From	RAD. LOG In Ft. To	In meters From	In meters To	COAL INTERSECTIONS CORRECTED BY GAMMA RAY - NEUTRON LOG ☐YES ☐NO DIRECTIONAL SURVEY DONE ☐YES ☐NO
1418.0	1422.0					Siltstone/Sandstone W/ Fault Gauge. Fine grained, dk grey sandstone is interbedded w/ medium to coarse gr. siltstone. Thick gauge zones exist made up of siltsize friable material, dk. grey. Bituminous partings abundant. Minor Minor calcite veining.
1422.0	1437.0					Siltstone/w/Fault Gauge - This unit is called the 'Fernie Formation' on the Roke logs. It is a dark grey to black medium grained siltstone with abundant bituminous partings & common calcite veining. Gauge zones exist of dk. grey, very friable siltsized material. They are about one foot thick.
						The remainder of the core is in Fernie Formation & has been omitted. Hole ends @ 1571'.
						July 12, 1978

Core Size HQ

Hole No. DDH. 1122

Page 27 of 27

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

Diamond Drill Geological Log

K. FORDING 78(3)B-4

RH-1123

Objective:

Sampled:

Logged By: R.K. Date: November/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	484,000 N.	GREEHNILLS S.			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG

From	To	Discard: m	m	
0	3			Overburden
3	13			Mudstone
13	40			Siltstone and silty sandstone
40	99			Mudstone
99	104	30.18	31.70	Coal 5' 1.52m SEAM - K
104	130			Siltstone, sandstone band at 118'
130	136			Mudstone
136	138	41.45		Coal 2' 0.61m
138	162			Mudstone and siltstone interbeds
162	167			Sandstone
167	190			Mudstone
190	206			Siltstone
206	219			Silty sandstone
219	226			Mudstone
226	228	68.88		Coal 2' 0.61m
228	286			Mudstone, siltstone 270-275'
286	294	87.17	89.61	Coal 8' 2.44m SEAM - J3
294	316			Sandy siltstone, mudstone near bottom
316	318	96.32		Coal 2' 0.61m
318	324			Mudstone
324	330			Sandstone
330	332	100.58		Coal 2' 0.61m
332	366			Mudstone near top, siltstone, SS band at 346'

Core Size

Hole No. RH 1123

Page 1 of 2

322

2507-

Diamond Drill Geological Log

Cominco

Objective:			Sampled:		
Logged By:	Date:		Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

40 Scale

Color Plot & Dips | Ore Classes & Aver.

From	To	Discard: m	m	Reason:
366	377	111.56	114.91	Coal 11' 3.35m SEAM - J1
377	381			4' Mudstone
381	384	116.13	117.04	Coal 3' 0.91m
384	390			Mudstone
390	392	118.87		Coal 2' 0.61m
392	406.5			Mudstone to 400' and sandstone
406.5	408	123.90		Coal 1.5' 0.46m
408	432			Mudstone
432	441			Sandy siltstone
441	453			Mudstone
453	488			Sandstone band at top, siltstone, some mudstone at bottom.
488	498.5	148.74	151.94	Coal 10.5' 3.20m SEAM - I
498.5	500			1.5' mudstone
500	501			Shaley coal 1'
501	511			Mudstone
511	513	155.75		Coal 2'
513	520			Mudstone
520	531			Siltstone
531	552		168.25	Sandstone
				END OF HOLE
				MAY 12, 1978

Core Size

Hole No. RH 1123

Page 2 of 2

2507--

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	H	A	VM	FC	FSI	S	REMARKS
57	59	C ES	22701		2		44.6			3 1/2		
99	101	P.A. 90 S FSI →	22702		2		17.7			5 1/2		
101	103		22703		2		46.8			2 1/2		
103	105	C ES	22704		2		57.0			1 1/2		
			22702	12,332	2	0.5	17.8	32.0	49.7	5 1/2	0.51	
137	139		22830		2		45.3			5		
225	227		22705		2		12.8			8		
227	229	C ES	22706		2		77.2			0		
229	231	C ES	22707		2		44.0			3		
247	248	C	22708		1		41.7			4 1/2		
250	252	C ES	22709		2		60.6			1/2		
280.5	284.5	C	22710		2		13.4			7		
284.5	291.5		22711		2		10.0			8		
291.5	293.5		22712		2		13.3			7 1/2		
293.5	295.5	SEAM - 1.3	22713		2		17.4			7 1/2		
		COMPO.		13,058	8	0.5	13.8	30.7	55.0	7 1/2	0.67	PETROGRAPHY.
316	318		22714		2		43.3			3		
318	319		22715		1		27.3			8		
331	333		22716		2		29.8			6		
333	334	C ES	22717		1		70.5			1/2		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
366	368		22718		2		54.7			3 1/2		
368	370		22719		2		5.3			8		
370	372	SEAM - J1	22720		2		16.8			8		
372	374		22721		2		13.5		—	7 1/2		
374	376		22722		2		14.0			7		
376	378		22723		2		32.0			6		
378	380		22724		2		54.6			2 1/2		
381	383	COMPO.		12,327	10'	0.9	17.3	28.4	53.8	7	0.65	PETROGRAPHY.
383	385		22725		2		17.3			7 1/2		
			22826		2		15.5			8		
386	385	COMPO.			18/19'							
392	394		22831		2		36.2			5 1/2		
408.5	409.5		22832		1		43.0			6		
419	421		22833		2		43.4			4		
467	469		22834		2							
469	471		22835		2							
471	473		22836		2							
473	475		22837		2							
475	477		22838		2							
477	479	C.F.S.	22839		2							
479	481	C.F.S.	22840		2							
481	483	C.F.S.	22841		2							
483	485	C.F.S.	22842		2							

SAMPLES MISSING

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
487	489		23426			2		29.3			6 1/2		
489	491	SEAM - I. 23427,	23433			2		34.0			5 1/2		
			22843					34.5			6 1/2		
491	493		22844			2		61.4			1		
493	496		23428			3		22.6			7 1/2		
497	499		23429			2		2.3			8 1/2		
487	499	COMPO.		11,083		11 1/2	0.5	27.0	26.3	46.2	6	0.82	
501	503		23430			2		9.2			8		
505	507		23431			2		4.5			7 1/2		

Diamond Drill Geological Log

K - FORDING 78 (3) B-4

KH - 1124

Cominco

Objective:

Sampled:

Logged By: R.K. Date: November/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	483,000 N	GREENHILLS S.			

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	17	0	5.18	Overburden
17	81			Mudstone with occasional siltstone bands. Coal stringers at 34'
81	83	24.69		Coal 2' 0.61m
83	88			5' mudstone
88	89.5	26.82		Coal 1.5' 0.46m
89.5	105			Mudstone
105	136			Siltstone, silty sandstone intervals.
136	143			Mudstone
143	145	43.59		Coal 2' 0.61m
145	168			Silty sandstone and siltstone
168	195			Mudstone, coal stringers at 190'
195	220			Siltstone
220	238			Mudstone
238	257			Siltstone near top and mudstone
257	259	78.33		Coal 2' 0.61m
259	265.5			Mudstone
265.5	271	80.92	82.60	Coal 5.5' 1.68m SEAM - J3
271	277			Top 2' mudstone and sandstone
277	347			Interbedded mudstone and siltstone, silty sandstone 311-319'
347	366			Sandstone, siltstone near bottom.
366	380			Mudstone with bands of siltstone
380	401.5	115.82	122.38	Coal 21.5' 6.55m SEAM - J1
401.5	422			Mudstone, 417-422' Shaley coal and shale

Core Size

Hole No. RH 1124

Page 1 of 2

322

2507-

Diamond Drill Geological Log

Cominco

Objective:				Sampled:		
Logged By:	Date:			Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:	

40 Scale

Color Plot & Dips | Ore Classes & Aver.

From	To	Discard: m	m	Reason:
422	521			Mostly siltstone, sandstone intervals 429-444' and 505-511'
521	526			Mudstone
526	536.5	160.32	163.53	Coal 10.5' 3.20m SEAM - I
536.5	552			Mudstone
552	556	168.25	169.47	Coal 4' 1.22 m
556	563		171.60	Siltstone
				END OF HOLE
				MAY 10, 1978

Core Size

Hole No. RH 1124

Page 2 of 2

2507--

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
35	37	C&S	22780		2		43.4			1		
83	85		22781		2		30.9			0		
85	87		22782		2		55.9			1		
87	89		22783		2		57.0			1		
145	147	C&S	22751		2		43.3	4		4 1/2		
191	193	C&S	22752		2		21.4			6		
258	260	C&S	22753		2		37.6			3		
265	267	SEAM - J3	22754		2		11.3			7		
267	269		22755		2		4.1			7 1/2		
269	270	C.ES	22756		1		52.7			3		
		COMPO.		13,817	4'	0.6	8.0	31.4	60.0	7	0.67	PETROGRAPHY
379	381		22757		2		49.2			4		
381	383		22758		2		22.6			7		
383	385		22759		2		70.2			1		
385	387	SEAM - J4	22760		2		38.0			4 1/2		
387	389		22761		2		16.0			5 1/2		
389	391		22762		2		14.7			7		
391	393		22763		2		37.5			4		
393	395		22764		2		34.3			3		
395	396		22765		1		22.7			7		
		COMPO.		9,673	15'	0.5	32.6	25.6	41.3	6	0.85	PETROGRAPHY

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
399	401		22766		2		13.0			7 1/2		
401	403		22767		2		8.3			7 1/2		
		COMPO.		13,212	4	0.6	11.2	31.1	57.1	7 1/2	0.13	
418	420		22768		2		50.1			2		
420	422		22769		2		52.0			3 1/2		
422	424		22770		2		47.1			3		
527	529		22771		2		—			—		
529	531		22772		2		9.6			7 1/2		
531	533		22773		2		12.5			1 1/2		
533	535	SEE M-I	22774		2	9.3	~~9.3~~			~~7 1/2~~		ASSAY SEPT 21
535	537		22775		2		16.8			2		
537	539		22827		2	29	~~29~~			4 ✓		
539	541	C&S	22828		2		11.6			7 1/2		
		COMPO.		11,074	12	0.6	25.3	24.8	49.3	5 1/2	0.47	PETROGRAPHY.
554	556	C&S	22829		2		15.9			7		

Diamond Drill Geological Log

Cominco

Objective:			Sampled:			
Logged By:	Date:		Composites:			
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:	

From	To	Diacard: m	m	Reason:
497.5	514.5	151.64	156.82	Coal 17' 5.18m SEAM - I
514.5	528.5			Mudstone near top and sltstn.
528.5	531.5	161.09	162.00	Coal 3' 0.91m
531.5	538		163.98	Siltstone
				END OF HOLE
				AUGUST 16, 1978

40 Scale

Color Plot & Dips	Ore Classes & Aver.

0

Core Size

Hole No. RH 1125

Page 2 of 2

2507-

Diamond Drill Geological Log

K-Fording 78(3)B-4

RH-1125

Cominco

Objective:

Sampled:

Logged By: R.K. Date: November/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	482,000 N	GREENHILLS S.			

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	3			Coal 3' ??
3	71			Interbedded mudstone and sandy siltstone
71	98			Sandstone
98	110.5			Silty mudstone
110.5	113	33.68		Coal 2.5' 0.76m
113	123			Silty mudstone
123	159			Sandstone
159	192.5			Sandy siltstone
192.5	196	58.67		Coal 3.5'
196	212.5			Mudstone and siltstone
212.5	218.5	64.77	66.60	Coal 6' 1.83m SEAM - J3
218.5	225			Mudstone
225	252			Sandstone, siltstone near top
252	263.5			Sandy siltstone
263.5	266.5	80.31	81.23	Coal 3' 0.91m
266.5	304			Silty sandstone, silty mudstone interbed 282-290'
304	321.5			Siltstone, some mudstone
321.5	327.5	97.99	99.82	Coal 6' 1.83m
327.5	342			Mudstone
342	371			Sandy siltstone
371	385	113.08	117.35	Coal 14' 4.27m SEAM - J1
385	497.5			Siltstone with sandy intervals, mudstone with coal stringers 409-417'

Core Size

Hole No. RH 1125

Page 1 of 2

322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
69	66		24153		2		30.2			4		
193	195											
219	221		24154		2		38.9			4		
326	328		24155		2		10.7			7½		
328	334		24156		2		8.3			7½		
326	330	COMPO.		13,022	4'	0.9	9.9	32.3	56.9	7	0.87	
370	372		23781		2		12.2			7½		
372	374		782		2		13.8			7		
374	376		783		2		11.9			7		
376	378		784		2		30.6			6½		
378	380		785		2		18.2			7		
380	382		786		2		15.2			6½		
382	384		787		2		15.7			7		
384	385		23788		1		NO SAMPLE					
370	384	SEAM - #1 COMPO.		12,678	14'	0.7	17.2	28.8	53.3	7	0.76	
408	410		23789		2		32.6			5½		
410	412		790		2		51.6			2		
412	414		23791		2		45.4			3½		
414	416											

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
500	502		23793		2		17.8			7		
502	504		794		2		12.0			7		
504	506		795		2		14.7			7		
506	508		796		2		21.4			7		
508	510		797		2		23.2			7 1/2		
510	512		798		2		29.7			5		
512	514		799		2		31.0			4 1/2		
514	516	C & Sh.	23800		2		63.1			1		
516	518	" "	26002		2		51.4			2		
518	520		26003		2		57.2			2		
500	514	SEAM - I COMPO.		12,247	14'	0.7	21.0	28.0	50.5	6 1/2	0.68	

Diamond Drill Geological Log

K-FORDING 78(3)B-4

RH-1126

Cominco

Objective:

Sampled:

Logged By: R.K. Date: November/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	481,750 N	GREENHILLS S.			

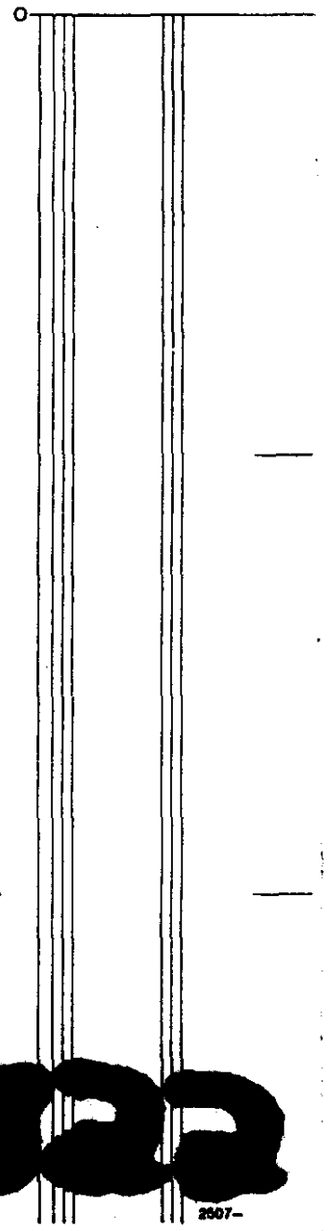
Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG

From	To	Discard: m	m	
0	49	0	14.94	Overburden (53' casing, Driller: 0-25' clay and gravel and 25-45' clay and shale)
49	105.5			Mostly siltstone with several mudstone interbeds.
105.5	111	32.16	33.83	Coal, top 2' shaley. 5.5' 1.68m
111	117			Mudstone
117	141			Sandy siltstone, mudstone near bottom.
141	153.5	42.98	46.79	Coal 14.5' 4.42m SEAM - J1
153.5	182			Mudstone, siltstone, 159-163', two 1' and 1.5' coal bands at 176' and 179.5'
182	200			Sandstone
200	270			Interbedded mudstone and siltstone, sandy siltstone 216'-224'
270	280.5	82.30	85.50	Coal 10.5' 3.20m SEAM - I
280.5	302			Mudstone, bands of siltstone
302	304	92.05		Coal 2' 0.61m
304	353			Sandstone with interbeds of mudstone
353	430			Siltstone
430	454			Siltstone with interbeds of sandstone
454	460			Silty mudstone
460	480	140.21	146.30	Coal 20' 6.10m SEAM - H
480	494			Mudstone
494	498	150.57	151.79	Coal 4' 1.22m
498	518			Mudstone
518	531		161.85	Silty sandstone and siltstone
				END OF HOLE
				JULY 5, 1978

Core Size

Hole No. RH 1126

Page 1 of 1



ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
84	85		25372		1		61.9			1		
97	99		25373		2		43.3			5		
99	101		25374		2		28.4			7		
101	103		25376		2		32.5			7		
103	105		25377		2		63.8			1		
97	103	COMPO.		12,784	6'	0.1	34.2	24.9	40.8	5 1/2	0.84	
132	134		25378		2		7.7			7 1/2		
134	136		379		2		10.1			6 1/2		
136	138		380		2		19.9			6		
138	140		381		2		41.8			3		
140	142		382		2		12.6			7		
142	144		383		2		8.8			7		
144	146		25384		2		30.0			6 1/2		
132	146	SEAM - J 1 ✓ COMPO		12,485	14'	0.2	19.2	28.0	52.6	6	0.72	
167	169		25385		2		61.0			1		
169	171		386		2		39.5			4 1/2		
171	173		25387		2		57.4			1 1/2		
262	264		25388		2		19.0			6 1/2		
264	266		389		2		6.4			7 1/2		
266	268		390		2		3.8			7 1/2		
268	270		391		2		4.1			7 1/2		
270	272		392		2		9.2			8		
272	274		393		2		47.6			3		
274	276		25394		2		44.2			1 1/2		

SEAM - I

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
276	278		25395		2		49.7			1		
278	280		25396		2		61.7			1		
262	272	SEAM - I ✓ COMPO.		10,799	10	0.5	8.9	30.2	60.6	7	0.64	
293	295		25397		2		20.0			6 1/2		
451	453		25398		2		10.9			6 1/2		
453	455		399		2		16.1			7 1/2		
455	457		25400		2		12.7			7 1/2		
458	459		25401		1		17.6			7 1/2		
459	461		402		2		12.5			7		
461	463		403		2		11.4			7		
463	465		404		2		8.6			7 1/2		
465	467		405		2		7.6			6 1/2		
467	469		406		2		11.8			5		
469	470		25407		1		43.7			4		
451	460	SEAM - H ✓ COMPO		13,518	17/8	0.4	12.5	28.2	58.5	7	0.51	
485	487		25408		2		23.3			6 1/2		
487	489		409		2		37.3			5		
490	492		410		2		60.2			1		
492	494		25411		2		74.8			1 1/2		
485	489	COMPO.		10,637	4'	0.3	30.8	23.5	45.4	6	0.45	
518	520	C & SH.	25412		2		36.0			6		

Diamond Drill Geological Log

Cominco

RH-1127

K-FORDING 78(3)B-4

Objective:

Sampled:

Logged By: R.K.   Date: November/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	481,500 N.	GREENHILLS S.			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG.

From	To	Discard: m	m	
0	50	0	15.24	Overburden (Casing 55')
50	53.5			Mudstone
53.5	61.5	16.31	18.75	Coal 8' 2.44m } SEAM - J3
61.5	64			2.5' Mudstone } SEAM - J3
64	68	19.51	20.73	Coal 4' 1.22m } SEAM - J3
68	79.5			Mudstone, some siltstone
79.5	85.5	24.23	26.06	Coal 6' 1.83m
85.5	90			Mudstone
90	106			Siltstone
106	130			Mostly sandstone with siltstone interbeds
130	151			Siltstone, mudstone 143-148'
151	155	46.02	47.24	Coal 4' 1.22m
155	188			Mudstone near top, siltstone
188	198	57.30	60.35	Coal 10' 3.05m SEAM - J1
198	226			Interbedded mudstone and siltstone
226	235			Sandstone
235	294			Mostly siltstone with interbedded mudstone
294	305	89.61	92.96	Coal 11' 3.35m SEAM -I
305	318			Mudstone
318	325			Sandstone, mudstone near bottom
325	326			Coal 1'
326	451.5			Mostly siltstone with interbeds of sandstone, bands of mudstone.

Core Size

Hole No. RH 1127

Sampling Notes & Aver.

322

Diamond Drill Geological Log

Cominco

Objective:				Sampled:			
Logged By:		Date:		Composites:			
Block:		Sect.:	Place:	App. Bear:	App.: Dip.:	Length:	

From	To	Discard: m	m	Reason:
451.5	471.5	137.62	143.71	Coal 20' 6.10m SEAM - H
471.5	482			Mudstone
482	486	146.91	148.13	Coal 4' 1.22m
486	506			Mudstone
506	523			Sandy siltstone
523	525	159.41		Coal 2' 0.61m
525	564			Sandy siltstone
564	580	171.91	176.78	Coal with 1' shale band at 571' 16(15)' 4.88(4.57)m SEAM - G
580	584			Mudstone
584	598		182.27	Sandstone, siltstone near bottom.
				END OF HOLE
				AUGUST 14, 1978

40 Scale

Color Plot & Dips	Ore Classes & Aver.
0	

Core Size

Hole No. RH 1127

Page 2 of 2

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
150	152		25295		2		37.7			4 1/2		
152	154		25340		2		11.8			7 1/2		
150	154	COMPO.		11,585	4'	0.8	24.4	27.2	47.6	6	0.89	
188	190		24126		2		10.0			7 1/2		
190	192		24127		2		8.9			7		
192	194		24128		2		10.8			7 1/2		
196	196		24129		2		6.7			7		
196	197		2 4130		1		9.0			7 1/2		
188	197	SEAM - II COMPO.		13,764	9'	0.8	9.6	30.9	58.7	7	0.72	
219	220		24131		1		58.3			2 1/2		
222	224		24132		2		39.8			3		
224	225		24133		1		39.9			4 1/2		
296	298		24134		2		23.3			6		
298	300		135		2		9.7			7 1/2		
300	302		136		2		9.3			7 1/2		
302	304		137		2		11.0			7 1/2		
304	306		138		2		18.5			7		
306	308		139		2		65.5			1		
308	310	CES	24140		2.		70.8			1/2.		
296	306	SEAM - IV COMPO.		12,841	10'	0.5	14.8	26.9	55.1	7	0.53	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
454	456		24141		2		14.4			7 1/2		
456	458		24142		2		16.0			7 1/2		
458	460		24143		2		11.8			7 1/2		
460	462		24144		2		10.8			8		
462	464		24145		2		9.4			7 1/2		
464	466		24146		2		14.2			6 1/2		
466	468		24147		2		6.0			6 1/2		
468	470		24148		2		9.5			7 1/2		
470	472		24149		2		17.3			6		
	4											
464	472	SEAM - H. ✓ COMPO.		13,388	18	0.4	12.5	27.9	59.2	7	0.53	
484	486		24150		2		22.5			6 1/2		
486	487		24151		1		41.5			4 1/2		
488	489		24152		1		33.6			6 1/2		
523	525	C & SH	23769		2		28.0			5 1/2		
563	565		23770		2		61.9			1		
565	567		23771		2		13.6			5 1/2		
567	569		772		2		10.4			7		
569	571		773		2		42.7			3		
571	573		23774		2		36.5			6		
573	575		23775		2		46.0			4 1/2		
575	577		23776		2		15.5			6 1/2		
577	579		777		2		22.9			6		
579	581		778		2		61.2			1		
581	583		23779		2		67.0			1		
581	583	C & SH	23780		2		NO SAMPLE.					
565	579	SEAM - G. COMPO.		10,419	14	0.2	26.6	24.7	48.5	5 1/2	0.76	

Page No. 2/2 Hole No. RH-1127

Diamond Drill Geological Log

K-FOXFIELD 78(3)B-4

RH-1128

& Aver.

Objective:

Sampled:

Logged By: R.K. Date: November/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	481,000 N.	GREENHILLS S.			

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	5	0	1.52	Overburden
5	108.5			Interbedded mudstone and siltstone, bands of sandstone at 55' and 71' 1' and 1.5' coal bands at 28' and 40.5'
108.5	116	33.07	35.36	Coal with 2' shale at 111.5' 7.5(5.5)' 2.29(1.68)m
116	128			Siltstone
128	133	39.01	40.54	Coal 5' 1.52m
133	139			Mudstone
139	155			Siltstone and bottom 6' sandstone
155	162			Silty mudstone
162	168			Sandstone
168	180.5			Mudstone and siltstone
180.5	185	55.02	56.39	Coal 4.5' 1.37m
185	207			Mudstone and some siltstone
207	241			Siltstone, sandstone bands
241	250	73.46	76.20	Coal 9' 2.74m SEAM - J1
250	290			Silty mudstone, thin shaley coal bands at 269 and 275.5'
290	327			Siltstone
327	337	99.67	102.72	Coal 10' 3.05m SEAM - I
337	343			Mudstone
343	381			Sandstone
381	400			Siltstone
400	410			Silty sandstone
410	430			Mudstone

Core Size

Hole No. RH 1128

Page 1 of 2

322

2567-

Diamond Drill Geological Log

Cominco

Objective:				Sampled:		
Logged By:	Date:			Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:	

From	To	Discard: m	m	Reason:
430	479			Sandstone with sandy siltstone intervals
479	495			Siltstone
495	512	150.88	156.06	Coal 17' 5.18m SEAM - H
512	530.5			Mudstone, coal stringers 524.5'
530.5	532	161.70		Coal 1.5'
532	553		168.55	Silty sandstone and siltstone
				END OF HOLE
				JULY 20, 1978

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

Core Size

Hole No. RH 1128

Page 2 of 2

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
27	28		25228		1		48·2			4 1/2		
31	33											
33	35		25229		2		55·1			1		
35	37		25230		2		69·0			1 1/2		
			25231		2		72·2			1 1/2		
41	43		25232		2		26·9			7		
109	111		25233		2		57·4			1 1/2		
111	113		25234		2		53·0			2 1/2		
113	115	P.A. & SFSI BTU. →	25235		2		32·1			5 1/2		
115	117		25236		2		69·1			1		
113	115		25235	9,953	2	1.0	32·3	25·4	41·3	6	0·71	
128	130		25237		2		21·9			6 1/2		
130	132		25238		2		24·5			3 1/2		
132	134		25239		2		31·9			5 1/2		
128	134	COMPO.		11,038	6	1.0	25·8	26·5	46·7	5 1/2	1·17	
181	183		25240		2		—			—		
183	185		25241		2		—			—		
242	244		25242		2		15·1			7		
244	246		25243		2		37·1			5 1/2		
246	248		25244		2		11·6			6 1/2		
248	250		25245		2		5·8			7		PETROGRAPHY REQUESTED
250	251		25246		1		71·8			1		
242	250	COMPO.		12,200	8	1.0	18·0	28·2	52·8	6 1/2	0·82	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
275	276	(")	25247		2		51.5			2 1/2		
276	277	(")	25248		1		51.7			2 1/2		
329	331		25249		2		38.8			3 1/2		
331	333		25250		2		12.5			7		
333	335		25276		2		10.2			7		PETROGRAPHY REQUESTED
	337											
337	339		25277		2		12.9			7		
329	339	SEAM-I COMPO.		11,931	8/10	1.0	19.0	26.9	53.1	6	0.60	
501	503		25278		2		22.5			5		
503	505		25279		2		15.6			6 1/2		
505	507		25280		2		11.7			7 1/2		
507	509		25281		2		28.5			6		H 4
509	511		25282		2		16.3			6 1/2		
511	513		25283		2		11.4			7		
513	515		25284		2		11.1			7 1/2		
515	517		25285		2		9.8			7		
517	519		25286		2		30.9			5		
501	519	SEAM-H. COMPO.		12,346	18"	1.0	17.9	26.2	54.9	6 1/2	0.45	

Diamond Drill Geological Log

K-FORDING 78(3) B-4

RH-1129

Objective:

Sampled:

Logged By: R.K. Date: November/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	480,000 N	GREENHILLS S.			

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	5	0	1.52	Overburden
5	10			Sandstone
10	53			Thinly bedded mudstone and siltstone, silty sandstone 40-50'
53	55	16.15		Coal 2' 0.61m
55	64			Mudstone
64	66	19.51		Coal 2' 0.61m
66	93			In terbedded mudstone and siltstone with occasional coal stringer.
93	122			Sandy siltstone, 1' coal band at 104'
122	153			Sandstone with mudstone. 126'-132' and 149'-153'
153	156	46.63	47.55	Coal 3' 0.91m
156	168			Siltstone, some mudstone near top.
168	176			Sandstone
176	219			Shaley siltstone with mudstone bands throughout the unit
219	222.5	66.75	67.82	Coal 3.5' 1.07m
222.5	229			Mudstone
229	236			Sandstone
236	242			Mudstone
242	246	73.76	74.98	Coal 4' 1.22m
246	264			Mudstone, coal stringers at 252'
264	339			Sandstone
339	343			Mudstone
343	358.5			Silty sandstone and siltstone
358.5	360.5	109.27		Coal 2' 0.61m

Core Size

Hole No. RH 1129

Page 1 of 2

322

Diamond Drill Geological Log

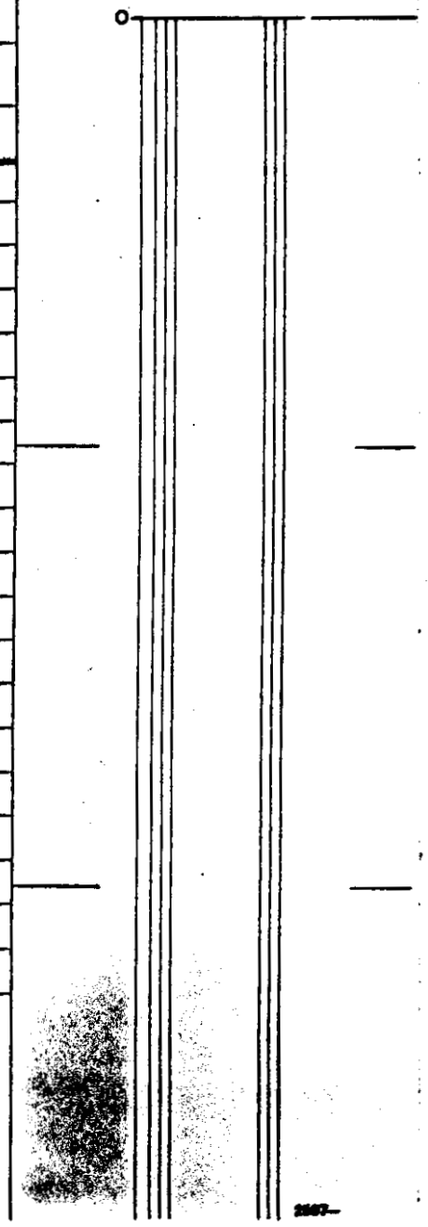
Cominco

Objective:				Sampled:		
Logged By:	Date:			Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:	

From	To	Discard: m	m	Reason:
360.5	363			2.5' mudstone
363	367	110.64	111.86	Coal 4' 1.22m
367	389			Mudstone
389	391	118.57		Coal 2' 0.61m
391	402			Mudstone, siltstone band.
402	410	122.53	124.97	Coal with 2' shale band from 405.5 - 407.5' 8(6)' 2.44(1.83)m
410	422			Mudstone with one siltstone band
422	425			Sandstone
425	432			Mudstone
432	436	131.67	132.89	Coal 4' 1.22m
436	442			Mudstone, 1' coal band at 438'
442	451			Sandstone
451	468			Siltstone
468	472			Sandstone
472	485			Mudstone and siltstone, coal stringers 477'
485	488	147.83	148.74	Coal 3' 0.91m
488	506			Mudstone, grading progressively to siltstone and sandstone towards bottom
506	514			Sandstone
514	535			Siltstone and sandstone
535	545	163.07	166.12	Coal 10' 3.05m
545	558		170.08	Some mudstone near top, siltstone and sandstone near bottom.
				END OF HOLE AUGUST 13, 1978

40 Scale

Color Plot & Dips | Ore Classes & Aver.



Core Size

Hole No. RH 1129

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
22	23		25287		1		23.8			6 1/2		
53	55		25288		2		9.4			6 1/2		
152	154		25289		2		48.0			1 1/2		
154	156		25290		2		23.0			6 1/2		
154	156		25290		2							
221	223		25291		2		13.6			7 1/2		
223	225		25292		2		49.6			2 1/2		
221	223		25291		2							
244	246		25293		2		17.7			3 1/2		
244	246		25293		2.							
359	361	C & S	25294		2		41.0			2		
394	396	154-156; 221-223; 244-246 C & S	COMPO.*	11,270	6	0.5	19.2	33.1	47.2	6	0.74	* WAS NOT REQUESTED
			25295		2		35.9			5		
438	440		25296		2		22.9			6 1/2		
440	442		25297		2		41.7			4 1/2		
442	443		25298		1		57.0			1 1/2		
438	442	COMPO.		11,680	4	0.3	31.9	26.5	41.3	5 1/2	1.22	
482	484	C & SH	23755		2		50.4			4		
484	486		756		2		33.5			4		
486	488	C & SH	757		2		68.2			1		
536	538		23758		2		25.6			6 1/2		
538	540		759		2		26.9			6		
540	542		760		2		11.2			7		
542	544		23761		2.		10.9			7 1/2		
536	544	COMPO.		10,740	8	0.4	18.1	20.7	60.8	6 1/2	0.49	

Geological Log

K-FORDING 78(3)64

FOR COAL

RH-1130

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		GREENHILLS S.			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	8		2.44	Overburden
8	47			Siltstone
47	127			Sandstone
127	160			Interbedded mudstone and siltstone.
160	165	48.77	50.29	Coal 5' 1.52m
165	211			Siltstone, some mudstone near top.
211	213	64.31		Coal 2' 0.61m
213	254			Interbedded mudstone and siltstone
254	280.5			Sandstone, some mudstone near bottom.
280.5	284	85.5	86.56	Coal 3.5' 1.07m
284	336			Mostly siltstone with bands of mudstone, sandstone 289-292'
336	338	102.41		Coal 2' 0.61m
338	359		109.42	Sandstone

END OF HOLE

JULY 1, 1978

Hole No. RH 1130

Page 1 of 1

322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
140	142		25365		2		54.6			1		
161	163		25366		2		5.2			7		
163	165		25367		2		11.7			6		
		COMPO.			4	1.1	8.4	34.0	54.5	6 1/2	0.63	
281	283		25368		2		37.3			1		
283	285		25369		2		14.4			7		
		COMPO.			4	1.0	26.0	24.9	48.1	3 1/2	0.60	
347	349		25370		2		10.0			7 1/2		
349	351		25371		2		20.0			5 1/2		
		COMPO.			4	0.8	14.7	33.7	50.8	6 1/2	1.08	

 Hole No. RH-1130

Geological Log

K-FORDING 78(3)B-4

KH-1131

ford COAL LI

Objective:		Sampled:	
Logged By: R.K.	Date: December /78	Composites:	

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		GREENHILLS S.			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	7		2.13	Overburden
7	49			Siltstone near top and mudstone.
49	67			Siltstone
67	118			Sandstone
118	134.5			Mudstone
134.5	138	41.00	42.06	Coal 3.5' 1.07m
138	150			Mudstone
150	155	45.72	47.24	Coal 5' 1.52m
155	201			Interbedded siltstone and mudstone
201	218			Sandstone
218	280			Interbedded mudstone and siltstone, coal stringers at 221' and 272'
280	291			Sandstone, 283-287' Mudstone
291	302			Siltstone near top and mudstone.
302	304	92.05		Coal 2' 0.61m
304	310			Siltstone
310	314			Sandstone
314	358.5			Mostly mudstone with interbeds of siltstone, sandstone 330-335'
358.5	361	109.27	110.03	Coal 3.5' 1.07m
361	378			Mudstone, 365-370' Siltstone
378	382	115.21	116.43	Coal 4' 1.22m
382	386			Mudstone
386	405			Sandstone
405	416			Mudstone

Hole No. RH 1131

Page 1 of 2

322

2507-

Geological Log

fording COAL LIMITED

Objective:				Sampled:	
Logged By:	Date:			Composites:	
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
416	444			Sandstone
444	516			Siltstone with mudstone intervals.
516	522			Sandstone
522	535			Siltstone
535	539			Mudstone
539	541	164.29	164.9	Coal 2' 0.61m
541	545			4' mudstone
545	551	116.12	167.94	Coal 6' 1.83m
551	561		170.99	Mudstone
				END OF HOLE
				JUNE 21, 1978

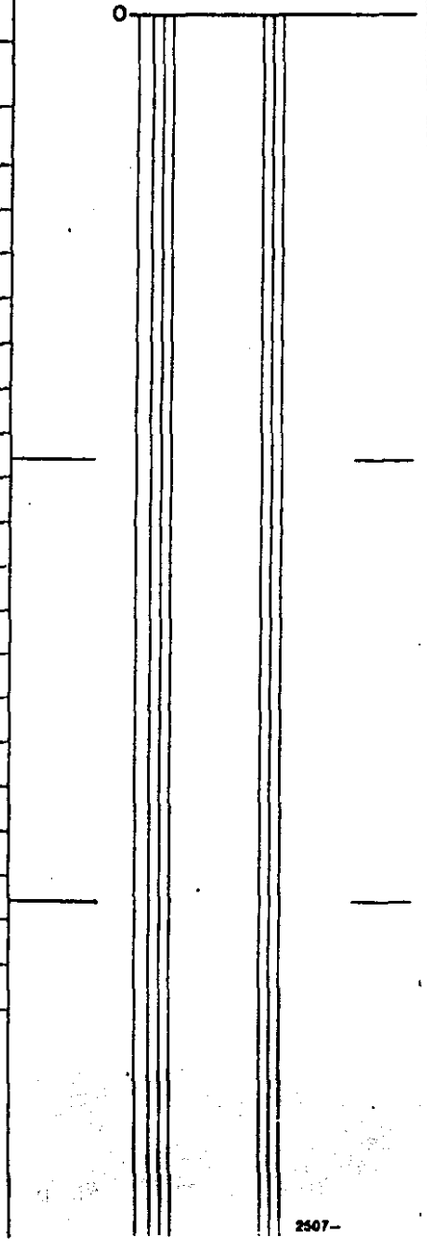
Hole No. RH 1131

Page 2 of 2

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0



2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
134	136		25301		2		53.6			4 1/2		
136	138		302		2		48.0			1 1/2		
138	139		25303		1		65.0			1		
148	150		25304		2		39.9			5		
150	152		305		2		13.0			7		
152	153		25306		1		2.6			6		
		COMPO.		11,006	5	1.3	25.0	30.8	42.9	6	0.52	
301	303		25307		2		29.7			4		
353	354		25308		1		72.2			1 1/2		
358	360		25309		2		17.0			7		
360	362		25310		2		60.9			1 1/2		
377	379		25311		2		53.4			5 1/2		
379	381	P.A. d/c S FSI →	25312		2		6.1			7		
			25312		2	1.4	6.3	33.8	58.5	7	0.73	
405	407		25313		2		59.0			2		
536	538	P.A. d/c S FSI →	25314		2		28.9			4		
			25314		2	1.3	28.9	25.2	44.8	4	0.49	
546	548		25315		2		AC'S			4 1/2		
548	549		25316		1		13.8			7 1/2		
		COMPO.		10,510	3	1.4	27.0	27.0	44.6	6	0.60	

Hole No. RH-1131

Geological Log

K. FORDING 78(3) B-4

RH-1132

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		GREENHILLS S.			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	14		4.27	Overburden.
14	65			Mostly siltstone with interbedded sandstone.
65	67	19.81		Coal 2' 0.61m
67	72			5' mudstone
72	75	21.95	22.86	Coal 3' 0.91
75	78			3' mudstone
78	82	23.77	24.99	Coal 4' 1.22m
82	128			Mudstone
128	130	39.01		Coal 2' 0.61m
130	173			Mudstone, bands of sandstone and interbeds of siltstone.
173	198			Sandstone and siltstone.
198	200.5	60.35	61.11	Coal 2.5' 0.76
200.5	204			3.5' mudstone
204	206	62.18		Coal 2' 0.61m
206	207.5			1.5' mudstone
207.5	209	63.25		Coal 1.5' 0.46m
209	212			3' mudstone
212	214.5	64.62		Coal 2.5' 0.76m
214.5	221.5			Mudstone
221.5	224	67.51		Coal 2.5' 0.76m
224	236			Mudstone and siltstone.
236	271.5			Sandstone, some siltstone.
271.5	283.5	82.75	86.41	Coal with 2.5' shale at 275' 12(9.5)' 3.66(2.9)m

Hole No. RH 1132

322

Geological Log

fording COAL LIMITED

Objective:				Sampled:	
Logged By:	Date:			Composites:	
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

Reason:

From	To	m	m	INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG
283.5	290			Mudstone
290	296			Sandstone
296	303			Mudstone, 2' coal 300-302'.
303	340			Sandstone, siltstone near bottom.
340	344	103.63	104.85	Coal 4' 1.22m
344	370			Siltstone, mudstone near bottom.
370	377	112.78	114.91	Coal 7' 2.13m
377	408			Mudstone, siltstone near bottom.
408	497			Sandstone, occasional siltstone bands, mudstone near bottom.
497	511	151.49	155.75	Coal with 1.5' shale at 502' 14(12.5)' 4.27(3.81)m SEAM - H?
511	530			Mudstone near top and siltstone.
530	538		163.98	Sandstone and siltstone.

