CONFIDENTIAL

GEOLOGICAL REPORT OF THE 1982

WOLF MOUNTAIN EXPLORATION PROGRAMME

VOLUME II

OPEN FILE

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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VOLUME II

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APPENDIX B.I

DESCRIPTIVE LOGS - ROTARY CUTTINGS

01-09

WOLF MOUNTAIN COAL LTD.

ROTARY DRILL HOLE - LOG OF CUTTINGS

HOLE No.: WM-RDH-82-01
PROJECT: Wolf Mountain
LOCATION: Nanaimo
DATE: July 28, 1982
ELEV. COLLAR: 662.90 m.
BEARING:
HOLE ANGLE: vertical
TOTAL DEPTH: 60.96 m.
CONTRACTOR: Ken's Drilling
LOGGED BY: J. Perry
SHEET No.: 1
CO-ORDS N: 13165.73987
E: 70837.83725

DEPTH (metres)	LITHOLOGICAL DESCRIPTION	DRILLER'S REMARKS
3.05	Conglomerate - granular to small pebble	Casing = 1.07 m.
6.10	Sandstone and Conglomerate - coarse grained	
	sandstone	
9.14	Conglomerate - granular	
12.19	Sandstone and Conglomerate - as above	
15.24	Conglomerate - granular	
18.29	- as above	
21.33	- as above	
24.38	- as above	
27.43	Conglomerate and Siltstone	
28.04	COAL and Shale - mainly coal, carbonaceous brown	(Seam W.2)
	shale	
29.56	Carbonaceous Shale - dark brown	
30.48	Shale and Siltstone	
32.61	COAL and Shale	Coal and Shale from 32.61 to 33.53 m.
33.53	COAL and Shale	
36.57	Shale - with small amount of coal	
38.71	COAL - with minor shale	(Seam W.1 - Wellington Seam)
39.62	Sandstone - coarse grained	
42.67	- as above	
45.72	- as above	
48.77	- as above - rusty surfaces, a few	
	pebbles	
51.81	- as above - medium grained	
54.86	- as above	
57.91	- as above, coarser. Some pebbles and	
	granules	
60.96	Sandstone - coarse grained	

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ROTARY DRILL HOLE - LOG OF CUTTINGS

HOLE No.: WM-RDH-82-02
PROJECT: Wolf Mountain
LOCATION: Nanaimo
DATE: July 29, 1982
ELEV. COLLAR: 643.37 m.
BEARING:
HOLE ANGLE: Vertical
TOTAL DEPTH: 77.72 m.
CONTRACTOR: Ken's Drilling
LOGGED BY: J. Perry
SHEET No.: 1
CO-ORDS N: 13554.24666
E: 71261.62811

DEPTH (metres)	LITHOLOGICAL DESCRIPTION	DRILLER'S REMARKS
3.05	Conglomerate - granular to small pebble	Casing = 2.13 m.
6.10	- as above	
9.14	- as above, small pebble	
12.19	- as above	
15.24	- as above, granular	
18.29	Sandstone - coarse grained, salt and pepper	
21.33	Shale - grey	
21.64	COAL and Shale - carbonaceous dark grey-brown shale	Coal from 21.64 to 24.08 m. (Seam W.3)
24.38	Siltstone	
27.43	Conglomerate - granular	
30.48	- as above	
33.53	- as above	
36.57	- as above	
39.62	Conglomerate and Sandstone - granular conglomerate	
	and coarse grained sandstone	
42.67	Conglomerate - granular to small pebble	
45.72	- as above	
48.77	- as above	
51.81	Sandstone - dark grey, coarse grained	
54.86	Conglomerate - granular to small pebble	
56.39	COAL and Shale - carbonaceous grey-brown shale	Coal from 56.39 to 56.99 m. (Seam W.2)
57.91	Siltstone with Shale	
60.96	Sandstone - dark grey, medium grained	
64.00	Sandstone - fine grained, silty	
67.05	Sandy Siltstone and Shale	
67.66	COAL - minor carbonaceous shale. Major seam	Coal from 67.66 to 70.41 metres (Seam W.1
		Wellington Seam)

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ROTARY DRILL HOLE - LOG OF CUTTINGS

HOLE No.: WM-RDH-82-02
PROJECT: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ SHEET No.: 2
LOCATION: _____ BEARING: _____ CONTRACTOR: _____ CO-ORDS N: _____
DATE: _____ HOLE ANGLE: _____ LOGGED BY: _____ E: _____

DEPTH (metres)	LITHOLOGICAL DESCRIPTION	DRILLER'S REMARKS
	...continued	
73.15	Sandstone - light grey, coarse to medium grained	
76.20	- as above	
77.72	- as above	

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ROTARY DRILL HOLE - LOG OF CUTTINGS

HOLE No.: WM-RDH-82-03
PROJECT: Wolf Mountain
LOCATION: Nanaimo
DATE: July 30, 1982
ELEV. COLLAR: 702.86 m.
BEARING:
HOLE ANGLE: Vertical
TOTAL DEPTH: 48.77 m.
CONTRACTOR: Ken's Drilling
LOGGED BY: J. Perry
SHEET No.: 1
CO-ORDS N: 13795-47166
E: 70769-64259

DEPTH (metres)	LITHOLOGICAL DESCRIPTION	DRILLER'S REMARKS
3.05	Conglomerate - granular	Casing = 1.37 m.
6.10	- as above	
8.23	Sandstone - dark grey, medium grained. A few pebbles	
9.14	Sandstone - light grey, coarse grained. Some granular sized pebbles	
12.19	Conglomerate - granular to small pebble	
15.24	Sandstone - light grey, coarse grained. Some granular sized pebbles	
18.29	Conglomerate - granular, sandy	
21.33	- as above	
24.38	- as above	
27.43	Conglomerate - granular, less sandy	
27.74	COAL with Shale - 50% coal, 50% dark grey/brown carbonaceous shale	Coal from 27.74 to 28.19 metres (Seam W.2)
30.48	Carbonaceous Shale - dark grey to dark brown. Fissile	
33.53	Sandstone - dark grey, fine grained, silty	
36.57	Silty Shale and Sandy Siltstone	
39.62	COAL - with minor carbonaceous shale. Major seam	Coal from 39.32 to 41.76 metres. (Seam W.1 - Wellington Seam)
42.67	Sandstone - light to medium grey, coarse grained. Some coal	
45.72	- as above. No coal	
48.77	- as above	

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ROTARY DRILL HOLE - LOG OF CUTTINGS

HOLE No.: WM-RDH-82-04
PROJECT: Wolf Mountain
LOCATION: Nanaimo
DATE: July 31, 1982
ELEV. COLLAR: 707.69 m.
BEARING:
HOLE ANGLE: Vertical
TOTAL DEPTH: ~~45.72~~ m. 39.62
CONTRACTOR: Ken's Drilling
LOGGED BY: J. Perry
SHEET No.: 1
CO-ORDS N: 13752·62812
E: 69926·89448

DEPTH (metres)	LITHOLOGICAL DESCRIPTION	DRILLER'S REMARKS
3.05	Conglomerate - granular to small pebble	Casing = 0.61 m.
6.10	Sandstone - coarse grained with granules and small pebbles	
9.14	Sandstone - coarse grained with rusty surfaces	
12.19	Sandstone - coarse grained	
15.24	- as above	
18.29	Silty Sandstone and Shale	
21.33	Conglomerate - granular	
23.77	COAL - with minor carbonaceous shale	Coal from 23.77 to 24.38 m. (Seam W.2)
24.38	Carbonaceous Shale - dark grey, with some coal	
27.43	Sandy Siltstone and Shale - shale not very carbonaceous, medium to dark grey	
30.48	Sandstone - medium grey, coarse grained	
33.53	- as above	
36.57	Sandstone - medium to coarse grained, dark grey	
36.88	COAL - with minor carbonaceous shale. Major seam	Coal from 36.88 to 38.71 m. (Seam W.1 - Wellington Seam)
39.62	Sandstone - medium to coarse grained, dark grey. Much carbonaceous material in the sandstone	

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ROTARY DRILL HOLE - LOG OF CUTTINGS