END OF HOLE
AUGUST 14, 1978

Hole No. RH 1132

Page 2 of 2

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
43	44		24541		1		6.7			7 1/2		
64	66		24542		2		10.0			7 1/2		
66	68		24543		2		53.9			2		
64	66		24542	13,783	2	0.6	10.0	31.1	58.3	7 1/2	0.74	
72	74	SH. & C	24544		2		51.4			4		
74	75		24545		1		24.6			6		
75	76		24546		1		38.8			4 1/2		
76	78		24547		2		74.4			1 1/2		
78	80		548		2		79.1			0		
80	81		24549		1		10.2			4		
96	98		24550		2		64.5			1 1/2		
98	100		24551		2		62.9			1		
112	114		24552		2		55.2			2		
114	115		24553		2		67.4			1		
197	199		24554		2		23.7			6		
199	200		24555		1		59.7			1		
202	204		24556		2		34.2			4		
204	206		24557		2		45.6			5		
206	208		24558		2		MISSING					
197	204	COMPO.		9,242	5/7	0.6	38.8	21.4	39.2	3 1/2	0.71	
210	212		24559		2		35.0			5		
210	212		24559	9,638	2	0.7	35.2	24.2	39.9	5	0.74	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
261	263		24560		2		34.6			4½		
261	263		24560	9,663	2	0.6	34.6	23.6	41.2	4½	0.50	
267	268		24561		1		20.9			6		
269	271		24562		2		16.5			6		
267	271	COMPO.		13,189	3/4	0.4	18.2	26.4	55.0	6	0.70	
289	291		24563		2		66.6			1		
330	332		24564		2		24.2			6½		
330	332		24564	11,513	2	0.3	23.8	25.4	50.5	6½	0.68	
360	362		24565		2		21.2			6		
362	364		24566		2		23.2			6½		
364	366		24567		2		71.8			1		
366	368		24568		2		43.8			4		
360	368	COMPO.			4	0.3	22.3	27.1	50.3	6	0.52	PETROGRAPHY.
498	500		23762		2		19.0			7		
500	502		763		2		41.5			5½		
502	504		764		2		72.8			1		
504	506		765		2		17.0			6½		
506	508		766		2		16.3			6½		
508	510		767		2		MISSING.					
510	512		768		2		55.1			1		
498	508	COMPO			10	0.2	33.0	22.1	44.7	5½	0.42	PETROGRAPHY.

 Hole No. RH-1132

Geological Log

K- FORDING 78(3)B-4

RH-1133

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		GREENHILLS S.			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	4			Mudstone
4	9	1.22	2.74	Coal 5' 1.52m
9	18			Mudstone and siltstone.
18	24			Sandstone.
24	38			Siltstone and mudstone.
38	46	11.58	14.02	Coal 8' 2.44m SEAM - I
46	61			Mudstone
61	77			Siltstone
77	108			Sandstone
108	132			Mudstone
132	155			Siltstone, some sandstone.
155	166			Siltstone and mudstone.
166	183	50.6	55.78	Coal with 2' shale band at 171' 17(15)' 5.18(4.57)m SEAM - H
183	197			Mudstone
197	240			Sandstone near top, siltstone with sandy intervals.
240	252			Mudstone
252	259	76.81	78.94	Coal 7' 2.13m
259	327			Mudstone
327	341	99.67	103.94	Coal with 2' shale band at 331' 14(12)' 4.27(3.66)m SEAM - G
341	390			Siltstone
390	402	118.87	122.53	Coal 12' 3.66m
402	500		152.4	Mostly mudstone with interbeds of siltstone.
				END OF HOLE JUNE 11, 1978

Hole No. RH 1133

Page 1 of 1

& Aver.

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322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
45	47	Ls. SH.	24514		2		45.8			3		
163	165		24515		2		5.7	-		8		
165	167		516		2		6.3			7 1/2		
167	169		517		2		41.6			3 1/2		
169	171	SEAM - H.	518		2		62.3			1		
171	173		519		2		23.3			5		
173	175		520		2		18.0			6 1/2		
175	177		521		2		11.1			7 1/2		
177	179		24522		2		16.4	-		7 1/2		
179	180		523		1		69.7			1		
163	179	SEAM - H COMPO.		10,325	16	1.4	22.7	24.3	51.6	6	0.49	
246	248		24524		2		70.1			1		
249	251		24525		2		28.2			2 1/2		
251	253		24526		2		30.3			6		
253	255		527		2		47.2			3 1/2		
255	257		24528		2		56.1			1		
249	253	SEAM-HL? COMPO.		10,043	4'	1.3	29.6	24.3	44.8	4 1/2	1.02.	
326	328		24529		2		47.9			3		
328	330		530		2		46.7			3		
330	332	SEAM - G.	531		2		33.7	-		4		
332	334		532		2		16.5			5 1/2		
334	336		24533		2		21.9	-		7		
330	336	SEAM - G. COMPO.		11,160	6'	1.3	24.0	22.1	52.6	5	0.62	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
387	389		24534		2		48.8			2		
389	391		535		2		49.6			3		
391	393		536		2		24.8	-		6 1/2		
393	395		537		2		10.0			5		
395	397		538		2		16.9			2		
397	399		539		2		19.1	-		6 1/2		
399	401		24540		2		41.7			2 1/2		
391	399	SEAM - GL. COMPO.		12,114	8'	1.3	17.9	25.2	55.6	5	0.74	

Geological Log

15 - FORDING 78(3)B-4

RH-1134

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		GREENHILLS S.			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	6		1.83	Overburden
6	11			Mudstone
11	35	3.35	10.67	Coal? 24' 7.32m (Casing to 35') SEAM - G?
35	56			Sandstone
56	61			Siltstone
61	72	18.59	21.95	Coal 11' 3.35m
72	107.5			Mudstone
107.5	112.5	32.77	34.29	Coal 5' 1.52m
112.5	142.5			Mudstone
142.5	148	43.43	45.11	Coal 5.5' 1.68m
148	169			Mudstone
169	188			Siltstone
188	309			Sandstone
309	317			Mudstone
317	328	96.62	99.97	Coal 11' 3.35m
328	334			6' mudstone. } SEAM - F?
334	351	101.80	106.98	Coal 17' 5.18m
351	409			Mudstone near top and bottom, interbeds of siltstone and sandstone.
409	419	124.66	127.71	Coal 10' 3.05m
419	431			Mudstone and siltstone.
431	437	131.37	133.20	Coal 6' 1.83m
437	479		146.0	Mudstone
				END OF HOLE JUNE 30, 1978

Hole No. RH 1134

Page 1 of 1

& Aver.

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322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
64	66		24373		2		39.1			6		
66	68		374		2		18.9			7		
68	70		376		2		56.9			1		
70	72		24377		2		50.9			1		
64	68	Comp			4'	0.2	29.0	24.1	46.7	6 1/2	0.88	
112	114		24378		2		68.9			1		
114	116	C & SH	379		2		78.5			1/2		
116	118	" "	24380		2		81.2			1/2		
137	139	C & SH	24381		2		69.5			1		
139	141	" "	382		2		69.5			1/2		
141	143	" "	24383		2		77.8			1/2		
145	147		24384		2		57.0			1		
147	149		385		2		52.1			3 1/2		
149	151		24386		2		62.3			1/2		
155	157	C & SH.	24387		2		75.3			1/2		
157	159		388		2		67.5			1		
318	320		24389		2		64.2			1		
320	322		390		2		58.0			1		
322	324		391		2		—			—		
324	326		24392		2		38.0			1		

SAMPLES CONTAMINATED ?

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
326	328		24393		2		35.4			1		
328	330		24394		2		59.2			1		
324	328	comp			4'	0.1	37.0	19.4	43.5	1	0.38	
333	336		24395		2		74.1			1 1/2		
336	339		396		3		—			—		
339	341		24397		2		56.0			1		
344	347		24400		3		57.5			1 1/2		
347	350		24476		3		48.7			1 1/2		
350	353		24477		3		63.2			1		
413	416		24478		3		15.7			4		
416	419		24479		3		37.9			4 1/2		
419	421		24480		2		51.9			2 1/2		
413	419	comp			6'	0.3	26.4	21.3	52.0	4 1/2	0.50	
432	435	P.A.o.S FSI →	24481		3		38.3			1		
435	438		24482		3		67.8			1 1/2		
			24481		3	0.3	38.3	17.2	44.2	1	0.48	

SAMPLES CONTAMINATED.?

Geological Log

K- FORDING 78(3)B-4

RH - 1135

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		GREENHILLS S.			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	11		3.35	Overburden
11	21			Siltstone
21	24	6.40	7.31	Coal 3' 0.91
24	47			Siltstone with bands of mudstone
47	59			Mudstone
59	63	17.98	19.20	Coal 4' 1.22m
63	151.5			Interbedded siltstone and mudstone.
151.5	154	46.18	46.94	Coal 3.5' 1.07m
154	174			Siltstone
174	208			Mudstone, several siltstone bands.
208	210.5	63.40		Coal 2.5' 0.76m
210.5	250			Mudstone, coal stringers at 244' and 246'
250	251			Coal
251	260			Mudstone
260	289			Sandstone, siltstone near bottom.
289	368			Mostly mudstone, with several thin interbeds of siltstone. Thin coal band (less than 1') at 301'.
368	406			Sandy siltstone.
406	415	123.75	126.49	Coal 9' 2.74m SEAM - J1
415	436			Silty mudstone, sandstone 422-426'
436	519.5			Sandstone, some siltstone near bottom.
519.5	530.5	158.34	161.70	Coal 11' 3.35m SEAM - I
530.5	558		170.1	Mudstone, siltstone near bottom.
				END OF HOLE AUGUST 11, 1978

Hole No. RH 1135

Page 1 of 1

322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
61	63	P.A. do S. F SI	24569		2		33.1			6		
			24569		2	0.7	32.6	17.3	49.4	5 1/2	0.73	
103	105		24570		2		58.1			1 1/2		
113	115		24571		2		40.9			4 1/2		
151	153	P.A. do S. F SI	24572		2		22.5			4 1/2		
			24572		2	0.7	22.8	17.0	55.5	4 1/2	0.60	
176	178		24573		2		65.8			1		
178	180		24574		2		81.8			0		
180	182		24575		2		56.0			1		
198	200		25327		2		—			—		
200	202		25326		2		67.1			1		
200	202		25328		2		72.1			1/2		
208	210		25329		2		33.8			5		
245	247		25330		2		30.3			7 1/2		
249	251		25331		2		—			—		
405	407		25332		2		9.0			7 1/2		
407	409		25333		2		33.0			6 1/2		
409	411		25334		2		17.0			7		
411	413		25335		2		10.0			7 1/2		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
413	415		25336		2		36·1			4 1/2		
405	415	SEAM – 111 COMPO.			10'	0·6	21·2	16·8	61·4	6 1/2	0·78	
427	429		25337		2		57·2			1 1/2		
519	521		26035		2		42·5			3		
521	523		036		2		40·6			4 1/2		
523	525		26037		2		8·8			7		
525	527		26038		2		10·1			7 1/2		
527	529		039		2		16·0			7 1/2		
529	531		040		2		66·5			1		
531	533		041		2		56·5			1		
533	535		26042		2		—			—		
519	529	SEAM – I COMPO.			10	0·5	23·1	26·1	50·3	6 1/2	0·47	

Geological Log

RH - 1136

K- FORDING 78(3)B-4

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		GREENHILLS S.			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	1			Overburden
1	15	0.35	4.57	Coal 14' 4.27m SEAM - J1
15	30			Siltstone and mudstone
30	40			Sandstone
40	54			Siltstone
54	107			Silty sandstone with interbedded bands.
107	124			Mudstone, some siltstone near top.
124	139	37.80	42.37	Coal, thin shale band (less than 1') at 128' 15' 4.57m SEAM - I
139	172			Mostly siltstone, mudstone and sandstone bands.
172	177			Mudstone
177	270			Sandstone
270	295			Siltstone, mudstone near bottom.
295	313	89.92	95.40	Coal with 3' mudstone at 300' 18(15)' 5.49(4.57)m SEAM - H
313	326			Mudstone, some siltstone.
326	364			Interbedded siltstone and sandstone.
364	372			Siltstone near top and mudstone.
372	382	113.39	116.43	Coal 10' 3.05m
382	428			Mudstone
428	460			Interbedded siltstone and sandstone.
460	483			Sandstone, silty near bottom.
483	492			Mudstone
492	510	149.96	155.45	Coal 18' 5.49m SEAM - G
510	517			7' Mudstone

Hole No. RH 1136

322

2507-

Geological Log

fording COAL LIMITED

Objective:				Sampled:	
Logged By:	Date:			Composites:	
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From	To	From m	To m	Reason:
				INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG
517	536	157.58	163.37	Coal with 1' shale band at 529' 19(18)' 5.79(5.49)m SEAM - G
536	559			Mudstone with siltstone bands.
				END OF HOLE
				JUNE 29, 1978

40 Scale

Color Plot & Dips	Ore Classes & Aver.

0

Hole No. RH 1136

Page 2 of 2

2507–

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUM	WIDTH	M	A	VM	FC	FSI	S	REMARKS
1	3		24818		2		19.4			0		
3	5		819		2		27.9			0		
5	7	SE	820		2		19.3			0		
7	9	SM - J.	821		2		21.3		—	0		
9	11		822		2		17.7			0		
11	13		24823		2		19.8			0		
							20.9			0		lve.
122	124		24824		2		3[illegible]4			2		
124	126		24825		2		30.4			6		
126	128	C&SH.	24501		2		17.4			7		
128	130		24502		2		6.3			7		
130	132		503		2		9.0			7		
132	134		24504		2		13.4			7 1/2		
122	134	SEAM - I *COMPO.		12,228	12.	0.5	19.7	26.4	53.4	6	0.56	PETROGRAPHY
294	296		24505		2		30.0			5		
296	297		24506		1		22.1			4 1/2		
304	306		24507		2		21.0			6 1/2		
306	308		508		2		12.6			7		
308	310		509		2		10.0			7 1/2		
310	311	C&SH.	24510		1		48.6			11/2		
274	310	SEAM - H *COMPO.		13,150	9/16'	0.5	19.6	28.4	51.5	6	0.53	PETROGRAPHY
372	374	C&SH.	24511		2		37.2			5		
377	379		24512		2		34.7			6 1/2		
379	381		24513		2		81.5			1/2		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
492	494		24358		2		21.7			5 1/2		
494	496	SHALE										
496	498		24359		2		9.8			5 1/2		
498	500		360		2		9.2			5 1/2		
500	502		361		2		21.2			5		
502	504		362		2		12.9			6		
504	506		363		2		37.9			4 1/2		
506	508		364		2		9.3			7		
508	510		24365		2		58.0			1		
492	508	SEAM - G ✓ COMPO.		11,931	14/16	0.3	17.0	24.7	58.0	5	0.66	PETROGRAPHY
												492-508 + 516-527
516	519		24366		3		38.7			4		
519	521		367		2		39.8			4 1/2		
521	523		368		2		37.4			4		
523	525		369		2		11.6			7		
525	527		370		2		24.2			6 1/2		
527	529		371		2		53.2			2 1/2		
529	531		24372		2		37.0			4		
516	527	SEAM - G COMPO.		11,448	11	0.4	30.8	26.2	42.6	5	0.68	

Geological Log

K - FORDING 78(3)B-4

RH 1137

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	8		2.44	Overburden.
8	35			Sandstone
35	97			Siltstone, some mudstone.
97	102	29.57	31.09	Coal 5' 1.52m
102	106.5			Mudstone
106.5	108			Coal 1.5'
108	119.5			Mudstone
119.5	125	36.42	38.10	Coal with 1 foot shale 5.5(4.5)' 1.68(1.37)m
125	135			Mudstone
135	143	41.15	43.59	Coal with 1.5' shale at 138' 8(6.5)' 2.44(1.98)m
143	174			Silty mudstone
174	176	53.04		Coal 2' 0.61m
176	185			Mudstone
185	191	56.39	58.22	Coal 6' 1.83m
191	199			Mudstone
199	201	60.66		Coal 2' 0.61m
201	206			Mudstone
206	208	67.79		Coal 2' 0.61m
208	221			Mudstone
221	231			Siltstone
231	242			Sandstone
242	256			Siltstone with thin bands of siltstone
256	268	78.03	81.69	Coal 12' 3.66m SEAM - I

Hole No. RH 1137

302

2507–

Geological Log

fording COAL LIMITED

Objective:				Sampled:	
Logged By: R.K.	Date: December /78			Composites:	
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

40 Scale

Color Plot & Dips | Ore Classes & Aver.

From	To	m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG
268	281			Mudstone, coal stringers at 280'
281	355			Sandstone, silty intervals
355	373			Siltstone, mudstone near bottom
373	376.5	113.69	114.76	Coal 3.5' 1.07m
376.5	382			Mudstone
382	384	116.43		Coal 2' 0.61m
384	392			Mudstone
392	401.5	119.48	122.38	Coal 9.5' 2.90m SEAM - H
401.5	404			Mudstone
404	406	123.14		Coal 2' 0.61
406	430			Siltstone, sandstone, band at 416'
430	438			Mudstone
438	446	133.50	135.94	Coal 8' 2.44m
446	455			Mudstone
455	457	138.68		Coal 2' 0.61
457	463			Mudstone
463	485			Sandstone
485	490			Mudstone
490	558			Siltstone, occasional mudstone bands.
558	565			Mudstone
565	579	172.21	176.48	Coal 14' 4.27m
579	583			4' mudstone SEAM - G
583	591	177.70	180.14	Coal 8' 2.44m
591	599		182.58	Mudstone, thin coal band 597'

Hole No. RH 1137

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
97	99		25317		2		15.7			7		
99	101		25318		2		25.5			7		
97	101	COMPO.		11,739	4	0.6	21.0	29.3	49.1	6½	0.65	
104	106		25319		2		45.4			3½		
106	107		25320		1		—			—		
120	121		25321		1		34.0			4½		
135	137		25322		2		17.6			6½		
137	139		25 323		2		75.1			½		
139	140		25351		1		13.5			7		
		25322+351		12,123	3'	0.6	16.1	31.7	51.6	6½	0.83	
257	259		25352		2		28.1			6½		
259	261	SEAM - I.	25353		2		37.3			4		
261	263		354		2		14.4			7		
263	265		25 355		2		11.9			7		
265	267		25356		2		12.6			8		
257	267	SEAM - I COMPO.		11,985	10	0.5	21.0	28.5	50.0	6	0.75	PETROGRAPHY
392	394		25357		2		18.6			7		
394	396		358		2		27.2			6½		
396	398		359		2		21.4			7		
398	400		25360		2		17.0			8		
392	400	SEAM - H. COMPO		11,573	8	0.4	21.5	26.4	51.7	6½	0.50	" "
440	442		25361		2		17.1			6½		
442	444		362		2		19.2			6½		
444	446		363		2		19.5			6½		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
446	448	✓	25364		2		54.9			2		
440	446	HT / COMPO.		10,300	6'	0.4	18.6	25.0	56.0	6	0.58	PETROGRAPHY.
569	571	C & SH.	26044		2		24.1			7		
571	573		045		2		13.3			6 1/2		
573	575	SH - SM - G.	046		2		24.4			3 1/2		
575	577		047		2		25.7			6 1/2		
577	579		048		2		12.8			7		
579	581	C & SH.	049		2		53.6			1		
581	583		26050		2		68.1			1		
569	579	SEAM - G. COMPO.		11,681	10'	0.3	20.6	23.6	55.0	5 1/2	0.52	11 11
585	587	C & SH.	23751		2		33.9			6 1/2		ONE SAMPLE.
587	589	C & SH.	23752		2		47.3			2 1/2		
589	591		753		2		13.6			7 1/2		
591	593		23754		2		23.3			6 1/2		
585	593	SEAM - G. COMPO.			8.							

Geological Log

RH-1138A

K-FORDING 78(3)B-4

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills S.			

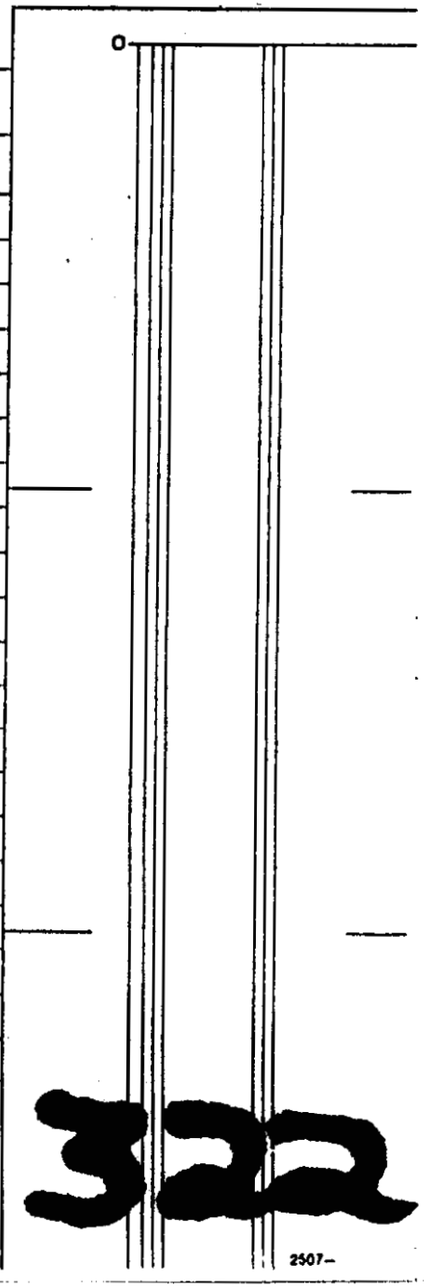
Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	13		3.96	Clay and boulders. (Overburden)
13	23			Siltstone
23	28			Sandstone
28	48			Siltstone and mudstone.
48	78			Sandstone
78	100			Siltstone near top and mudstone.
100	116	30.48	35.35	Coal 16' 4.88m SEAM - I
116	129			Mudstone
129	150			Siltstone, sandy near top
150	195			Sandstone, some siltstone near bottom
195	209			Mudstone
209	231			Sandstone band near top and sandy siltstone
231	237			Mudstone
237	243	72.24	74.07	Coal and shale 6' 1.83m SEAM - H m 1
243	294			Mudstone near top and siltstone
294	320	89.61	97.54	Coal with 2' shale 308.5 - 310.5' 26(24)' 7.92(7.31)m SEAM - H
320	361			Mudstone, siltstone 333-349'
361	382	110.03	116.43	Coal with 2' shale band 373-375' 21(19)' 6.40(5.79) m
382	387.5			5.5' mudstone
387.5	399.5	118.11	121.77	Coal 12' 3.66m
399.5	489			Mostly sandstone, some siltstone
489	506			Mudstone
506	510	154.23	155.45	2' coal and 2' coal and shale
510	522		159.11	Mudstone some sandstone near bottom. END OF HOLE

Hole No. RH 1138A

Page 1 of 1

322



2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
19	21		25431		2		56.7			1		
21	23		432		2		51.7			1 1/2		
23	25		433		2		60.2			1		
25	26		25434		1		78.5			0.		
117	119		25435		2		13.2			7		
119	121		436		2		15.7			7		
121	123	SEAM - I	437		2		3.2			7		
123	125		438		2		2.9			6 1/2		
125	127		439		2		4.7			6 1/2		
127	129		440		2		11.5			7 1/2		
129	131		441		2		9.8			7		
131	133		442		2		25.0			7 1/2		
133	135		25443		2		72.1			1		
117	133	SEAM - I "COMPO.		13,388	16	0.7	11.1	29.5	58.7	7 1/2	0.55	PETROGRAPHY
181	183		25240		2		34.7			3 1/2		
183	185		25241		2		9.7			7		
181	185	"COMPO.		12,803	4	0.6	22.3	27.7	49.4	6	0.53	
253	255		25444		2		41.4			4		
255	257	238 - 246' ACTUAL COAL	445		2		46.7			2		
257	259		446		2		41.5			3		
259	261		447		2		69.1			1		
325	327		25448		2		74.4			1/2		
328	330	298 - 312	25449		2		27.8			4 1/2		
330	332		25450		2		16.6			6 1/2		
332	334	316 - 320	25201		2		18.7			8		
334	336		25202		2		12.8			7 1/2		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
336	338		25203		2		5.7			8		
338	340		204		2		7.1			8		
340	342		25205		2		74.2			1		
328	340	SEAM – H COMPO.		11,384	12'	0.5	15.1	28.5	55.9	7	0.47	PETROGRAPHY
346	348		25206		2		18.5			6 1/2		
348	350		25207		2		16.9			6 1/2		
346	350	COMPO.		12,315	4'	0.5	18.0	24.8	56.7	6 1/2	0.47	
395	397	365	25208		2		19.6			6		
397	399		25209		2		19.4			3 1/2		
399	401		25210		2		16.1			5 1/2		
401	403		25211		2		9.2			5 1/2		
403	405		25212		2		10.2			6 1/2		
405	407		25213		2		36.6			3 1/2		
407	409		25214		2		21.3			7 1/2		
409	411		25215		2		46.2			4 1/2		
411	413		25216		2		28.6			6 1/2		
413	415		25217		2		14.3			7 1/2		
415	417											
417	419											
419	421											
421	423		25218		2		31.8			6 1/2		
423	425		25219		2		21.7			7 1/2		
425	427		25220		2		19.6			7 1/2		
427	429		25221		2		36.7			5		
429	431		25222		2		SAMPLE	LOST		1		
431	433	385	25223		2		60.7					
395	415	COMPO.		11,281	20'	0.5	22.6	22.3	54.6	5	0.56	PETROGRAPHY
421	429	COMPO.		10,840	8'	0.5	27.8	23.8	47.9	6 1/2	0.54	
506	508	536 – 538	25226		2		33.5			4		
508	510	538 – 540	25227		2		51.2			2 1/2		

Geological Log

K. FOLDING 78 (3)B-4

RH-1139

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills S.			

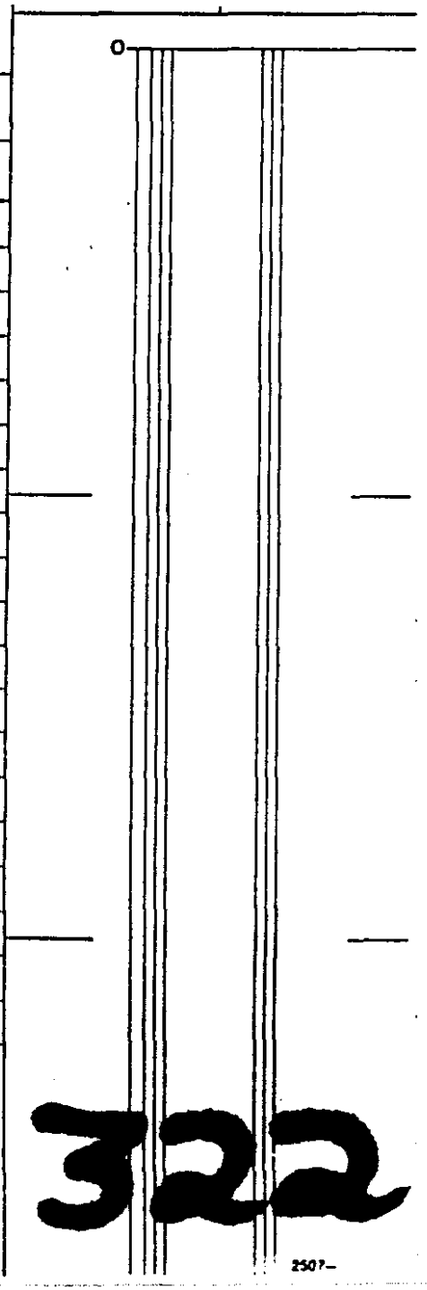
Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	63	0	19.20	Overburden, 20' casing. (Driller: overburden and gravel to 65')
63	67	19.20	20.42	Coal 4' 1.22m
67	74			Siltstone
74	78			Mudstone
78	101			Siltstone, sandy near bottom.
101	190			Mostly sandstone with several siltstone intervals
190	207			Mudstone
207	209			Poor coal 2'
209	211			2' mudstone
211	215	64.31	65.53	Shaley coal 4' 1.22m
215	245		74.68	Mudstone
				HOLE ABANDONED AT 245'
				MAY 15, 1978

Hole No. RH 1139

Page 1 of 1

322



ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
65	67	P.A. 0/0 S FSI.	22851		2	0.6	36.7, 36.9	21.9	40.6	6½	0.56	
67	69		852		2		51.3			3		
69	71		22853		2		55.7			1½		
210	212		22854		2		71.1			1		
212	214		855	ACTUAL BTU	2		66.0			1		
214	216	C&SH P.A. 0/0 S, FSI.	856	12,031.	2	0.8	28.4, 28.8	31.2	39.6	7, 6½	1.00	
216	218		22857		2		72.1			1		
219	221		22858				67.4			0		
221	223		22859				80.7			1		
227	229	C & SH.	22860				71.6			1		

Drill Geological Log

K. Fordina 78-3B-4

Fordin COAL/LIMITE

RH-1139A

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills S.			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	69		21.03	Overburden (Casing 63')
69	108			Mudstone, silty intervals.
108	132	32.92	40.23	Coal with 3' shale at 118' 24(21)' 7.31(6.4)m SEAM - G
132	192			Siltstone with some silty sandstone
192	227			Sandstone
227	256.5			Siltstone, some mudstone near bottom.
256.5	263	78.18	80.16	Coal 6.5' 1.98m
263	264			1' mudstone
264	271	80.47	82.60	Shaley coal with shale bands 7(5)' 2.13(1.52)m
271	275			4' mudstone
275	280	83.82	85.34	Coal 5' 1.52m
280	281.5			Mudstone
281.5	282.5			Shaley coal
282.5	302			Mudstone
302	316			Sandstone and siltstone
316	336			Siltstone
336	343			Sandstone
343	361			Sandy siltstone
361	477			Sandstone
477	480.5			Mudstone
480.5	505.5	146.46	154.08	Coal with 2' shale 484-486' 25(23)' 7.62(7.01)m SEAM-G
505.5	508			2.5' mudstone

Core Size

Hole No. RH 1139A

Page 1 of 2

322

2507-

Drill Geological Log

Fording COAL LIMITED

Objective:			Sampled:		
Logged By:	Date:		Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From	To	m'	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG
508	510	154.84		Coal 2' 0.61m
510	537		163.68	Siltstone
				END OF HOLE
				AUGUST 10, 1978

Core Size	
Hole No.	Page
RH 1139A	2 of 2

40 Scale

Color Plot & Dips | Ore Classes & Aver.

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ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
84	86	C&S	22873		2		70.7			0		
86	88	C&S	22874		2		71.7			1/2		
88	90	C&S	22875		2		67.4			1		
90	92	C&S	24892		2		67.1			1		
110	112	C&S	24893		2		44.0			2 1/2		
112	114	C&S	24894		2		MISSING					
114	116	C&S	24895		2		31.9			4 1/2		
116	118	C&S	24896		2		51.8			2 1/2		
122	124		24897		2		21.1			7 1/2		
124	126		24898		2		MISSING					
126	128		24899		2		22.3			7 1/2		
128	130		24900		2		46.4			4		
130	132		23701		2		40.7			4		
132	133		23702		1		66.5			1		
110	132	SEAM - G. COMPO.			14/22	0.3	37.2	20.4	42.1	4	0.54	
257	259	C&SH	23703		2		49.6			2		
259	261		704		2		52.8			3		
261	263		705		2		58.6			3		
263	265		706		2		57.7			2		
263	265		707				59.0			2 1/2		
265	267		708		2		46.5			6		
267	269		23709		2		64.0			1		
277	279	C&SH	23710		2		56.5			3		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
281	283		23711		2		58.7			3		
283	285		712		2		62.9			1		
285	287		23713		2		MISSING					
480	482		23714		2		54.2			1		
482	484		715		2		MISSING					
484	486		716		2		59.5			1		
486	488		717		2		44.6			1		
488	490		718		2		29.7			1		
490	492		719		2		21.6			4 1/2		
492	494		720		2		21.1			3 1/2		
494	496		721		2		MISSING					
496	498		722		2		36.2			1 1/2		
498	500		23723		2		30.2			2 1/2		
500	502		23725		2		20.1			5		
502	504		26026		2		29.7			6		
488	504	SEAM - F COMBO.			14/16	0.3	27.1	22.4	50.2	3 1/2	0.28	
506	508		26027		2							
508	510		26028		2							
												RH 1139A.

Geological Log

K- fording 78(3)B.4

RH-1140

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills S.			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	10	0	3.05	Overburden
10	24			Siltstone
24	32			Mudstone
32	42			Sandstone
42	60			Siltstone
60	71			Mudstone
71	91			Siltstone
91	95.5	27.74	29.11	Coal 4.5' 1.37m
95.5	98			2.5' mudstone
98	101	29.87	30.78	Coal 3' 0.91m
101	124			Mudstone
124	169			Siltstone
169	198	51.51	60.35	Coal with 2' shale band at 180' 29(27)' 8.84(8.23)m SEAM - H
198	214			Mudstone
214	220	65.23	67.06	Coal 6' 1.83m
220	236			Mudstone near top and siltstone
236	242			Sandstone
242	253			Mudstone
253	262			Sandstone, siltstone near bottom.
262	272			Mudstone
272	309			Sandstone, grading to siltstone near bottom.
309	326			Mudstone
326	339	99.36	103.33	Coal 13' 3.96m SEAM - G

Hole No. RH 1140

322

2507-

Geological Log

fording COAL LIMITED

Objective:			Sampled:		
Logged By:	Date:		Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

Reason:

40 Scale

Color Plot & Dips | Ore Classes & Aver.

O

From	To	m	m	INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG
339	346.5			Mudstone and siltstone
346.5	349.5	105.61	106.53	Coal 3' 0.91
349.5	390			Siltstone, coal stringers at 362'
390	400			Sandstone
400	444		135.33	Mostly siltstone bands of mudstone
				END OF HOLE
				JUNE 2, 1978

Hole No. RH 1140

Page 2 of 2

2507–

ROTARY DRILL SAMPLING RECORD

SAMPLED JUN-1/2.

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	PSI	S	REMARKS
92	94		24779		2		43.6			3 1/2		
94	96		780		2		48.2			3 1/2		
96	97	C & SH.	781		1		72.1			1		
98	100		782		2		21.3			7 1/2		
100	102		783		2		41.5			4		
102	103		784		1		71.8			1/2		
168	170		24785		2		10.7			7		
170	172		786		2		9.8			8		
172	174		787		2		9.1			8		
174	176	SE	788		2		10.7			8		
176	178	AM	789		2		35			8		
178	180		790		2		60.1			2 1/2		
180	182	-H.	791		2		23.8			7		
182	184		792		2		12.9			8		
184	186		793		2		7.2			7 1/2		
186	188		794		2		7.7			7		
188	190		795		2		16.9			6 1/2		
190	192		796		2		10.6			7		
192	194		797		2		41.8			5 1/2		
194	196		24798		2		49.4			5		
168	192	SEAM - H COMPOSITE		12,626	24'	1.4	15.3	26.5	56.8	7	0.45	
214	216		24799		2		10.4			7 1/2		
216	218		24800		2		12.4			8		
218	220		24801		2		60.7			1 1/2		
214	218	COMPOSITE			4'	1.4	11.8	26.5	58.3	8	0.51	
325	327				2							
327	329		24802		2		15.1			7		
329	331	SEAM. G.	803		2		18.9			5		
			24804		2		45.8			1		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
331	333		24805		2		20·2			5 1/2		
333	335		806		2		13·6			7 1/2		
335	337		24807		2		33·0			7		
325	337	SEAM - G. COMPOSITE			12'	1·4	24·7	23·4	49·5	5 1/2	0·53	
347	348·5		24808		1·5		53·0					

Geological Log

K-Fording 78(3)G-4

fordi COAL-LIM

RH-1141

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills S.			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	15	0	4.57	Overburden
15	45			Mudstone, top 3' silty sandstone
45	49	13.72	14.94	Coal 4' 1.22m
49	66			Mudstone
66	85	20.12	25.91	Coal with 2' mudstone 76-78' 19(17)' 5.79(5.18)m SEAM - G
85	106			Mudstone, coal stringers at 88' and 91'
106	149			Mudstone and siltstone
149	172			Siltstone
172	187.5			Mudstone
187.5	190	57.15	57.91	Coal 2.5' 0.76m SEAM - Fm3
190	198			Sandstone
198	218			Mudstone
218	233			Sandstone and siltstone 222-227'
233	254			Siltstone
254	271			Mudstone
271	334			Siltstone, sandstone 298-302'
334	351			Mudstone
351	353	106.98		Coal 2' 0.61m
353	356			3' mudstone
356	362	108.51	110.34	Coal 6' 1.83m
362	366			4' mudstone SEAM - F
366	374	111.56	114.00	Coal 8' 2.44m
374	376.5			2.5' mudstone

Hole No. RH 1141

Page 1 of 2

322

2507-

Geological Log

fording COAL LIMITED

40 Scale

Color Plot & Dips | Ore Classes & Aver.

Objective:

Sampled:

Logged By: Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From	To	m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG
376.5	379	114.76	115.52	Coal 2.5' 0.76m
379	414.5			Mudstone
414.5	419.5	126.34	127.86	Coal 5' 1.52m
419.5	430		131.06	Mudstone
				END OF HOLE
				MAY 6, 1978

Hole No. RH 1141

Page 2 of 2

2507-

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
46	48		22502		2		7.4			8		
48	49.5		22503		1.5		23.3			7		
46	49.5	COMPO.			3.5	6.9	15.4	26.5	57.2	8	0.72	
67	69		22504		2		28.6			4		
69	71		22505		2		17.5			6½		
71	73		22506		2		9.9			6½		
73	75		22507		2		21.5			6½		
75	77	SEAM-G.	22508		2		31.6			6½		
77	79		22509		2		51.5			3½		
79	81		22510		2		24.0			7½		
81	83		22511		2		46.2			3½		
83	85		22512		2		17.5			7		
85	87		22513		2		30.9			6½		
87	89	C & Sh.	22514		2		64.5			1		
67	87	SEAM-G. COMPO.			20'	1.1	28.5	21.8	48.6	6	0.62	
186	188	C & Sh.	22515		2		40.2			2		
188	190	" "	22516		2		73.7			1		
197	199		22517		2		72.1			1		
199	200		22518		1		77.1			½		
337	339		22519		2		7.0			8		
339	340		22520		1		46.9			6½		
							14.4			6½		
341	343	SEAM-F	22521		2		37.2			1		
343	345		22522		2		18.2			2		
345	347		22523		2		73.3			½		
347	349		22524		2		58.7			1		
349	351		22525		2		19.9			2		

 Hole No. RH-1141

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
321	353		22526		2		19.9			2		
353	355		22527		2		12.3			4		
355	357		22528		2		12.7			5		
357	359		22529		2 1		36.1			3 1/2		
337	345	COMPO.			7 8	0.8	25.3	21.2	52.7	5 1/2	0.46	
347	359	COMPO.			10 1	0.8	21.0	19.9	58.3	3	0.38	
361	363		22530		2		31.1			4		
363	365		22531		2		45.1			3 1/2		
399	401		22532		2		43.3			2 1/2		
401	403	P.A & S FSI.	22533		2		22.1			6		
403	405	C & Sh.	22534		2		58.7			1		
401	403		22533		2	0.7	22.8	22.6	53.9	5 1/2	0.51	

Geological Log

fordin COAL-LIMIT

RH-1142

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

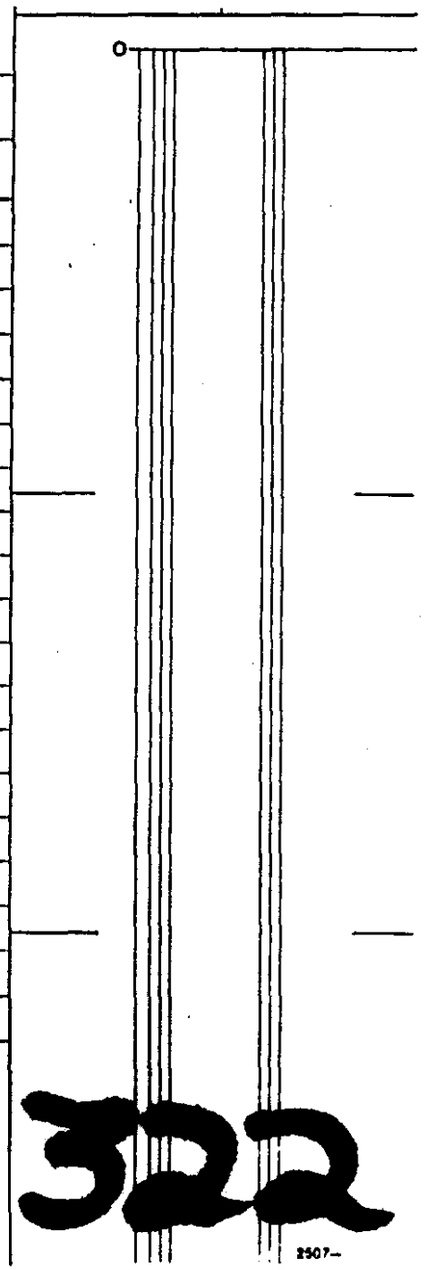
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	483,000 N.	Greenhills S.			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG

From	To	m	m	
0	9	0	2.74	Overburden
9	64			Mostly siltstone, some mudstone, sandstone band at 38'
64	74	19.51	22.56	Coal 10' 3.05m SEAM - G
74	80.5			Mudstone
80.5	82.5	24.54		Coal 2' 0.61m
82.5	99			Mudstone, thin coal band at 89'
99	140			Siltstone with interbeds of mudstone
140	167			Mudstone
167	170	50.90	51.82	Coal 3' 0.91 SEAM - Fm3
170	178			Sandstone
178	257			Mudstone with bands of siltstone
257	264			Sandstone
264	299			Interbedded siltstone and mudstone
299	319			Mudstone
319	321	97.23		Coal 2' 0.61m
321	344.5			Mudstone, silty near bottom.
344.5	346.5	105.00	105.61	Coal 2' 0.61m
346.5	353			6.5' mudstone
353	360	107.59	109.73	Coal 7' 2.13m SEAM - F
360	363			3' mudstone
363	365	110.64	111.25	Coal 2' 0.61m
365	400		121.92	Mudstone
				END OF HOLE
				MAY 8, 1978

Hole No. RH 1142

Page 1 of 1



322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	H	A	VM	FC	FSI	S	REMARKS
75	77		22535		2		43·7			4		
77	79		536		2		42·1			4		
79	81		537		2		14·7			8		
81	82	C & Sh.	538		1		34·1			6 1/2		
82	84		539		2		8·0			7		
84	86	See M-G	540		2		5·4			7 1/2		
86	88		541		2		14·7			7		
88	90		542		2		28·0			6 1/2		
90	92		544		2		57·2			4 1/2		
92	94		545		2		69·9			1		
94	96		546		2		54·8			4 1/2		
96	98	P.A. & S FSI	547		2		24·8			7		
98	100	C & Sh	22548		2		49·8			6		
79	20	Compo.			11'	0·9	17·9	28·1	53·1	7 1/2	0·60	
96	98.	Compo	22547			1·0	25·1	22·8	51·1	7	0·62	
104	106	C & Sh	22549		2		66·6			1		
163	164	C & Sh.	22551		2		55·1			5		
181	183	Sh & C	22552		2		62·0			1		
183	185		22553		2		28·9			6 1/2		
							79·8			1/2		
194	196	C & Sh.	22554		2		79·4			1/2		
196	197	" "	22555		1							
203	204	C & Sh	22556		1		72·8			1/2		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
336	338		22557		2		53.0			2 1/2		
338	339	C & SH	22558		1		71.0			1/2		
360	362		22559		2		56.4			1		
362	364	P.A & S FST	560		2	0.6	22.5 22.2	20.3	56.6	3, 2 1/2	0.44	
364	366	C & SH	561		2		75.8			1/2		
366	368	" "	562		2		62.0			1		
368	370		563		2		26.1			1		
370	372		564		2		18.6			4 1/2		
372	374		565		2		26.7			3		
374	376	C & SH	566		2		64.7			1		
376	378		567		2		36.8			3 1/2		
378	380		22568		2		39.7			3 1/2		
380	381		22569		1		83.6			0		
368	374	COMPO.			6'	0.7	23.9	22.6	52.8	2 1/2	0.39	

Geological Log

K - FORDING 78(3)B-4

FOR COAL RH-1143

Objective: | Sampled:

Logged By: R.K. | Date: December /78 | Composites:

Block:	Sect.: 483,500 N.	Place: Greenhills S.	App. Bear:	App.: Dip.:	Length:

From	To	m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY – NEUTRON LOG
0	7	0	2.13	Overburden (casing 9')
7	43.5			Siltstone with thin bands of mudstone.
43.5	57	13.26	17.37	Coal 13.5' 4.11m SEAM - G
57	62			Mudstone
62	63			Shaley coal
63	125			Mostly siltstone, interbeds of mudstone, bands of sandstone.
125	145			Mudstone
145	153	44.20	46.63	Coal 8' 2.44m SEAM - Fm3
153	174			Mudstone
174	176.5	53.04		Coal 2.5' 0.76m
176.5	246			Interbedded mudstone and siltstone.
246	263			Mudstone
263	277			Sandstone
277	286			Mudstone
286	302			Silty mudstone, 2' sandstone at top
302	306	92.05	93.27	Coal 4' 1.22m
306	316			Mudstone
316	350			Siltstone near top, mudstone
350	371	106.68	113.08	Coal with 3' mudstone 355-358' 21(18)' 6.4(5.49)m SEAM - F
371	396			Mudstone
396	401.5	120.70	122.38	Coal 5.5' 1.68m
401.5	417		127.10	Mudstone END OF HOLE
				MAY 10, 1978

Hole No. RH 1143

Page 1 of 1

322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ACTUAL B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
43	45	SEAM. G.	22631		2		21.3			7		
45	47		22632		2		17.9			6 1/2		
47	49		22633		2		31.7			6 1/2		
49	51		22634		2		18.5			7		
51	53		22635		2		8.3			7		
53	55		22636		2		5.7			8		
55	57		22637		2		37.3			6 1/2		
43	57	COMPO.		12,106	14'	1.0	20.0	24.6	54.4	7	0.66	
76	78		22638		2		36.2			2 1/2		
144	146	PARTS FSI.	22639		2		25.0			6 1/2		
146	148		640		2		41.5			2		
148	150		641		2		—			—		
150	152		22642		2		52.8			2 1/2		
144	146	Compo	22639	11,148	2	0.9	24.9	23.9	50.3	6 1/2	0.74	
171	173		22643		2		32.8			6 1/2		
173	175		22644		2		37.4			5		
177	179	C & SH.	22645		2		59.4			3		
300	302		22651		2		42.8			2 1/2		
302	304	C & SH.	22652		2		49.1			4		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
350	352		22653		2		47.1			3		
352	354		22654		2		31.0			1		
354	356	C & SH.	22655		2		77.3			1/2		
356	358		22656		2		13.1			3 1/2		
358	360		657		2		22.2			2		
360	362		658		2		13.8			6 1/2		
362	364		22659		2		14.4			5		
		✓ COMPO.										
352	364				12	0.8	28.7	19.3	51.2	3	0.39	
366	368		22660		2		44.5			1 1/2		
379	381	C & SH.	22661		2		78.0			0		
393	394		22662		1		19.6			5 1/2		
395	397		22663		2		36.3			1		
397	399		22664		2		28.6			5		
399	401		22665		2		69.9			1		
395	399	COMPO.			4	0.5	32.6	22.8	44.1	3	0.29	

Diamond Drill Geological Log

K-forming 78(3)B-4

RH-1144

Objective:

Sampled:

Logged By: R.K. Date: December/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		GREENHILLS S.			

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	5		1.52	Overburden
5	61.5			Mudstone with bands of siltstone
61.5	67.5	18.75	20.57	Coal 6' 1.83m
67.5	87			Mudstone
87	111	26.52	33.83	Coal 24' 7.32m SEAM-H
111	112.5			Mudstone
112.5	114			Shaley coal
114	121			Mudstone
121	125	36.88	38.10	Coal 4' 1.22m
125	140			Mudstone
140	144	42.67	43.89	Coal 4' 1.22m
144	153			Mudstone
153	164			Silty sandstone
164	180			Mudstone, siltstone. 170-173'
180	186	54.86	56.69	Coal 6' 1.83m
186	194			8' mudstone
194	201	59.13	61.26	Coal 7' 2.13m SEAM-G
201	210			9' Mudstone
210	219	64.01	66.75	Coal 9' 2.74m
219	257			Mudstone, silty intervals
257	264			Siltstone
264	276			Mudstone
276	280	84.12	85.34	Coal 4' 1.22m

Core Size

Hole No. RH 1144

Page 1 of 2

322

2507-

Diamond Drill Geological Log

Cominco

Objective:				Sampled:		
Logged By:	Date:			Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:	

From	To	Discard: m	m	Reason:
280	331			Siltstone, mudstone 297-306'
331	345			Sandstone
345	395.5			Mostly mudstone, some siltstone
395.5	399	120.55	121.62	Coal 3.5' 1.07m
399	423			Mudstone
423	424.5	128.93		Coal 1.5' 0.46m
424.5	454			Mudstone
454	499			Siltstone'
499	509			Mudstone
509	511	155.14	155.75	Coal 2' 0.61m
511	514			3' Mudstone
514	521	156.67	158.80	Coal 7' 2.13m
521	524			3' Mudstone
524	526	159.71	160.32	Coal 2' 0.61m
526	551		167.94	Mudstone

SEAM-F

END OF HOLE
MAY 9, 1978

Core Size

Hole No. RH 1144

Page 2 of 2

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
62	64		22576		2		22.3			6 1/2		
64	66		577		2		28.4			5		
66	68		22578		2		25.8			7		
62	68	COMPO.			6'	0.6	26.2	25.5	47.7	6	0.55	
86	88		22580		2		17.4			7 1/2		
88	90		581		2		35.4			6		
90	92		582		2		27.0			7		
92	94		583		2		47.7			4 1/2		
94	96		584		2		6.8			8		
96	98		585		2		3.0			7 1/2		
98	100		22586		2		13.5			7		
100	102		587		2		8.3			7 1/2		
102	104		588		2		9.9			6 1/2		
104	106		589		2		7.8			7 1/2		
106	108		590		2		29.6			7		
108	109	⊂℄ SH. "H"	22591		1		70.1			1/2		
86	108	COMPO.			22'	0.8	19.0	26.3	53.9	6 1/2	0.47	PETROGRAPHY ANALYSIS
110	112	⊂℄ SH P.A. & S. FSI	22592		2		27.8	64.1		6 1/2	1	
120	122		22593		2	0.6	27.5	27.8	31.6	2 1/2	6 1/2	CHECKS
122	124		22594		2		39.0	46.4		4	2 1/2	
		P.A. & S. FSI	22593		2	0.6	27.5	31.6	40.3	7	0.63	
140	142		22595		2		25.5	39.0		7	4	
142	143	⊂℄ SH.	22596		1		16.6	25.5		6 1/2	7	
140	143	COMPO.			3'	0.7	21.7	20.8	56.8	6	0.67	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
163	165		22597		2		16.5			6 1/2		
165	167		22598		2		66.8			1		
176	178		22599		2		87.6			0		
178	180	SEAM G	22600		2		21.0			2 1/2		
180	182		22601		2		22.7			6 1/2		
182	184		22602		2		9.2			6 1/2		
184	185		22603		1		58.3			3 1/2		
178	184	"G" COMPO.			6'	0.7	18.1	22.6	58.6	5 1/2	0.67	
192	194		22604		2		19.6			6		
194	196		605		2		8.2			7 1/2		
196	198	SEAM G	606		2		5.2			8		
198	200		22607		2		9.9			7		
192	200	"G" COMPO.			8'	0.9	11.0	25.2	62.9	7	0.73	PETROGRAPHY ANALYSIS
210	212		22608		2		19.2			7 1/2		178'-184' +
212	214		22609		2		18.2			7		
214	216	SEAM G.	22610		2		10.2			7 1/2		192'-200'+210'-
216	218		22611		2		8.3			7 1/2		
218	220		22612		2		33.2			6		220'
220	222		22613		2		39.5			4 1/2		
222	224		22614		2		49.3			3 1/2		
210	220	"G" COMPO.			10'	0.7	17.9	25.3	55.9	7	0.77	
273	275	C & SH	22615		2		54.1			2		
275	277	P.A. O/B S, FSI	22616		2		25.1			6 1/2		
			22616		2	0.6	25.7	24.1	40.4	6	1.51	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT. U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
278	280		22617		2		44.4			4		
288	289		22618		1		54.8			3 1/2		
394	396		22619		2		14.4			7		
396	397		22620		1		15.9			7		
324	327	COMPO.			3'	0.6	15.8	24.0	59.6	6 1/2	0.81	
422	424	C & SH	22621		2		77.3			1 1/2		
505	507	C & SH	22622		2		75.3			0		
507	509		22623		2		31.2			1		
509	511		22624		2		80.2			0		
511	513	SEAM-F	22625		2		25.3			1		
513	515		22626		2		22.0			1		
515	517		22627		2		20.2			2		
517	519		22628		2		72.0			1		
519	521	C & SH	22629		2		46.3			1		
521	522	" "	22630		1		59.4			1		
511	517	"F" COMPO.			6'	0.5	23.0	20.0	56.5	1 1/2	0.35	

Diamond Drill Geological Log

K-Formation 78(3)B-4

RH-1145

Objective:

Sampled:

Logged By: R.K. Date: December/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip,:	Length:
	485,500 N.	GREENHILLS SOUTH			

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	18			LOOSE/Broken rock
18	76.5			Mudstone, occasional thin siltstone band.
76.5	78.5	23.32	23.93	Coal 2' 0.61m
78.5	81.5			3' mudstone
81.5	99.5	24.84	30.33	Coal 18' 5.49m SEAM - H
99.5	107			7.5' Mudstone
107	111	32.61	33.83	Coal 4' 1.22m
111	120			Mudstone
120	155			Siltstone with some mudstone
155	193.5			Mudstone
193.5	204	58.98	62.18	Coal, 1' shale band 195-196 10.5 (9.5') SEAM - Gu
204	224			Silty sandstone, mudstone near top.
224	267			Siltstone
267	280	81.38	85.34	Coal, lower 4' shaley, shale band (less than 1') at 270' 13' 3.96m SEAM - G1.
280	308			Mudstone
308	330			Interbedded siltstone and mudstone
330	334	100.58	101.80	Coal 4'
334	392			Siltstone, mudstone 347-360'
392	406			Sandstone
406	434.5			Mudstone
434.5	438			Coal 3.5'
438	552		168.25	Interbedded siltston and mudstone, occasional bands of sandstone.

END OF HOLE MAY 7/78

Core Size

Hole No. RH 1145

Page 1 of 1

322

2567-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
78	80		22726		2		64.2			1/2		
80	82		727		2		30.0			7 1/2		
82	84		728		2		13.5			7 1/2		
84	86		729		2		20.6			7		
86	88	SCAM - H.	730		2		6.4			7 1/2		
88	90		731		2		10.5			8		
90	92		732		2		5.8			8		
92	94		733		2		76.6			1/2		
94	96		734		2		63.2	CHECK		1		
96	98		735		2		27.4			7		
98	100		736		2		11.0			7 1/2		
100	102		22737		2		70.8			1		
80	100	COMPO.		10,726	20	0.6	27.0	25.8	46.6	6 1/2	0.37	
104	106		22738		2		4.5			7 1/2		
106	108		22739		2		60.6			1		
111	113		22740		2		3.1			7 1/2		
113	115		741		2		7.6			7 1/2		
115	116		22742		1		34.5			5		
111	116	COMPO.			5							
188	190	C & SH	22743		2		—			—		
190	192	C & SH	22744		2		—			—		
193	195		22745		2							
195	197		746		2		36.2			4		
197	199	SCAM - GU.	747		2		12.7			6 1/2		
199	201		748		2		37.2			5		
201	203		22749		2		9.7			7		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ACTUAL B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
203	205		22750		2		5.0			7 1/2		
205	206	C & SH.	22801		1		12.3			7 1/2		
195	206	COMPO.		12,125	11	0.5	19.2	24.5	55.8	6 1/2	0.59	
269	271		22802		2		21.0			7 1/2		
271	273		803		2		51.7			3 1/2		
273	275	SEAM - GL.	804		2		7.2			8		
275	277		805		2		16.4			7 1/2		
277	279		806		2		24.5			6 1/2		
279	281		807		2		62.0			1		
281	283	C & SH	22808		2		24.8			3 1/2		
269	279	COMPO.			10'	0.5	24.2	24.1	51.2	6 1/2	0.60	
269	283	COMPO.		10,645	14'	0.5	29.8	22.8	46.9	5 1/2	0.56	
332	334	22811	22809		2		35.3, 62.8			6 1/2, 1		
334	336		22810		2		24.0			4		
336	337	C & SH.	22812		1		59.4			3 1/2		
		COMPO.	22811+810	10,404	4?	0.5	29.9	21.9	47.7	5 1/2	0.71	
421	423		22776		2		79.8			0		
436	438		22777		2		16.2			7 1/2		
438	440		778		2		49.3			3 1/2		
440	442		22779		2		71.8			1		
436	438		22777	12,552	2	0.4	16.3	24.8	58.5	7 1/2	0.71	
519	521		22813		2		85.5			0		

Diamond Drill Geological Log

K-FORDING 78(3)B-4

RH-1146

Cominco

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	479,000 N.	GREENHILLS SOUTH-BURNT RIDGE AREA			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG

From	To	Discard: m	m	
0	15	0.	4.57	Overburden and casing.
15	22			Siltstone? (Driller: Gravel)
22	37	6.71	11.28	Coal 15' 4.57m (Driller: clay and shale)
37	56			Mudstone (Driller: Gravel to 44')
56	96			Siltstone and interbeds of mudstone.
96	110			Sandy siltstone.
110	209			Sandstone with several siltstone intervals.
209	212.5	63.70	64.77	Coal 3.5' 1.07m
212.5	268			Mudstone, coal stringers at 240'
268	271	81.69	82.60	Coal 3' 0.91m
271	303			Mudstone
303	313	92.35	95.40	Coal 10' 3.05m
313	345			Siltstone
345	378			Mudstone
378	519		158.19	Sandstone, 470-519. Very coarse grained sandstone and hard drilling. (Driller called the unit as sandstone and quartz).

END OF HOLE

JUNE 7, 1978

Core Size

Hole No. RH 1146

Page 1 of 1

322

2567-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VH	FC	FSI	S	REMARKS
210	212	P.A.0.3 FSI →	24809		2		24.5			4		
212	214		24810		2		68.6			1/2		
"			24809		2	1.1	24.4	20.1	54.4	4	0.52	
267	269		24811		2		50.5			1		
269	271		24812		2		59.6			0		
304	306		24813		2		42.5			1/2		
306	308		814		2		39.8			1/2		
308	310		815		2		29.4			1/2		
310	312		816		2		27.7			1		
312	314		24817		2		71.7			0.		
308	312	Compo			4'	0.7	28.1	17.9	53.3	1	0.26	
304	312	Compo			8'	0.8	35.0	16.1	48.1	1	0.34	

Diamond Drill Geological Log

K- FORDING 78(3)D-4

RH-1147

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	481,750 N.	GREENHILLS SOUTH			

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	52	0	15.85	Overburden (Driller called 53' Gravel)
52	56	15.85	17.07	Coal 4' 1.22m Lower part SEAM - H
56	71			Mudstone
71	75.5	21.64	23.01	Coal 4.5' 1.37m SEAM HL band
75.5	83			Mudstone
83	93			Siltstone
93	109			Mudstone
109	127			Siltstone
127	175			Sandstone, silty near bottom.
175	198			Siltstone, coal stringers at 178'
198	208			Sandstone, mudstone near bottom.
208	217.5	63.40	66.29	Coal 9.5' 2.90m
217.5	221			3.5' mudstone
221	229	67.06	69.80	Coal 8' 2.44m
229	233			4' mudstone
233	247	71.02	75.29	Coal 14' 4.27m
247	250.5			3.5' mudstone
250.5	291	76.35	88.70	Coal with 2' shale 276-278' 40.5'(38.5)' 12.34 (11.73)m
291	300			Mudstone and highly carbonaceous shale
300	302	91.44		Coal 2' 0.61m
302	314			Mudstone
314	417			Interbedded mudstone and siltstone, mudstone near bottom, coal band (one foot) at 330'

SEAM - G
FAULTED

Core Size

Hole No. RH 1147

Page 1 of 2

322

Diamond Drill Geological Log

Cominco

Objective:				Sampled:		
Logged By:	Date:			Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:	

From	To	Discard: m	Discard: m	Reason:
417	421	127.10	128.32	Coal 4' 1.22m SEAM - F m3
421	430			Siltstone and sandstone near bottom.
430	463			Mudstone
463	535			Interbedded mudstone and siltstone
535	599		182.58	Siltstone
				END OF HOLE

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

Core Size

Hole No. RH 1147

Page 2 of 2

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
53	56		22845		3		24.2			6 1/2		
56	58		22846		2		40.8			4 1/2		
			22845+846		5'	0.9	32.1	21.7	45.3	5 1/2	0.48	
72	75	C & S	22847		3		42.6			4 1/2		
75	77	C & S	22848		2		31.0			6 1/2		
			22848		2'	0.8	31.0	25.8	42.4	6 1/2	0.44	
210	212		22849		2		61.5			1		
213	215		22850		2		28.0			5		
215	217		22876		2		27.1			6 1/2		
217	219		22877		2		29.5			6 1/2		
219	221		22878		2		11.9			7		
221	223		22879		2		11.6			6 1/2		
223	225		22880		2		26.2			6 1/2		
225	227	SE	22881		2		58.2			1 1/2		
227	229		22882		2		16.2			6 1/2		
229	231	AM	22883		2		79.2			0		
231	233		22884		2		77.7			0		
233	235	- G.	22885		2		39.1			4 1/2		
235	237		22886		2		17.9			6 1/2		
237	239		22887		2		23.6			7		
239	241		22888		2		69.5			1		
241	243	FAULTED	22889		2		42.9			6		
243	245		22890		2		22.3			6		
245	247		22891		2		71.1			1 1/2		
247	249		22892		2		72.2			0		
249	251		22893		2		75.9			1 1/2		
251	253		22894		2		63.7			1		
253	255		22895		2		66.0			1		
255	257		22896		2		14.3			5		
257	259		22897		2		29.4			3 1/2		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	PCT	S	REMARKS
259	261		22898		2		17.9			7		
261	263		22899		2		14.7			7 1/2		
263	265		22900		2		18.7			7		
265	266		23463		1		14.9			3 1/2		
266	268		23451		2		22.8			3		
268	270		23452		2		27.3			5		
270	272		23453		2		32.1			4 1/2		
272	274		23454		2		56.0			2		
274	276		23455		2		33.7			4		
276	277		23456		1		14.8			7		
279	281		23457		2		29.6			5		
281	283		23458		2							
213	229	COMPO.			16'							
233	239	COMPO. 23885-887			6'	0.8	27.0	23.2	49.0	6	0.52	ACTUAL BTU.
233	245	COMPO. 23885-890			12'	0.9	36.1	20.7	42.3	5	0.50	9,405
255	277	COMPO. 896-900+451-456			22'	1.1	27.4	22.6	48.9	4	0.51	
302	304		23459		2							
419	421		23460		2		37.5			3 1/2		
421	422		23461		1		43.9			5 1/2		
440	442	CCS	23462		2		75.4			1		

Diamond Drill Geological Log

K- Fording 78(3)B-4 RH-1148

Cominco

Objective:		Sampled:
Logged By: R.K.	Date: December /78	Composites:

Block:	Sect.: 482,000 N.	Place: GREENHILLS SOUTH	App. Bear:	App.: Dip.:	Length:

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	13			Overburden
13	33			Siltstone, with bands of mudstone
33	41			Mudstone
41	69			Sandstone
69	97			Siltstone
97	115			Mudstone
115	137	35.05	41.76	Coal 22' 6.71m SEAM - G
137	166			Mudstone, one foot shaley coal band at 143'
166	230			Mostly siltstone with bands of mudstone
230	255			Silty sandstone near top and siltstone
255	300			Mostly mudstone, silty interval 261-267'
300	308	91.44	93.88	Coal 8' 2.44m SEAM - Fm3
308	314			Siltstone
314	324			Sandstone
324	350		106.68	Mudstone
				END OF HOLE
				MAY 31, 1978

Core Size

Hole No. RH 1148

Page 1 of 1

322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
115	117		22666		2		13.0			7 1/2		
117	119		22667		2		52.3			1 1/2		
119	121		668		2		19.4			6 1/2		
121	123		669		2		6.7			7		
123	125		670		2		7.9			7 1/2		
125	127	SEAM - G	671		2		8.6			7 1/2		
127	129		672		2		34.9			5		
129	131		673		2		12.8			8		
131	133		674		2		22.1			7		
133	135		22675		2		5.2			8		
135	137		22676		2		27.1			6 1/2		
115	137	SEAM - G. *COMPO.			22	0.7	19.4	24.5	55.4	6 1/2	0.61	PETROGRAPHIC ANALYSIS
144	146		22677		2		48.4			1		
[illegible]	[illegible]	CLEAN	22678		1		76.1			1		
301	303		22679		2		23.6			6 1/2		
303	305		680		2		30.2			4 1/2		
305	307		681		2		42.6			1		
307	309		22682		1		39.4			4		
301	305	"FM 3" COMPO.			4	0.8	26.6	22.1	50.5	5 1/2	0.77	

Diamond Drill Geological Log

K-FORDING 78(3)B-4

Cominco

RH-1149

Objective:

Sampled:

Logged By: R.K. Date: November/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		GREENHILLS S. - BURNT RIDGE AREA			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG

From	To	Discard: m	m	
0	9	0	2.74	Overburden
9	82			Sandstone, occasional silty intervals.
82	92			Mudstone, Siltstone
92	100			Sandy siltstone
100	110			Mudstone
110	118	33.53	35.97	Coal 8' 2.44m
118	122.5			4.5' Mudstone } SEAM - F
122.5	134	37.34	40.84	Coal 11.5' 3.51m
134	153			Silty sandstone near top and mudstone
153	162	46.63	49.38	Coal 9' 2.74m
162	197			Mudstone, grading to siltstone near bottom
197	209			Mudstone
209	219.5	63.70	66.90	Coal 10.5' 3.2m
219.5	244			Mudstone, thin bands of siltstone
244	247	74.37	75.29	Coal 3' 0.91m
247	250			3' Mudstone
250	260.5	76.20	79.40	Coal 10.5' 3.2m
260.5	263.0			2.5 Mudstone
263.0	265.5	80.16	80.92	Coal 2.5' 0.76m
265.5	287			Mudstone
287	380			Siltstone with several thin interbeds of mudstone
380	387			Mudstone
387	396.5	117.96	120.85	Coal 9.5' 2.90m SEAM - Eu

Core Size

Hole No. Rh 1149

Page 1 of 2

322

2507-

Diamond Drill Geological Log

Cominco

Objective:			Sampled:		
Logged By:	Date:		Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

40 Scale

Color Plot & Dips | Ore Classes & Aver.

From	To	Discard: m	m	Reason:
396.5	416			Mudstone, coal stringers at 400'
416	439			Siltstone with some mudstone
439	449			Mudstone, coal stringers at 447'
449	468			Siltstone and mudstone
468	490	142.65	149.35	Coal 22' 6.71m SEAM - D?
490	511.5			Mudstone
511.5	523.5	155.90	159.56	Coal 12' 3.66m SEAM - DL?
523.5	550		167.64	Mudstone, some siltstone

END OF HOLE

MAY 31, 1978

Core Size

Hole No. RH 1149

Page 2 of 2

2507-

ROTARY DRILL CUTTINGS RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
110	112		24728		2		4.6			7 1/2		
112	114		729		2		2.4			6 1/2		
114	116		730		2		10.0			7		
116	118	C & SH.	24731		2		39.1			1 1/2		
		Composite			8'	0.5	15.1	24.1	60.3	5 1/2	0.57	
124	126		24732		2		7.6			6		
126	128		733		2		9.5			4		
128	130		734		2		38.9			1 1/2		
130	132		735		2		11.3			5		
132	134	C & SH.	24736		2		47.3			1 1/2		
		Composite			8'	0.3	17.0	21.4	61.3	4	0.44	
153	155		24737		2		54.7			2		
155	157		738		2		19.3			2 1/2		
157	159		739		2		21.1			6		
159	161		740		2		13.7			6 1/2		
161	163		24741		2		47.0			3 1/2		
		Composite										
155	161				6	0.4	18.4	21.3	59.3	4 1/2	0.54	
209	211		24742		2		16.8			2		
211	213		743		2		17.2			1		
213	215		744		2		11.4			6 1/2		
215	217		745		2		31.6			3 1/2		
217	219		746		2		35.3			3 1/2		
219	221		24747		2		58.0			1		
		Composite			10'	0.4	23.0	22.7	53.9	2 1/2	0.42	
			24748		2	0.4	24.0	20.4	55.2	2	0.64	
245	247	P.A. 4 & FSI >	24748.		2		24.3			1 1/2		
247	249		24749		2		54.7			1		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	H	A	VH	FC	FSI	S	REMARKS
249	251		24750		2		63.7			1		
251	253		24751		2		72.3			0		
253	255		752		2		51.0			1		
255	257		753		2		38.5			1		
257	259		754		2		35.0			1		
259	261		24755		2		68.2			1 1/2		
		COMPO		10,279	4'	0.2	36.2	19.5	43.7	1	0.40	
388	390		24756		2		38.8			1		
390	392		757		2		18.9			6 1/2		
392	394		758		2		35.6			1 1/2		
394	396		759		2		29.3			5 1/2		
396	398		760		2		68.1			1		
398	400	CC SH.	24761		2		75.0			1/2		
		COMPO			8'	0.3	30.4	19.7	49.6	3 1/2	0.40	
470	472		24762		2		38.7			1 1/2		
472	474		763		2		20.2			2		
474	476		764		2		23.2			1		
476	478		765		2		27.5			1 1/2		
478	480		766		2		32.5			1		
480	482		767		2		22.8			1		
482	484		768		2		21.5			1 1/2		
484	486		769		2		18.7			1		
486	488		770		2		18.5			1		
488	490		24771		2		39.3			1		
470	490	COMPO.			20'	0.6	24.5	21.7	53.2	1 1/2	0.34	

ROTARY DRILL RECORD (cont'd)

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
513	515		24772		2		44.0			1/2		
515	517		773		2		26.7			1		
517	519		774		2		21.3			1		
519	521		24775		2		31.9			1		
521	523		24776		2		25.8			1		
523	529	C& SH.	24777		2		72.9			1 1/2		
		Comp.			8'	0.3	26.0	21.0	52.7	1 1/2	0.62	
533	534		24778		1		33.4			1		

Rotary Drill Geological Log K-Dogene 78 (B-4

RH-1150

Objective:

Sampled:

Logged By: R.K. **Date:** December /78

Composites:

Block:	Sect.:	Place: LAKE MOUNTAIN	App. Bear:	App.: Dip.:	Length:

From Ft.	To Ft	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
0	9		2.74	Sandstone? (Overburden: Driller)
9	26			Sandstone
26	45			Siltstone and mudstone near bottom.
45	54.5	13.72	16.61	Coal 9.5' 2.9m
54.5	60			Sandstone
60	64			Mudstone
64	88			Siltstone, mudstone 74-82'
88	101			Mudstone
101	104.5	30.78	31.85	Coal 3.5' 1.07m
104.5	159			Siltstone with sandy intervals.
159	173.5			Mudstone
173.5	182	52.88	55.47	Coal 8.5' 2.59m
182	201			Mudstone, siltstone bands.
201	204	61.26	62.18	Coal 3' 0.91m
204	207.5			3.5' mudstone
207.5	210.5	63.25	64.16	Coal 3' 0.91m
210.5	232			Mudstone
232	259			Mostly siltstone, sandstone near top.
259	266.5			Mudstone
266.5	281	81.23	85.65	Coal 14.5' 4.42m
281	292			Mudstone with one siltstone interbed.
292	316			Silty sandstone.