HOLE No.: WM-RDH-82-05
PROJECT: Wolf Mountain
LOCATION: Nanaimo
DATE: July 31, August 1, 82
ELEV. COLLAR: 637.46 m.
BEARING:
HOLE ANGLE: Vertical
TOTAL DEPTH: 45.72 m.
CONTRACTOR: Ken's Drilling
LOGGED BY: J. Perry
SHEET No.: 1
CO-ORDS N: 13523·55652
E: 69989·30152

DEPTH (metres)	LITHOLOGICAL DESCRIPTION	DRILLER'S REMARKS
6.10	Conglomerate - granular	Casing = 2.41 m.
18.29	Sandstone - medium grained	
26.82	COAL - with carbonaceous shale	Coal from 26.82 to 27.43 m. (Seam W.2)
30.48	Sandy Siltstone with some shale	
36.57	- as above	
37.49	COAL - with minor carbonaceous shale. Major seam	Coal from 37.49 to 39.62 metres
		(Seam W.1 - Wellington Seam)
39.62	COAL and Shale - shale is dark grey, carbonaceous	
42.67	Sandstone - coarse grained	
45.72	- as above	

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ROTARY DRILL HOLE - LOG OF CUTTINGS

HOLE No.: WM-RDH-82-06
PROJECT: Wolf Mountain
LOCATION: Nanaimo
DATE: August 1, 1982
ELEV. COLLAR: 635.90 m.
BEARING:
HOLE ANGLE: Vertical
TOTAL DEPTH: 27.43 m.
CONTRACTOR: Ken's Drilling
LOGGED BY: J. Perry
SHEET No.: 1
CO-ORDS N: 13399•16493
E: 70367•02033

DEPTH (metres)	LITHOLOGICAL DESCRIPTION	DRILLER'S REMARKS
		Casing 7.31 m.
5.18	COAL and Shale - 50% coal, 50% carbonaceous shale	Coal from 5.18 to 6.10 m. (Seam W.2)
12.19	Silty Shale - dark grey	
15.24	- as above, but sandier	
18.29	- as above	
19.20	COAL - with minor carbonaceous shale. Major seam	Coal from 19.20 to 21.03 metres
		(Seam W.1 - Wellington Seam)
21.03	Carbonaceous Shale - with some coal powder	
21.33	Silty Sandstone - dark grey, fine grained	
24.38	Sandstone - light to medium grey, coarse grained	
27.43	- as above	

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ROTARY DRILL HOLE - LOG OF CUTTINGS

HOLE No.: WM-RDH-82-07
PROJECT: Wolf Mountain
LOCATION: Nanaimo
DATE: August 2, 3 and 7, 1982
ELEV. COLLAR: 735.79 m.
BEARING:
HOLE ANGLE: Vertical
TOTAL DEPTH: 27.43 m. (?)
CONTRACTOR: Ken's Drilling
LOGGED BY: J. Perry
SHEET No.: 1
CO-ORDS N: 13843·85107
E: 70191·29766

DEPTH (metres)	LITHOLOGICAL DESCRIPTION	DRILLER'S REMARKS
3.05	Conglomerate - granular	Casing = 1.22 m.
9.14	Sandstone - coarse grained. Some shale and conglomerate	(Seam W.2 from 5.4 m. to 6.4 m.)
12.19	Sandstone - coarse grained with weathered surfaces	
15.24	- as above	
18.29	- as above, medium to coarse grained with carbonaceous flecks	
	Core Point	(Seam W.1 - Wellington Seam from approximately 20.2 - 23.2 m.)
		Sampling stopped at core point

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ROTARY DRILL HOLE - LOG OF CUTTINGS

HOLE No.: WM-RDH-82-08
PROJECT: Wolf Mountain
LOCATION: Nanaimo
DATE: August 5, 1982
ELEV. COLLAR: 663.24 m.
BEARING:
HOLE ANGLE: vertical
TOTAL DEPTH: 65.53 m.
CONTRACTOR: Ken's Drilling
LOGGED BY: J. Perry
SHEET No.: 1
CO-ORDS N: 13276.32475
E: 71159.35511

DEPTH (metres)	LITHOLOGICAL DESCRIPTION	DRILLER'S REMARKS
3.05	Conglomerate - with large pebbles	Casing = 0.91 m.
6.10	- as above	
9.14	- as above	
11.28	COAL and Shale - carbonaceous, dark brown shale	Coal from 11.28 to 12.80 m. (Seam W.3)
15.24	Shale and Siltstone - brown shale. Some conglomerate	
18.29	Conglomerate - granular to small pebble. More matrix of	
	coarse sandstone.	
21.33	- as above, slightly larger pebbles	
24.38	- as above. Ranges from granule to small	
	pebble.	
27.43	- as above	
30.48	Sandstone - medium grey to olive, coarse grained	
33.53	- as above, coarser, with 50% conglomerate	
	pebbles and granules.	
36.57	Conglomerate - essentially as the sandstone above but no	
	sandstone pieces, just lots of matrix.	
39.62	- as above, with sandstone pieces	
42.67	- as above	
45.72	- as above	
48.46	COAL and Shale - carbonaceous shale - dark brown	Coal from 48.66 to 48.77 m. (Seam W.2)
51.81	Sandstone and Siltstone - sandstone is fine to medium	
	grained and silty	
54.86	Shale - grey, silty	
56.39	COAL and Sandstone - sandstone is fine grained,	
	carbonaceous and silty	
56.69	COAL - with carbonaceous shale. Major seam.	Coal from 56.69 to 59.74 metres
		(Seam W.1 - Wellington Seam)
60.96	Sandstone - medium grey, medium to coarse grained	

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ROTARY DRILL HOLE - LOG OF CUTTINGS

HOLE No.: WM-RDH-82-09
PROJECT: Wolf Mountain
LOCATION: Nanaimo
DATE: August 6th, 1982
ELEV. COLLAR: 688.25 m.
BEARING:
HOLE ANGLE: vertical
TOTAL DEPTH: 79.24 m.
CONTRACTOR: Ken's Drilling
LOGGED BY: J. Perry
SHEET No.: 1
CO-ORDS N: 13652.05037
E: 70579.73756

DEPTH (metres)	LITHOLOGICAL DESCRIPTION	DRILLER'S REMARKS
4.27	Conglomerate - granular, lots of matrix	Casing = 3.35 m.
6.10	Sandstone - coarse grained, with pebbles, salt and pepper	
9.14	- as above	
12.19	Sandstone and Conglomerate - as above	
15.24	Sandstone - coarse grained with many pebbles	
18.29	Conglomerate - granular, with lots of coarse sand matrix.	
21.33	- as above, less matrix	
24.38	Conglomerate - granular to small pebble	
26.52	COAL and Shale - carbonaceous shale - dark grey-brown	Coal from 26.52 to 28.35 m. (Seam W.3)
30.48	Siltstone, Shale and fine grained Silty Sandstone	
33.53	Conglomerate - granular	
36.57	- as above, granular to small pebble	
39.62	Sandstone - coarse grained, salt and pepper	
42.67	Conglomerate - granular	
45.72	Sandstone - with many small pebbles and granules	
48.77	Sandstone and Conglomerate - granular with medium pebbles	
51.81	- as above. Coarse grained	
	sandstone, granular conglomerate.	
	A few pieces of shale.	
54.86	Conglomerate - granular to small pebble	
57.91	Sandstone - coarse grained, salt and pepper, a few pebbles.	
	Quite a bit of pyrite.	
59.73	COAL and Shale - carbonaceous shale.	Coal from 59.73 to 61.26 m. (Seam W.2)
64.00	Sandstone - coarse grained, occasional pebbles, calcite on	
	fracture surfaces.	
67.05	- as above. With some large pieces of volcanics	
	up to 0.04 in diameter. Some rounded, some	
	angular.	