Hole No. RH 1150 Page 1 of 2

322

Rotary Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From Ft.	To Ft.	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
316	335			Siltstone
335	378			Silty sandstone near top and siltstone.
378	385	115.21	117.35	Coal 7' 2.13m
385	436.5			Mostly siltstone with thin interbeds of mudstone. Sandstone 415-420'
436.5	442.5	133.05	134.87	Coal 6' 1.83m
442.5	466			Sandstone near top and siltstone, mudstone near bottom, 2' coal band at 457.5'
466	477.5			Sandstone band near top grading to mudstone towards bottom.
477.5	479	145.54		Coal 1.5' 0.46m
479	549			Mudstone, shaley siltstone towards bottom.
549	565	167.34	172.21	Coal 16' 4.88m SEAM - H
565	579		176.48	Mudstone, some siltstone near bottom, thin coal band at 569.5'
				END OF HOLE
				JULY 28, 1978

Color Plot & Dips	Ore Classes & Aver.
0	

Hole No. RH 1150

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
46	48	C E S	23618		2		43.5			4 1/2		
48	50		23619		2		8.0			7 1/2		
50	52		23620		2		18.4			7 1/2		
52	54		23621		2		5.3			8		
54	56		23622		2		32.1			5		
56	57	C E S	23623		1		63.4			1		
46	56	COMPO.		12,115	10	0.1	21.5	29.7	48.7	6 1/2	0.56	PETROGRAPHY.
103	105	C E S	23624		2		41.5			6 1/2		
177	179	C E S	23625		2		23.4			6 1/2		
179	181		23626		2		51.3			2		
181	183		23627		2		23.1			7		
183	184	C E S	23628		1		45.8			4		
177	184	COMPO.		9,452	7	0.2	36.4	24.1	39.3	5	0.78	
264	271		23629		2		5.8			7		
271	273		23630		2		23.4			6 1/2		
273	275	C E S	23631		2		14.2			6 1/2		
275	277		23632		2		NO SAMPLE					
277	279		23633		2		31.3			5 1/2		
279	281	C E S	23634		2		12.7			5 1/2		
281	283	C E S	23635		2		44.2			3		
283	285	C E S	23636		2		61.8			1		
269	283	COMPO.		11,483	12 14	0.3	23.0	25.5	50.8	5 1/2	0.44	" " "
380	382		23637		2		16.4			7		
382	384		23638		2		15.7			7		
384	386		23639		2		17.1			7		
380	386	COMPO		12,866	6	0.4	16.0	26.2	57.4	6 1/2	0.64	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
551	553		23640		2		28·0			7		
553	555		23641		2		24·6			6 1/2		
555	557		23647		2		12·0			7 1/2		
557	559		23642		2		15·7			7		
559	561		23643		2		16·2			7 1/2		
561	563		23644		2		7·2			7 1/2		
563	565		23645		2		4·9			8		
565	567	C & SH.	23646		2		5·4			7		
551	567	* COMPO.		13,058	16	0·2	14·7	28·1	57·0	6 1/2	0·54	PETROGRAPHY.

Rotary Drill Geological Log K-FORDINGS 78(3)B-4

fording COAL LIMITED

RH-1151

ver.

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		LAKE MOUNTAIN			

From Ft.	To Ft	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
0	17			Siltstone with sandstone band, mudstone near bottom.
17	21	5.18	6.40	Coal 4' 1.22m
21	38			Mudstone
38	40	11.58		Coal 2' 0.61m
40	72			Siltstone, sandstone and mudstone bands.
72	98			Mudstone
98	151.5			Siltstone, silty sandstone 133-137'
151.5	154	46.18		Coal 2.5' 0.76m
154	162			Mudstone, siltstone band
162	165	49.38	50.29	Coal 3' 0.91m
165	226.5			Mudstone near top, shaley siltstone.
226.5	234.5	69.04	71.48	Coal 8' 2.44m
234.5	269			Mostly siltstone with bands of mudstone and sandstone.
269	273	81.99	83.21	Coal 4' 1.22m
273	280.5			Siltstone and mudstone.
280.5	284.5	85.50	86.72	Coal 4' 1.22m
284.5	304			Mudstone
304	311.5			Siltstone
311.5	313.5	94.95		Coal 2' 0.61m
313.5	332			Siltstone near top and mudstone.
332	337			Sandstone
337	352			Mudstone

Hole No. RH 1151

322

Rotary Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From Ft.	To Ft.	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
352	410			Silty sandstone.
410	424			Shaley siltstone.
424	440			Sandstone band on top and siltstone.
440	479			Mudstone, silty interval near top.
479	487	146.0	148.44	Coal 8' 2.44m
487	491			Shaley coal 4'
491	494			3' mudstone
494	496.5	150.57		Coal 2.5' 0.76m
496.5	522			Mudstone, shaley siltstone bands.
522	535			Siltstone, sandstone bands near top and bottom.
535	544			Mudstone
544	555	165.81	169.16	Coal 11' 3.35m (F.W. Estimated from driller's report)
555	559		170.38	Mudstone
				END OF HOLE
				JULY 30, 1978

Color Plot & Dips | Ore Classes & Aver.

0

Hole No. RH 1151

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ACTUAL B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
19	21		23648		2		19.0			1/2		
21	23		649		2		75.3			0		
23	25		23650		2		75.5			0		
26	27		23651		1		36.4			0		
39	41		23652		2		29.2			0		
153	155		23653		2		30.5			5		
230	234		23654		4		32.7			2 1/2		
234	236		23655		2		28.7			6		
230	236	COMPOSITE		10,040	6	0.9	30.8	26.3	42.0	4 1/2	0.52	
271	273		23656		2		21.0			5 1/2		
273	275		23657		2		60.1			1		
279	284	C & SH	23658		5		33.1			5		
284	286	" "	23659		2		42.3			4		
279	284		23658	10,242	5	0.7	32.9	27.5	38.5	5	0.65	
549	551	C & SH	23660		2		34.7			5 1/2		
551	553	" "	661		2		43.8			4 1/2		
553	555	" "	23662		2		59.4			1		
549	553	COMPOSITE		9,023	4	0.8	39.0	21.6	38.6	5	0.55	

Rotary Drill Geological Log

K-FORDING 78(3)B-4

fording COAL LIMITED

RH-1152

Objective:		Sampled:	
Logged By: R.K.	Date: December /78	Composites:	

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		LAKE MOUNTAIN			

From Ft.	To Ft.	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
0	9			Clay and siltstone.
9	10			Coal 1'
10	68			Mudstone with bands of siltstone.
68	90			Sandy siltstone.
90	101			Sandstone.
101	113			Siltstone and mudstone.
113	116	34.44	35.36	Coal 3' 0.91m
116	125			Mudstone
125	148			Mostly siltstone with interbedded mudstone.
148	150	45.11		Coal 2' 0.61
150	171			Siltstone, mudstone near top, coal band (less than 1') at 154.5'
171	177	52.12	53.95	Coal 6' 1.83m
177	191			Mudstone
191	198			Siltstone
198	214			Mudstone
214	234			Siltstone
234	245			Mudstone, highly carbonaceous from 235-239!
245	260			Siltstone
260	284			Sandstone with one siltstone interbed.
284	292			Siltstone
292	306			Mudstone, coal stringers at 296', 300' and 304'.
306	377			Interbedded silty sandstone and mudstone.

Hole No. RH 1152 Page 1 of 2

322

Rotary Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

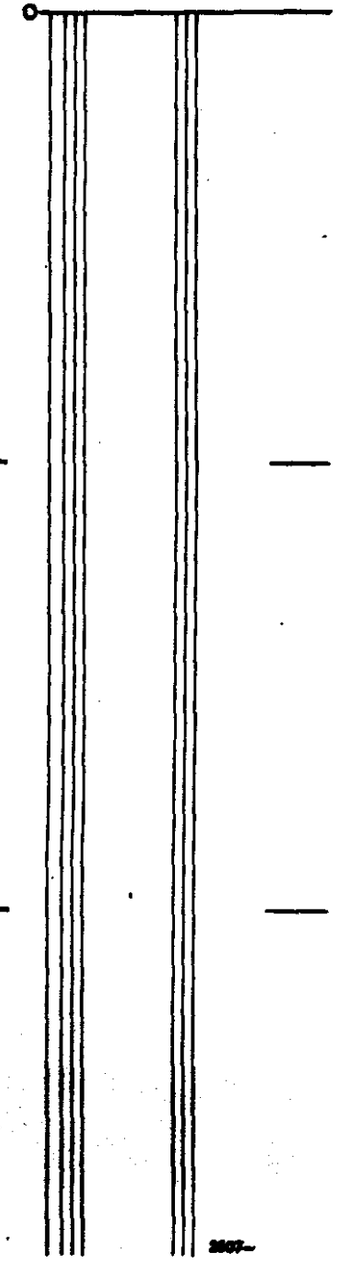
Logged By: Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From Ft.	To Ft	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
377	385.5			Mudstone
385.5	387.5	117.5		Coal 2' 0.61m
387.5	414			Mostly siltstone. Some mudstone
414	418	126.19	127.41	Coal 4' 1.22
418	427			Mudstone and siltstone.
427	430.5	130.15	131.22	Coal 3.5' 1.07m
430.5	447			Mudstone
447	486			Siltstone near top, grading to sandstone near bottom.
486	499			Mudstone
499	511			Siltstone
511	512.5	155.75		Coal 1.5'
512.5	514			Mudstone
514	516	156.67		Coal 2'
516	530			Mudstone
530	548			Sandstone
548	557		169.77	Mudstone
				END OF HOLE
				AUGUST 3, 1978

Color Plot & Dips | Ore Classes & Aver.



Hole No. RH 1152

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BTU ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
115	117	C&S	23663		2		33.5			5		
		Comp *	23663	9,531	2	0.5	33.9	27.1	38.5	4 1/2	0.72	
174	176		23664		2		27.9			6 1/2		
177	178		23665		1		18.3			6 1/2		
174	178	Comp.		10,729	3|5	0.4	23.5	33.3	42.8	6 1/2	0.75	
301	303	C&S	23666		2		32.1			6 1/2		
305	306	C&S	23667		2		13.3			6 1/2		
314	316	C&S	23668		2		59.5			1		
380	382	C&S	23669		2		59.6			1		
382	384	C&S	23670		2		54.0.			2		
384	386		23671		2		46.4			4		
386	388	C&S	23672		2		29.4			6 1/2		
388	390	C&S	23673		2		51.5			2 1/2		
405	407	C&S	23674		2		65.0			1		
414	416		23675		2		16.3			6		
416	418		23726		2.		18.3			6 1/2		
414	418	Comp.			4'							

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
427	429	CES	23727		2		25.3			7		
429	431	CES										
427	429	*	23727	10,932	2	0.4	25.2	28.4	46.0	7	0.63	
484	486											
	488											
	490											
	492											
	494											
	496											
	498											
498	499											
512	514											
514	516											
516	517											

Page No. 2/2 Hole No. RH- 1152

Rotary Drill Geological Log K-Fording 78(3)B-4

fording COAL LIMITED

RH 1154

Objective:

Sampled:

Logged By: R.K. **Date:** January /79

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		LAKE MOUNTAIN			

From Ft.	To Ft	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
0	9		2.74	Overburden
9	18			Mudstone
18	26			Siltstone, sandy and S.S. band
26	37			Mudstone
37	41	11.28	12.50	Coal 4' 1.22m
41	50			Silty sandstone, top 3' mudstone
50	104			Interbedded mudstone and siltstone
104	108			Silty sandstone
108	120			Mudstone, coal stringers at 113' and 119'
120	143			Siltstone
143	148	43.59	45.11	Coal 5' 1.52m
148	184			Mostly siltstone, some mudstone.
184	199			Sandstone
199	201	60.66		Coal 2' 0.61m
201	229.5			Siltstone
229.5	234.5			Shaley coal and shale
234.5	256			Siltstone, mudstone bands.
256	288			Sandstone
288	317			Siltstone, mudstone near top.
317	322			Sandstone
322	324.5	98.15		Coal 2.5' 0.76m
324.5	345.5			Siltstone with sandstone bands, mudstone near bottom.
345.5	347	105.31		Coal 1.5' 0.46m

Hole No. RH
RH 1154

Page of
1 of 2

322

Rotary Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From Ft.	To Ft.	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
347	359			Sandstone, mudstone band near top.
359	391			Mudstone, one foot coal band at 381', coal stringers at 388'
391	420			Siltstone, sandy intervals.
420	431			Mudstone
431	459.5			Siltstone with sandstone band.
459.5	465	140.06	141.73	Coal 5.5' 1.68m
465	510			Siltstone with mudstone bands, silty sandstone 469-475'
510	512	155.45		Coal 2' 0.61m
512	513.5			1.5' mudstone
513.5	518.5	156.51	158.04	Coal 5' 1.52m
518.5	541.5			Siltstone with bands of mudstone and sandstone.
541.5	545.5	165.05	166.27	Coal 4' 1.22 m
545.5	561		170.99	Siltstone
				END OF HOLE
				JULY 27, 1978

Color Plot & Dips | Ore Classes & Aver.

Hole No. RH 1154

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
38	40		23605		2		8.1			4		
40	42		23606		2		41.7			3 1/2		
38	42	COMPOSITE		11,251	4	0.7	24.6	32.0	42.7	4	0.44	
144	146		23607		2		32.5			4		
146	148		23608		2		11.1			4		
148	149		23609		1		35.4			3		
144	149	COMPOSITE		10,860	5'	0.8	26.6	30.0	42.6	4	0.68	
291	293	C & S	23610		2		39.0			3 1/2		
464	466		23611		2		44.3			3		
512	514		23612		2		77.0			0		
514	516		23613		2		25.2			1		
516	518		23614		2		23.6			3		
518	520		23615		2		63.8			1		
514	518	COMPOSITE		11,103	4	0.5	24.2	25.9	49.4	2	0.44	
534	536		23616		2		70.7			1/2		
544	546		23617		2		31.7			3		
		P.A. & S., FSI.	23617.	9,565	2	0.6	32.0	25.5	41.9	3	0.50	

Rotary Drill Geological Log K-FORDING 78(3)B-4

fording COAL LIMITED

RH 1155

Objective:

Sampled:

Logged By: R.K. Date: January /79

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		LAKE MOUNTAIN			

From Ft.	To Ft.	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
0	8		2.44	Overburden
8	42			Silty sandstone near top, siltstone and mudstone near bottom.
42	44			Coaly shale.
44	48			mudstone
48	52			Shaley coal 4'
52	96			Mudstone, siltstone bands
96	101			Silty sandstone
101	125			Siltstone, some mudstone near bottom
125	130	38.1	39.62	Coal 5' 1.52m
130	142			Mudstone, some siltstone
142	145	43.28	44.20	Coal 3' 0.91m
145	159			Mudstone, siltstone bands.
159	161			Shaley coal 2'
161	186			Mudstone
186	211			Sandstone
211	235			Siltstone
235	278			Mudstone, thin coal bands (less than 1') at 241' and 277'
278	327			Siltstone
327	343			Mudstone
343	371			Sandstone, with interbeds of siltstone
371	401			Mudstone, silty intervals
401	417			Siltstone, sandstone bands

Hole No. RH 1155 Page 1 of 2

322

ver.

Rotary Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:		Sampled:				Color Plot & Dips	Ore Classes & Aver.
Logged By:	Date:	Composites:					
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:		

From Ft.	To Ft	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
417	422	127.10	128.63	Coal 5' 1.52m
422	428			Mudstone
428	430	130.45		Coal 2' 0.61m
430	463			Mudstone, silty intervals, coal stringers at 439' and 447'
463	535			Sandstone band at top and mudstone.
535	547	163.07	166.73	Coal 12' 3.66m
547	565		172.21	Mudstone, coal stringers at 550'
				END OF HOLE
				MAY 15, 1978

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
41.5	43.5	C & SH.	22683		2		64.7			1		
45.5	47.5		22684		2		45.1			3		
47.5	49.5		22685		2		39.1			6		
49.5	50.5		22686		1		78.3			0		
123	125		22687		2		12.6			6 1/2		
125	127		22688		2		25.2			1 1/2		
127	129		22689		2		47.0			3 1/2		
		COMPO.		12,039	4'	1.0	18.9	29.2	50.9	4	0.54	
140	142		22690		2		18.6			6		
142	144		22691		2		42.2			6		
167	169		22692		2		31.1			5 1/2		
169	170		22693		1		—			—		
376	378	C & SH	22694		2		69.2			1		
416	418		22695		2		14.1			7		
418	420		22696		2		21.4			6 1/2		
		COMPO.		12,475	4'	1.0	17.6	26.5	54.9	7	0.53	
426	428		22697		2		44.9			2 1/2		
428	429	C & SH	22698		1		73.1			1/2		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
A37	A39	C & SH.	22699		2		65.5			1 1/2		
A45	A47		22700		2		71.1			1 1/2		
A47	A49		23201		2		65.4			1		
548	550		23202		2		33.4			5 1/2		
550	552		23203		2		16.9			6 1/2		
552	554		204		2		10.1			7 1/2		
554	556		205		2		10.7			7		
556	558		206		2		26.4			6 1/2		PETROGRAPHIC ANALYSIS.
		COMPO.		12,349.	10'	1.1	19.3	23.5	56.1	6 1/2	0.49	
561	563	C & SH.	23207		2		66.4			1		

Rotary Drill Geological Log

K-FORDING 78(3)B-4

fording COAL LIMITED

RH1156

Objective:

Sampled:

Logged By: R.K. Date: January /79

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		LAKE MOUNTAIN			

From Ft.	To Ft.	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
0	6		1.83	Overburden
6	14.5			Siltstone and mudstone
14.5	16			Shaley coal 1.5'
16	112			Mostly mudstone with interbeds of siltstone
112	135			Siltstone
135	149			Silty sandstone
149	154			Mudstone
154	156			Shaley coal 2'
156	159	47.55	48.46	Coal 3' 0.91m
159	160			Coaly shale
160	162	48.77		Coal 2' 0.61m
162	194			Mudstone, thin sandstone band at 182'
194	199			Sandstone
199	220			Silty sandstone and siltstone
220	289			Interbedded siltstone and mudstone.
289	294			Sandstone
294	322			Mudstone
322	357			Sandstone
357	382			Siltstone, sandy near bottom
382	408			Mudstone, siltstone near bottom.
408	409.5	124.36		Coal 1.5' 0.46m
409.5	418			Mudstone near top and siltstone.

Hole No. RH 1156

322

Rotary Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

Color Plot & Dips | Ore Classes & Aver.

From Ft.	To Ft.	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
418	441			Mudstone, sandstone band at 428'
441	443	134.42		Coal 2' 0.61m
443	461			Sandstone, silty.
461	499			Siltstone
499	510			Mudstone
510	512			Shaley coal 2'
512	516	156.06	157.28	Coal 4' 1.22m
516	522			Mudstone
522	528			Very poor coal or highly carbonaceous shale.
528	538			Mudstone
538	539			Shaley coal
539	545			Mudstone
545	555		169.16	Siltstone
				END OF HOLE
				MAY 15, 1978

Hole No. RH 1156

2307-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
15	17		23208		2		43.1			0		
17	18	C & SH	23 209		1		65.1			0		
48	50		23210		2		62.8			1/2		
152	154		23211		2		52.5			2		
154	156	P.A d/c S FSI.	23212		2		15.3			6 1/2		
160	162	P.A. d/c S FSI	23213	ACTUAL BTU	2		32.3			6 1/2		
154	162.	✓ Comp	23212+213	10,995	4/8'	0.9	23.4	30.5	45.2	6 1/2	0.82	
403	405	P.A d/c S F SI.	23215	12,691	2	0.9	16,915.7	30.5	52.2	6 1/2, 7	0.62	
405	407		23216		2		54.7			1 1/2		
428	430	✓ Comp.	23217	12,454	2	0.6	18,18.1	29.4	52.0	7,7	0.61	
496	498		23218		2		32.8			3 1/2		
498	500		219		2		37.5			5		
500	502		220		2		12.6			7		
502	504		23221		2		29.6			6		
				ACTUAL								
496	504	COMPO.		10,312	8	0.6	28.5	24.7	46.2	6	0.70	
509	511		23222		2		60.0			2 1/2		
511	513		223		2		66.1			1		
513	515		23224		2		44.4			4 1/2		
519	521		23225		2		67.2			1		
521	522		23301		1		63.2			1		

Rotary Drill Geological Log

K-Fording 78/3/3-4

fording COAL LIMITED

RH 1157

Objective:

Sampled:

Logged By: R.K. **Date:** January /79

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		LAKE MOUNTAIN			

From Ft.	To Ft.	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
0	13		3.96	Overburden
13	38			Mudstone, siltstone bands.
38	39			Coal -
39	70			Mudstone
70	78			Siltstone
78	104			Mudstone
104	151			Mostly siltstone, mudstone bands, sandstone 136' - 141'
151	166			Sandstone
166	172			Mudstone
172	184	52.43	56.08	Coal with 2' shale band 175'-177' 12(10)' 3.66(3.05)m
184	190			Mudstone, siltstone at bottom.
190	197			Sandstone
197	234			Mudstone, siltstone interval 226-231'
234	236			Shaley coal 2'
236	256	1		Mudstone with siltstone bands.
256	259	78.03	78.94	Coal 3' 0.91m
259	291			Mudstone
291	319			Sandstone
319	330			Mudstone
330	339			Siltstone
339	343	103.33	104.55	Coal 4' 1.22m
343	350			Silty sandstone.

Hole No. RH 1157

322

Rotary Drill Geological Log

fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

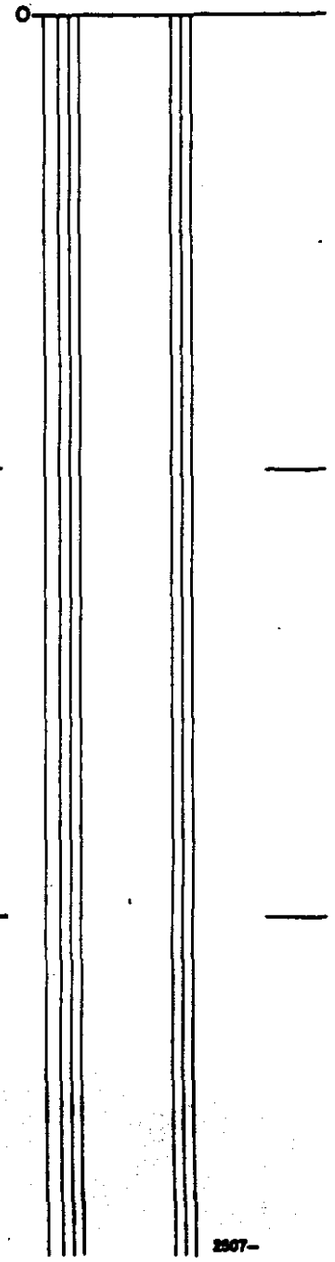
Logged By: Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From Ft.	To Ft.	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO
350	380			Mudstone
380	385			Silty sandstone
385	391.5			Mudstone
391.5	394.5	119.33	120.24	Coal 3' 0.91m
394.5	418			Mudstone with bands of siltstone.
418	425	127.41	129.54	Coal 7' 2.13m
425	454			Mudstone, bands of siltstone, coal stringers at 431'
454	482			Silty sandstone and siltstone.
482	488			Mudstone
488	510	148.74	155.45	Coal, 501-503' Coaly shale 22' 6.71m SEAM - H?
510	521			Mudstone
521	550		167.64	Siltstone, some sandstone.
				END OF HOLE
				MAY 17, 1978

Color Plot & Dips | Ore Classes & Aver.



Hole No. RH 1157

2907-

ROTARY DRILL DRILLER'S RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	V.M.	M.C.	FSI	S	REMARKS
38	40		23302		2		17.4			0		
40	42		23303		2		44.1			0		
173	175	C & SH.	23326		2		10.2			7 1/2		
176	178		23327		2		21.5			6		
178	180		23328		2		10.5			4 1/2		
180	182		23329		2		20.5			6		
173	182	COMPOSITE.		12,574	8/9'	0.7	15.4	30.6	53.3	6 1/2	0.57	PETROGRAPHIC ANALYSIS.
234	236		23330		2		28.0			6		
257	259		23331		2		30.0			5		
340	342	C & SH.	23332		2		39.7			3		
393	395	C & SH.	23333		2		63.4			1 1/2		
412	413	C & SH.	23334		1		58.8			2		
415	417		23335		2		74.3			0		
417	419		23336		2		30.6			5		
419	421		337		2		24.3			6		
421	423		338		2		11.7			7 1/2		
423	425		339		2		15.4			7 1/2		
425	427		23340		2		79.5			0		

ROTARY DRILL SAMPLING Record

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	H	A	VH	FC	FSI	S	REMARKS
427	429		23341		2		82·8			0		
429	431		342		2		47·5			2		
431	433	CRSH.	23343		2		69·1			1		
417	425	COMPO:		11,518	8'	0·6	20·9	28·4	50·1	7	0·93	
488	490		23344		2		13·5			6 1/2		
490	492		345		2		28·4			6.		
492	494		346		2		7·8			7 1/2		
494	496		347		2		8·9			7		
496	498		348		2		10·9			6 1/2		
498	500		349		2		28·6			6 1/2		
500	502		23350		2		63·7		/	1		
502	504		23351		2		36·3			6 1/2		
504	506		23352		2		23·3			7		
506	508		23353		2		22·2			5 1/2		
508	510		354		2		36·0			4 1/2		
510	511		23355		1		73·4			1/2.		
488	510	COMPOSITE		11,534	22'	0·6	~~47·6~~ 27·0	25·9	~~55·9~~ 46·5	6	0·43	PETROGRAPHIC ANALYSIS.

Rotary Drill Geological Log K-Fording 78(3)B-4

fording COAL LIMITED

RH-1158

Objective:				Sampled:			
Logged By: R.K.		Date: January /79		Composites:			
Block:		Sect.:	Place: LAKE MOUNTAIN	App. Bear:	App.: Dip.:	Length:	

From Ft.	To Ft.	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
0	7		2.13	Overburden
7	41			Sandstone, silty near top.
41	120			Mostly siltstone with interbedded mudstone, coal stringers at 43'
120	206			Mudstone, silty interval 147'-164'
206	210	62.79	64.01	Coal 4' 1.22m
210	222			Mudstone
222	294			Interbedded sandstone and mudstone
294	297	89.61	90.53	Coal 3' 0.91m
297	345			Siltstone, mudstone near top.
345	347	105.16	105.77	Coal 2' 0.61m
347	356			Mudstone
356	372			Sandstone
372	379.5			Mudstone
379.5	382.5	115.67	116.59	Coal 3' 0.91m
382.5	443.5			Mudstone with thin interbeds of siltstone
443.5	451.5	135.18	137.62	Poor coal (shaley near top and bottom) 8' 2.44m
451.5	470			Mudstone, silty 457-461'
470	477			Sandstone
477	510			Mudstone
510	512	155.45		Coal 2' 0.61m
512	550		167.64	Siltstone
				END OF HOLE
				MAY 18, 1978

Hole No. RH 1158 Page 1 of 1

322

2507-

ROTARY DRILL HOLE LOG

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
43	45		23356		2		19.5			4 1/2		
45	47		23357		2		50.7			2 1/2		
103	105		23358		2		44.4			4		
111	113		23359		2		67.3			1		
206	208		23360		2		37.0			4 1/2		
292	294		23361		2		30.4			4		
294	296		23362		2		35.8			5 1/2		
296	298	C & SH.	23363		2		73.4			1/2		
292	296	COMPOSITE.		9,663	4'	0.7	33.1	24.3	41.9	4	0.51	
344	346	C & SH	23364		2		42.1			1 1/2		
447	449		23365		2		42.6			2 1/2		
510	512		23366		2		80.7			0.		

Rotary Drill Geological Log K-FORDING 78(3)B-4

fording COAL LIMITED

RH 1159

Objective:

Sampled:

Logged By: R.K. Date: January /79

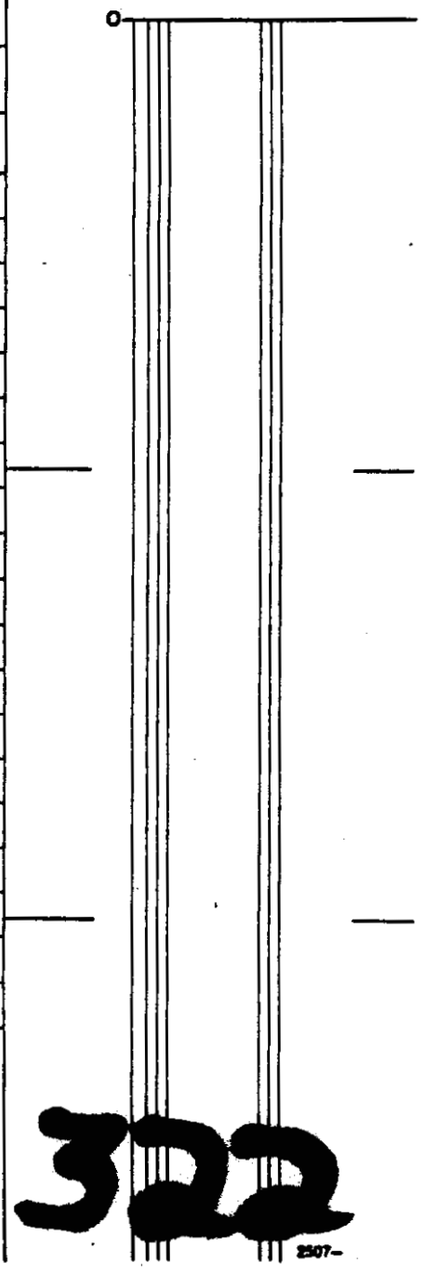
Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		LAKE MOUNTAIN			

From Ft.	To Ft	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☑ YES ☐ NO
0	6		1.83	Overburden
6	32			Sandstone, mudstone band near bottom.
32	34.5	9.75		Coal 2.5' 0.76m
34.5	92			Siltstone, sandy intervals, thin interbeds of mudstone. Lower half interval mostly mudstone.
92	100			Sandstone
100	111			Siltstone
111	112			Coal 1'
112	113			Mudstone
113	116	34.44	35.36	Coal 3' 0.91m
116	148			Mudstone, some siltstone
148	157.5			Sandstone
157.5	160.5	48.00	48.92	Coal 3' 0.91m
160.5	195			Mudstone near top, siltstone with bands of sandstone.
195	221			Mudstone
221	246			Siltstone, sandstone band at top.
246	290			Mostly mudstone, interbeds of siltstone.
290	293	88.39	89.31	Coal 3' 0.91m
293	296.5			Mudstone
296.5	297.5			Coal 1'
297.5	310			Mudstone band at top and sandstone.
310	331			Siltstone, 1' coal band at 315'
331	366			Sandstone, silty occasionally, mudstone 344-353'

Hole No. RH 1159 Page 1 of 2

322



Rotary Drill Geological Log

Fording COAL LIMITED

FORDING RIVER OPERATIONS

Objective:

Sampled:

Logged By: Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From Ft.	To Ft.	From m.	To m.	INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG ☐ YES ☐ NO
366	377	111.56	102.72	Coal with 2' shale at 368.5' 11(9)' 3.35(2.74)m
377	464			Mostly siltstone with bands of mudstone and sandstone. Coal stringers at 412' and 432'
464	486			Mudstone
486	506.5			Siltstone, sandstone bands.
506.5	508			Coal 1.5'
508	535		163.07	Siltstone, mudstone band at top.

END OF HOLE

MAY 21, 1978

Color Plot & Dips | Ore Classes & Aver.

0

Hole No. RH 1159

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ACTUAL B.T.U.	WIDTH	H	A	VH	FC	FSI	S	REMARKS
48	50		23367		2		12.2			4		
50	52	CR. SH.	23368		2		23.7			6½		
48	52	COMPO.		12,132	4	1.5	18.1	32.2	48.2	5	0.70	
126	128		23369		2		47.0			3		
128	130		370		2		26.0			6		
130	132		371		2		57.8			1		
132	134		372		2		77.3			0		
134	136		23373		2		77.3			0		
159	161		23374		2		50.6			2		
305	307		23304		2		45.2			5½		
307	309		23305		2		77.0			1		
386	388		23306		2		15.7			3		
388	390		307		2		16.5			7		
390	391		23308		1		21.3			7½		
386	391	COMPO.		12,322	5	1.1	17.6	28.4	52.9	5½	0.53	PETROGRAPHIC ANALYSIS.
437	439		23309		2		—			—		

Diamond Drill Geological Log

K. FOLDING 78(3)B-4

Cominco

KH 11-60

Objective:

Sampled:

Logged By: R.K. Date: JULY 17, 1978

Composites:

Block:	Sect.: 481,000 N.	Place: Greenhills South	App. Bear:	App.: Dip.:	Length: 334'

From	To	m	m	Reason: INTERSECTIONS TAKEN FROM RADIATION LOG
0	38	0	11.58	OVERBURDEN & CASING
38	44			SILTSTONE
44	62			MUDSTONE
62	112.5			INTERBEDDED SILTSTONE AND MUDSTONE
112.5	135.5	34.29	41.30	COAL WITH 2'/0.61 M PARTING AT 122.5/37.34M 23(21)' /7.01 (6.40) M SEAM-H
135.5	143.5			SANDY SILTSTONE
143.5	146	43.74	44.50	COAL 2.5'/0.76 M
146	193			SILTSTONE
193	243			SANDSTONE
243	256			SILTSTONE WITH SOME MUDSTONE
256	260.5			MUDSTONE
260.5	268.5	79.40	81.84	COAL WITH THIN COALY SHALE BAND 8'/2.44M SEAM G ?
268.5	270			MUDSTONE
270	271			SHALEY COAL
271	294.5			MUDSTONE
294.5	296.5			COAL 2'
296.5	300.5			MUDSTONE
300.5	307	91.59	93.57	COAL WITH 1' SHALE BAND AT 305' 6.5 (5.5)'/1.98 (1.68) M
307	330			MUDSTONE
330	334			SILTSTONE OR SANDSTONE
				T.D. 334'/101.8M JULY 1, 1978

Core Size

Hole No. RH 1160 Page 1 OF 1

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
113	115		24 483		2		10·7			7		
115	117		484		2		7·7			6 1/2		
117	119		485		2		18·6			4		
119	121		486		2		41·5			4		
121	123		487		2		48·5			2		
123	125		488		2		59·5			1		
125	127		489		2		17·5			7 1/2		
127	129		490		2		19·4			8		
129	131		491		2		9·7			8		
131	133		492		2		7·2			8		
133	135		493		2		24·3			7		
135	137		24 494		2		62·3			1		
113	135	SEAM - G. COMPO			22	0·4	23·8	22·9	52·9	6	0·67	
144	146		24495		2		40·7			2 1/2		
261	263		24496		2		36·4			4 1/2		
263	265		24497		2		24·3			6		
261	265	SEAM - FM 3. COMPO			4	0·2	30·0	22·6	47·2	5	0·68	
268	270		24498		2		54·4			3 1/2		
270	272		24499		2		58·3			2 1/2		
284	286		24500		2		71·3			2 1/2		
294	296		24408		2		41·0			3		
296	298	C & SH.	24409		2		70·5			1		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
299	301		24401		2							
301	303		402		2							
303	305		403		2							
305	307		404		2							
307	309		405		2							
309	311		24406		2							
319	320		24410		1							

Diamond Drill Geological Log

K-FOLDING 78(3)6-4

RH-1161

Cominco

Objective:		Sampled:	
Logged By: R.K.	Date: July/78	Composites:	

Block:	Sect.: 481,250 N	Place: GREENHILLS SOUTH	App. Bear:	App.: Dip.:	Length:

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY NEUTRON LOG

From	To	m	m	
0	33	0	10.06	Overburden and casing.
33	41			Sandstone and siltstone.
41	133			Mostly siltstone, silty mudstone near bottom, sandstone 50-54'.
133	165	40.54	50.29	Coal with 1', 0.3 M shale parting at 153'
				32(31)' 9.75(9.45) M. SEAM-H
165	170.5			Mudstone
170.5	172.5			Coal 2'
172.5	243			Siltstone with sandy intervals.
243	266			Sandstone, some siltstone, coal stringers at 244'.
266	277			Siltstone, bands of mudstone.
277	284			Sandstone.
284	299			Siltstone, mudstone near bottom.