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ROTARY DRILL HOLE - LOG OF CUTTINGS

HOLE No.: WM-RDH-82-09
PROJECT: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ SHEET No.: 2
LOCATION: _____ BEARING: _____ CONTRACTOR: _____ CO-ORDS N: _____
DATE: _____ HOLE ANGLE: _____ LOGGED BY: _____ E: _____

DEPTH (metres)	LITHOLOGICAL DESCRIPTION	DRILLER'S REMARKS
67.51	- as above, a 1.0 m. zone which contains many large pieces of volcanics, vein quartz and granitoids.	Either fracture zone or cave material
70.10	Sandstone - coarse grained, only a few small pebbles	
70.71	COAL - with minor carbonaceous shale. Major seam.	Coal from 70.71 to 73.45 m. (Seam W.1 - Wellington Seam)
73.45	Sandstone - fine grained, silty, carbonaceous with small pieces of volcanics	
76.20	Sandstone - coarse grained, salt and pepper	
79.24	- as above, with small volcanic and granitoid pieces	

APPENDIX B.II

DESCRIPTIVE LOGS - CORE

2
1A
6A

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ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-02A
PROJECT: Wolf Mountain
LOCATION: Nanaimo
DATE: August 7, 16, 17, 1982
ELEV. COLLAR: 643.21 m
BEARING:
HOLE ANGLE: Vertical
TOTAL DEPTH: 72.54 m
CORE SIZE: 8.9 cm
LOGGED BY: J. Perry
SHEET No: 1
CO-ORDS N 13556.56162
E 71260.91171
CONTRACTOR: Ken's Drilling

BCN	BOX MARKER	SAMPLE INTERVAL FROM	SAMPLE INTERVAL TO	SAMPLE INTERVAL THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	LITHOLOGICAL UNIT TO	LITHOLOGICAL UNIT APPAR. THK.	LITHOLOGICAL UNIT TRUE THK.	% REC.	DESCRIPTION
											TOP OF BOX 1
	68.00'										CORE RUN #1 - Essentially unbroken in core tube. Coring
	20.73m										for Seam W-3.
<5°						20.51	21.58	1.07			Conglomerate-small pebble to pebble with thin (0.03 - 0.10 m) interbeds of medium grey, med. to coarse grained sandstone. Pebbles are mainly of green, grey and black cherts and white quartzo-feldspathics. The true con--glomerate layers have less than 30% matrix (which is a coarse grained sand). Bedding is present as layering in the sandstone bands. It is generally horizontal but shows small scale ripples which make it irregular. Occasional coal stringers and coaly clasts are present in the lower half. The contact with the underlying shale is horizontal. Rip-up clasts are present at the base, set in a sandstone layer. Core unbroken.
10°						21.58	22.06	0.48			Shale-dark grey, fissile. Many large leaf impressions
5°											and other plant material within the parting surfaces. Bedding ranges from 10° to 5°. The steeper bedding (10°) is in the upper half where the shale is also slightly sheared. (Probably have slight deformation within the upper part of the shale, immediately
											(cont'd)

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ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-02A — SHEET No: 2

PROJECT: — ELEV. COLLAR: — TOTAL DEPTH: — CO-ORDS N: —

LOCATION: — BEARING: — CORE SIZE: — E: —

DATE: — HOLE ANGLE: — LOGGED BY: — CONTRACTOR: —

BCN	BOX MARKER	SAMPLE INTERVAL FROM	TO	THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	TO	APPAR. THK.	TRUE THK.	% REC.	DESCRIPTION
											(cont'd)
											under the conglomerate, as can be seen in nearby outcrops.) BCN = 5° in lower half. Joint in centre, surface is smooth and regular. J∧CA = 35°. Solid contact with underlying carbonaceous shale. Core is solid in core hole.
4°	SAMPLE A #10445					22.06	22.27	0.21	0.21		Carbonaceous Shale-dark grey, highly carbonaceous
		22.06	22.27	0.21						100	(coaly) with many thin coal stringers, partic--ularly towards base. Flat bedded, fissile.
											Joint near centre, surface is smooth and convex, listric, J∧CA=50°.
	SAMPLE B #10446									100	COAL-Unbroken. Solid contacts.
		22.27	22.33	0.06			22.33	0.06	0.06		-dull and bright, many thin clay laminae throughout.
						22.33	22.48	0.15	0.15		Carbonaceous shale-dark grey, highly carbonaceous (coaly) with many thin coal laminae and stringers.
	SAMPLE C #10447										Fissile. Joint in centre, J∧CA=50°. Surface is
		22.33	22.66	0.33							smooth, regular and listric with slight
										100	slickenside development.
2°							22.64	0.16	0.16		- as above
							22.66	0.02	0.02		- as above, broken

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ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-02A — SHEET No: 3

PROJECT: — ELEV. COLLAR: — TOTAL DEPTH: — CO-ORDS N: —

LOCATION: — BEARING: — CORE SIZE: — E: —

DATE: — HOLE ANGLE: — LOGGED BY: — CONTRACTOR: —

BCN	BOX MARKER	SAMPLE INTERVAL FROM	SAMPLE INTERVAL TO	SAMPLE INTERVAL THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	LITHOLOGICAL UNIT TO	LITHOLOGICAL UNIT APPAR. THK.	LITHOLOGICAL UNIT TRUE THK.	% REC.	DESCRIPTION
	↑									↑	COAL-solid in core tube. No core loss.
						22.66	22.68	0.02	0.02		-bright, pyrite flecks on cleat surfaces.
							22.71	0.03	0.03		COAL & BANDS-interlayered bright coal and carbonaceous shale (approx. 0.001-0.003 m bands).
											60% shale, 40% coal
	10448						22.79	0.08	0.08		COAL-dull banded, lustrous, with pyrite flecks on cleat surfaces.
							22.83	0.04	0.04		Carbonaceous Shale - as above. Broken.
	#						22.86	0.03	0.03		COAL-boney with dull bands.
		22.66	23.27	0.61						100	
							22.89	0.03	0.03		Carbonaceous Shale - as above.
40	D						22.91	0.02	0.02		COAL-bright with clay laminae near top.
	SAMPLE						22.92	0.01	0.01		Carbonaceous Shale - as above.
							22.94	0.02	0.02		COAL-boney.
							23.01	0.07	0.07		Carbonaceous Shale - as above.
							23.04	0.03	0.03		COAL-bright with many shale laminae and thin bands.
							23.09	0.05	0.05		COAL & BANDS-thin bands and laminae of highly carbonaceous

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ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-02A — SHEET No: 4

PROJECT: — ELEV. COLLAR: — TOTAL DEPTH: — CO-ORDS N: —

LOCATION: — BEARING: — CORE SIZE: — E: —

DATE: — HOLE ANGLE: — LOGGED BY: — CONTRACTOR: —

BCN	BOX MARKER	SAMPLE INTERVAL FROM	TO	THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	TO	APPAR. THK.	TRUE THK.	% REC.	DESCRIPTION
	SAMPLE # 10448										cont'd - shale and coal
						23.09	23.18	0.09	0.09		Carbonaceous Shale-as above.
		22.66	23.27	0.61						100	
							23.20	0.02	0.02		COAL-boney.
							23.27	0.07	0.07		Carbonaceous Shale-as above, less coaly at base.
	77.00' / 23.47m				1.31	23.27	24.58		1.30	0	CORE LOSS-COAL and ROCK
				FLOOR OF SEAM W.3							TOP OF BOX 2
											CORE RUN #2-core heavily broken at top. Core loss at top.
						24.58	24.62	0.04			Carbonaceous Shale-dark grey, highly carbonaceous (coaly) with many thin coal bands and stringers. Heavily broken, listric surfaces with slickensides.
						24.62	24.76	0.14			Shale-med. grey with thin coal bands and stringers especially at top. Somewhat carbonaceous, decreasing away from top. Plant fragments. Heavily broken with listric surfaces heavily slickensided. **Weakly fissile.**
2°						24.76	25.02	0.26			Shale-med. grey. Occasional coal stringers and plant fragments near top. Fissile. Silty towards base.

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ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-02A
SHEET No: 5
PROJECT: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ CO-ORDS N: _____
LOCATION: _____ BEARING: _____ CORE SIZE: _____ E: _____
DATE: _____ HOLE ANGLE: _____ LOGGED BY: _____ CONTRACTOR: _____

BCN	BOX MARKER	SAMPLE INTERVAL FROM	SAMPLE INTERVAL TO	SAMPLE INTERVAL THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	LITHOLOGICAL UNIT TO	LITHOLOGICAL UNIT APPAR. THK.	LITHOLOGICAL UNIT TRUE THK.	% REC.	DESCRIPTION
											cont'd-Bedding varies from BCN 0° - 5°. Fracture surfaces show slickensides and are highly listric. Joints throughout J∧CA=26° and 30° (conjugate-i.e. intersecting). Some joint surfaces are curved and flatten to J∧CA's of 70°. The surfaces are highly listric and slickensided. Many incipient fractures throughout.
						25.02	25.40	0.38			Siltstone-med. grey. Gradational with overlying shale. Joint at base, J∧CA=18°, surface smooth and regular.
	84.00' 25.60m										End of core run for Seam W-3

WOLF MOUNTAIN COAL LTD.

ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-02A
PROJECT: _____
LOCATION: _____
DATE: _____

ELEV. COLLAR: _____
BEARING: _____
HOLE ANGLE: _____

TOTAL DEPTH: _____
CORE SIZE: _____
LOGGED BY: _____

SHEET No: 6
CO-ORDS N: _____
E: _____
CONTRACTOR: _____

BCN	BOX MARKER	SAMPLE INTERVAL FROM	SAMPLE INTERVAL TO	SAMPLE INTERVAL THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	LITHOLOGICAL UNIT TO	LITHOLOGICAL UNIT APPAR. THK.	LITHOLOGICAL UNIT TRUE THK.	% REC.	DESCRIPTION
											TOP OF BOX 1
	220.50' / 67.21m										CORE RUN #1-coring for Seam W-1 (Wellington). Core is unbroken in core tube. No loss.
2°						66.81	68.10	1.29			Mudstone-light to med. grey. Slightly silty at top. Massive with only a slight fissility. Bedding is essentially flat (BCN's=0°-4°). No well defined bedding planes except at base. (However, core consistently breaks parallel or sub-parallel to core axis when struck). Occasional plant fragments throughout. Slightly carbonaceous at base with coal stringers and lenses. Contact with underlying coal seam is intact.
0°											COAL-Core solid, no core loss in this run. Banding in coal is generally flat (i.e. BCN=0°).
						68.10	68.37	0.27	0.27		-dull banded, very hard, very lustrous. Appears to have vitrain particles dispersed throughout which imparts a highly speckled appearance. Very little banding. Occasional very thin clay laminae and lenses. Thin vitrain band near base.
	SAMPLE # 10449									100	
						68.37	68.38	0.01	0.01		Shale-dark grey to buff with thin coal laminae.

WOLF MOUNTAIN COAL LTD.

ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-02A
SHEET No: 7
PROJECT: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ CO-ORDS N: _____
LOCATION: _____ BEARING: _____ CORE SIZE: _____ E: _____
DATE: _____ HOLE ANGLE: _____ LOGGED BY: _____ CONTRACTOR: _____

BCN	BOX MARKER	SAMPLE INTERVAL FROM	TO	THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	TO	APPAR. THK.	TRUE THK.	% REC.	DESCRIPTION
						68.38	68.42	0.04	0.04		COAL-dull banded, as above. Has very thin clay laminae and bands just below overlying shale
	SAMPLE A # 10449						68.48	0.06	0.06		-dull & bright, similar to above but many thin
		68.10	68.57	0.47						100	vitrain (bright) bands. More banding, less speckled.
							68.53	0.05	0.05		-dull banded, less banded than immediately above, more speckled.
							68.57	0.04	0.04		-dull & bright - as above (banded).
	SAMPLE B # 10450					68.57	68.66	0.09	0.09		Carbonaceous Shale-dark grey, highly carbonaceous (coaly) with many coal laminae, stringers and thin bands. Quite heavily sheared with
		68.57	68.66	0.09						100	listric surfaces. No reliable BCN's due to deformation.
	SAMPLE C # 10540					68.66	68.70	0.04	0.04		COAL-bright banded, with two very thin clay bands near centre. Sheared with listric surfaces.
							68.71	0.01	0.01		Carbonaceous Shale-as above, heavily sheared.
		68.66	69.09	0.43						100	
							68.74	0.03	0.03		COAL-dull banded, very hard, speckled, lustrous. Not sheared. Clay laminae.
							68.77	0.03	0.03		COAL & BANDS-sheared carbonaceous shale around a large pod of sheared coal. 50% coal, 50% rock.

WOLF MOUNTAIN COAL LTD.

ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-02-A
PROJECT: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____
LOCATION: _____ BEARING: _____ CORE SIZE: _____
DATE: _____ HOLE ANGLE: _____ LOGGED BY: _____

SHEET No: 8
CO-ORDS N: _____
E: _____
CONTRACTOR: _____

BCN	BOX MARKER	SAMPLE INTERVAL FROM	TO	THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	TO	APPAR. THK.	TRUE THK.	% REC.	DESCRIPTION
						68.77	68.82	0.05	0.05		Carbonaceous Shale-as above. Many coal bands, laminae and stringers. Heavily sheared and contorted.
							68.85	0.03	0.03		COAL-dull banded, hard, lustrous, speckled with several clay bands and laminae.
	C	68.66	69.09	0.43						100	
	SAMPLE # 10540						68.89	0.04	0.04		Carbonaceous Shale-as above, heavily sheared.
							68.98	0.09	0.09		COAL-dull & bright, heavily sheared, banded not speckled.
							69.04	0.06	0.06		-dull banded, hard, sheared, banded coal.
							69.09	0.05	0.05		-bright, banded, sheared.
	X									X	
						69.09	69.12	0.03	0.03		Carbonaceous Shale-dark grey, highly carbonaceous to coaly. Has a buff coloured band near top (possible volcanic ash layer.)
	D										
	SAMPLE # 10541	69.09	69.50	0.41						63.4	
							69.19	0.07	0.07		COAL-bright
							69.24	0.05	0.05		-bright, heavily sheared.
							69.26	0.02	0.02		Carbonaceous Shale-dark grey, coaly, heavily sheared. Listric surfaces.
	228.5' / 69.64m										TOP OF BOX 2
											CORE RUN #2-core broken at top. Probable core loss.

WOLF MOUNTAIN COAL LTD.

ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-02A
SHEET No: 9
PROJECT:
ELEV. COLLAR:
TOTAL DEPTH:
CO-ORDS N:
LOCATION:
BEARING:
CORE SIZE:
E:
DATE:
HOLE ANGLE:
LOGGED BY:
CONTRACTOR:

BCN	BOX MARKER	SAMPLE INTERVAL FROM	TO	THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	TO	APPAR. THK.	TRUE THK.	% REC.	DESCRIPTION
											cont'd-Solid core for the remainder of the run.
					0.09	69.26	69.35		0.09		CORE LOSS-COAL
	0					69.35	69.37	0.02	0.02		COAL-dull banded, some clay laminae, banded coal,
	SAMPLE # 10541	69.09	69.50	0.41						63.4	heavily sheared and broken. Listric surfaces.
					0.06	69.37	69.43		0.06		CORE LOSS-ROCK
						69.43	69.50	0.07	0.07		Carbonaceous Shale-dark grey to black, coaly, bands of coal, coal laminae and stringers. Highly sheared with listric surfaces. Broken.
					0.10	69.50	69.60		0.10		CORE LOSS-COAL
2°											COAL-solid core. Floor contact is intact. Banding (bedding) as before, essentially 0°-5° but less pronounced. Many joints along core length. Commonly J∧CA=45°-60° with one J∧CA=10° near base. Joint surfaces are listric with secondary calcite and are irregular.
		69.50	70.30	0.80						87.5	
	SAMPLE # 10542					69.60	69.66	0.06	0.06		-dull & bright. Hard.
						69.66	69.76	0.10	0.10		-bright banded. Hard.
						69.76	69.82	0.06	0.06		-dull & bright. Hard.
						69.82	69.86	0.04	0.04		-bright banded. Hard.
						69.86	69.90	0.04	0.04		-bright. Hard.
						69.90	69.99	0.09	0.09		-dull banded. Hard.
						69.99	70.03	0.04	0.04		-dull & bright. Hard.
						70.03	70.07	0.04	0.04		-bright banded. Hard.
						70.07	70.11	0.04	0.04		-dull & bright. Hard.
						70.11	70.22	0.11	0.11		-bright. Heavily sheared.

WOLF MOUNTAIN COAL LTD.

ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-02A
PROJECT: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ CO-ORDS N: _____
LOCATION: _____ BEARING: _____ CORE SIZE: _____ E: _____
DATE: _____ HOLE ANGLE: _____ LOGGED BY: _____ CONTRACTOR: _____
SHEET No: 10

BCN	BOX MARKER	SAMPLE INTERVAL FROM	SAMPLE INTERVAL TO	SAMPLE INTERVAL THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	LITHOLOGICAL UNIT TO	LITHOLOGICAL UNIT APPAR. THK.	LITHOLOGICAL UNIT TRUE THK.	% REC.	DESCRIPTION
	SAMPLE E					70.22	70.30	0.08	0.08		-bright. Heavily sheared and has a light brown
		69.50	70.30	0.80						87.5	coating to shear surfaces. Either a clay or
											weathered calcite film.
						70.30	70.34	0.04	0.04		COAL & BANDS-thin (less than 0.01 m) bands of bright
											coal and highly carbonaceous shale.
	E	70.30	70.86	0.56							Sheared.
										100	
4°	SAMPLE #10545					70.34	70.48	0.14	0.14		COAL-bright, hard, with widely spaced shear and joint
											planes.
						70.48	70.86	0.38	0.38		-bright, with occasional calcite veinlets and
											horsetail whisps.
			FLOOR OF SEAM W-1								
3°						70.86	70.93	0.07			Carbonaceous Sandstone-dark grey, med. to coarse grained
											Almost gradational contact with overlying
											coal. Have intermixing of coal pods and
											bands and sandstone pods and bands at, and
											near, contact. Many coal stringers. Carbon-
											-aceous material decreases towards base.
						70.93	71.45	1.52			Sandstone-med. to dark grey. Med. grained at top but
											otherwise coarse grained. Massive. Slightly
											carbonaceous at top but decreasing over 0.20 m
											towards base. Gradational contact at top, with
											coal stringers also.
	238.5'										END OF HOLE
	72.69 m										

WOLF MOUNTAIN COAL LTD.

ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-06A
PROJECT: Wolf Mountain
LOCATION: Nanaimo
DATE: August 15, 1982
ELEV. COLLAR: 635.52 m
BEARING:
HOLE ANGLE: Vertical
TOTAL DEPTH: 22.86 m
CORE SIZE: 8.9 cm
LOGGED BY: J. Perry
SHEET No: 1
CO-ORDS N: 13396°12052
E: 70368°00520
CONTRACTOR: Ken's Drilling

BCN	BOX MARKER	SAMPLE INTERVAL FROM	TO	THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	TO	APPAR. THK.	TRUE THK.	% REC.	DESCRIPTION
											TOP OF BOX 1
	56' 17.07m										CORE RUN #1-coring for Seam W-1 (Wellington)
						18.39	18.74	0.35			Sandstone-dark to med. gray, fine grained with silty and carbonaceous laminae. Occasional coal stringers particularly towards base. Bedding is disturbed due to bioturbation or root penetration. Joint present along length of core; surface is rough, stepped and has slickensides which parallel the long axis of the joint. Minor secondary calcite, J∧CA (joint plane to core axis angle) =15°. Another joint-healed with calcite-J∧CA= 20°-makes an angle of 70° to the other joint plane. Core is unbroken.
						18.74	18.81	0.07	0.07		-as above, with many thin bright coal bands (approx. 0.005 m thick) with bands of sandstone (as above). Core splits along coal bands. Have listric fracture surfaces with slickensides.
	SAMPLE # 10444	18.74	18.83	0.09						100	
						18.81	18.83	0.02	0.02		COAL & BANDS-70% coal:30% rock bands. Coal is dull and bright with thin bands and laminae of carbonaceous silty sandstone. Core broken.

WOLF MOUNTAIN COAL LTD.

ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-06A — SHEET No: 2

PROJECT: — ELEV. COLLAR: — TOTAL DEPTH: — CO-ORDS N: —

LOCATION: — BEARING: — CORE SIZE: — E: —

DATE: — HOLE ANGLE: — LOGGED BY: — CONTRACTOR: —

BCN	BOX MARKER	SAMPLE INTERVAL FROM	TO	THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	TO	APPAR. THK.	TRUE THK.	% REC.	DESCRIPTION
											COAL-the core is solid and unbroken in the core tube. No core loss in this run. Have an unbroken contact with the roof lithology. Bedding angle at roof is 8° while banding in the coal in the top 0.20 metres averages 15° but ranges between 8°-20°.
15°						18.83	18.87	0.04	0.04		-dull & bright.
							18.91	0.04	0.04		-bright banded with very thin ash (sandy) band near top. Joint near top, smooth regular with slickensides, J∧CA=40°.
	A SAMPLE #10441	18.83	19.76	0.43							
							19.01	0.10	0.10	100	-bright.
							19.07	0.06	0.06		-bright with clay laminae at top and base. Flecks of pyrite on fracture/cleat surfaces.
							19.19	0.12	0.11		-dull banded, lustrous sheared, with listric surfaces.
							19.26	0.07	0.07		-bright banded-heavily sheared, with listric surfaces.
						19.26	19.35	0.09	0.09		Carbonaceous Mudstone-dark grey to black with a dark brown tinge when streaked. Occasional coal laminae throughout. Heavily sheared, soft. Top contact BCN=5°, bottom contact BCN=25° (not reliable beddings due to shearing).
	B SAMPLE #10442	19.26	19.35	0.09						100	
	C SAMPLE #10443										COAL-solid but heavily sheared. Very difficult to distinguish true brightness. Many listric surfaces.
						19.35	19.41	0.09	0.09		-dull banded, lustrous. Have two clay laminae

WOLF MOUNTAIN COAL LTD.

ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-06A — SHEET No: 3

PROJECT: — ELEV. COLLAR: — TOTAL DEPTH: — CO-ORDS N: —

LOCATION: — BEARING: — CORE SIZE: — E: —

DATE: — HOLE ANGLE: — LOGGED BY: — CONTRACTOR: —

BCN	BOX MARKER	SAMPLE INTERVAL FROM	TO	THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	TO	APPAR. THK.	TRUE THK.	% REC.	DESCRIPTION
											cont'd
											in top half. Sheared with listric surfaces.
						19.44	19.56	0.12	0.11		-bright banded, sheared. Joint at base-smooth, regular, listric. $J_A CA=45^o$.
	# 10443						19.72	0.16	0.15		-dull & bright, sheared. A few very thin lenses of carbonaceous clay and carbonaceous sandstone near base.
							19.81	0.09	0.09		-dull & bright. Sheared.
							19.91	0.13	0.12		-dull & bright. Sheared.
						19.94	20.04	0.10	0.10		-dull & bright, heavily sheared. Joint at base $J_A CA=35^o$.
		19.35	20.58	1.23						74.8	
	62.25' 18.97m				0.31	20.04	20.35		0.30		CORE LOSS-COAL
	C										CORE RUN #2-Core loss at top of run. Coal core broken but not in-place. Many volcanic pebbles on top of core and occasionally mixed into broken coal core. The pebbles are cave.
	SAMPLE					20.35	20.43	0.08	0.08		COAL-bright banded, hard.
						20.43	20.58	0.15	0.14		-bright, hard. Many flecks of pyrite in bottom 0.03m. Bottom contact with floor is intact. Almost gradational with carbonaceous sandstone below.
				FLOOR OF SEAM W.1							
						20.58	21.31	0.73			Sandstone-med. to dark grey, med. to coarse grained. Highly carbonaceous in top

(cont'd)

WOLF MOUNTAIN COAL LTD.

ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-06A
SHEET No: 4
PROJECT: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ CO-ORDS N: _____
LOCATION: _____ BEARING: _____ CORE SIZE: _____ E: _____
DATE: _____ HOLE ANGLE: _____ LOGGED BY: _____ CONTRACTOR: _____

BCN	BOX MARKER	SAMPLE INTERVAL FROM	SAMPLE INTERVAL TO	SAMPLE INTERVAL THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	LITHOLOGICAL UNIT TO	LITHOLOGICAL UNIT APPAR. THK.	LITHOLOGICAL UNIT TRUE THK.	% REC.	DESCRIPTION
											cont'd
											0.05 m with many coal stringers. The contact
											with the overlying coal is intact, and is
											somewhat irregular. Very coaly at top, almost
											gradational. Coal stringers and carbon content
											decrease towards base until there is a clean
											sandstone. Burrowed and rooted in top half,
											massive in bottom half. No bedding available
											to measure. Occasional weak joints with secondary
											calcite J_A CA=70°-65°. Core solid.
											TOP OF BOX 2
						21.31	21.69	0.38			-as above, med. grey, medium to coarse grained.
											Not carbonaceous. Massive.
	68.00'										END OF HOLE
	20.73m										

WOLF MOUNTAIN COAL LTD.

ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-07A
PROJECT: Wolf Mountain
LOCATION: Nanaimo
DATE: August 18, 1982
ELEV. COLLAR: 734.29 m
BEARING:
HOLE ANGLE: Vertical
TOTAL DEPTH: 28.34 m
CORE SIZE: 8.9 cm
LOGGED BY: J Perry
SHEET No: 1
CO-ORDS N: 13832·27670
E: 70184·73984
CONTRACTOR: Ken's Drilling

BCN	BOX MARKER	SAMPLE INTERVAL FROM	TO	THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	TO	APPAR. THK.	TRUE THK.	% REC.	DESCRIPTION
											TOP OF BOX 1
	74.00' 22.55m										CORE RUN #1-coring for Seam W-1 (Wellington). Core broken for first two metres due to the fact that the core catcher did not work and the core had to be overshot again to be recovered. Solid core in bottom 0.50 metres.
						17.99	20.03	2.04			Sandstone-med. grey, coarse grained grading to med. grained at base. Have many mottled zones indicating much burrowing, particularly in the coarse grained portions. Cross-bedding outlined by carbonaceous and coaly laminae and bands. Dips on cross-beds range from 20° to 45°; 45° in top half of core, 20° in bottom half.
25°						20.03	20.23	0.20			Sandstone-med. to dark grey, med. to fine grained, fining towards base. Many coal stringers and laminae and thin bands (0.005 m). Core breaks along these thin coal bands. The breaks have irregular surfaces with BCN's ranging from 20° to 30°.
20°	SAMPLE # 10544	20.23	26.40	0.17		20.23	20.46	0.17	0.16	100	COAL & BANDS-pods and bands of sandstone, mudstone, and dull coal. Very heavily sheared. Less rock towards base but overall 50% coal, 50% rock.

WOLF MOUNTAIN COAL LTD.

ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-07A — SHEET No: 2

PROJECT: — ELEV. COLLAR: — TOTAL DEPTH: — CO-ORDS N: —

LOCATION: — BEARING: — CORE SIZE: — E: —

DATE: — HOLE ANGLE: — LOGGED BY: — CONTRACTOR: —

BCN	BOX MARKER	SAMPLE INTERVAL FROM	TO	THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	TO	APPAR. THK.	TRUE THK.	% REC.	DESCRIPTION
											cont'd -Thin film of brownish clay on fracture surfaces in coal. Banding BCN's ≈ 20° (Similar lithology as in 82-06).
						20.40	20.51	0.11	0.10		COAL-dull, very heavily sheared. Degree of brightness is problematical. Dustings of brownish clay on fracture surfaces.
					0.30	20.51	20.81	·	0.28		CORE LOSS-COAL
	80.50' / 24.54m										CORE RUN #2-core solid in core tube except for the top 0.05 m. Many fracture and shear surfaces at various angles, throughout. Coal is highly sheared and crushed.
						20.81	20.92	0.11	0.10		COAL-sheared-very heavily. Broken at top. Not possible to determine lithotypes or degree of brightness.
	SAMPLE # 10545	20.40	21.63	1.23		20.92	21.03	0.11	0.10	75%	-stoney, very heavily sheared. Has slight brownish tinge when scratched. Either a high ash (stoney) coal or a coal with many thin clay laminae or bands which have been smeared out due to the intense shearing. Have a 0.01m boney band at base.
											TOP OF BOX 2
						21.03	21.17	0.14	0.13		-dull, heavily sheared.
						21.17	21.27	0.10	0.10		-stoney, essentially as the stoney coal above.
						21.27	21.37	0.10	0.10		-sheared, possibly with some thin clay laminae.

WOLF MOUNTAIN COAL LTD.

ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-07A — SHEET No: 3

PROJECT: — ELEV. COLLAR: — TOTAL DEPTH: — CO-ORDS N: —

LOCATION: — BEARING: — CORE SIZE: — E: —

DATE: — HOLE ANGLE: — LOGGED BY: — CONTRACTOR: —

BCN	BOX MARKER	SAMPLE INTERVAL FROM	TO	THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	TO	APPAR. THK.	TRUE THK.	% REC.	DESCRIPTION
	SAMPLE # 105745					21.37	21.50	0.13	0.12		-bright, heavily sheared (possibly bright)
						21.50	21.53	0.03	0.03		-boney, sheared but hard.
						21.53	21.63	0.10	0.10		-dull, heavily sheared, secondary calcite on fracture surfaces.
											CORE RUN #3-core solid in tube except top 0.05 m and near seam floor. Floor contact is intact, smooth and shows BCN of 25°. The first 0.70 m is not as completely sheared as before.
	83.00' 25.30m										
					0.11	21.63	21.74		0.10		CORE LOSS-COAL
						21.74	21.80	0.06	0.06		COAL-dull & bright, heavily sheared, flecks of pyrite on fracture surfaces.
	# 105746	21.63	22.48	0.85		21.80	21.93	0.13	0.12	84.1	-dull banded, heavily sheared, flecks of pyrite on fracture surfaces.
						21.93	21.98	0.05	0.05		-dull & bright, heavily sheared.
						21.98	22.08	0.10	0.10		-bright banded, heavily sheared.
						22.08	22.20	0.12	0.11		-dull & bright, secondary calcite on fracture surfaces. Heavily sheared.
	SAMPLE C					22.20	22.25	0.05	0.05		-bright banded, heavily sheared.
						22.25	22.30	0.05	0.05		-sheared, crushed.
						22.30	22.32	0.02	0.02		Carbonaceous Shale-dark grey, very heavily sheared and crushed.
						22.32	22.48	0.16	0.15		COAL-sheared, very heavily, and crushed.

WOLF MOUNTAIN COAL LTD.

ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-07A — SHEET No: 4

PROJECT: — ELEV. COLLAR: — TOTAL DEPTH: — CO-ORDS N: —

LOCATION: — BEARING: — CORE SIZE: — E: —

DATE: — HOLE ANGLE: — LOGGED BY: — CONTRACTOR: —

BCN	BOX MARKER	SAMPLE INTERVAL FROM	TO	THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	TO	APPAR. THK.	TRUE THK.	% REC.	DESCRIPTION
						22.48	22.82	0.34	0.32		Carbonaceous Mudstone-dark grey, highly carbonaceous, almost stoney coal but has a strong brown streak. Many sheared, crushed coal bands and laminae. (Note: this mudstone is not well defined by the density log, probably because of the presence of the smeared out coal bands).
	SAMPLE # 10547	22.48	22.82	0.34						100	
											COAL-banding in coal (BCN's) ranges from 15° to 20°. All of the coal is slightly sheared.
		22.82	23.16	0.34							
18°	SAMPLE # 10548					22.82	22.86	0.04	0.04		-dull banded.
						22.86	22.91	0.05	0.05	100	-dull & bright.
						22.91	22.99	0.08	0.07		-bright banded
						22.99	23.04	0.05	0.05		-dull banded
						23.04	23.16	0.12	0.11		-bright
		FLOOR OF SEAM W.I									
25°						23.16	23.77	0.61			Sandstone-med. to dark grey, coarse grained. Carbonaceous at top and has a sharp contact with overlying coal seam. Contact is not as gradational as in 82-02. BCN of contact = 25°, but has a listric surface indicating some shearing along contact. Thin coal stringers in top 0.10 m. Well jointed and fractured. Joints show polished, slickensided surfaces. J^CA = 25° and 60°, (cont'd overleaf)

WOLF MOUNTAIN COAL LTD.

ROTARY DRILL CORE LOG

HOLE No.: WM-RDH-82-07A
SHEET No: 5
PROJECT: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ CO-ORDS N: _____
LOCATION: _____ BEARING: _____ CORE SIZE: _____ E: _____
DATE: _____ HOLE ANGLE: _____ LOGGED BY: _____ CONTRACTOR: _____

BCN	BOX MARKER	SAMPLE INTERVAL FROM	SAMPLE INTERVAL TO	SAMPLE INTERVAL THICK	CORE LOSS	LITHOLOGICAL UNIT FROM	LITHOLOGICAL UNIT TO	LITHOLOGICAL UNIT APPAR. THK.	LITHOLOGICAL UNIT TRUE THK.	% REC.	DESCRIPTION
											cont'd -secondary calcite. Slickensides make an angle of 45° with the plane of the joint face.
	93.00' 28.34m										END OF HOLE

JHP COAL-EX CONSULTING LTD.