TD 299'/91.14 m

Core Size

Hole No. RH 1161

Page 1

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
135	137		24411		2		9.8			7		
137	139		412		2		10.6			6 1/2		
139	141		413		2		13.6			6 1/2		
141	143		414		2		22.7			6 1/2		
143	145		415		2		6.2			7 1/2		
145	147		416		2		7.8			6 1/2		
147	149		417		2		6.0			6 1/2		
149	151		418		2		6.8			7 1/2		
151	153		419		2		14.3			7		
153	155		420		2		60.1			1		
155	157		421		2		26.5			5 1/2		
157	159		422		2		24.1			7		
159	161		423		2		15.8			7 1/2		
161	163		424		2		5.8			7		
163	165		24425		2		16.8			6		
165	167		24451		2		39.8			5 1/2		
135	167	SEAM G. COMPO.			32	0.2	17.6	25.3	56.9	6 1/2	0.62	
172	173		24452		2		33.8			3 1/2		
305	307	C & SH.	26029		2		35.7			6		
307	309	C & SH	26030		2		33.8			6		
305	309	COMPO.			4	0.1	35.2	22.5	42.2	5 1/2	0.53	
311	313	C & SH	26031		2		56.7			3		
315	317	C & SH.	26032		2		58.4			2 1/2		
317	319	" "	26033		2		56.4			3		
319	321	" "	26034		2		62.5			1		

Diamond Drill Geological Log

K-FREDERICK 78(3)B-4

Cominco

KH-1162

Objective:

Sampled:

Logged By: R.K. Date: JULY 17, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	481,500 N	GREENHILLS SOUTH			299'

From	To	Discard:		Reason: INTERSECTIONS TAKEN FROM GAMMA RAY NEUTRON LOG
0	53	0	16.15	OVERBURDEN AND CASING
53	70			MUDSTONE
70	79'	21.34	24.08	COAL. 9'/2.74 M SEAM I
79	184			MUDSTONE WITH SILTY INTERVALS
184	240			SANDSTONE, SOME SILTSTONE NEAR BOTTOM
240	245			MUDSTONE
245	275	74.68	83.82	COAL 30'/9.14 M SEAM H
275	280			MUDSTONE
280	299			SILTSTONE
				T.D. 299'/91.14 M JULY 2, 1978

Core Size

Hole No. RH 1162

Page 1 of 1

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

322

Diamond Drill Geological Log

RH-1163

K-FAULTING 78(3)B-7

Cominco

Objective:		Sampled:	
Logged By: R.K.	Date: July/78	Composites:	

Block:	Sect.: 401,750 N	Place: GREENHILLS SOUTH	App. Bear:	App.: Dip.:	Length:

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG

From	To	Discard: m	m	
0	24	0	7.31	Overburden and casing.
24	94			Siltstone with silty sandstone intervals.
94	106.5			Mudstone
106.5	141.5	32.46	43.13	Coal with 2'/0.61 M. mudstone at 133.5/40.69 M 35(33)' 10.67(10.06) M. SEAM - H
141.5	148			Mudstone
148	244			Siltstone with occasional mudstone bands.
244	266			Sandstone.
266	274			Siltstone.
274	279			Sandstone.
279	299			Siltstone. Mudstone 281' - 285'.
				T.D. 299'/91.14 M. JULY 3/78

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

Core Size

Hole No. RH 1163

Page 1 of 1

322

2507-

Diamond Drill Geological Log

Cominco

Objective:				Sampled:			
Logged By: R.K.		Date: JULY 17, 1978		Composites:			
Block:		Sect.: 481,750 N.		Place: Greenhills South	App. Bear:	App.: Dip.:	Length:

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	24	0	7.31	OVERBURDEN AND CASING
24	94			SILTSTONE WITH SILTY SANDSTONE INTERVALS
94	106.5			MUDSTONE
106.5	141.5	32.46	43.13	COAL WITH 2'/0.61 M MUDSTONE AT 133.5'/40.69 M 35 (33)' 10.67 (10.06) M SEAM H
141.5	148			MUDSTONE
148	244			SILTSTONE WITH OCCASIONAL MUDSTONE BANDS
244	266			SANDSTONE
266	274			SILTSTONE
274	279			SANDSTONE
279	299			SILTSTONE. MUDSTONE 281'-285'
				T.D. 299'/91.14M JULY 3, 1978

40 Scale

Color Plot & Dips | Ore Classes & Aver

0

Core Size

Hole No. RH 1163 Page 1 OF 1

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
107	109		24471		2		14.0			7		
109	111		24472		2		42.1			3		
111	113		473		2		31.4			4 1/2		
113	115		24474		2		26.4			5		
115	117		24475		2		20.4			5		
117	119		25451		2		16.1			6 1/2		
119	121		25452		2		24.0			4 1/2		
121	123		453		2		9.0			7 1/2		
123	125		454		2		7.4			7		
125	127	SEAM - G.	455		2		8.0			7		
127	129		456		2		9.6			7		
129	131		457		2		21.6			7		
131	133		25458		2		42.7			4 1/2		
133	135		25459		2		74.0			1		
107	133	COMPO.			26.	0.5	20.7	24.7	54.1	6	0.51	
136	138		25460		2		36.8			3		
138	140		25461		2		32.2			3 1/2		
107	140	COMPO.			32/33 G.	0.5	26.2	23.1	50.2	5 1/2	0.57	

Diamond Drill Geological Log

K-FORDING 78(3)R4

Cominco

RH-1164

Objective:

Sampled:

Logged By: R.K. Date: JULY 17, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills South			

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	40	0	12.19	CLAY, GRAVEL AND BOULDERS(DRILLER CASING 40')
28	32	8.53	9.75	COAL ? 4'/1.22 M
40	81.0			MOSTLY MUDSTONE WITH BANDS OF SILTSTONE
81	121.5			MOSTLY SILTSTONE SOME MUDSTONE
121.5	125	37.03	38.01	COAL 3.5'/1.07M
125	127.5			2.5' MUDSTONE
127.5	136	38.86	41.45	COAL 8.5'/2.59 M SEAM -
136	136			2' MUDSTONE
138	148	42.06	45.11	COAL 10'/3.05 M
148	153			MUDSTONE
153	154			COAL 1'
154	174			MUDSTONE AND SILTSTONE
174	240			INTERBEDDED SILTSTONE AND SANDSTONE
240	258			SILTSTONE AND MUDSTONE
258	262	78.64	79.86	COAL 4'/1.22 M
262	268			SANDSTONE, SILTSTONE NEAR TOP
268	319			INTERBEDDED MUDSTONE AND SILTSTONE
319	327			SANDSTONE
327	367			INTERBEDDED MUDSTONE AND SILTSTONE
367	373			SILTY SANDSTONE
373	401			SILTSTONE
				T.D. 401'/122.22 M JULY 5, 1978

Core Size

Hole No. RH 1164 Page 1 OF 1

Color Plot & Dips | Ore Classes & Aver.

0

322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
127	129		25413		2		20.5			5 1/2		
129	131		414		2		13.0			6 1/2		
131	133		415		2		10.1			5 1/2		
133	135		416		2		6.2			7		
135	137		417		2		19.6			5 1/2		
137	139		418		2		SAMPLE	LOST.				
139	141		419		2		22.3			7		
141	143		420		2			"	"			
143	145		421		2			"	"			
145	147		422		2		21.0			7 1/2		
147	149		423		2		40.0			4		
147	151		25424		2		58.6			1 1/2		
127	149	SEAM - G. COMPO.			16 22	0.5	18.5	24.8	55.8	6	0.62	
257	259		25425		2		SAMPLE		LOST.			
259	261		25426		2			"		"		
270	272		25428		2		55.1			3		
300	301		25429		1		68.8			1		
330	332		25430		2		63.5			1 1/2		

Diamond Drill Geological Log

K- FORDING 78(3)B-4

Cominco

RH 1165

Objective:

Sampled:

Logged By: R.K.

Date: October/78

Composites:

40 Scale

Color Plot & Dips

Ore Classes & Aver.

Block:

Sect.: 482,000 N

Place: GREENHILLS S.

App. Bear:

App.: Dip.:

Length:

Reason:

From	To	Discard: m	m	INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	36	0	10.97	Overburden and casing
36	38.5			Mudstone
38.5	58.5	11.73	17.83	Coal 20' 6.10m SEAM - H
58.5	70			Mudstone
70	75	21.34	22.86	Coal 5' 1.52m SEAM - HL
75	80			Mudstone
80	124			Silty sandstone and siltstone, several bands of mudstone.
124	130			Sandstone
130	182			Silty sandstone near top, grading progressively to mudstone near bottom.
182	206	55.47	62.79	Coal with two 1.5' shale bands at 187' and 195' 24(21)' 7.32(6.40)m SEAM - G
206	210			Mudstone
210	212	64.01		Coal 2' 0.61m
212	232			Shaley siltstone, mudstone near top
232	282			Siltstone, silty sandstone 242-254'
282	293			Sandstone
293	305		92.96	Siltstone, mudstone near bottom

END OF HOLE

JULY 18, 1978

Core Size

Hole No. RH 1165

Page 1 of 1

322

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
41	43		25462		2		20.3			7 1/2		
43	45		25463		2		10.9			7 1/2		
45	47		464		2		20.8			7		
47	49		465		2		10.6			8		
49	51		466		2		19.8			7		
51	53		467		2		16.8			6 1/2		
53	55		468		2		15.7			7 1/2		
55	57		469		2		16.8			7		
57	59		470		2		53.4			1 1/2		
59	61		471		2		67.5			1		
61	63	C & SH	25472		2		80.0			0		
41	57	~~SEAM~~ - H COMPO.		12,391	16	0.3	16.5	26.6	56.2	7 1/2	0.43	
70	72		25473		2		23.0			7		
72	74		25474		2		MISSING.					
179	181		25251		2		19.0			7 1/2		
181	183		25252		2		17.3			7 1/2		
186	188		25253		2		22.6			5 1/2		
188	190		254		2		22.7			5 1/2		
190	192		255		2		MISSING.					
192	194		256		2		19.0			7		
194	196		257		2		57.8			2		
196	198		258		2		27.2			7		
198	200		259		2		39.1			5		
200	202		260		2		12.6			7 1/2		
202	204		261		2		7.8			8		
204	206		262		2		48.0			4 1/2		
206	209		25264		3		78.9			1/2		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
211	213		25265		2		41.0			2 1/2		
186	204	SEAM - G. COMPO		11,184	16/18'	0.2	25.8	24.4	49.6	6	0.64	

Diamond Drill Geological Log

RH-1166

K-FORDING 78(3)B-4

Cominco

40 Scale

Color Plot & Dips | Ore Classes & Aver.

Objective:

Sampled:

Logged By: R.K. Date: October/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	479,000 N.	GREENHILLS S.			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG

From	To	Discard:		
0	36	0	10.97	Casing and overburden
36	50			Mudstone
50	53.5	15.24	16.31	Coal 3.5' 1.07m
53.5	82			Mudstone and shaley siltstone
82	98			Silty sandstone and siltstone
98	113.5			Mudstone, bands of siltstone
113.5	125.5	34.59	38.25	Coal 12' 3.66m SEAM -
125.5	162			Mudstone
162	164	49.38		Coal 2' 0.61m
164	180			Mudstone, siltstone near bottom
180	214			Silty sandstone
214	229			Mudstone and siltstone
229	251			Siltstone
251	345			Sandstone with siltstone intervals 276-288' and 311-329'
345	351.5	105.16	107.14	Coal 6.5' 1.98m SEAM -
351.5	363			Mudstone
363	406			Mostly siltstone, some mudstone
406	429	123.75	130.76	Coal with 2' shale 410-412' 23(21)' 7.01(6.40)m SEAM -
429	455			Siltstone, sandstone bands
455	460.5	138.68	140.36	Coal 5.5' SEAM -
460.5	479		146.00	Mudstone
				END OF HOLE
				AUGUST 9, 1978

Core Size

Hole No. RH 1166

Page 1 of 1

322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT. U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
48	50		25499		2		19.9			2		
50	52		25500		2		39.0			1		
52	53		23446		1		77.1			0		
113	115		23447		2		62.7			0		
115	117		23448		2		71.6			0		
117	114		23449		2		21.1			7		
114	121		23450		2		19.0			4		
121	123		23439		2		NO	SAMPLE.				
123	125		23440		2		31.3			5		
125	127		23441		2		80.8			0		
127	128	E&S	23442		1		74.6			0		
					1							
117	125	COMPO.			6/8	0.2	23.7	20.8	55.3	5 1/2	0.51	
347	349		23443		2		48.2			1		
349	351		23444		2		51.0			1		
351	353		23445		2		64.1			1		
409	411		23464		2		42.6			1		
411	413		23465		2		52.1			1		
413	415		23466		2		57.2			1		
415	417		23467		2		65.9			1		
417	419		23468		2		67.2			1		
419	421		23469		2		64.6			1		
421	423		23470		2		65.1			1		
423	425		23471		2		62.9			1		
425	427		23472		2		17.8			1 1/2		
427	429		23473		2		15.3			1 1/2		
429	431		25474		2		27.1			1 1/2		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
425	431	COMPO			6'	0·1	20·6	19·0	60·3	1 1/2	0·37	
455	457		22870		2		28·4			1		
457	459		871		2		14·3			1		
459	461		22872		2		50·5			1		
455	459	compo			4'	0·1	21·2	19·3	59·4	1	0·43	

RH-1167A

Diamond Drill Geological Log

K - FORDING 78(5)B-4

Cominco

Objective:

Sampled:

Logged By: R.K. **Date:** October/78

Composites:

Block:	Sect.: 481,000 N.	Place: GREENHILLS S.	App. Bear:	App.: Dip.:	Length:

From	To	Discard:		Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	9	0	2.74	Overburden (casing 14')
9	17			Mudstone
17	31	5.18	9.45	Coal 14' 4.27m SEAM -
31	55.5			Mudstone
55.5	84.5	16.92	25.76	Coal with 3' mudstone 59.5-62.5' 29(26)' 8.84(7.92)m SEAM -
84.5	95			Mudstone
95	112			Siltstone
112	117.5			Mudstone
117.5	126.5	35.81	38.56	Coal 9' 2.74m SEAM -
126.5	142			Mudstone and possible cave in/gouge zone
142	163			Siltstone
163	220			Mostly sandstone with interbeds of siltstone
220	236			Siltstone, some mudstone
236	277			Sandstone
277	295			Mudstone
295	297	89.92		Coal 2' 0.61m SEAM - B HORIZON
297	324			Mudstone and siltstone near bottom
324	326	98.76		Coal 2' 0.61m
326	359			Mudstone grading to siltstone and sandstone towards bottom.
359	404	109.42	123.14	Coal, with 2' mudstone 398.5-400.5' 45(43)' 13.72(13.11)m SEAM - B
404	438		133.50	Interbeds of mudstone and siltstone, 1' coal band at 417.5'.
				END OF HOLE JULY 31, 1978

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

Core Size

Hole No. RH 1167A

Page 1 of 1

322

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
17	19		24190		2		22.8 ✓			7 ✓		
19	21		24191		2		7.3 ✓			6 1/2 ✓		
21	23		24192		2		19.6			1 1/2		CHECKED.
23	25		24193		2		15.4			1		
25	27		24194		2		13.5 ✓			1/2 ✓		
27	29		24195		2		11.1 ✓			0 ✓		
29	31		24196		2		68.8			1		
31	33	CES	24197		2		72.1			1/2		
17	29	✓ COMPO		11,400	12'	0.9	15.5	22.9	60.7	2 1/2	0.54	
57	59		24198		2		23.1			2		
59	61		24199		2		63.8			1		
61	63		24200		2		55.4			1 1/2		
63	65		23501		2		22.9			1 1/2		
65	67		23502		2		21.5			1		
67	69		23503		2		21.2			1		
69	71		23504		2		18.6			3		
71	73		23505		2		10.5			2		
73	75		23506		2		11.8			4 1/2		
75	77		23507		2		15.7			1		
77	79		23508		2		23.7			3 1/2		
79	81		23509		2		50.4			1		
81	83		23510		2		55.6			1/2		
83	85		23511		2		77.4			0		
63	79	✓ COMPO.		12,657	16'	0.3	18.7	18.6	62.4	2	0.42	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
295	297		~~23512~~		2		54.1			1		
297	299		23513		2		32.4			0		
299	301		23514		2		75.3			0		
301	303		23515		2		86.1			0		
360	362		23516		2		51.6			1		
362	364		23517		2		50.9			1		
364	366		23518		2		47.9			1		
366	368		23519		2		49.5			1		
368	370		23520		2		56.0			1		
370	372		23521		2		61.4			1		
372	374		23522		2		NO	SAMPLE.				
374	376		23523		2		41.3			2		
376	378		23524		2		29.8			2 1/2		
378	380		23525		2		15.4			5 1/2		
380	382		23676		2		27.3			3 1/2		
382	384		677		2		38.7			2 1/2		
384	386		678		2		43.2			2		
386	388		679		2		17.6			7		
388	390		680		2		26.5			5 1/2		
390	392		681		2		17.1			3		
392	394		682		2		23.2			6		
394	396		683		2		NO	SAMPLE.				
396	398		684		2		32.8			5		
398	400		23685		2		NO	SAMPLE				
400	402		23686		2		44.8			2		
376	398	Comp.			20/22'	0.3	27.4	18.5	53.8	4 1/2	0.28	

Diamond Drill Geological Log

Cominco

KH-1168

K - Fording 78(3)5-4

Objective:

Sampled:

Logged By: R.K. Date: October/78

Composites:

Color Plot & Dips | Ore Classes & Aver.

Block:	Sect.: 479,500 N	Place: GREENHILLS S.	App. Bear:	App.: Dip.:	Length:

From	To	Discard:		Reason: INTERSECTIONS TAKEN FROM GAMMA RAY - NEUTRON LOG
0	57			Overburden
57	75		22.86	Overburden? (Driller reported clay and gravel to 75')
75	107			Sandy siltstone
107	144			Mudstone
144	202			Sandstone
202	284			Cherty sandstone or very compact siltstone. One rock unit,without much variation in rock type, medium hard drilling (Driller called it limestone - rotary chip cuttings did not give indication of this rock being limestone).
284	289			Siltstone?
289	320			Cherty sandstone, some siltstone, hard drilling, bluish grey cuttings.
320	324			Shaley siltstone.
324	332		101.19	Cherty siltstone or sandstone. (Driller reported as blue quartz). 144'-332' Most likely Spray River formation. GM-NT gives the indication of very coarse grained sandstone, but in rotary chip cuttings coarse grained structure was not observed. Rock unit is similar to that of RH 1102.
				END OF HOLE
				JULY 27, 1978

Core Size

Hole No. RH 1168

Page 1 of 1

0

332

2567-

Diamond Drill Geological Log

RH-1169

1K - Forebay 78(3)B-4

Cominco

Objective:

Sampled:

Logged By: R.K. Date: October/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	479,750 N	GREENHILLS S.			

Color Plot & Dips | Ore Classes & Aver.

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	48	0	14.63	Overburden (casing 50')
48?	60.5?	14.63?	18.44?	Probably coal seam 12.5' (Drilled called gravel and shale to 64') SEAM - EU ZONE
60.5	64		19.51	Mudstone? (Driller: Gravel)
64	100			Sandstone with thin bands of siltstone
100	110			Mudstone, 1' coal band at 105'
110	156			Mostly siltstone, silty sandstone near top
156	166	47.55	50.60	Coal 10' 3.05m SEAM - EL
166	228			Mudstone with silty intervals.
228	269			Siltstone, silty mudstone in lower half interval.
269	285.5	81.99	87.02	Coal with 1.5' shale at 278.5' 16.5(15)' 5.03(4.57) m SEAM - D
285.5	291.5			6' Mudstone
291.5	299	88.05	91.14	Coal 7.5' 2.29m
299	348.5			Interbedded mudstone and siltstone
348.5	355.5	106.22	108.36	Coal 7' 2.13m SEAM - DL
355.5	387			Mudstone with bands of siltstone
387	404			Siltstone grading to sandstone towards bottom. PEAR S.S.
404	419		127.71	Sandstone

END OF HOLE

AUGUST 6, 1978

Core Size

Hole No. RH 1169

Page 1 of 1

320

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
107	109		22922		2		21.6			8 1/2		
109	111		22923		2		70.8			1		
157	159		22924		2		64.1			1		
159	161		22925		2		19.8			2		
161	163		24608		2		22.8			2 1/2		
163	165		24609		2		14.2			6		
165	167		24610		2		14.4			7 1/2		
167	169		24611		2		23.5			7		
169	171		24612		2		21.1			6 1/2		
171	173		24613		2		42.7			5		
159	171	COMPOSITE			12'	0.5	21.3	20.1	58.1	5	0.53	
221	223	C & S	24614		2		75.7			0.		
271	273		24615		2		45.8			1		
273	275		24616		2		28.9			4.		
275	277		24617		2		59.5			1		
277	279		24618		2		61.9			1		
279	281		24619		2		59.2			1		
281	283		24620		2		78.0			1/2		
283	285		24621		2		48.4			1		
285	287		24622		2		35.8			4		
287	288	C & S	24623		1		42.6			1		
295	297		24624		2		24.5			1		
297	299		24625		2		18.2			1		
295	299	COMPOSITE			4'	0.5	21.5	19.0	59.0	1	0.21.	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
349	351		25495				43.2			1		
351	353		25496				59.2			1 1/2		
353	355		25497				37.5			1		
355	357		25498				63.7			1		

Diamond Drill Geological Log

K-FORDING 78(3)B-4

RH-1170

Cominco

Objective:

Sampled:

Logged By: R.K. Date: October/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	480,250 N.	GREENHILLS S.			

Color Plot & Dips | Ore Classes & Aver.

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	18	0	5.49	Overburden (gravel and clay) and casing
18	69			Mostly sandy siltstone, mudstone bands
69	89			Mudstone
89	136			Siltstone
136	156.5			Mudstone, some siltstone
156.5	167.5	47.70	51.05	Coal 11' 3.35m SEAM - EU
167.5	183			Mudstone
183	199			Siltstone
199	215			Mudstone
215	230			Siltstone
230	252			Interbedded mudstone and siltstone
252	286	76.81	87.17	Coal with 3' mudstone 263-266' 34(31)' 10.36(9.45)m SEAM - EL
286	319			Siltstone with sandstone interval
319	336	97.23	102.41	Coal 17' 5.18m SEAM - D
336	354			Mudstone with a band of siltstone
354	359	107.90	109.42	Coal 5' 1.52m SEAM - DL
359	380			Mudstone
380	391			Siltstone
391	425			Mudstone
425	445			Siltstone
445	527			Sandstone
527	591			Siltstone, sandy and some sandstone
591	618		188.37	Sandstone.

END OF HOLE AUGUST 5, 1978

Core Size

Hole No. RH 1170

Page 1 of 1

322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
154	156		24158		2.		33.3			1		
156	158		24159		2		43.3			1		
158	160		24160		2.		27.8			4		
160	162		24161		2.		15.7			7 1/2		
162	164		24162		2.		21.3			7 1/2		
164	166		24163		2.		46.9			5		
166	167		24164		1		49.4			1/2		
154	164	COMPO.			10'	0.6	28.0	19.6	51.8	5	0.45	
170	172		24165		2.		76.8			1/2		
251	253		24166		2		32.2			1 1/2		
253	255		24167		2		32.1			1 1/2		
255	257		24168		2.		11.7			7 1/2		
257	258		24169		1		67.2			1/2		
251	257	COMPO.			6'	0.6	25.5	19.5	54.4	3 1/2	0.48	
259	261		24170		2		53.2			1		
261	263		24171		2		67.4			1/2		
263	265		24172		2		17.4			4		
265	267		24173		2		11.8			7		
267	269		24174		2		12.9			4 1/2		
269	271		24175		2.		27.5			1		
271	273		24176		2		16.8			1		
273	275		24177		2		30.1			1		
275	277		24178		2.		19.0			2		
277	279		24179		2.		8			2 1/2		
263	279	COMPO.			16'	0.7	19.0	19.4	60.5	2 1/2	0.45	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
317	319		24186		2		52.0			1		
319	321		24181		2		28.6			1		
321	323		24182		2		19.7			1		
323	325		24183		2		10.7			3 1/2		
325	327		24184		2		12.6			8 1/2		
327	329		24185		2		15.7			7		
329	331		24186		2		12.5			3		
319	331	COMPO.			12	0.6	16.8	21.1	61.5	6	0.55	
354	356		24187		2		24.2			1		
356	358		24188		2		22.2			1/2		
		P. Apps FSI	24187		2	0.7	24.4	17.7	57.2	1	0.53	
369	371		24189		2		50.6			0		

Diamond Drill Geological Log

K-FORDING 78(3)B-4

RH-1171

Cominco

Objective:

Sampled:

Logged By: R.K. Date: October/78

Composites:

Color Plot & Dips | Ore Classes & Aver.

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	480,000	GREENHILLS S.			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG

From	To	Discard: m	m	
0	19	0	5.79	Overburden
19	28		8.53	Siltstone? Overburden (Driller: Gravel)
28	32			Mudstone
32	70	9.75	21.34	Coal 38' 11.58m SEAM - EL
70	109.5			Mudstone
109.5	141	33.78	43.00	Coal with 3' and 4' mudstone at 114.5' and 129.5' 31.5(24.5)' 9.60(7.47)m SEAM - D
141	162			Mudstone, some shaley siltstone
162	224			Siltstone
224	255			Mudstone
255	340			Sandstone with several interbeds of siltstone, comparatively fast penetration/Drilling rate (Driller: Soft Sandstone)
340	459		139.90	Sandstone, 370'-405' Siltstone. Medium penetration/Drilling rate (Driller: Soft Sandstone)

END OF HOLE

JULY 17, 1978

Core Size

Hole No. RH 1171

Page 1 of 1

322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
32	34		25266		2		22.5			1		
34	36		252 67		2		26.3			3		
36	38		252 68		2		11.3			4 1/2		
38	40		252 69		2		11.3			1		
40	42		252 70		2		9.7			1		
42	44		252 71		2		12.9			1 1/2		
44	46		252 72		2		17.8			1 1/2		
46	48		252 73		2		13.1			1 1/2		
48	50		252 74		2		18.5			1		
50	52		25275		2		11.5			1		
52	54		24326		2		9.1			1 1/2		
54	56		243 27		2		16.8			3		
56	58		243 28		2		34.3			1		
58	60		243 29		2		24.8			1		
60	62		243 30		2		13.0			1		
62	64		243 31		2		17.8			1		
64	66		243 32		2		11.9			1		
66	68		243 33		2		14.7			3		
68	70		243 34		2		8.3			1 1/2		
70	71		24335		1		48.5			1 1/2		
32	70	COMPOSITE			38	0.6	16.3	19.3	63.8	1 1/2	0.55	
111	113		24336		2		16.3			1		
113	115		243 37		2		31.2			1		
115	117		243 38		2		65.3			1 1/2		
117	119		243 39		2		71.6			0		
119	121		243 40		2		28.8			1		
121	123		243 41		2		12.8			1		
123	125		243 42		2		12.1			1		
125	127		243 43		2		18.6			1		
127	129		243 44		2		17.4			2 1/2		
129	131		24345		2		49.3			1		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
134	136		24346		2		20.3			1		
136	138		24347		2		16.7			1		
138	140		24348		2		14.0			1		
142	142		24349		2		16.7			1		
111	115	COMPO.			4	0.4	23.5	18.2	57.9	1	0.46	
119	129	COMPO.			10'	0.6	17.7	19.1	62.6	1	0.70	
134	142	COMPO.			8'	0.4	17.1	19.9	62.6	1	0.43	

Diamond Drill Geological Log

Cominco

RH 1172

K- Fording 78(3)B-4

Objective:

Sampled:

Logged By: R.K. Date: November/78

Composites:

Block:	Sect.: 481,000 N.	Place: GREENHILLS S.	App. Bear:	App.: Dip.:	Length:

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	25			Broken/shattered rock.
25	37			Siltstone
37	44			Mudstone
44	78	13.41	23.77	Coal with 3' mudstone at 65' 34(31)' 10.36(9.45)m SEAM - E
78	84			Mudstone
84	142.5			Siltstone, mudstone near bottom.
142.5	146	43.43	44.50	Coal 4.5' 1.37m
145	161			Mudstone
161	189			Shaley siltstone
189	208			Mudstone
208	236	63.40	71.93	Coal 28' 8.53m SEAM - D
236	278			Mudstone with interbeds of siltstone
278	297	84.73	90.53	Coal 19' 5.79m SEAM - DL
297	335			Mudstone
335	381			Siltstone, grading to sandstone towards bottom } PEAR S.S.
381	419			Sandstone }
419	428			Mudstone
428	468	130.45	142.65	Coal 40' 12.19m SEAM - B
468	476			Mudstone
476	483			Siltstone
483	494			Silty sandstone
494	499		152.10	Siltstone

END OF HOLE
July 19, 1978

Color Plot & Dips | Ore Classes & Aver.

Core Size

Hole No. RH 1172

Page 1 of 1

322

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
210	212		24308		2		—			—		
212	214		24309		2		29.2			5 1/2		
214	216		24310		2		57.6			1		
216	218		24311		2		44.6			2		
218	220		24312		2		65.5			1		
220	222		24313		2		19.1			4 1/2		
222	224		24314		2		24.6			2		
224	226		24315		2							
226	228		24316		2							
228	230		24317		2		22.6			6		
230	232		24318		2		17.4			1		
232	234		24319		2		13.7			1		
234	236		24320		2		—			—		
236	238		24321		2		76.0			0		
238	240		24322		2							
212	234	SEAM-D COMPO.			18/22	0.2	32.2	18.6	49.0	2 1/2	0.33	SAMPLES LOST
279	281		24323		2		35.1			1 1/2		
281	283		24324		2		48.1			1 1/2		
283	285		24325		2		19.4			1		
285	287		24226		2		—			—		
287	289		24227		2		22.6			6		
289	291		24228		2		14.7			7		
291	293		24229		2		12.4			5		
293	295		24230		2		—			—		
295	297		24231		2		—			—		
297	299		24232		2		14.5			2		
299	301	CBS	24233		2		31.9			2 1/2		
301	303	CBS	24234		2		—			—		
283	301	COMPO.			12/18	0.2	19.7	20.7	59.4	4	0.45	SAMPLES LOST

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
432	434		24235		2		50.7			1		
434	436		24236		2		27.7			6 1/2		
436	438		24237		2		25.1			6 1/2		
438	440		24238		2		—			—		
440	442		24239		2		47.8			1		
442	444		24240		2		—			—		
444	446		24241		2		8.7			5		
446	448		24242		2		14.6			6 1/2		
448	450		24243		2		—			—		
450	452		24244		2		12.0			7		
452	454		24245		2		19.6			5 1/2		
454	456		24246		2		17.7			6		
456	458		24247		2		17.2			6 1/2		
460	462		24248		2		29.8			3 1/2		
462	464		24249		2		22.9			4 1/2		
464	466		24250		2		45.6			1		
466	468		24251		2		—			—		
468	470		24252		2		—			—		
470	472		24253		2		—			—		
472	474		24254		2		—			—		
472	474		24255		2		—			—		
			24256									
434	462	SEAM — B.			22/28	0.2	21.8	19.1	58.9	5	0.35	SAMPLES LOST.

Diamond Drill Geological Log

RH 1173

K-FOLDING 78(3)B-4

Objective:

Sampled:

Logged By: R.K. Date: November/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	481,250 N	GREENHILLS S.			

Color Plot & Dips | Ore Classes & Aver.

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	6.5			Broken/shattered rock.
6.5	12	1.98	3.66	Coal 5.5' 1.68m
12	62			Mudstone
62	91			Siltstone
91	105			Sandstone
105	136.5			Mostly mudstone, with interbeds of siltstone, mudstone near bottom.
136.5	153.5	41.61	46.79	Coal 17' 5.18m SEAM - EL
153.5	160			Highly carbonaceous mudstone
160	202			Siltstone, mudstone near top
202	217			Mudstone
217	271	66.14	82.60	Coal 54' 16.46m faulted SEAM - D
271	280			Mudstone
280	298			Siltstone, 3' sandstone band near top
298	313			Mudstone
313	315	95.40		Coal 2' 0.61m Part SEAM-DL
315	319			Mudstone
319	349			Siltstone grading progressively to sandstone near bottom
349	407			Sandstone PEAR S.S.
407	419			Siltstone and sandstone
419	437			Mudstone, siltstone near bottom
437	473			Sandstone
473	480			Mudstone
480	499	146.30	152.10	Coal 19' 5.79m SEAM - B
499	519		158.19	Siltstone, mudstone near top END OF HOLE JULY 20, 1978

Core Size

Hole No. RH 1173

Page 1 of 1

322

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
7	9				2							
9	11				2							
11	12				1							
29	31	CES	24217		2		73.2			0		
31	33	CES	24218		2		79.0			0		
33	35	CES	24219		2		79.7			0		
40	42	CES	24220		2		61.8			1		
42	44	CES	24221		2		51.2			1 1/2		
44	46	CES	24222		2		60.2			1		
137	139	CES	24223		2		33.0			2		
139	141		24224		2		17.1			5 1/2		
141	143		24225		2		24.3			6 1/2		
143	145		24257		2		19.2			7		
145	147		24258		2		19.5			7		
147	149		24260		2		20.3			3		
149	151		24261		2		9.8			7 1/2		
151	153		24262		2		10.6			7		
153	155		24263		2		12.2			7		
155	157		24264		2		22.2			7		
157	159		24265		2		29.1			7 1/2		
159	161		24266		2		40.4 ✓			7 ✓		
161	163		24250		2		57.4			3		
137	159	SEAM - EL. COMPO.			22'	0.3	20.2	21.7	57.8	6	0.32	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
218	220		24267		2		45.2			1		
220	222		24268		2		19.7			3 1/2		
222	224		24269		2		37.5			4 1/2		
224	226		24270		2		37.4			3		
226	228		24271		2		29.1			6		
228	230		24272		2		34.1			3 1/2		
230	232		24273		2		26.8			1 1/2		
232	234		24274		2		19.7			2 1/2		
234	236		24275		2		15.4			2 1/2		
236	238		24276		2		11.9			7		
238	240		24277		2		23.1			2 1/2		
240	242		24278		2		19.4			2 1/2		
242	244		24279		2		23.7			1 1/2		
244	246		24280		2		27.6			2		
246	248		24281		2		20.4			2 1/2		
248	250		24282		2		19.8			1		
250	252		24283		2		17.5			2		
252	254		24284		2		16.6			2 1/2		
254	256		24285		2		25.4			1		
256	258		24286		2				NO SAMPLE			
258	260		24287		2		16.2			4		
260	262		24288		2		16.7			3		
262	264		24290		2		19.3			2 1/2		
264	266		24291		2		13.7			1		
266	268		24292		2		19.1			1		
268	270		24293		2		17.3			2 1/2		
270	272		24294		2		12.0			2 1/2		
220	272	SEAM - D COMPO.			50 52	0.2	21.1	19.2	59.5	2 1/2	0.26	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
482	484		24295		2		51.9			1		
484	486		24296		2		20.2			1		
486	488		24297		2		25.7			3 1/2		
488	490		24298		2		12.6			7		
490	492		24299		2		9.7			7 1/2		
492	494		24300		2		69.7			1/2		
494	496		23526		2		64.2			1		
496	498	→	23527		2		33.8			4 1/2		
498	500		23528		2		49.6			1		
500	502		23529		2		84.0			0.		
484	492	SEAM - B Compo.			8'	0.2	17.4	19.2	63.2	4 1/2	0.50	
496	498		23527		2'	0.2	33.5	17.9	48.4	4	0.26	

Page No. 3|3 Hole No.RH- 173

Diamond Drill Geological Log

K - FORDING 78(3)B-4

RH 1174

Cominco

Objective:

Sampled:

Logged By: R.K. Date: November/78

Composites:

Color Plot & Dips | Ore Classes & Aver.