APPENDIX B.III

SURVEY DATA

WOLF MOUNTAIN
POLYCONIC CO-ORDS

DATE 10/29/92 LIST COORDINATE PAGE 0001

POINT #	NORTH	EAST
1	13889.22246	70108.05356
2	13868.57435	69972.86335
3	13821.95603	69890.18579
4	13753.60456	69923.95228
5	13705.16831	70009.81007
6	13636.44275	70127.03166
7	13577.90964	70192.83477
8	13491.60389	70276.54701
9	16410.84521	70569.61585
10	13487.14100	70394.30551
11	13398.17121	70541.02728
12	13346.01634	70653.14390
13	13369.01399	70788.16745
14	13358.58879	70902.85463
15	13286.40700	70976.70351
16	13527.24806	70902.08365
17	13752.62812	69926.89448
18	13503.28932	70172.28782
19	13515.35046	70110.90963
20	13519.85381	69996.28006
21	13523.55652	69989.30152
22	13124.47673	70897.34221
23	13154.89422	70846.70585
24	13165.73987	70837.83725
25	13276.32475	71159.35511
26	13536.00830	70825.65255
27	13789.14394	70777.12590
28	13795.47166	70769.64259
29	13754.92157	70722.80650
30	13686.19598	70651.43814
31	13672.67086	70606.13917
32	13652.05037	70579.73756
33	13463.09454	70335.58850
34	13399.16493	70367.02033
35	13396.12052	70368.00520
36	13597.03458	71065.41929
37	13635.54139	71135.29512
38	13658.17829	71236.39176
39	13606.67233	71262.30219
40	13556.56162	71260.91171
41	13554.24666	71261.62811
42	13525.31652	70794.64407
43	13860.60827	70209.30755
44	13844.91769	70192.76531
45	13843.85107	70191.29766
46	13842.76495	70190.39682
47	13832.27670	70184.73984
48	16409.94573	70569.78655
49	15370.59900	69753.67900
50	13538.45247	69938.19944
51	13551.63957	69866.26363
52	13593.12107	69769.94462
53	13645.63321	69690.47423
54	13717.84947	69633.37404

55	13777.37024	69543.14702
56	13812.39097	69483.14272
57	13755.19054	69474.76223
58	13662.80563	69504.99064
59	13587.05619	69550.22065
60	13523.02837	69528.03411
61	13409.82921	69443.39343
62	13322.92282	69432.61623
63	13207.89630	69665.96043
64	13076.79467	69901.94745
65	13059.44864	70023.49958
66	12996.30054	70077.49237
67	12947.55423	70153.26636
68	12894.00285	70195.86158
69	12852.94397	70260.12458
70	12976.05832	70357.48787
71	13055.27186	70402.42629
72	13099.12293	70489.73598
73	13059.52297	70573.41022
74	13204.78837	70451.45112
75	13272.24605	70418.62347
76	13339.49279	70404.65328
77	12799.45913	70282.25161
78	12745.22857	70335.31939
79	12696.54991	70352.63833
80	12662.03795	70310.84552
81	12660.66873	70198.03615
82	12560.55885	70122.40855
83	12529.45407	70071.03095
84	12522.83812	69993.50800
85	12512.33381	69865.35719
86	12439.93695	69769.04453
87	12375.11061	69774.92653
88	12305.88162	69928.74446
89	12210.54440	70211.58834
90	12194.06034	70360.65299
91	12106.94020	70477.49568
92	11913.32873	70578.14707
93	11996.43270	70838.48701
94	12017.21406	70935.37375
95	12094.97033	71050.86665
96	12181.45191	71230.75743
97	12160.09892	71381.36656
98	12160.38880	71541.31273
99	12146.57392	71648.47816
100	12227.83493	71900.23567
101	12324.30483	71928.28385
102	12389.80309	71902.31397
103	13178.48975	71977.16048
104	13298.18266	71966.69398
105	13403.92601	71903.41029
106	13485.50848	71897.08313
107	13555.00640	71848.54583
108	13648.00641	71844.46457
109	13748.19869	71794.85539
110	13880.74992	71757.75788
111	14067.36725	71675.09979
112	14277.61841	71533.44441
113	14470.30011	71474.49711
114	14676.56983	71406.30349

WOLF MOUNTAIN
POLYCONIC CO-ORDS
LIST COORDINATE

DATE 10/29/52 PAGE 0002

POINT #	NORTH	EAST
115	13826.78987	69838.28089
116	13899.15915	69818.76323
117	14003.97115	69878.15368
118	14113.82869	69843.15770
119	14304.36743	69835.12467
120	14349.78107	69790.63300
121	13748.49784	69476.57170
122	13486.09468	69509.16628
123	13312.65928	69445.86224
124	12412.53631	69638.90330
125	12427.71743	69534.92065
126	12072.75614	70503.87350
127	12212.59137	71880.19531
128	13632.34864	71845.05757
129	13013.34089	70639.69197
130	12957.10793	70696.35063
131	13840.22926	70743.99895
132	13881.16241	70803.11948
133	13924.73784	70794.44214
134	13959.66076	70779.15566
135	13995.61756	70797.99230
136	14052.52448	70867.36993
137	14230.54809	70746.49620
138	14344.90660	70623.06508
139	14248.86490	70779.22543
140	14382.91967	70677.52769
150	11893.76884	69457.56221

CONTROL TRAVERSE STATION ELEVATIONS
FOR WOLF MOUNTAIN
COAL COMPANY

Traverse Station	Geodetic Elevation (metres)
1	738.32
2	727.79
3	712.90
4	707.76
5	698.89
6	681.66
7	669.33
8	653.80
9 = Mt. Benson (Government Survey Point)	
10	660.03
11	672.60
12	673.66
13	675.53
14	673.73
15	673.63
16	695.43
17 = 82-04	707.69
18	647.70
19	644.24
20	637.47
21 = 82-05	637.46
22	664.36
23	663.32
24 = 82-01	662.90
25 = 82-08	663.24
26	700.16
27	701.17
28 = 82-03	702.86
29	695.40
30	689.73
31	689.58

Traverse Station	Geodetic Elevation (metres)
32 = 82-09	688.25
33	650.98
34 = 82-06	635.90
35 = 82-06A	635.52
36	667.86
37	654.17
38	638.34
39	641.21
40 = 82-02A	643.21
41 = 82-02	643.37
42 = 81-05	699.51
43	
44 = 82-07C	736.25
45 = 82-07	735.79
46 = 82-07B	735.61
47 = 82-07A	734.29
48	
49	
50	634.22
51	632.20
52	631.81
53	633.25
54	634.05
55	635.78
56	636.13
57	629.34
58	621.17
59	616.46
60	607.04
61	582.10
62	564.10
63	552.29
64	540.59
65	542.34
66	531.82
67	520.88
68	513.23