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	481,750 N	GREENHILLS S.			

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	50			Broken/shattered rock.
50	89			Sandstone, silty towards bottom
89	104			Siltstone, grading progressively to mudstone towards bottom.
104	112	31.70	34.14	Coal, 8' 2.44m
112	116			4' Mudstone
116	123	35.36	37.49	Coal 7' 2.13 m 24.5(18)' SEAM - F
123	125.5			2.5' mudstone
125.5	128.5	38.25	39.17	Coal 3' 0.91m
128.5	229.5			Interbedded mudstone and siltstone
229.5	237	69.95	72.24	Coal 7.5' 2.29m SEAM - f1
237	263			Shaley siltstone and mudstone
263	269.5	80.16	82.14	Coal 6.5' 1.98m SEAM - f2
269.5	301			Mudstone with thin bands of siltstone
301	330			Siltstone, mudstone near bottom.
330	354			Sandstone near top and siltstone
354	359.5			Mudstone
359.5	377.5	109.58	115.06	Coal 18' 5.49m SEAM - EU
377.5	382.5			5' mudstone
382.5	384.5	116.59		Coal 2' 0.61m
384.5	402			Mudstone
402	447			Siltstone and thin interbeds of sandstone
447	457.5			Mudstone with siltstone band at 453'
457.5	460	139.45		Coal 2.5' 0.76m

Core Size

Hole No. RH 1174

Page 1 of 2

302

2507-

Diamond Drill Geological Log

Cominco

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

Objective:

Sampled:

Logged By: Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From	To	Discard: m	m	Reason:
460	473			Mudstone
473	522			Siltstone, sandy intervals
522	563			Mudstone
563	604	171.60	184.10	Coal 41' 12.50m SEAM - D
604	610			Mudstone
610	618		188.37	Siltstone
				END OF HOLE
				AUGUST 4, 1978

Core Size

Hole No. RH 1174

Page 2 of 2

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
103	105		23729		2		5.6			7 1/2		
105	107		23730		2		5.7			7 1/2		
107	109		23731		2		6.7			7 1/2		
109	111		23732		2		17.3			5 1/2		
111	112		23733		1		22.7			6 1/2		
103	112.	SEAM - F. ✓COMPO.		13,467	9	0.5	11.7	24.1	63.7	6 1/2	0.55	
116	118		23734		2		17.7			4 1/2		
118	120		23735		2		8.1			6 1/2		
120	122		23736		2		8.0			2		
122	123		23737		1		28.9			3		
116	123.	SEAM - F. ✓COMPO		13,036	7	0.2	15.5	22.1	62.2	4	0.45	PETROGRAPHIC ANALYSIS 103-112' +116-123'
125	127		23738		2		24.5			7		
125	129		23739		2		—			—		
228	230		23740		2		—			—		
230	232		23741		2		—			—		
232	234		23742		2		—			—		
234	236		23743		2		—			—		
265	267		23744		2		76.8			1/2		
267	269		23745		2		32.8			4		
269	271	~~CES~~	23746		2		35.8			5		
271	273	CES	23747		2		50.4			3		
273	275	CES	23748		2		67.3			1.		
267	271	✓COMPO.		9678	4.	0.1	34.8	19.2	45.9	3	0.45	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
289	291		23749		2		28.5			1 1/2		
291	293		23750		2		53.1			2		
293	295		25338		2		—			—		
295	297	CES	25339		2		40.8			4 1/2		
361	363		25340		2		39.7			3		
363	365		25341		2		28.7			3 1/2		
365	367		25342		2		23.7			3		
367	369		25343		2		24.6			2		
369	371		25344		2		22.2			2		
371	373		25345		2		32.9			3		
373	375		25346		2		39.8			1		
375	377		25347		2		56.7			1/2		
377	379	CES	24018		2		36.5			1		
361	379	✓COMPO. SEAM-F		9,786	18	0.2	33.5	20.1	46.2	2	0.14	PETROGRAPHY.
363	373	COMPO.		10,970	10	0.3	26.4	20.6	52.7	3	0.68	
381	383	CES	24019		2		34.6			1		
458	460		24020		2		84.5			0		
534	536		24021		2		76.8			0		
536	538		24022		2		74.0			1		
538	540		24023		2		74.0			1		
540	542		24024		2		77.1			1/2		
542	544		24025		2		81.8			0		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
563	565		22962		2		37.7			1		
565	567		22963		2		43.6			1		
567	569		22964		2		27.3			1		
569	571		22965		2		26.6			4		
571	573		22966		2		33.3			3 1/2		
573	575		22967		2		24.5			5 1/2		
575	577		22968		2		32.1			4		
577	579		22969		2		28.6			3		
579	581		22970		2		13.4			1 1/2		
581	583		22971		2		16.2			4		
583	585		22972		2		11.4			1		
585	587		22973		2		14.1			1 1/2		
587	589		22974		2		11.9			2		
589	591		22975		2		16.7			5 1/2		
591	593		22976		2		45.7			2 1/2		
593	595		22977		2		13.6			1		
595	597		22978		2		11.7			2 1/2		
597	599		22979		2		24.4			1		
599	601		22980		2		13.5			2 1/2		
601	603		22981		2		39.3			1		
567	601	SEAM-D COMPO.		11,280	34	0.4	21.3	19.3	59.0	2 1/2	0.27	PETROGRAPH

Diamond Drill Geological Log

K- FORDING 78(3)B-4

RH 1200

Objective:

Sampled:

Logged By: R. K. Date: April 3, 1978

Composites:

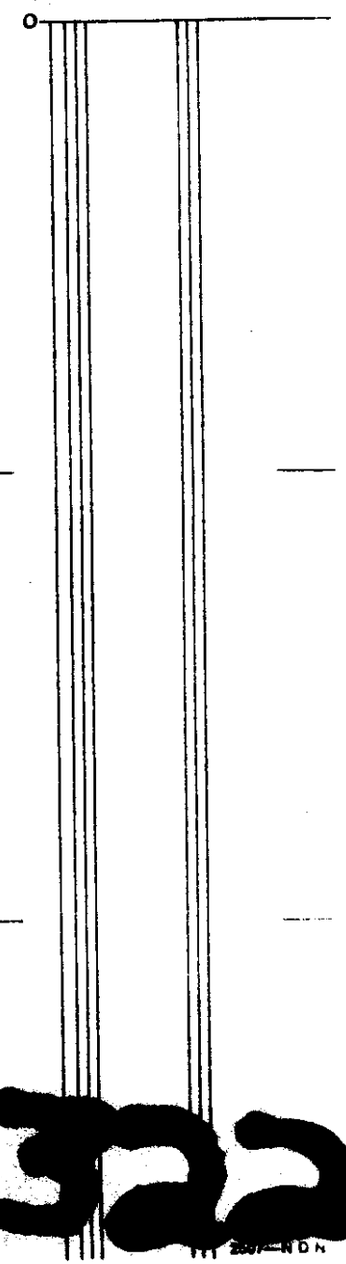
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills West of #1 Pit	Area		220'

Discard: Reason: Intersections taken from Gamma Ray Log

From	To	
0	7	Casing
7	11	Sandstone
11	16	Mudstone
16	49	Siltstone with thin bands of mudstone and sandstone
49	52	Sandstone
52	58	Mudstone and siltstone
58	62	Sandstone
62	68	Mudstone
68	94	Siltstone, silty sandstone near top.
94	101	Mudstone
101	104	Coal 3'
104	106	2' Mudstone
106	124	Coal 18' Seam - H.
124	134	Mudstone
134	139	Coal 5'
139	142	Mudstone
142	154	Sandstone some siltstone
154	162	Siltstone and mudstone
162	191	Sandstone with bands of siltstone
191	203	Siltstone
203	220	Mudstone
		End of Hole
		March 30, 1978

Core Size: B50 Drill - No Samples

Hole No. RH 1200



322

Diamond Drill Geological Log

K-Fording 78(3)B-4

KH-1201

Cominco

40 Col

Objective:

Sampled:

Logged By: R.K. Date: Apr.7, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills West of #1 Pit			

From	To	Discard: Reason:
		INTERSECTIONS TAKEN FROM GAMMA RAY LOG
0	3	Overburden (Casing 19')
3	6	Coal
6	12	Mudstone
12	16.5	Coal 4.5' Lower band below seam H.
16.5	19	Mudstone.
19	41	Siltstone, sandy siltstone near bottom. Grey cuttings.
41	44	Mudstone.
44	68	Siltstone, sandy near bottom.
68	92	Sandstone.
92	96	Siltstone.
96	100	Coal 4'
100	110	Mudstone
110	115	Siltstone, sandstone band near bottom.
115	120.5	Mudstone
120.5	137	Coal 16.5' Seam G.
137	141	Mudstone.
141	145	Coaly shale and 1' coal band near bottom
145	163	Mudstone, siltstone near bottom
		End of Hole
		APRIL 6, 1978

Hole No. _____ Elev. _____

Lat. _____ Dep. _____

Elev. Th.

Top of _____ @ _____ '

Top of _____ @ _____ '

Top of _____ @ _____ '

Top of _____ @ _____ '

Core Size

B50 Drill - NO SAMPLES

Hole No. RH 1201 Page

322

2507—N.D.N.

Diamond Drill Geological Log

K - FARDING 78(3)S-4

RH-1202

Objective:

Sampled:

Logged By:

Date: May 8, 1978

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		GREENHILLS S. #1 PIT AREA			

Reason: Intersections taken from Gamma Ray Log.

From	To	Discard:
0	6	Casing
6	10	Mudstone
10	22	Siltstone
22	28	Silty sandstone
28	44	Siltstone some mudstone near bottom
44	75	Coal with one foot shale band at 56' 31 (30)' SEAM - H.
75	85	Mudstone, coal stringer at 79'
85	98	Siltstone and mudstone interbeds
98	102	Sandstone
102	130	Mostly sandy siltstone with bands of sandstone
130	215	Mostly siltstone with interbeds of mudstone
215	218	Mudstone
218	224	Coal 6' SEAM - G
224	226	2' Mudstone
226	227	Coal 1'
227	236	Mudstone
		END OF HOLE MAY 2, 1978

Hole No._____ Elev._____

Lat._____ Dep._____

Elev. Th.

Top of_____ @_____ '

Top of_____ @_____ '

Top of_____ @_____ '

Top of_____ @_____ '

Core Size

B50 Hole NO SAMPLES

Hole No. RH 1202 Page 1 of 1

322

2807—N.O.N.

Diamond Drill Geological Log

K - Fording 78(3)B-4

Cominco

KH - 1203

Objective:

Sampled:

Logged By: RK Date: May 8, 1978:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills S. #1 Pit	Area		

From	To	Discard:	Reason: INTERSECTIONS FROM GAMMA RAY LOG.
0	5	Casing	
5	7	Mudstone	
7	12	Sandstone	
12	28	Siltstone	
28	31.5	Mudstone	
31.5	34	Coal 2.5'	
34	36	2' Mudstone	
36	48	Coal 12'	
48	51	3' Mudstone	
51	58	Coal 7'	
58	60	2.0' Mudstone	
60	61.5	Coal 1.5'	
61.5	77	Interbedded siltstone and mudstone	
77	80	Sandstone	

END OF HOLE
MAY 3, 1978

Hole No. Elev.

Lat. Dep.

Elev. Th.

Top of @ '

Top of @ '

Top of @ '

Top of @ '

Core Size B 50 HOLE NO SAMPLE

Hole No. RH 1203

Page 1 of 1

322

Diamond Drill Geological Log

IC-FORDING 78(3)B-4

RH-1204

Objective:

Sampled:

Logged By: R.K. Date: October /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	480,500 N.	GREENHILLS SOUTH - UPPER SEAMS AREA			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY LOG.

From	To	Discard: M.	M	
0	10			Casing (Overburden 8'?)
10	12			Mudstone. Brown cuttings.
12	15	3.66	4.57	Coal 3'. 0.91 M
15	35			Mudstone with a siltstone interbed in the middle
35	38	10.67	11.58	Coal 3'. 0.91 M
38	57			Mudstone, brown cuttings.
57	90			Siltstone, grey cuttings.
90	103			Mudstone.
103	112			Sandstone near top, siltstone.
112	114	34.14	34.75	Coal 2'. 0.61 M
114	148			Mudstone, with thin bands of siltstone and coal lenses.
148	152	45.11	46.33	COAL 4'. 1.22 M
152	155			3' Mudstone
155	157	47.24	47.85	COAL 2'. 0.61 M
157	168			Mudstone, brown cuttings.
168	173	51.20	52.73	COAL 5' 1.52 M
173	196			Siltstone.
196	203			Sandstone, very hard drilling, grey cuttings.
203	232			Mostly siltstone, with sandy intervals, mudstone near top.
232	235	70.71	71.63	COAL 3' 0.91 M
235	242			Mudstone
242	256			Sandy siltstone with mudstone bands, grey cuttings.
				T.D. 256' JUNE 21/78 78.03 M

Core Size

B50 HOLE - NO SAMPLES

Hole No. RH 1204

Page 1 of 1

& Aver.

322

2507-

Diamond Drill Geological Log

Cominco

Objective:				Sampled:	
Logged By: R.K.	Date: October /78			Composites:	
Block:	Sect.: 480,500 N.	Place: GREENHILLS SOUTH - UPPER SEAMS AREA	App. Bear:	App.: Dip.:	Length:

From	To	Discard: M.	M	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY LOG.
0	10			Casing (Overburden 8'?)
10	12			Mudstone. Brown cuttings.
12	15	3.66	4.57	Coal 3'. 0.91 M
15	35			Mudstone with a siltstone interbed in the middle
35	38	10.67	11.58	Coal 3'. 0.91 M
38	57			Mudstone, brown cuttings.
57	90			Siltstone, grey cuttings.
90	103			Mudstone.
103	112			Sandstone near top, siltstone.
112	114	34.14	34.75	Coal 2'. 0.61 M
114	148			Mudstone, with thin bands of siltstone and coal lenses.
148	152	45.11	46.33	COAL 4'. 1.22 M
152	155			3' Mudstone
155	157	47.24	47.85	COAL 2'. 0.61 M
157	168			Mudstone, brown cuttings.
168	173	51.20	52.73	COAL 5' 1.52 M
173	196			Siltstone.
196	203			Sandstone, very hard drilling, grey cuttings.
203	232			Mostly siltstone, with sandy intervals, mudstone near top.
232	235	70.71	71.63	COAL 3' 0.91 M
235	242			Mudstone
242	256			Sandy siltstone with mudstone bands, grey cuttings.
				T.D. 256' JUNE 21/78 78.03 M

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

Core Size

B50 HOLE - NO SAMPLES

Hole No. RH 1204

Page 1 of 1

2507-

Diamond Drill Geological Log

K-Fording 78(3)G-4

RH - 1205

Objective:

Sampled:

Logged By: R.K. Date: October /78

Composites:

Color Plot & Dips | Ore Classes & Aver.

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
	480,500 N.	GREENHILLS SOUTH - UPPER SEAMS AREA.			

From	To	Discard: m.	m.	Reason: INTERSECTIONS TAKEN FROM GM.-RAY LOG.
0	6			Casing
6	10			Mudstone.
10	50			Interbedded mudstone and siltstone with several thin sandstone bands.
50	51			Coal 1'
51	67			Mudstone.
67	84			Sandy siltstone, grey cuttings, hard drilling.
84	92.5			Mudstone and some siltstone.
92.5	94.5	28.19		COAL 2'
94.5	130			Mostly siltstone, sandy intervals near top and bottom.
130	165			Silty mudstone.
165	167	50.29		COAL 2'
167	187			Siltstone, silty sandstone in middle
187	190	57.00	57.91	COAL 3' 0.91 M
190	212			Mudstone
212	256			Siltstone and silty sandstone, hard drilling, grey cuttings.
				END OF HOLE 256'.
				JUNE 27/78

Core Size

B50 DRILL - NO SAMPLES

Hole No. RH 1205

Page 1 of 1

322

Diamond Drill Geological Log

K - Fording 78(3)G-4

RH-1206

Cominco

Objective:

Sampled:

Logged By: R.K. Date: October /78

Composites:

Block:

Sect.: ≈ 483,750

Place: GREENHILLS SOUTH - UPPER SEAMS AREA

App. Bear:

App.: Dip.:

Length:

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY NEUTRON LOG

From	To	Discard: M	M	
0	10			Casing, 7'-10' sandstone.
10	42			Mostly sandstone with thin siltstone interbeds, very hard drilling near bottom, grey cuttings.
42	59			Siltstone, mudstone near bottom.
59	94			Silty sandstone and sandstone.
94	134			Interbedded siltstone and mudstone, thin coal band at 102'.
134	145.5			Mudstone.
145.5	152	44.35	46.33	COAL 6.5' 1.98 M SEAM - K
152	180			Sandstone, grey cuttings.

T.D. 180 54.86 M

JULY 6/78

Core Size: B50 HOLE - NO SAMPLES

Hole No.: RH 1206

Page: 1 of 1

322

Diamond Drill Geological Log

K - FORDING 78(3)6-4

Cominco

RH - 1207

Objective:

Sampled:

Logged By: R.K. Date: November/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		GREENHILLS UPPER SEAM AREA			

From	To	Discard: m	m	Reason: NO RADIATION LOG INTERSECTIONS FROM DRILLER'S REPORT
0	7			Casing
7	25			Siltstone and sandstone, grey cuttings, medium hard drilling
25	31			Mudstone, brown cuttings
31	34	9.44	10.36	Coal 3' 0.91m
34	99			Interbedded mudstone and siltstone, sandstone near bottom
99	103	30.17	31.39	Coal 4' 1.22m
103	142			Sandstone and siltstone near bottom
142	144	43.28		Coal 2' 0.61m
144	180			Silty sandstone, 3' mudstone near top
180	222			Mudstone, 1' coal band at .211', siltstone 212-222
222	224	67.67		Coal 2' 0.61m
224	247		75.29	Siltstone near top and sandstone, grey cuttings
				END OF HOLE
				OCTOBER 25, 1978

Core Size: B50 HOLE - NO SAMPLES

Hole No.: Rh 1207

Page: 1 of 1

Ore Classes & Aver.

0

322

2507-

Diamond Drill Geological Log

K - FRDING 78(3)B-4

RH-1208

Cominco

Objective:

Sampled:

Logged By: R.K. Date: November/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		GREENHILLS UPPER SEAMS AREA			

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY LOG
0	15.5	0	4.72	Overburden and casing
15.5	50			Mudstone with thin bands of siltstone, brown cuttings, soft drilling.
50	54	15.24	16.46	Coal, shaley 4' 1.22m
54	75			Mudstone
75	77	22.66		Coal 2' 0.61m
77	105			Mudstone with coal stringers at 9', shaley siltstone near bottom
105	121			Silty sandstone and siltstone, grey cuttings.
121	130			Mudstone
130	140			Sandstone, grey cuttings, hard drilling
140	157			Siltstone and mudstone
157	161	47.85	49.07	Coal 3' 0.91m
161	208			Silty sandstone, grey cuttings
208	215			Siltstone, grey cuttings
215	231			Sandstone, grey cuttings
231	236			Mudstone
236	256	71.93	78.03	Coal 20' 6.10m SEAM - K
256	274		83.52	Mudstone, thin coal band at 263'

END OF HOLE

NOVEMBER 5, 1978

Core Size

B50 HOLE - NO SAMPLES

Hole No. RH 1208

Page 1 of 1

e Classes & Aver.

0

322

2507-

Diamond Drill Geological Log

K-FORDING 78(3)B-4

RH-1209

Cominco

Objective:

Sampled:

Logged By: R.K. Date: November/78

Composites:

Assays & Aver.

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		GREENHILLS-UPPER SEAMS AREA			

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY LOG
0	18			Casing, overburden and siltstone
18	45			Sandy siltstone, grey cutting.
45	56			Mudstone, coal stringers at 50'
56	93			Sandstone, some siltstone near top. Very hard drilling, grey cuttings.
93	161			Mostly siltstone with interbeds of sandstone, occasional thin mudstone bands.
161	169			Mudstone
169	178			Sandstone
178	187			Mudstone
187	190	57.0	57.9	Coal 3' 0.9m
190	217			Siltstone with bands of sandstone
217	219			Mudstone
219	236.5	66.7	72.1	Coal 17.5' 5.3m SEAM - K
236.5	250		76.2	Mudstone, some siltstone near bottom.

END OF HOLE

NOVEMBER 20, 1978

SAMPLE #26338 "K" GRAB SAMPLE

IM ASH VCM FC FSI S.

Core Size

Hole No. RH 1209

Page 1 of 1

322

Diamond Drill Geological Log

K-FORDING 78(3)D-4

RH-1210

Objective:

Sampled:

Logged By: R.K. Date: December /78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		Greenhills			

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY LOG.
0	7			Casing
7	10			Mudstone
10	27			Siltstone and silty sandstone, grey cuttings, soft drilling.
27	31	8.2	9.4	Coal 4' 1.2m
31	35			4' shale
35	39	10.7	11.9	Coal: shaley, 4' 1.2m
39	63			Silty sandstone, thin coal band (less than 1') at 52', grey cuttings, hard drilling.
63	91			Mudstone, siltstone bands
91	94	27.7	28.6	Coal 3' 0.9m
94	126			Sandstone, grey cuttings, hard drilling.
126	155			Mudstone, some siltstone near top, brown cuttings.
155	164	47.2	50.0	Coal 9' 2.7m
164	167.5			3.5' mudstone 18(14.5)' 5.5m(4.4)m SEAM - K
167.5	173	51.0	52.7	Coal 5.5' 1.7m
				ROTARY CHIPS GRAB SAMPLE
				#8153

I.M.	A.S.H.	V.C.M.	F.C.	% S.	F.S.I.	B.T.U.

From	To	Discard: m	m	Reason:
173	176			Mudstone
176	182		55.5	Sandstone
				END OF HOLE
				DECEMBER 14, 1978

Hole No. Elev.

Lat. Dep.

Elev. Th.

Top of @ ,

Top of @ ,

Top of @ ,

Top of @ ,

Core Size
B50 HOLE

Hole No.
RH 1210

Page
1 of 1

322

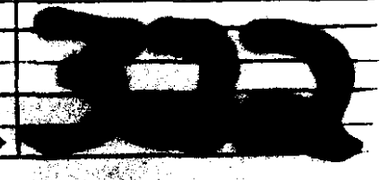
2507-

DIAMOND DRILL SAMPLING RECORD

RH-1508

K-footing 78(3)B-4

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
22	24		22326			2							
24	26		22327			2		14.3			6 1/2		
26	28		22328			2		14.3			5 1/2		
28	30		22329			2		11.6			7		
30	32		22330			2		9.7			8		
32	34		22331			2		8.8			8		
34	36		22332			2		15.5			7 1/2		
36	38		22333			2		34.4			5 1/2		
38	40		22334			2		17.6			3 1/2		
40	42		22335			2		13.5			7 1/2		
42	44		22336			2		27.7			7 1/2		
44	46		22337			2		70.7			1		
46	47		22338			1							
24	44	SEAM-7 COMPOSITE				20	0.4	16.9	23.1	59.6	7	0.36	
52	53	c&sh.	22339			1							
54	55	c&sh.	22340			1							
61	62		22341			1		74.8			1		
85	87		22342			2		29.0			5		
87	89		22343			2		27.5			4		
89	91		22344			2		30.8			11/2		
91	93		22345			2		26.7			3		
93	95		22346			2		25.3					
95	97		22347			2		25.0					
97	99		22348			2		24.9					
99	101		22349			2		28.1					
101	103		22350			2		21.2					
103	105		22233			2							
85	105	SEAM- 5 COMPOSITE				18/20	0.5	26.2	19.8	53.7	1	0.29	



CLODE PIT.

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
107	109		22234			2		31.7			1 1/2		
109	111		22235			2		37.3			1		
11													
186	188		22230			2		34.6			1		
188	190		22231			2		33.7			1		
190	192		22232			2		19.5			3 1/2		
192	194		22239			2		17.1			5 1/2		
194	196		22240			2		19.9			1		
196	198		22241			2		12.8			1		
198	200		22242			2		13.5			2 1/2		
200	202		22243			2		15.5			1		
202	204		22244			2		15.6			1 1/2		
204	206		22245			2		11.1			1		
206	208		22246			2		13.9			1		
208	210		22247			2		16.8			1		
210	212		22248			2		14.8			2 1/2		
212	214		22249			2		23.2			2		
214	216		22250			2		24.8			1		
216	218		22301			2		23.7			1 1/2		
218	220		22302			2		38.9			1		
220	222		22303			2		54.1			1		
					BTU	1							
186	218	SEAM - V.5 COMPOSITE		12,070		32	0.4	19.6	20.2	59.4	1 1/2	0.32	

Diamond Drill Geological Log

K - FORDING 78(3)B-4

RH-1512

Cominco

Objective:

Sampled:

Logged By: R.K. Date: October/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		CLODE PIT			

Discard: Reason:

INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG AND DIRECTIONAL SURVEY DONE.

From	To	
0	6	Broken/shattered rock
6	38	Sandstone
38	43.5	Silty mudstone
43.5	48	Coal and coaly shale band. 4.5'
48	58	Mudstone, thin coal band at 50'
58	60	Coal 2'
60	108.5	Mostly siltstone with interbeds of mudstone, sandy siltstone near bottom.
108.5	142	Coal 33.5' SEAM - r.7
142	184	Mudstone, several siltstone (sandy) bands in lower half section.
184	199	Coal 15'
199	210	11' Mudstone } SEAM - r. 5
210	231	Coal 21'
231	262	Mostly siltstone, some mudstone near top.
262	319	Sandstone, silty sandstone interval from 279'-300'
319	360	Mostly siltstone with some mudstone and bands of sandstone.
360	413.5	Mudstone
413.5	414.5	Coal 1'
414.5	422	Mudstone
422	427	Coal 5' SEAM - R7U
427	537	Mostly siltstone with thin interbeds of mudstone.
537	561.5	Coal 24.5 SEAM - R7
561.5	608	Mudstone with some siltstone.
608	651	Coal with 2' shale parting@641.5', 43(41)' SEAM - R5

Core Size

Hole No. RH 1512

Page 1 of 2

322

Diamond Drill Geological Log

Cominco

Objective:			Sampled:		
Logged By:	Date:		Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

From	To	Discard:	Reason:
651	659	Mudstone	
659	696	Siltstone, grading progressively to sandstone towards bottom	PEAR S.S.
696	766	Sandstone	
766	819	Mudstone with occasional siltstone band.	
		Hole terminated at 819' as compressors could not unload the water pressure.	

40 Scale

Color Plot & Dips	Ore Classes & Aver.
0	

Core Size

Hole No. RH 1512

Page 2 of 2

2307-

~~DIAMOND~~ DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
~~44~~	~~46~~		12888	~~12~~		2		43.6			6 1/2		
47	49		12889			2		43.0			5		
59	61	C & S	12890			2		51.8			5 1/2		
61	62	C & S	12891			1		76.2			1/2		
73	75	C & S	12892			2		50.4			4 1/2		
98	100	C & S	12893			2		73.0			1		
109	111		21726			2		24.8			2		
111	113		21727			2		8.3			7 1/2		
113	115		21728			2		19.6			6		
115	117		21729			2		12.0			7 1/2		
119	119		21730			2		10.0			6 1/2		
119	121	SEAM	21731			2		44.0			3		
123	123		21732			2		16.2			4 1/2		
123	125		21733			2		13.4			5		
125	127		21734			2		14.6			7 1/2		
127	129		21735			2		8.8			7		
129	131		21736			2		12.3			7 1/2		
131	133		21737			2		12.9			7 1/2		
133	135		21738			2		24.8			4 1/2		
135	137		21739			2		13.0			6		
137	139		21740			2		8.8			6 1/2		
139	141		21741			2		38.0			4		
141	143	C & S	21742			2		48.1			4 1/2		
143	145	C & S	21743			2		70.0			1		
145	147	C & S	21744			2		80.0			0		
109	141	SEAM - Y.7 COMPOSITE.				32'	0.4	17.8	22.6	59.2	6	0.32	

SEAM Y.7

Page No. 1/4

Hole No. RH 1512

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
158	160	C & S	21745	2		2		80.6			0		
184	186		21746	2		2		25.4			5 1/2		
186	188		21747			2		28.5			4		
188	190		21748			2		10.8			6 1/2		
190	192		21749			2		11.1			7		
192	194		21750			2		37.5			1 1/2		
194	196		21752			2		11.8			2 1/2		
196	198		21753			2		42.2			1		
198	199		21754			1		78.3			0		
184	196	SEAM-Y.5 COMPOSITE				12	0.3	22.1	22.7	54.9	4	0.44	
208	210		21755			2		33.4			4		
210	212		21756			2		19.0			6 1/2		
212	214		21757			2		—			—		
214	216		21758			2		44.2			2 1/2		
216	218		21759			2		27.6			4		
218	220		21760			2		19.3			6 1/2		
220	222		21761			2		17.3			6 1/2		
222	224		21762			2		13.7			1 1/2		
224	226		21763			2		10.2			4		
226	228		21764			2		9.1			7		
228	230		21765			2		33.9			1		
230	232		21766			2		53.6			1		
208	230	COMPOSITE				20 1/22	0.3	22.5	21.6	55.6	3 1/2	0.35	
414	416		21767			2		81.1			0		
423	425		21768			2		32.0			2 1/2		
425	427		21769			2		42.7			4 1/2		
						4	0.3	37.0	16.5	46.2	3	0.65	

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
430	432		21770			2		58.4			1		
537	539		21771			2		24.0			5 1/2		
539	541		21772			2		37.1			1		
541	543		21773			2		21.0			4		
543	546		21774			2		14.0			3 1/2		
545	547		21775			2		18.7			6		
547	549		21776			2		13.5			7 1/2		
549	551	SEE DM-R7	21777			2		31.7			3 1/2		
551	553		21778			2		15.4			4		
553	555		21779			2		12.1			6 1/2		
555	557		21780			2		40.6			3		
557	559	C & S	21781			2		35.1			5 1/2		
559	561		21782			2		—			—		
561	563	C & S	21783			2		—			—		
537	559					22	0.3	23.6	20.4	55.7	4	0.42	
609	611		21784			2		26.1			2		
611	613		21785			2		35.0			1		
613	616		21786			2		25.0			6 1/2		
615	617		21787			2		36.5			1		
617	619		21788			2		8.9			6		
619	621		21789			2		22.8			6 1/2		
621	623		21790			2		56.8			1 1/2		
623	625	SEE DM-R5	21791			2		52.0			1		
625	627		21792			2		39.0			3 1/2		
627	629		21793			2		42.5			1		
629	631		21794			2		15.1			1 1/2		
631	633		21795			2							
633	636		21796			2		25.8			1		
635	637		21797			2		13.9			3		
637	639		21798			2		23.3			3 1/2		

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
639	641		21799			2		22.0			5		
641	643		21800			2		27.6			4		
643	645	12	21894			2		65 4			1 —		
645	647	12	21895			2		52 2			1 —		
647	649		21896			2		54 0			1 —		
649	651		21897			2		46 3			1 —		
651	653	P.A. of 5 FSI → 12	21898			2	0.3	26 1, 26 4	18.3	55.0	2 — 2 1/2	0.29	
653	655	12	21899			2		71 1					
609	643	SEAM - R5 COMPOSITE				34	0.3	29.9	21.8	48.0	2 1/2	0.51	
643	645	8" Two Samples Taken for interval	12900			2		—			—		
645	647	" " " " " "	21801			2		58.7			1		
647	649	" " " " " "	21802			2		35.6			1		

Page No. 4/4 Hole No. 1512

Diamond Drill Geological Log

K- FORDING 28(3)B-4

RH-1513

Objective:

Sampled:

Logged By: R.K. Date: October/78

Composites: DIRECTIONAL SURVEY DONE

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		CLODE PIT			

Color Plot & Dips | Ore Classes & Aver.

From	To	Discard: Reason:
		INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	18	Sandstone
18	45	Coal with 2.5' mudstone at 35.5' 27(24.5)' SEAM - 4
45	50	Mudstone
50	106	Mostly siltstone with bands of sandstone, mudstone 70' - 81'
106	113	Sandstone
113	117	Mudstone, coal lens at 114'
117	119	Coal 2' SEAM - 2
119	131	Sandstone, mudstone near top.
131	141	Coal 10' SEAM - 1
141	251	Basal sandstone, grading progressively to siltstone in lower half interval, possible fault zone at 206'.
251	265	Mudstone
265	318	Siltstone, sandy interval near bottom.
318	414	Sandstone
414	451	Mudstone and siltstone.
451	508	Interbedded siltstone and sandstone.
508	540	Sandstone
540	572	Coal 31.5' SEAM - R4
572	575	3' Mudstone
575	578.5	Coal 3.5'
578.5	620	Interbedded mudstone and sandy siltstone.
620	635	Massive sandstone.
		T.D. 635' JULY 23/78

Core Size

Hole No. RH 1513

Page 1 of 1

320

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
20	22		23530		2		10·4			5½		
22	24		23531		2		9·6			3½		
24	26		23532		2		7·7			7½		
26	28		23533		2		8·0			4		
28	30		23534		2		8·2			7½		
30	32		23535		2		9·5			7		
32	34		23536		2		13·6			7		
34	36		23537		2		22·9			7½		
36	38		23538		2		56·7			2		
38	40		23539		2		46·8			2		
20	36	SEAM-A. COMPO.			16	0·5	11·7	22·6	65·2	6	0·33	
42	44		23540		2		21·5			6		
44	46		23541		2		49·5			1½		
46	48	CES	23542		2		45·2			2½		
48	50	CES	23543		2		76·0			0		
50	51	CES	23544		1		74·0			0.		
117	119	CES	23545		2		27·3			6½		
119	124	CES	23546		1		55·6			4½		
117	119	SEAM-2.	23545	11,076	2	0·4	27·4	17·6	54·6	6	0·32	
132	134		23547		2		32·4			5½		
134	136		23548		2		9·6			7		
136	138		23549		2		18·4			6		
138	140		23550		2		15·2			7½		
140	142	CES	23551		2		31·6			7½		
132	142	SEAM-1 COMPO.		12,289	10	0·8	21·4	19·4	58·4	6½	0·44	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
543	545		23552		2		16·6			2 1/2		
545	547		23553		2		8·8			4 1/2		
547	549		23554		2		12·0			2 1/2		
549	551		23555		2		7·8			2 1/2		
551	553		23556		2		16·7			2		
553	555		23557		2		9·0			2 1/2		
553	557		23558		2		8·0			3		
557	559		23559		2		13·3			2 1/2		
559	561		23560		2		4·9			5 1/2		
561	563		23561		2		8·6			2		
563	565		23562		2		10·1			4 1/2		
565	567		23563		2		NO SAMPLE					
567	569		23564		2		12·2			7		
569	571		23565		2		54·8			1		
571	573		23566		2		25·6			5		
573	575	CES	23567		2		49·3			1 1/2		
575	577	CES	23568		2		67·7			1/2		
577	579	CES	23569		2		13·6			7		
579	581	CES	23570		2		16·5			4 1/2		
543	581	SRAM-R4. COMPO.		12,419, 36/38		0·3	19·3	21·4	59·0	3 1/2	0·35	PETROGRAPHIC ANALYSIS.
602	604	CES	23571									
604	606	CES	23572									

Diamond Drill Geological Log

K - FORDING 78(G)B-4

RH-1514.

Objective:

Logged By: R.K. Date: October/78

Sampled:

Composites:

Block: | Sect.: | Place: CLODE PIT | App. Bear: | App.: Dip.: | Length:

From	To	Discard: Reason: NO RADIATION LOG
		RH 1514
0	5	Casing
5	23	Mudstone, brown cuttings.
23	70	Coal 47'+ SEAM - 5 (Faulted) H.W. - 5953 - 47' +
		Hole abandoned at 70' in coal. MAY 18/78
		HOLE NOT SURVEYED APP. LOCATION: 496,562 N.
		79,602 E.
		5,976 ELEV.

Core Size: B 50 HOLE

Hole No.: RH 1514

Page: 1 of 1

322

Diamond Drill Geological Log

K- FORDING 78(3)B-4

Cominco

RH - 1516

Objective:

Sampled:

Logged By: R.K. Date: October/78

Composites:

Block:	Sect.:	Place: CLODE PIT	App. Bear:	App.: Dip.:	Length:

Discard: Reason:

INTERSECTIONS TAKEN FROM GAMMA RAY LOG

From	To	
0	24	Mudstone (10' casing)
24	46	Mudstone, siltstone interbeds grey/brown cuttings.
46	58	Mudstone
58	60	Coal 2'
60	82	Mudstone with a few thin bands of siltstone
82	83	Coal 1'
83	117	Mudstone, silty interval 90-102'
117	145	Coal 28' SEAM -r 7
145	187	Mudstone, one foot coal band at 168'
187	229	Coal 42' SEAM -r 5
229	247	Mudstone

END OF HOLE

MAY 24/78

Color Plot & Dips | Ore Classes & Aver.

0

Core Size: B-50 DRILL

Hole No.: RH 1516

Page: 1 of 1

322

Diamond Drill Geological Log

K-Forming 78(3)B-4

RH-1517

Objective:

Sampled:

Logged By: R.K. Date: October/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		CLODE PIT			

Color Plot & Dips | Ore Classes & Aver.

0

From	To	Discard:	Reason:
			INTERSECTIONS TAKEN FROM GAMMA RAY LOG.
0	7	Casing	
7	44	Siltstone	
44	51	Sandstone	
51	76	Siltstone, sandstone near bottom.	
82	86	Coal 4'	
86	132	Silty sandstone near top and siltstone	
132	139	Mudstone	
139	160	Coal 21' SEAM -r 7	
160	194	Mostly mudstone, some siltstone.	
194	206	Coal 12' Part SEAM -r 5	
206	230	Mudstone	
230	261	Coal 31' SEAM -r 5	
261	275	Mudstone	
			END OF HOLE
			MAY 31, 1978

Core Size

Hole No. RH 1517

Page 1 of 1

322

2507-

Diamond Drill Geological Log

K-FORDING 78(3)B-4

RH-1518

Cominco

Objective:

Sampled:

Logged By: R.K.

Date: November/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TAYLOR PIT			

From	To	Discard: m	m	Reason: NO RADIATION LOB - INTERSECTIONS FROM DRILLER'S REPORT
0	10			Shattered/broken rock
10	69			Shale
69	73	21.03	22.25	Coal and shale 4' 1.22m
73	76			3' Mudstone
76	95	23.16	28.96	Coal with 1' shale band 88 - 89' 19(18)' 5.79(5.49)m SEAM - 13
95	132			Shale, coal stringers
132	155			Sandstone
155	223			Mudstone
223	237	67.97	72.24	Coal 14' 4.27m SEAM - 12
237	239			Shale and coal
239	259		78.94	Mudstone

END OF HOLE

SEPTEMBER 30, 1978

Core Size

Hole No. Rh 1518

Page 1 of 1

322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
69	71		26405		2		37.2			2		
71	73		406		2		30.2			7		
76	78		26407		2		9.8			7 1/2		
78	80		26408		2		6.6			7 1/2		
80	82		409		2		6.7			8		
82	84		410		2		8.2			7 1/2		
84	86		411		2		18.2			8		
86	88		412		2		23.2			7		
89	91	C & SH	413		2		14.8			8		
91	93	" "	26414		2		8.0			8		
93	95	" "	26415		2		26.0			7		
76	95	SEAM - 13. COMPO.		14,089	18/19'	0.7	13.8	27.6	57.9	7 1/2	0.67	PETROGRAPHIC ANALYSIS
223	225		26416		2		18.7			8		
225	227		417		2		19.9			7 1/2		
227	229		418		2		34.0			5 1/2		
229	231		419		2		13.0			8		
231	233		420		2		11.2			7		
233	235		421		2		17.6			7		
235	237		422		2		8.8			8		
237	239	C & SH.	26423		2		53.3			2 1/2		
223	239	SEAM - 12 COMPO.		12,607	14'	0.7	17.3	26.1	55.9	7 1/2	0.48	PETROGRAPHIC ANALYSIS.

TAYLOR PIT

Diamond Drill Geological Log

K- Forestry 78(3)B-4

Cominco

RH-1519

Objective:

Sampled:

Logged By:

Date: October/78

Composites:

Color Plot & Dips | Ore Classes & Aver.

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TAYLOR PIT			

From	To	Discard: m	m	Reason: INTERSECTIONS TAKEN FROM GAMMA RAY LOG.
0	1			Mudstone
1	5	0.30	1.52	Coal 4' (from Driller's report) 1.22m
5	46			Mudstone, siltstone 30-34'
50	53	15.24	16.15	Coal 3'
53	75			Mudstn.
75	92			Siltstone
92	117			Mudstone
117	144			Siltstone
144	164.5	43.89	50.14	Coal, 156-159', poor coal or coaly shale 20.5' 6.25m SEAM - 13
164.5	216			Mudstone grading to siltstone and to sandstone towards bottom.
216	265.5			Interbedded mudstone and siltstone.
265.5	284	80.92	86.56	Coal 18.5' 5.64m SEAM - 12
284	306			Siltstone, sandstone near bottom.
				END OF HOLE
				SEPTEMBER 24, 1978

Core Size

Hole No. RH 1519

Page 1 of 1

320

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
1	5		26218		4		25.6			0		
46	48		26219		2		14.4			0		
152	154		26220		2		12.6			8		
154	156		221		2		35.2			5		
156	158		222		2		7.1			8		
158	160	SEAM 13	26223		2		10.0			7 1/2		
161	163		26224		2		6.5			7		
163	165		26225		2		7.0			8		
165	167		26476		2		23.7			7 1/2		
167	169		26477		2		32.8			7 1/2		
169	171		478		2		10.0			7 1/2		
171	173		479		2		10.8			7		
173	174		26480		1		16.8			8		
152	174	SEAM-13 COMPO.		12,751	21/22	0.8	15.8	27.2	56.2	7 1/2	0.56	
284	286		26481		2		55.1			3		
286	288		482		2		16.0			6 1/2		
288	290	SEAM-12	483		2		11.4			7 1/2		
290	292		484		2		4.6			8		
292	294		485		2		6.2			8		
294	296		486		2		40.9			4		
286	294	SEAM-12 COMPO.		13,865	8	0.9	10.1	28.1	60.9	7 1/2	0.78	

TAYLOR PIT

Diamond Drill Geological Log

K- FORDING 78(3) B-4

Cominco

RH-1520

Objective:

Sampled:

Logged By: R.K. Date: November/78

Composites:

Block:	Sect.:	Place: TAYLOR PIT	App. Bear:	App.: Dip.:	Length:

Reason: NO RADIATION LOG - INTERSECTIONS TAKEN FROM DRILLER'S REPORT

From	To	Discard: m	m	
0	13			Shale
13	17	3.96	5.18	Coal 4' 1.22m
17	39			Mudstone
39	113			Sandstone
113	134	34.44	40.84	Coal 21' 6.40 m SEAM - 13
134	188			Sandstone, thin shale band at 143'
188	195			Mudstone, 188-190' Highly carbonaceous
195	200			Sandstone
200	204			Siltstone
204	215			Sandstone
215	235			Siltstone
235	251	71.63	76.50	Coal 16' 4.88m SEAM - 12
251	279		85.04	Mudstone with coal stringers at 259'
				END OF HOLE
				SEPTEMBER 29, 1978

Core Size

Hole No. RH 1520

Page 1 of 1

322

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
13	15		26487		2		30.0			3 1/2		
15	17		26488		2		30.3			5 1/2		
13	17	COMPO.		11,104	4	0.7	30.1	24.7	44.5	4 1/2	0.80	
113	115		26489		2		23.2			7 1/2		
115	117		490		2		16.2			7		
117	119		491		2		7.2			8		
119	121		492		2		16.4			7 1/2		
121	123		493		2		5.6			7 1/2		
123	125		494		2		9.5			7 1/2		
125	127		495		2		33.8			7		
127	129		496		2		39.8			6		
129	131		497		2		4.7			8		
131	133		498		2		10.0			8		
133	134		26499		1		39.1			6		
113	134	SEAM-13 COMPO.		12,104	21	0.8	19.0	25.9	54.3	7 1/2	0.57	PETROGRAPHIC ANALYSIS.
284	286	??	26181		2		22.8			6		
235	237		26179		2		71.2			1		
237	239		26180		2		13.2			7 1/2		
239	241		26376		2		12.1			7 1/2		
241	243		377		2		10.8			7		
243	245		378	+26181	2		9.7			7 1/2		
245	247		379		2		7.2			8		
247	249		380		2		5.5			7 1/2		
249	251		381		2		26.1			7		
251	252		26382		1		79.6			1/2		SALG ASH 12.1%
235	251	SEAM-12 COMPOSITE.		12,676	16?	0.7	13.6	26.5	59.2	7 1/2	0.73	PETROGRAPHIC ANALYSIS.

TAYLOR PIT.

 Hole No. RH-1520

Diamond Drill Geological Log

K-FORDING 78(3)B-4

RH 1521

Cominco

Objective:

Sampled:

Logged By: R.K. Date: November/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TAYLOR PIT			

Reason: NO RADIATION LOG - INTERSECTIONS TAKEN FROM DRILLER'S REPORT

From	To	Discard: m	m	
0	12			Shattered/broken rock
12	101			Mudstone
101	123	30.78	37.49	Coal 22' 6.71m SEAM - 13
123	125			Coal and shale 2'
125	135			Shale
135	176			Sandstone
176	192			Mudstone
192	203			Sandstone
203	219			Shale
219	239	66.75	72.85	Coal 20' 6.10m SEAM - 12
239	259		78.94	Shale

END OF HOLE

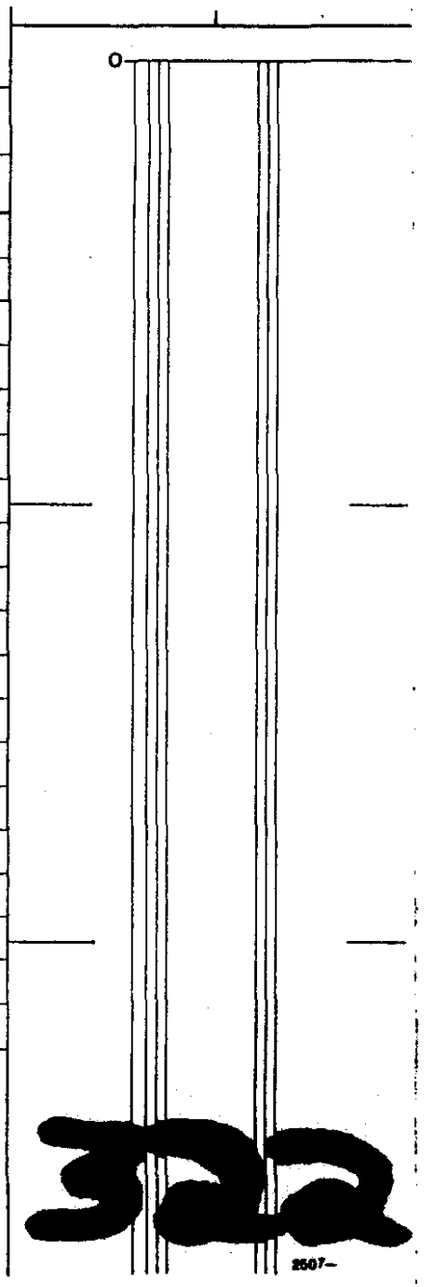
SEPTEMBER 29, 1978

Core Size

SAMPLES (CONTAMINATED)

Hole No. RH 1521

Page 1 of 1



322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
99	101		25810		2		29.5			6 1/2		
101	103		811		2		57.4			1 1/2		
103	105		812		2		8.2			7 1/2		
105	107		813		2		5.6			8		
107	109		814		2		12.7			7		
109	111	SEAM	815		2		6.0			7 1/2		
111	113	-13.	816		2		49.5			5		
113	115		817		2		37.6			6 1/2		
115	117		818		2		29.9			6 1/2		
117	119		819		2		14.2			7		
119	121		820		2		4.2			8		
121	122	C & SH.	25821		1		24.3			6 1/2		
103	122	SEAM - 13 COMPO.		11,301	19'	1.2	19.6	22.2	57.0	6 1/2	0.52	PETROGRAPHIC ANALYSIS.
171	173		25822		2		58.1			1 1/2		
173	175	C & SH.	823		2		65.0			1		
172	173	C & SH.	25824		1		44.9			5		
218	220		25825		2		44.4			3		
220	222		25776		2		9.4			7		
222	224		777		2		9.6			7		
224	226	SEAM	778		2		9.5			7		
226	228	-12.	779		2		10.2			6 1/2		
228	230		780		2		9.8			7 1/2		
230	232		781		2		6.9			7 1/2		
232	234		782		2		9.0			7 1/2		
234	236		783		2		13.4			7		
220	236	SEAM-12. COMPO.		13,539	16'	1.2	10.0	26.9	61.9	7	0.67	PETROGRAPHIC ANALYSIS.
				13,509								

Diamond Drill Geological Log

K-FORDING 78(3)B-4

KH-1521A

Cominco

Objective:

Sampled:

Logged By: R.K. Date: November/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TAYLOR PIT			

Color Plot & Dips | Ore Classes & Aver.

From	To	Discard: m	m	Reason: NO RADIATION LOG - INTERSECTIONS TAKEN FROM DRILLER'S REPORT
0	9			Shattered rock
9	99			Shale
99	101	30.17		Coal 2'
101	103			2' Mudstone
103	122	31.39	37.19	Coal 19' 5.79m SEAM - 13
122	171			Mudstone
171	175			Coaley shale
175	190			Shale
190	199			Sandstone
199	218			Mudstone
218	236	66.45	71.93	Coal 18' 5.49m SEAM - 12
236	255		77.72	Mudstone
				END OF HOLE

Core Size

RE-DRILL OF RH 1521

Hole No. RH 1521A

Page 1 of 1

322

2507-

Diamond Drill Geological Log

K - FORDING 78(3)B-4

RH 1522

Cominco

Objective: | Sampled:

Logged By: | Date: | Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		TAYLOR PIT			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY LOG

From	To	Discard:		
0	16			Mudstone
16	22			Sandstone
22	28			Mudstone
28	41			Siltstone
41	62			Mudstone
62	74			Siltstone
74	86			Mudstone
86	106	26.21	32.31	Coal with 4' shale and shaley coal 98-102'. 20(12'C/4' SH./ 4' C) SEAM -13
106	150			Interbedded mudstone and siltstone, silty sandstone near bottom
150	167			Mudstone
167	202			Siltstone, with several thin bands of sanstone.
202	218	61.60	66.45	Coal 16' 4.88_m SEAM - 12
218	232			Siltstone and sandstone.

END OF HOLE

SEPTEMBER 23/78

Core Size

Hole No. RH 1522

Page 322

Aver.

0

2507-

ROTARY DRILL SAMPLING RECORD

SAMPLED SEPT. 23.'

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
88	90		26201		2		23.9			6 1/2		
90	92		26202		2		6.1			7 1/2		
92	94	SEAM-13	[illegible]		2		31.0			7		
94	96		204		2		6.0			7 1/2		
96	98		205		2		12.2			8		
98	100		[illegible]		2		30.2			6 1/2		
100	102		207		2		23.5			6 1/2		
102	104		208		2		7.1			7 1/2		
104	106		26209		2		31.6			5 1/2		
88	106	SEAM-13 COMPO.		12,370	18	0.9	18.2	26.1	54.8	7	0.52	12,370
204	206		26210		2		25.0			7		
206	208		26211		2		16.5			7		
208	210	SEAM-12	26212		2		10.0			7 1/2		
210	212		26213		2		8.7			6 1/2		
212	214		26214		2		15.5			7		
214	216		215		2		8.6			7 1/2		
216	218		216		2		5.7			8		
218	220		26217		2		64.2			1		
204	218	SEAM-12 COMPO.		13,381	14	0.7	12.8	26.9	59.6	7	0.55	

TAYLOR PIT.

Diamond Drill Geological Log

RH-1525

K-FORDING 78(3)8-4

Objective:

Logged By: R.K. Date: October/78

Sampled:

Composites:

40 Scale

Color Plot & Dips | Ore Classes & Aver.

Block: | Sect.: | Place: CLODE PIT | App. Bear: | App.: Dip.: | Length: 669'

Discard: Reason:

From	To			
				INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	4			Loose/broken rock.
4	12			Coal 8'
12	42.5			Mudstone, siltstone 31-38'
42.5	57			Coal 14.5' SEAM - R 5
57	64			Mudstone
64	91			Siltstone
91	122.5			Mudstone
122.5	166			Coal 43.5' SEAM - 4
166	169			3' Mudstone
169	172			Coal 4'
172	180			Siltstone, top 2' mudstone
180	224			Mudstone, grading progressively to siltstone, towards bottom.
224	230			S.S.
230	235			Siltstone
235	250			Coal 15'
250	252			2' Mudstone SEAM - R 5
252	254			Coal 2.5'
254	283			Mudstone
283	300			Siltstone grading progressively to SS. near bottom. Pear S.S.
300	342			Sandstone
342	452			Mudstone, occasional siltstone bands. Coal stringers at 358.5' and 434'.

Core Size

Hole No. RH 1525

Page 1 of 2

322

2507-

Diamond Drill Geological Log

COMINCO

Objective:

Sampled:

Logged By:

Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

40 Scale

Color Plot & Dips | Ore Classes & Aver.

From	To	Discard:	Reason:
452	544		Siltstone with interbeds of mudstone.
544	596		Sandstone with silty intervals.
596	618		Coal 22'
618	626		8' Mudstone
626	638		Coal 12'
638	646		8' Mudstone
646	650		Coal 4'
650	657		Mudstone
657	669		Siltstone
			END OF HOLE
			OCTOBER 11, 1978

SEAM - R4

Core Size

Hole No. RH 1525

Page 2 of 2

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
43	45		25740		2		16.4			5		
45	47		741		2		16.9			6 1/2		
47	49		742		2		25.6			3		
49	51		743		2		14.3			1 1/2		
51	53		744		2		17.6			1 1/2		
53	55		745		2		12.1			1 1/2		
55	57		746		2		11.9			2		
57	59		747		2		27.8			1 1/2		
59	61		25748		2		42.0			1.		
43	59	SEAM - 11.5 COMPO			16'	0.3	17.4	19.7	62.4	3	0.34	
123	125		25749		2		22.4			1		
125	127		25750		2		16.0			2 1/2		
127	129		25626		2		20.7			1 1/2		
129	131		627		2		14.7			7 1/2		
131	133		628		2		11.5			1 1/2		
133	135		629		2		12.7			4		
135	137		25630		2		17.8			5 1/2		
137	139		631		2		24.7			1		
139	141		632		2		19.3			1		
141	143		633		2		9.6			1 1/2		
143	145		634		2		9.6			1 1/2		
145	147		635		2		11.6			1 1/2		
147	149		636		2		19.6			1 1/2		
149	151		637		2		10.9			2		
151	153		638		2		11.2			1 1/2		
153	155		639		2		10.0			4 1/2		
155	157		25640		2		12.6			1 1/2		
157	159		25641		2		12.8			1		
159	161		642		2		13.7			1		
161	163		643		2		16.1			1		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
163	165		25644		2		—			—		
165	167		645		2		20.0			3		
167	169		646		2		32.9			2 1/2		
169	171		647		2		35.1			1		
171	173		25648		2		—			—		
123	171	SEAM - A COMPO.			A6/A8	0.4	16.3	19.4	63.9	2	0.37	
237	239		25649		2		—			—		
239	241		650		2		17.0			1		
241	243		25651		2		16.2			2 1/2		
243	245		652		2		25.3			2		
245	247		653		2		15.2			2		
247	249		654		2		20.0			1		
249	250		25655		1		29.3			4		
239	250	SEAM - R 5 COMPO.			11	0.4	20.7	19.7	59.2	2	0.37	
598	600		25656		2		6.4			6		
600	602		657		2		18.0			2		
602	604		658		2		11.4			1 1/2		
604	606		659		2		7.0			7		
606	608		660		2		7.6			7		
608	610		661		2		11.0			7 1/2		
610	612		662		2		6.1			7 1/2		
612	614		663		2		4.1			7		
614	616		664		2		14.4			8		
616	618		665		2		21.6			6		
618	620		666		2		48.7			1		
620	622	CASH.	25667		2		70.9			1/2		
598	618	SEAM R A COMPO.			20	0.4	10.6	21.3	67.7	5 1/2	0.35	
623	625		25668		2		42.8			2		
625	627		669		2		24.0			2 1/2		
627	629		25670		2		16.1			4		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
629	631		25671		2		11.3			6 1/2		
631	633		672		2		8.0			7		
633	635		673		2		8.7			2		
635	637		674		2		9.5			1 1/2		
637	639		25675		2		18.4			2 1/2		
639	641		25801		2		41.7			1		
641	643		802		2		50.4			1		
643	645		803		2		53.4			1 1/2		
645	647		804		2		30.0			4		
647	649		805		2		10.2			5		
649	651		806		2		51.4			1		
651	653		807		2		65.4			1		
653	655		808		2		56.4			1 1/2		
655	657	C & SH.	25809		2		56.0			1		
625	639	SEAM-R4. COMPO.			14'	0.3	13.2	19.5	66.6	3 1/2	0.45	
645	649	SEAM-R4 LWR. BAND. COMPO			4'	0.2	30.4	16.8	52.6	3	0.35	

Diamond Drill Geological Log

K-Fording 78(3)B-4

Cominco

RH-1526

Objective:

Sampled:

Logged By: R.K. Date: October/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		CLODE PIT			

Color Plot & Dips | Ore Classes & Aver.

From	To	Discard:		Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG.
0	57			Broken/shattered rock.
57	66			Siltstone
66	92			Silty sandstone.
92	194			Mudstone with occasional siltstone bands
194	210			Siltstone
210	278			S.S.
278	332			Mudstone
332	403			Silty mudstone, some siltstone.
403	440			S.S., siltstone 410-417'
440	568			Interbedded mudstone and siltstone.
568	578			S.S.
578	598			Siltstone and silty S.S.
598	610			Mudstone
610	641			Coal 31' SEAM - R4
641	646			5' Mudstone
646	650.5			Coal 4.5'
650	658			Mudstone
658	675			Siltstone
675	693			S.S.
				END OF HOLE
				OCTOBER 3, 1978

Core Size

Hole No. RH 1526

Page 1 of 1

322

2507

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U. ACTUAL	WIDTH	M	A	VM	FC	FSI	S	REMARKS
100	103		26424		3		53.0			1		
103	105		26425		2		62.7			1		
105	107		26426		2		55.7			1		
142	144		26427		2		70.3			1		
144	145		26428		1		76.7			1 1/2		
612	614	#1	26429		2		22.9			2 1/2		
614	616		430		2		14.2			2 1/2		
616	618	#3	431		2		22.1			2		
618	620		432		2		15.7			2		
620	622		433		2		12.9			4		
622	624		434		2		6.9			3		
624	626	SEE SM- R4.	435		2		7.4			4 1/2		
626	628		436		2		3.7			7 1/2		
628	630		437		2		9.3			3 1/2		
630	632		438		2		7.4			3		
632	634		439		2		7.4			6		
634	636		440		2		7.9			7 1/2		
636	638		441		2		7.1			7 1/2		
638	640		442		2		16.0			6 1/2		
640	642		443		2		42.0			3		
642	644		444		2		78.3			1/2		
644	646	C & SH.	445		2		41.0			3		CHECKED NOV. 7-78.
646	648		446		2		14.7			7		
648	650		447		2		9.8			5		
650	652	C & SH	448		2		46.2			4 1/2		
652	654	C & SH.	26449		2		64.5			1		
612	640	COMPOSITE # 1		12,604	28'	0.4	11.5	19.9	68.2	4	0.28	PETROGRAPHIC ANALYSIS
646	650	COMPOSITE # 2.		13,725	4'	0.7	12.3	17.9	69.1	5 1/2	0.45	
612	650	COMPOSITE #3.		13,744	38'	0.5	18.0	19.8	61.7	4	0.25	

Diamond Drill Geological Log

RH-1527

Objective:

Sampled:

Logged By: R.K. Date: October/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		CLODE PIT			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG.

From	To	Discard:	
0	9		Shattered/broken rock.
9	14		S.S.
14	48		Mudstone
48	90		Mostly siltstone, sandstone near top.
90	92		Coal 2'
92	107		Shaley siltstone.
107	120		Mudstone
120	140		Siltstone, grading progressively to SS near bottom.
140	220		S.S.
220	229		Mudstone
229	300		Siltstone, with bands of mudstone and sandstone
300	328		Sandstone with silty intervals.
328	360		Mudstone
360	366		Siltstone
366	378		Mudstone
378	393		Coal 15' SEAM - R7
393	427		Mudstone, siltstone bands in lower half portion.
427	447		Coal 20' SEAM - R5
447	492		Mudstone near top, siltstone grading progressively to SS towards bottom PEAR S.S.
492	506		S.S.
506	584		Shaley siltstone
584	628		Mudstone, siltstone 594-598'

Core Size

Hole No. RH 1527

Page 1 of 2

Aver.

0

322

2507-

Diamond Drill Geological Log

Cominco

Objective:			Sampled:		
Logged By:	Date:		Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

From	To	Discard:		Reason:
628	666			Siltstone
666	727.5			Mudstone with silty intervals.
727.5	754			Coal 26.5' SEAM - R4
754	757.5			3.5' mudstone
757.5	761			Coal 3.5'
761	771			Mudstone
771	784			Sandstone
				END OF HOLE
				OCTOBER 9, 1978

Core Size

Hole No. RH 1527

Page 2 of 2

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
91	93		25701		2		30.1			1		
93	95		702		2		53.0			1		
95	97	C & SH.	25703		2		80.6			0		
380	382		25704		2		17.6			2 1/2		
382	384		705		2		9.7			6 1/2		
384	386	SEAM - R7	706		2		12.6			7		
386	388		707		2		16.6			6 1/2		
388	390		708		2		17.4			6 1/2		
390	392		709		2		18.2			5		
392	394		710		2		13.5			6 1/2		
394	396		25711		2		6.5			1.		
380	394.	SEAM - R7 "COMPO			14'	0.4	14.8	21.9	62.9	6	0.45	PETROGRAPHY
430	432		25712		2		24.3			5 1/2		
432	434		713		2		12.3			6 1/2		
434	436		714		2		22.7			2		
436	438		715		2		10.6			1 1/2		
438	440	SEAM - R5.	716		2		10.2			1 1/2		
440	442		717		2		12.0			6		
442	444		718		2		26.8			4		
444	446		719		2		28.8			1 1/2		
446	448		720		2		25.2			3		
448	450		721		2		48.6			1.		
430	448	SEAM - R5 "COMPO			18'	0.3	19.3	19.8	60.6	3 1/2	0.36	PETROGRAPHY

CLODE PIT.

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
730	732		25722		2		12.5			2 1/2		
732	734		723		2		15.0			4 1/2		
734	736		724		2		10.9			2		
736	738		25725		2		13.0			2 1/2		
738	740		25 727		2		16.0			1		
740	742	SEAM	728		2		14.2			1		
742	744		729		2		7.3			5		
744	746		730		2		9.7			1 1/2		
746	748	- R4.	731		2		7.3			3 1/2		
748	750		732		2		10.0			6 1/2		
750	752		733		2		7.1			6 1/2		
752	754		734		2		14.0			3 1/2		
754	756		735		2		43.0			1		
756	758		736		2		53.3			1		
758	760		737		2		18.1			4		
760	762		738		2		28.0			3		
762	764	C& SH.	739		2		73.1			1 1/2		
730	762	SEAM- R4 COMPO.			32	0.6	17.0	17.9	64.5	3	0.22	PETROGRAPHY.

Diamond Drill Geological Log

K- Forming 78(3)B-4

RH-1528

Objective:

Sampled:

Logged By: R.K. Date: October/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		CLODE PIT			

From	To	Discard:	Reason:
			INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	12		Siltstone and sandstone. (Casing 40', because of water flow at10')
12	35		Coal 23' (Not sampled) SEAM -r. 7
35	74		Mainly mudstone, some siltstone.
74	106		Coal with 4' mudstone parting 77-81' 32(28)' SEAM -r. 5
106	204		Mudstone
204	217		Silty Sandstone and siltstone
217	256		Mudstone, two 1' Shaley coal bands at 238' and 245.5'
256	292		Siltstone, mudstone 272-284'
292	327		Coal 35' SEAM - R7
327	357.5		Mudstone, siltstone band at 348'.
357.5	361		Coal 3.5'
361	375.5		Mudstone
375.5	399.5		Coal 24' SEAM - R5
399.5	404		Mudstone
404	405.5		Coal 1.5'
405.5	425		Mudstone
425	436		Siltstone, grading to sandstone towards bottom.
436	480		Sandstone, sandy siltstone near top. PEAR SS
480	495		Siltstn , 2' mdstn. near top.
495	507		Mudstone
507	513		Siltstone

Core Size

Hole No. RH 1528

Page 1 of 2

322

2507-

Diamond Drill Geological Log

Cominco

Objective:				Sampled:		
Logged By:		Date:		Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:	

40 Scale

Color Plot & Dips | Ore Classes & Aver.

From	To	Discard:	Reason:
513	530		Mudstone
530	537		Sandy siltstone
537	557		Mostly mudstone, some siltstone
557	589		Silty sandstone and siltstone, mudstone bands.
589	652		Sandstone, silty interval 604-622'
652	665		Sandy siltstone grading to mudstone towards bottom.
665	683		Coal 18'
683	686		3" mudstone } SEAM - R4
686	689		Coal 3' }
689	708		Mudstone
708	729		Sandstone
			END OF HOLE
			OCTOBER 18, 1978

Core Size

Hole No. RH 1528

Page 2 of 2

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
76	78		26935		2		24.9			6		
78	80											
80	82		26936		2		10.4			1 1/2		
82	84		26937		2		11.4			1		
84	86		938		2		12.6			2		
86	88		26939		2		10.7			5		
76	88	SEAM Y.5 COMPO.			10|2	0.4	13.7	20.6	65.3	3	0.39	
22	24		26940		2		20.5			6 1/2		
24	26		941		2		10.4			4		
26	28		942		2		—			—		
28	100		943		2		7.9			7		
100	102		944		2		19.5			7		
102	104		945		2		10.9			7 1/2		
104	106		946		2		10.7			7		
106	108		947		2		38.4			3		
108	110		26948		2		76.0			0		
92	108	SEAM-Y.5 COMPO.			14|16	0.3	16.6	21.4	61.7	6	0.41	
114	116		26949		2		70.6			0		
			26950		2		81.6			0		
244	246		26951		2		44.3			5 1/2		
248	248											

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
294	296		26952		2		19.7			3 1/2		
296	298		953		2		24.8			1		
298	300		954		2		31.8			4 1/2		
300	302		955		2		20.3			4 1/2		
302	304		956		2		7.7			1 1/2		
304	306		957		2		8.2			2		
306	308		958		2		10.2			5		
308	310		959		2		8.8			6 1/2		
310	312		960		2		13.0			7 1/2		
312	314		961		2		9.7			7 1/2		
314	316		962		2		16.0			4		
316	318		963		2		19.6			3 1/2		
318	320		964		2		35.5			3		
320	322		965		2		12.7			2		
322	324		966		2		9.0			7		
324	326		967		2		12.7			7		
326	328		968		2		59.3			1 1/2		
328	330		26969		2		68.1			1		
294	326	SEAM - R7 *COMPO.			32'	0.3	16.7	21.1	61.9	4 1/2	0.41	PETROGRAPHY
371	373		26970		2		28.4			1		
376	378		26971		2		42.2			1		
378	380		972		2		81.9			0		
380	382		973		2		27.2			1		
382	384		974		2		31.4			1 1/2		
384	386		975		2		39.5			1		
386	388		26976		2		15.7			2		
388	390		26977		2		15.1			6 1/2		
390	392		26978		2		24.7			1		
392	394		26979		2		10.1			1 1/2		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
394	396		26980		2		—			—		
396	398		26981		2		4.6			3		
398	400		26982		2		22.0			3 1/2		
400	402		26983		2		20.4			1 1/2		
402	406		26984		4		24.3			1		
380	406	SEAM - R5 COMPO.			24/26	0.3	21.8	21.2	56.7	2	0.31	PETROGRAPHY
667	669		26985		2		18.1			3		
669	671		26986		2		22.5			3 1/2		
671	673		26987		2		6.2			5 1/2		
673	675		26988		2		11.2			3		
675	677		26989		2		8.2			4 1/2		
677	679		26990		2		8.1			6 1/2		
679	681		26991		2		8.0			6 1/2		
681	683		26992		2		13.0			5		
683	685		26993		2		53.6			1		
685	687		26994		2		39.2			4		
687	689		26995		2		10.8			6 1/2		
689	691		26996		2		43.3			2 1/2		
691	693		26997		2		51.8			1		
667	689	SEAM - R4 COMPO.			22	0.4	18.5	19.3	61.8	4 1/2	0.28	

Diamond Drill Geological Log

K-Footing 78(3)B-4

RH-1529

Cominco

Objective:

Sampled:

Logged By: R.K. Date: October/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		CLODE PIT			

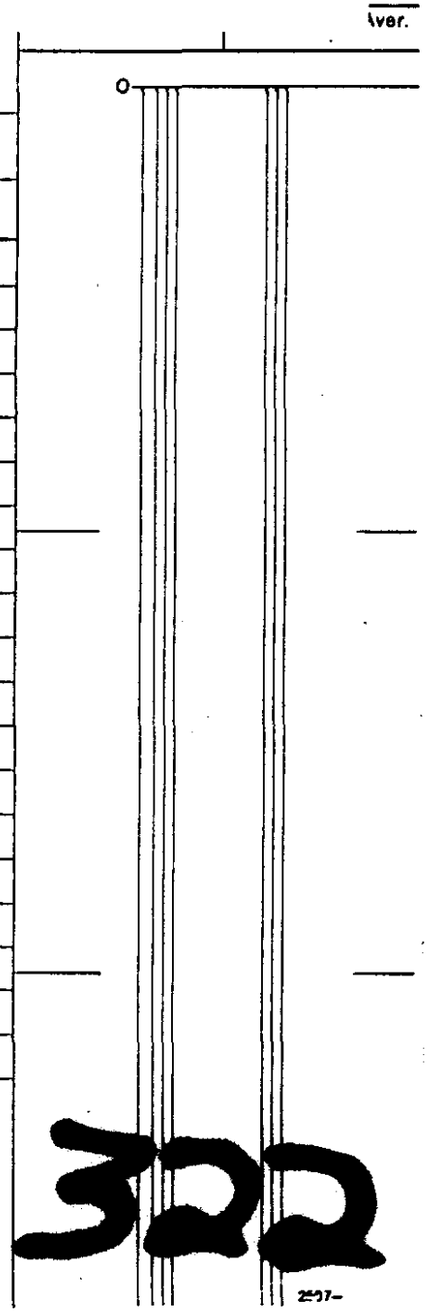
Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG

From	To	Discard:		
0	5			Mudstone (broken)
5	10			Coal 5'
10	14			Mudstone
14	16			Shaley coal 2'
16	29.5			Mudstone
29.5	31			Shaley coal 1.5'
31	44.5			Mudstone
44.5	72.5			Coal 28' SEAM - r.7
72.5	83.5			Mudstone, highly carbonaceous.
83.5	85			Coal 1.5'
85	111.5			Mudstone, siltstone band at 99'
111.5	114.5			Coal 3'
114.5	118			3.5' Mudstone } PART SEAM - r.5
118	124			Coal 6'
124	137			Mudstone
137	141			Siltstone
141	169			Sandstone, siltstone 160-165'
169	191			Siltstone, some mudstone
191	288.5			Mudstone, thin siltstone band at 268'
288.5	290.5			Coal 2'
290.5	303			Mudstone
303	314			Siltstone, sandy interval near top.
314	339			Mudstone

Core Size

Hole No. RH 1529

Page 1 of 2



322

Diamond Drill Geological Log

Cominco

Objective:			Sampled:			
Logged By:	Date:		Composites:			
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:	

From	To	Discard:		Reason:
339	360			Coal 21' SEAM - R7
360	390.5			Mudstone
390.5	424.5			Coal 34' SEAM - R5
424.5	429.5			Mudstone
429.5	431			Coal 1.5'
431	458			Mudstone near top grading progressively to siltstone and silty sandstone towards bottom (PEAR S.S.)
458	510			Sandstone
510	517			Mudstone
517	535			Sandy siltstone and siltstone near bottom; Sandstone 519-522'
535	598			Mostly mudstone with siltstone interbeds throughout
598	644			Interbedded siltstone and sandstone
644	676			Sandstone
676	702			Siltstone and silty mudstone
702	733			Coal with 2' mudstone band at 726' 31(29)' SEAM - R4
733	756			Siltstone near top and mudstone
756	771			Sandstone
				END OF HOLE
				OCTOBER 16, 1978

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

Core Size

Hole No. RH 1529

Page 2 of 2

2507—

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
31	33		25784		2		63.0			1 1/2		
33	35		785		2		53.0			1		
49	51		25786		2		14.6			5 1/2		
51	53		787		2		10.8			6 1/2		
53	55		788		2		13.6			7 1/2		
55	57		789		2		9.6			6		
57	59		790		2		6			6		
59	61		791		2		12.8			6 1/2		
61	63		792		2		13.1			6 1/2		
63	65		793		2		11.4			7		
65	67		794		2		13.0			7		
67	69		795		2		13.2			7		
69	71		796		2		12.0			6 1/2		
71	73		797		2		13.6			6 1/2		
73	75		798		2		33.6			5 1/2		
75	77		25799		2		60.8			1		
49	75	SEAM - 4.7 COMPO.			26'	0.4	14.0	22.2	63.4	6 1/2	0.43	
112	114		25751		2		34.2			1		
114	116		752		2		—			—		
119	122		25753		3		19.7			1 1/2		
122	125		754		3		26.0			2		
125	127		755		2		66.5			1/2		
119	125	SEAM - 4.5 COMPO.			6'	0.2	22.5	18.3	58.4	2	0.68	
289	291		25756		2		7.4			6		
291	293		757		2		73.2			1		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	BT.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
340	342		25758		2		20.1			2 1/2		
342	344		759		2		16.5			6 1/2		
344	346		760		2		9.2			7		
346	348		761		2		11.3			5 1/2		
348	350		762		2		18.5			6		
350	352		763		2		16.4			4 1/2		
352	354		764		2		36.1			1 1/2		
354	356		765		2		14.9			1 1/2		
356	358		766		2		10.5			6		
358	360		767		2		16.0			7		
360	362		768		2		70.2			1		
362	364		25769		2		75.1			1/2		
340	360	SEAM R7 ✓ COMPO			20	0.4	17.0	20.6	62.0	5	0.35	PETROGRAPHY
393	395		25770		2		68.1			1		
395	397		771		2		29.7			3 1/2		
397	399		772		2		30.6			1 1/2		
399	401		773		2		32.8			1		
401	403		774		2		20.7			3 1/2		
405	407		25775		2		16.2			6		
407	409		25826		2		11.1			1 1/2		
411	413		25827		2		22.0			1		
413	415		828		2		21.2			1		
415	417		829		2		14.6			3		
417	419		830		2		13.0			5		
419	421		831		2		15.0			7		
421	423		832		2		12.6			4		
423	425		833		2		15.7			4		
425	427		25 834		2		23.8			3		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
					28/32	0.2	19.7	20.8	59.3	2 1/2	0.32	PETROGRAPHY
395	427	SFAM- RS COMPO.										
431	433		25855		2		19.4			2		
704	706		25836		2		22.0			2 1/2		
706	708		837		2		13.7			1 1/2		
708	710		838		2		15.8			2		
710	712		839		2		—			—		
712	714		840		2		12.5			2		
714	716		841		2		6.0			6 1/2		
716	718		842		2		10.5			3		
718	720		843		2		6.8			6 1/2		
720	722		844		2		8.8			7		
722	724		845		2		6.1			6 1/2		
724	726		846		2		13.0			6		
726	728		847		2		74.1			1/2		
728	730		848		2		37.1			3 1/2		
730	732		849		2		16.0			7		
732	734		25850		2		21.4			4 1/2		
734	736	COM. OCT. 15 '78 GLODE PIT.			2		47.4			1		
704	734	SFAM-RA COMPO.			28/30	0.3	18.4	19.1	62.2	3 1/2	0.34	PETROGRAPHY.

Diamond Drill Geological Log

K-FORDING 78(3)13-4

RH-1530

Objective:

Sampled:

Logged By: R.K. Date: October/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		CLODE PIT			

Discard: Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG.

From	To	Discard		Description
0	2			Broken rock or fill
2	29			Coal 27' SEAM - 7
29	51			Mudstone
51	60			Siltstone
60	71			Mudstone
71	78.5			Coal 7.5' Upper part SEAM - r.7
78.5	161			Mudstone, siltstone 86-98'
161	204			Sandstone, sandy siltstone intervals in upper half portion
204	305			Mudstone, siltstone bands near top
305	307.5			Coal 2.5'
307.5	346			Mudstone, shaley siltstone 319-325'
346	388			Interbedded mudstone and siltstone, mudstone near bottom
388	410			Coal 22' SEAM - R7
410	439			Mudstone
439	447			Coal 8'
447	452.5			5.5' Mudstone
452.5	474.5			Coal 22' SEAM - R5
474.5	494			Mudstone, coal stringers at 480' and 483'
494	558			Sandstone, siltstone near top PEAR S.S.
558	625			Mudstone, siltstone band at 564'
625	711			Interbedded siltstone and sandstone with shaley intervals
711	735			Siltstone
735	765			Coal 30' SEAM - R4

Core Size

Hole No. RH 1530

Page 1 of 2

322

2507-

Diamond Drill Geological Log

Cominco

Objective:				Sampled:	
Logged By:	Date:			Composites:	
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:

40 Scale

Color Plot & Dips | Ore Classes & Aver.

From	To	Discard:	Reason:
765	769		Mudstone
769	772		Coal 3'
772	789		Siltstone, some mudstone near top
			END OF HOLE
			OCTOBER 22, 1978

Core Size

Hole No. RH 1530

Page 2 of 2

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
3	5		25901		2		14.4			4		
5	7		902		2		14.4			5 1/2		
7	9		903		2		17.1			2 1/2		
9	11		904		2		19.0			1 1/2		
11	13		905		2		15.5			5 1/2		
13	15		906		2		14.5			4		
15	17		907		2		13.6			3		
17	19		908		2		14.6			3 1/2		
19	21		909		2		9.8			7 1/2		
21	23		910		2		10.4			7 1/2		
23	25		911		2		10.6			7		
25	27		912		2		16.6			6 1/2		
27	29		25913		2		18.0			6		
3	29	SEAM-7. COMPO.			26	0.7	14.0	21.8	63.5	5	0.33	
60	62		25914		2		72.9			1		
71	73		25915		2		20.4			1		
73	75		916		2		22.3			1		
75	77		917		2		20.1			1 1/2		
77	79		918		2		13.2			6 1/2		
79	81	C & SM.	25919		2		68.2			1/2		
71	79.	SEAM- 7 pt. COMPO.			8	0.5	19.2	18.5	61.8	3 1/2	0.35	
306	309		25920		3		29.4			6 1/2		
389	391		25921		2		21.2			6 1/2		
391	393		922		2		12.1			8		
393	395		923		2		15.4			1		
395	397		924		2		10.4			2 1/2		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
397	399		25925		2		8·4			7 1/2		
399	401		926		2		13·1			7		
401	403		927		2		11·2			7 1/2		
403	405		928		2		21·2			5		
405	407		929		2		12·3			5 1/2		
407	409		930		2		8·2			7		
409	411		931		2		—			—		
411	413		932		2		64·7			1		
389	409	SEAM-R7 CAMPO.			20	0·3	13·8	21·2	64·7	6	0·29	
440	442		25933		2		27·3			2 1/2		
442	444		934		2		27·8			4 1/2		
444	446		935		2		7·0			7		
446	448		25936		2		24·0			6 1/2		
455	459		25937		4		18·0			6 1/2		
459	461		938		2		14·7			7		
461	463		939		2		16·4			3		
463	465		940		2		8·2			1		
465	467		941		2		11·0			2 1/2		
467	469		942		2		11·0			2 1/2		
469	471		943		2		11·1			5 1/2		
471	473		944		2		22·5			3		
473	475		945		2		20·5			1 1/2		
475	477		946		2		52·9			1		
477	478		25947		1		69·0			1/2		
455	475	SEAM-R5 CAMPO.			20	0·4	15·2	19·9	64·5	3	0·33	

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
737	739		25948		2		12.4			4		
739	741		949		2		14.4			2 1/2		
741	743		25950		2		9.5			3 1/2		
743	745		951		2		16.0			2 1/2		
745	747		952		2		14.8			5		
747	749		953		2		9.4			3		
749	751		954		2		4.6			6 1/2		
751	753		955		2		7.5			2		
753	755		956		2		6.7			4 1/2		
755	757		957		2		5.6			7		
757	759		958		2		6.1			7 1/2		
759	761		959		2		7.5			8		
761	763		960		2		5.4			4		
763	765		961		2		12.5			4 1/2		
765	767	C & SH.	25962		2		61.0			1		
737	765	SEAM - R4 COMPO.			28	0.8	9.3	19.8	70.1	4 1/2	0.32	
771	773		25963		2		24.8			5		
773	775		964		2		56.6			1		
775	776	C & SH.	25965		1		44.9			1		

Diamond Drill Geological Log

K-FORDING 78(3)B-4

RH-1531

Cominco

Objective:

Sampled:

Logged By: R.K. Date: October/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		CLODE PIT			

From	To	Discard:		Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	2			Broken/loose rock or fill
2	46			Coal with 2' shale band at 38' SEAM - 4
46	93			Interbedded siltstone and mudstone
93	100			Sandstone
100	102			Coal 2'
102	120			Shaley siltstone and siltstone
120	122			Coal 2'
122	129.5			Mudstone near top and sandstone
129.5	130.5			Coal 1'
130.5	213			Sandstone, possible fault zone, near 208'/213'
213	229.5			Coal 16.5 (15)'; 1.5' shale at 225' SEAM - R5
229.5	262			Mudstone
262	303			Mostly siltstone, some mudstone and silty sandstone near top.
303	322			Mudstone
322	380			Siltstone, sandy interval near bottom.
380	609			Sandstone with occasional thin bands of siltstone.
609	619			Coarse grained sandstone.
619	623.5			Coal 4.5 PART SEAM - R4?
623.5	640			Siltstone
640	714			Sandstone
714	719			Coal 5' SEAM - R2
719	736			Mudstone
736	740.5			Coal 4.5 SEAM - R1
740.5	759			Basal Sandstone

END OF HOLE
OCTOBER 27, 1978

Core Size

Hole No. RH 1531

Page 1 of 1

322

ses & Aver

0

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
101	103	C & SH.	25966		2		75.7			0		
120	122		25967		2		13.4			7 1/2		
122	124		968		2		41.8			6 1/2		
124	125		25969		1		71.6			1/2		
130	131		25970		1		41.5			6 1/2		
215	217		25971		2		NO	SAMP	LE			
217	219		972		2		28.8			1		
219	221		973		2		25.5			1/2		
221	223		974		2		33.4			1		
223	225		975		2		30.4			2 1/2		
225	227		976		2		75.6			0		
227	229		977		2		15.6			2 1/2		
229	230		25978		1		55.2			1/2		
217	229	SEAM - R5 COMPO.			12	0.1	34.7	17.5	47.7	1 1/2	0.24	
621	623		25979		2		8.9			6		
623	625		980		2		46.0			1 1/2		
625	626		25981		1		72.9			1/2		
621	623		25979		2	0.3	9.1	19.4	71.2	5 1/2	0.57	
714	716		25982		2		57.6			1		
716	718		25983		2		11.5			7 1/2		
718	720		25984		2		24.1			7		
716	720	SEAM - R2 COMPO.			4	0.3	18.0	20.4	61.3	7	0.47	
726	728		25985		2		74.3			0		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
736	738		25986		2		18·3			7		
738	740		25987		2		15·8			7		
736	740	SEAM-R.1 COMPO.			4	0·2	17·6	20·1	62·1	6 1/2	0·54	

Diamond Drill Geological Log

K- Fording 78(3)B-4

RH 1532

Cominco

Objective:

Sampled:

Logged By: R.K. Date: December/78

Composites:

Color Plot & Dips | Ore Classes & Aver.

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		CLODE PIT			

Reason: INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG

From	To	Discard:		
0	5			Broken rock
5	14.5			Mudstone
14.5	37.5			Coal 23' SEAM - r7
37.5	66			Mudstone, some siltstone
66	76.5			Coal 10.5' SEAM - r.5 (part)
76.5	89.5			Mudstone
89.5	110			Coal 20.5' SEAM - r.5
110	167.5			Mudstone
167.5	177			Coal 9.5'
177	183.5			6.5' mudstone
183.5	200			Coal 16.5'
200	213			Mudstone
213	220			Coal 7'
220	286.5			Mudstone
286.5	302			Coal 15.5' SEAM - R5
302	305			Mudstone
305	306			Coal 1'
306	312			Siltstone
312	341.5			Mudstone
341.5	354			Coal 12.5' SEAM - R7
354	385.5			Mudstone
385.5	404.5			Coal 19' SEAM - R5
404.5	409.5			Mudstone

Core Size

Hole No. RH 1532

Page 1 of 2

322

2507-

Diamond Drill Geological Log

Cominco

Objective:				Sampled:		
Logged By: R.K.		Date: December/78		Composites:		
Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:	

40 Scale

Color Plot & Dips | Ore Classes & Aver.

0

From	To	Discard:		Reason:
409.5	412			Coal 2.5'
412	430			Mudstone
430	442			Siltstone } PEAR S.S.
442	459			Sandstone }
				END OF HOLE

Core Size

Hole No. RH 1532

Page 2 of 2

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
21	23		26851		2		11.8			7		
23	25		852		2		16.5			7 1/2		
25	27		853		2		33.7			2		
27	29		854		2		15.8			5		
29	31		855		2		11.5			7 1/2		
31	33		856		2		25.8			6 1/2		
33	35		857		2		16.7			3 1/2		
35	37		858		2		11.1			6 1/2		
37	39		859		2		17.7			7		
39	40		860		1		46.4			5 1/2		
41	43		26861		2		67.4			1		
43	45	C & SH.	26862		2		79.9			1/2		
21	40	SEAM - Y.7 COMPO.			15	0.2	20.5	22.4	56.9	6	0.70	
68	70		26863		2		39.9			2		
70	72		864		2		8.4			7 1/2		
72	74		865		2		10.4			5 1/2		
74	76		866		2		27.8			2 1/2		
76	78		867		2		9.5			6 1/2		
78	79	C & SH.	26868		1		67.1			1/2		
68	78	PART SEAM-Y.5 COMPO.			10	0.3	19.1	21.7	58.9	5	0.36	
83	85	C & SH	26869		2		60.4			1		
85	87	" "	26870		2		66.3			1		
87	89		871		2		70.2			1		
89	91		872		2		35.1			6 1/2		
91	93		873		2		15.8			6		
93	95		874		2		12.1			7 1/2		
95	97		26875		2		27.6			6 1/2		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
97	99		26876		2		12.6			7		
99	101		877		2		11.1			7 1/2		
101	103		878		2		11.2			7		
103	105		879		2		52.6			2 1/2		
105	107		880		2		32.4			6 1/2		
107	109		881		2		32.5			7		
109	111		882		2		8.6			7		
111	113	C & SH	883		2		28.4			7 1/2		
113	115	C & SH	884		2		68.8			1		
115	117	" "	885		2		64.0			1		
117	119		26886		2		74.6			1/2		
89	113	SEAM - Y.S COMPO.			24'	0.3	23.6	23.0	53.1	6 1/2	0.30	
129	130	C & SH.	26887		1		68.1			1		
167	169		26888		2		35.8			6		
169	171		889		2		34.3			6 1/2		
171	173		890		2		32.9			1		
173	175		891		2		33.5			1		
175	177		892		2		25.5			3 1/2		
177	179		26893		2		36.0			1		
167	179	* COMPO.			12'	0.2	32.9	20.0	46.9	3	0.28	PETROGRAPHY FOR 26888-900
185	187		26894		2		18.4			1 1/2		
187	189		895		2		30.3			1 1/2		
189	191		896		2		18.1			1		
191	193		897		2		25.8			5 1/2		
193	195		898		2		24.0			3		
195	197		899		2		17.8			1 1/2		
197	199	C & SH.	26900		2		24.7			1		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
199	201	C & SH	26501		2		44.9			1 1/2		
201	203	" "	502		2		53.0			1		
203	205	" "	26503		2		70.6			1/2		
185	199	COMPO.			14'	0.1	22.5	20.5	56.5	2	0.32	
208	210		26504		2		70.5			1/2		
211	213	C & SH.	26505		2		78.7			0		
213	215		506		2		40.7			3		
215	217		507		2		26.6			1 1/2		
217	219		508		2		38.3			1		
219	221		509		2		54.5			1		
221	223	C & SH.	26510		2		74.4			0		
213	219	COMPO			6'	0.3	35.7	23.6	40.4	1 1/2	0.35	
289	291		26511		2		34.6			1		
291	293		512		2		24.9			2		
293	295		513		2		18.3			1 1/2		
295	297		514		2		17.1			1		
297	299		515		2		18.4			1		
299	301		516		2		40.0			1		
301	303		517		2		16.3			4		
303	305		26518		2		32.8			3		
289	305	COMPO.			16'	0.2	24.8	19.1	55.9	2	0.32	PETROGRAPHY
343	345		26519		2		12.0			3		
345	347		520		2		6.7			6 1/2		
347	349		26521		2		10.7			6 1/2		

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
349	351		26522		2		15.8			7		
351	353		523		2		12.8 ✓			1 ✓		
353	355		524		2		28.5			5		
355	357		26525		2		29.3			3 1/2		
343	357	✓ COMPO.			14	0.3	16.5	21.5	61.7	4 1/2	0.33	PETROGRAPHY ✓
386	388		26526		2		14.1			7 1/2		
388	390		527		2		30.4			4 1/2		
390	392		528		2		8.7			7 1/2		
392	394		529		2		18.3 ✓			2 ✓		
394	396		530		2		13.7 ✓			2 1/2 ✓		
396	398		531		2		7.5 ✓			1 1/2 ✓		
398	400		532		2		12.5			6		
400	402		533		2		17.1			7		
402	404		534		2		27.8			2		
404	406		26535		2		19.7			1		
386	406	SEAM - RS ✓ COMPO.			20	0.5	17.2	20.3	62.0	4	0.40	PETROGRAPHY ✓
411	413		26536		2		22.9			1 1/2		

Diamond Drill Geological Log

K-FORDING 78|3|B-4

Cominco

RH-1533

Objective:

Sampled:

Logged By: R.K. Date: December/78

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		CLODE PIT			

Color Plot & Dips | Ore Classes & Aver.

From	To	Discard:	Reason:
			INTERSECTIONS TAKEN FROM GAMMA RAY-NEUTRON LOG
0	62		Broken Rock
62	89.5		Siltstone
89.5	95		Coal 5.5'
95	97		2' Mudstone SEAM - r.5
97	101		Coal 4'
101	106		Mudstone
106	108		Coal 2'
108	142		Mudstone, siltstone near bottom
142	234		Sandstone
234	302		Silty mudstone, some siltstone
302	310		Sandstone
310	322		Mudstone
322	324.5		Coal 2.5'
324.5	354.5		Mudstone
354.5	358.5		Coal 4' part SEAM - R7
358.5	388.5		Mudstone
388.5	413.5		Coal 25' SEAM - R5
413.5	468		Mudstone near top, interbeds of mudstone and siltstone
468	512		Sandstone
512	608		Mostly mudstone with intervals of siltstone
608	628		Siltstone, sandy towards bottom.
628	644		Sandstone.
			END OF HOLE

Core Size

Hole No. RH 1533

Page 1 of 1

322

2507-

ROTARY DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	B.T.U.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
92	94		27051		2		27.6			1		
94	96		052		2		26.8			1		
96	98		053		2		64.3			1		
		PART SEAM - R.5										
99	101		054		2		33.9			2 1/2		
101	103		055		2		32.9			3 1/2		
103	105		056		2		64.1			1/2		
105	107		057		2		63.2			1/2		
107	109		058		2		41.7			2 1/2		
109	111		27059		2		51.6			1		
92	103	COMPO. SEAM R.5			10/11'	0.4	39.2	17.9	42.5	1	0.28	
356	358	Partings & F.S.S. →	27060		2		23.2			6 1/2		
358	360		27061		2		45.8			1 1/2		
356	358		27060		2	0.4	23.1	19.3	56.6	6 1/2	0.38	
391	393		27062		2		36.0			1		
393	395		063		2		41.4			1 1/2		
395	397		064		2		31.0			2		
397	399		065		2		42.9			2		
399	401		066		2		25.5			1 1/2		
401	403		067		2		19.5			1		
403	405		068		2		26.9			4		
405	407		069		2		22.3			1 1/2		
407	409		070		2		34.0			1 1/2		
409	411	C & SH	27071		2		40.3			1		
411	413	" "	072		2		24.8			1 1/2		
413	415	" "	27073		2		59.7			1		
391	413	SEAM - R.5 COMPO.			22'	0.4	32.0	20.4	47.2	1 1/2	0.32	

Diamond Drill Geological Log

K-FORDING 78(3)B-4

RH 1550

Objective:

Sampled:

Logged By:

Date: Oct ' 78

Composites:

Color Plot & Dips

Block:	Sect.:	Place: Brownie / Kilmarnock Ck. Area	App. Bear:	App.: Dip.:	Length:

From	To	Discard:	Reason:
			NO RADIATION LOG - INTERSECTIONS FROM DRILLER REPORT
0	8	Overburden	
8	13	Clay and boulders	
13	20	Gravel	
20	49	Fractured sandstone	
49	57	Siltstone	
57	74	Sandstone	
		HOLE SKIDDED AND REDRILLED	
0	9	Sand and boulders	
9	42	Fractured sandstone and gravel.	
		Hole abandoned at 42' as gravel encountered below casing and hole became unstable to drill any deeper.	
		SEPTEMBER 10/78	

Core Size

Hole No. RH 1550

Page 1 of 1

322

RH-1551

Diamond Drill Geological Log

K-FERDINE 78(3)3-4

Cominco

Objective:

Sampled:

Logged By: Date:

Composites:

Block:	Sect.:	Place:	App. Bear:	App.: Dip.:	Length:
		BROWNIE CREEK (KILMARNOCK CREEK AREA)			

From	To	Discard: Reason:
		0-85' INTERSECTION TAKEN FROM GAMMA RAY-NEUTRON LOG
0	8	Overburden (driller sand and boulders); Casing - 11'
8	76	Cherty sandstone, extremely hard, very slow drilling
76	94	Sandstone, hard, slow drilling.
		HOLE ABANDONED AT 94'
		SEPTEMBER 9/78

Core Size

Hole No. RH 1551

Page 1 of 1

40 Scale

Color Plot & Dips	Ore Classes & Aver.

0

322

RH-2000

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
198	200		17839			2		27·3			3		
200	202		17840			2		15·2			3		
198	202	✓COMPOSITE				4'	0·4	21·5	22·3	55·8	6	0·54	
205	207		17841			2		24·7			7		
207	209		17842			2		26·5			4 1/2		
205	209	✓COMPOSITE				4'	0·5	25·3	19·6	54·6	5 1/2	0·46	
213	215		17843			2		53·5			1		
215	217		17844			2		41·3			4		
217	219		17845			2		47·3			1 1/2		
219	221	CC & Sh	17846			2		71·3			1		
221	223		17847			2		20·6			2 1/2		
223	225		17848			2		15·5			1		
225	227		17849			2		21·3			3 1/2		
221	227	V. PART SEAM-7 ✓COMPOSITE		12,	731	6	0·4	19·9	19·5	60·2	2	0·46	
229	231		17850			2		51·3			1		
231	233		17851			2		32·4			1		
233	235		17852			2		29·4			1		
235	237		17853			2		21·9			1		
237	239		17854			2		18·6			3 1/2		
239	241		17855			2		28·1			1		
241	243		17856			2		32·7			1 1/2		
243	245		17857			2		33·4			1		
245	247		17858			2		26·8			4 1/2		
233	247	SEAM — 7 ✓COMPOSITE		12,0	38	14	0·4	27·1	21·5	53·6	2	0·38	
278	280		17859			2		48·3			1		
280	282		17860			2		46·9			2 1/2		
282	284		17861			2							

322

CASTLE MT.

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
													552-570 [1]
554	556		19738			2		18.8			1 1/2		COAL 18'
556	558		19739			2		16.9			1 1/2		
558	560		19740			2		15.3			1		
560	562		19741			2		17.2			2 1/2		
562	564		19742			2		23.3			4		
564	566		19743			2		28.3			4 1/2		
566	568		19744			2		27.5			2		
568	570		19745			2		30.0			2		
570	572		19746			2		17.3			1		
554	572	SEAM - 5 COMPOSITE		12,214		18'	0.4	21.0	18.9	59.7	2	0.32	
610	612		20176			2		29.8			2 1/2		
612	614		20177			2		20.9			3		
614	616		20178			2		13.0			3 1/2		
616	618		20179			2		28.7			2		
610	618	SEAM - 5 V COMPOSITE		11,577		8'	0.4	22.6	17.5	59.5	2 1/2	0.48	
621	623		20180			2		65.1			1/2		
623	625		20181			2		53.5			1/2		
625	627		20182			2		43.4			1/2		
627	629		20183			2		35.0			1/2		
629	631		20184			2		36.5			1		
627	631	COMPOSITE		9,242		4'	0.5	34.6	16.8	48.1	1	0.42	

DIAMOND DRILL SAMPLING RECORD

RH-2009

K-FORDING 78(3)B-4

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
86	88		21095			2		54.4			2½		RAD LOG
88	89		21096			1		54.6			1		
120	122		21097			2		72.0			1		
300	302		21098			2		32.1			1½		
302	304		21099			2		30.2			4		
300	304	COMPOSITE				4'	0.5	31.3	18.7	49.5	3	0.43	
396	398		17301			2		17.9			7		
398	400	C&Sh	17302			2		26.6			1		398-408' COAL
400	402		17303			2		23.3			3		10'
402	404		17304			2		9.0			2½		
404	406		17305			2		11.9			1½		
406	408		17306			2		24.8			4		
408	410		17307			2		78.1			½		
396	408	SEAM-7 ✓ COMPOSITE		12,	754	12'	05	18.5	19.7	61.3	2½	0.40	
440	442	C&Sh.	17308			2		44.6			1		
451	453	C&Sh.	17309			2		74.1			½		
562	564	C&Sh.	1730			2		SAMPLE		LOST			
564	566	" "	17311			2		38.4			4		
567	569	C&Sh.	17312			2		14.7			1		562-577 COAL 15'
569	571	" "	17313			2		22.6			2½		
571	573	" "	17314			2		14.1			2		

323

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
573	575	C & Sh.	17315			2		12.1			2		
575	577	" "	17316			2		32.8			3		
567	577	SEAM - 5 COMPOSITE		12,398		10'	0.6	18.9	18.3	62.2	1 1/2	0.56	
627	629		17317			2		10.5			6		
629	631		17318			2		7A.7			1/2		
631	633		17319			2		30.1			4 1/2		
633	635		17320			2		68.3			1		
635	637		17321			2		58.2			1/2		
637	639		17322			2		33.5			1/2		
639	641		17323			2		64.8			1/2		
641	643		17324			2		69.2			0		
643	645		17325			2		51.7			1/2		
645	647												
647	649												
649	651												
627	629		17317			2	0.5	10.2	20.4	68.9	5 1/2	0.48	
631	633		17319			2	0.5	30.4	17.7	51.4	4	0.61	
654	656												
677	679												
679	681												
681	683												
683	685												
685	687												

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
691	693												
693	695												
750	752		21138			2		10.7			6 1/2		
752	754		21139			2		13.5			8		746.5' - 757.5' Coal.
754	756		21140			2		14.4			8 1/2		11'
750	756	SEAM-2 (PART) COMPOS		12,703		6.	0.2	12.8	22.0	65.0	8	0.49	

RH-2011

DIAMOND DRILL SAMPLING RECORD

K-FORDING 7863B-4

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
131	133		19690			2		44.3			3½		
147	149		19691			2		56.3			1		
171	173		19692			2		53.4			1		
173	175		19693			2		40.4			2		
175	177		19694			2		39.3			3½		
194	196		19695			2		71.8			1		
416	418	C & Sh.	19696			2		78.4			½		
502	504		19697			2		56.7			1		
504	506		19698			2		33.6			1½		
506	508		19699			2		23.8			1		
508	510		19700			2		23.0			1		
510	512		19726			2							
512	514		19727			2							
514	516		19728			2		27.1			1		
516	518		19729			2		22.0			1		
518	520		19730			2		12.2			1		
520	522		19731			2		11.2			1		
522	524		19732			2		10.3			1		
524	526		19733			2		17.3			1		
526	528		19734			2		13.5			1½		
528	530	C & Sh.	19735			2		20.5			4		
504	530	SEAM - 7 COMPOSITE		11,909	22/24	0.4		20.4	18.2	60.6	1	0.42	4 SAMPLE LOT *

522

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
575	581	C&Sh.	19736			2		62.0			1		
581	583		19737			2		55.0			1		

RH-2012

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
200	202		21151			2		47.8			1		
202	204		21152			2		31.4			1 1/2		
204	206		21153			2		17.0			1		
206	208		21154			2		17.4			2 1/2		
208	210		21155			2		26.2			1 1/2		
210	212		21156			2		30.4			1		
212	214		21157			2		15.2			1 1/2		
214	216		21158			2		12.3			1 1/2		
216	218		21159			2		20.4			2		
202	218	SEAM-7 ✓COMPOSITE		11,687		16	0.6	22.2	18.1	59.1	1 1/2	0.38	
401	403		21160			2		31.4			4		
403	405		21161			2		18.4			7 1/2		
405	407		21162			2		50.8			2		
407	409		21163			2		54.7			4 1/2		
409	410	C & Sh.	21164			1		52.4			4 1/2		
401	405	COMPOSITE				4	0.6	25.0	19.5	54.9	5 1/2	0.50	
415	417		21165			2		14.5			2 1/2		BTU 11,862
417	419		21166			2		20.7			5 1/2		
415	417	COMPOSITE				4	0.6	18.1	19.3	62.0	3 1/2	0.55	
467	469		21167			2		51.5			1		
477	479		21168			2		38.8			2		
479	481		21169			2		52.0			2 1/2		

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
492	494		21170			2		60.0			1		
494	496		21171			2		50.4			1 1/2		
496	498		21172			2		34.5			3 1/2		
498	500		21173			2		28.5			3		
500	502		21174			2		44.0			1		
496	500	COMPOSITE		9,515		4'	0.3	31.9	21.2	46.6	.3	0.40	
506	508		21175			2		40.4			1 1/2		
564	566		21201			2		34.0			1 1/2		
566	568		21202			2		15.8			7 1/2		
568	570		21203			2		21.0			8 1/2		
570	572		21204			2		20.4			5 1/2		
572	574		21205			2		17.4			2 1/2		
574	576		21206			2		12.9			3		
576	578		21207			2		24.8			7		
578	580		21208			2		73.0			1/2		
564	578	SEAM-2 COMPOSITE		12,158		14'	0.3	21.0	19.1	59.6	4 1/2	0.46	
591	593	CESH.	21209			2		77.3			0		
593	595	" "	21210			2		60.0			1		
595	597	" "	21211			2		—			—		
597	598	" "	21212			1		—			—		

KA-2013

DIAMOND DRILL SAMPLING RECORD

K-FORDING 78(3)B-4

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
38	40		21101			2		17.7			2 1/2		
40	42		21102			2		23.2			7		
42	44	CE SM.	21103			2		43.0			5		
38	42	COMPOSITE				4'	0.3	20.4	21.8	57.5	4 1/2	0.60	
52	54		21104			2		19.1			4 1/2		
54	56		21105			2		18.8			3		
56	58		21106			2		13.7			5		
59	61		21108			2		18.9			6		
61	63		21109			2		24.5			6 1/2		
63	65		2110			2		10.0			2 1/2		
65	67		21111			2		20.0			1 1/2		
67	69		21112			2		12.7			6		
69	71		21113			2		23.2			1 1/2		
71	73		21114			2		31.0			1 1/2		
73	74		21115			1		57.7			1/2		
52	73	SEAM 3 COMPOSITE		11,139	20/21		0.3	19.6	22.2	57.9	3 1/2	0.34	
183	185		21116			2		54.5			3		
185	187		21117			2		66.4			1		
409	411		21118			2		32.5			2 1/2		
411	413		21119			2		32.5			2 1/2		
413	415		21120			2		45.6			2 1/2		
409	413	COMPOSITE				4'	0.2	32.8	18.0	49.0	2	0.59	

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET BTU	WIDTH	M	A	VM	FC	FSI	S	REMARKS
495	495		21121		2		47.7			1		
495	497		21122		2		21.2			1 1/2		
497	499		21123		2		16.8			2		
499	501		21124		2		25.5			4 1/2		
501	503		21125		2		39.0			1		
503	505		21226		2		23.9			2		
505	507		21227		2		12.3			1 1/2		
507	509		21228		2		21.4			1 1/2		
509	511		21229		2		13.8			2		
511	513		21230		2		51.5			2		
495	511	SEAM - 7 COMPOSITE		12,101	16	0.2	21.3	18.6	59.9	2	0.34	
694	696											
696	698											
698	699											
754	756		21232		2		28.7			2 1/2		
756	758		21233		2		55.8			1		
758	760		21234		2		33.0			5		
760	762		21235		2		28.2			6		
762	764		21236		2		21.7			3		
764	766		21237		2		29.2			2 1/2		
766	768		21238		2		42.0			3 1/2		
768	770		21239		2		45.2 ✓			1	✓	CHECKED: FEB 78
770	771		21240		1		61.5			1		
754	766	COMPOSITE		10,883	12	0.3	33.3	17.5	48.9	2 1/2	0.28	
772	774		21241		2		36.1			1		
774	776		21242		2		20.2			2		
776	778		21243		2		29.9			2		
774	778	COMPOSITE		12,127	4	0.3	24.8	18.0	56.9	1 1/2	0.44	

DIAMOND DRILL SAMPLING RECORD

RH-2014

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET	BTU.	WIDTH	M	A	VM	FC	FSI	S	REMARKS
66	68	[illegible]	19711			2		49.1			3		
68	70	[illegible]	19712			2		63.6			1		
123	125		19713			2		13.2			2		
125	127		19714			2		19.2			5 1/2		
127	129		19715			2		50.4			2		
123	127	COMPOSITE		13	335	4	0.3	15.6	21.0	63.1	3	0.56	
129	131		19716			2		35.6			1 1/2		
131	133		19717			2		20.2			2		
133	135		19718			2		13.8			3 1/2		
135	137		19719			2		20.1			3 1/2		
137	139		19720			2		46.1			1 1/2		
139	141		19721			2		25.6			5		
141	143		19722			2		31.7			1 1/2		
143	145		19723			2		27.2			1		
145	147		19724			2		16.0			5		
147	149		19725			2		18.1			3		
177	179		19676			2		20.6			2		
179	181		19677			2		22.1			1 1/2		
181	183		19678			2		20.1			2		
183	185		19679			2		17.5			1 1/2		
185	187		19680			2		18.6			4		
187	189		19681			2		20.6			1 1/2		
189	191		19682			2		23.9			1		
191	193		19683			2		15.4			5		
193	195		19684			2		18.1			2		
195	197		19685			2							
197	199		19686			2							
199	201		19687			2		31.3			2 1/2		
157	201	BEAM-9 COMPOSITE		11,336	40	44	0.3	23.9	19.7	56.1	.2	0.31	

332

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
237	239	C & Sh.	19688			2		63.1			1½		
239	241	" "	19689			2		71.4			1		
573	575		21216			2		43.5			1		
575	577		21217			2		87.6			0		
577	579		21218			2		88.4			0		
623	625		21219			2		59.5			1/2		
625	627		21220			2		35.3			1		
627	629		21221			2		15.1			1		
629	631		21222			2		27.6			2		
631	633		21223			2		18.5			2		
633	635		21224			2		26.2			2		
635	637		21225			2		32.1			2		
625	637	SEAM-7 COMPOSITE				12	0.3	25.5	17.7	56.5	1	0.41	

DIAMOND DRILL SAMPLING RECORD

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
641	643		21178			2		22.0			1		625-637 & 641-647
643	645		21179			2		19.5			1 1/2		
645	647		21180			2		25.3			5 1/2		
													BTU - 11,436
641	647	COMPOSITE				6	0.3	23.2	18.7	57.8	2	0.44	
720	722		21181			2		54.8			1/2		
722	724		21182			2		36.7			1		
724	725		21183			1		47.5			1		
731	733		21184			2		24.2			3 1/2		

RH-2017

DIAMOND DRILL SAMPLING RECORD

K-FORDING 78(3)8-4

FROM	TO	DESCRIPTION	SAMPLE NUMBER	SHORTS FEET		WIDTH	M	A	VM	FC	FSI	S	REMARKS
207	209												
209	211												
211	213												
213	215												
215	217	SEAM-7	19901			2		19.5			2 1/2		
217	219		19902			2		9.9			3		
219	221		19903			2							
221	223		19904			2		12.4			1 1/2		
223	225		19905			2		11.6			3		
225	227		19906			2		61.0			1		
215	225	SEAM-7 ✓COMPOSITE		12,859		8/10	0.3	13.9	19.7	66.1	2	0.40	
273	274		19907	19751		1		54.8			1		
279	280		19908	19752		1		57.4			1 1/2		
394	396	C & SH.	19909			2		47.3			3 1/2		
396	398	" "	19910			2		47.2			2 1/2		
398	400	" " P.A.o/s FSI →	19911			2		33.4			3		
400	401	" "	19912			1		50.3			1		
398	400		19911			2	0.3	31.7	16.1	51.9	2	0.44	
403	405		19913			2		16.8			1 1/2		
405	406		19914	19915		1		36.5			4 1/2		
403	406	SEAM-5. COMPOSITE		10,862		3	0.4	25.8	16.4	57.4	2 1/2	0.44	

322

CASTLE MT. Page No. 1 OF 1 Hole No. RH 2017