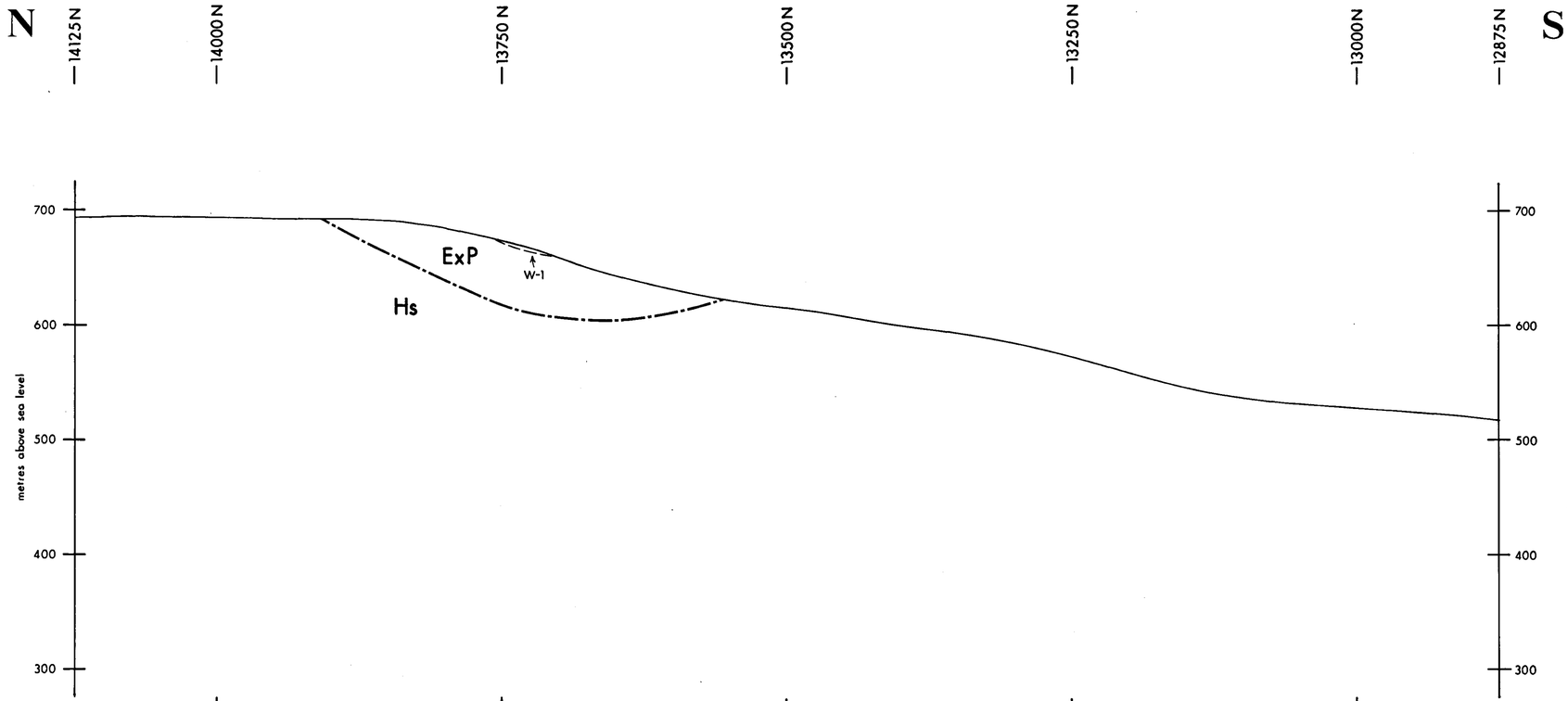
Traverse Station	Geodetic Elevation (metres)
69	505.90
70	549.17
71	578.73
72	599.72
73	599.73
74	617.81
75	623.53
76	632.09
77	497.59
78	487.18
79	478.70
80	471.91
81	471.49
82	469.54
83	467.67
84	467.23
85	465.89
86	461.04
87	453.32
88	446.42
89	432.47
90	424.20
91	417.61
92	406.31
93	396.89
94	399.29
95	396.17
96	397.55
97	393.37
98	384.12
99	375.97
100	361.87
101	370.71
102	419.00
103	426.50
104	432.18
105	436.17

Traverse Station	Geodetic Elevation (metres)
106	441.73
107	445.17
108	449.77
109	457.49
110	465.69
111	478.03
112	497.27
113 = Target #6	508.55
114	522.63
115	707.65
116	707.37
117	706.54
118	706.29
119	704.14
120 = Target #8	702.38
121 = Target #9	628.64
122 = Target #10	599.65
123 = Target #11	562.84
124	456.27
125 = Target #1	459.61
126 = Target #2	415.52
127 = Target #4	362.35
128 = Target #5	448.74
129	592.83
130 = Target #3	580.04
131	706.35
132	698.82
133	697.54
134	695.29
135	688.90
136	672.12
137	669.83
138 = Target #7	669.87

APPENDIX B.IV

GEOPHYSICAL LOGS

Pocket 1	WM-RDH-82-01 & WM-RDH-82-02
Pocket 2	WM-RDH-82-03 & WM-RDH-82-04
Pocket 3	WM-RDH-82-05 to WM-RDH-82-07
Pocket 4	WM-RDH-82-08 & WM-RDH-82-09
Pocket 5	GBS-RDH-81-09



LEGEND

UPPER CRETACEOUS
Nanaimo Group

ExP — EXTENSION-PROTECTION FORMATION
- conglomerate, sandstone, shale, coal

Hs — HASLAM FORMATION
- shale, siltstone, sandstone

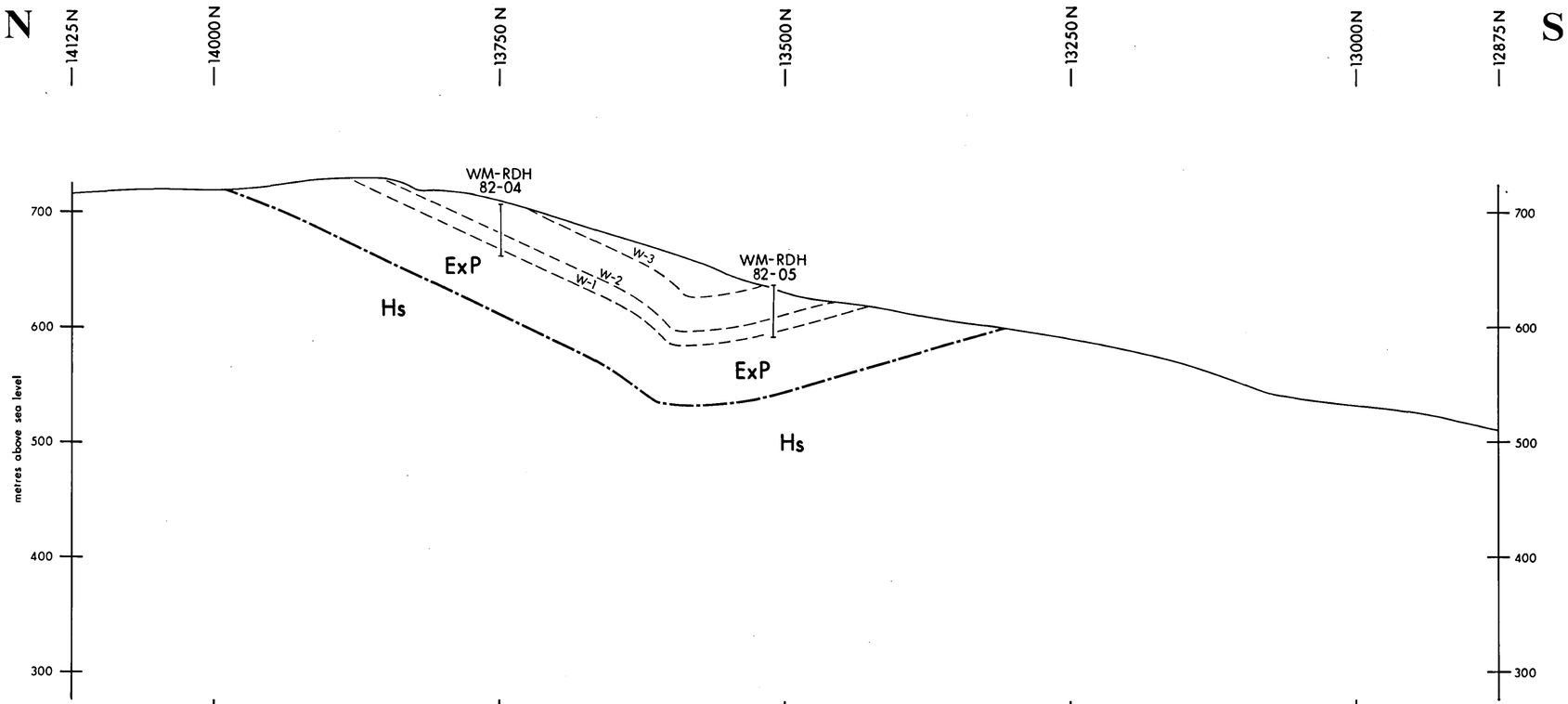
WOLF MOUNTAIN COAL LTD.

WOLF MOUNTAIN PROJECT

STRUCTURAL CROSS-SECTION 69750

FIG. 4.3 - Part 1 of 8

AUTHOR:	J. Perry	SCALE:	1:2,500
DRAWN BY:	P. Hall	DATE:	June 1983
CHECKED:		CLIENT APP.	
REVISED:		FILE No.	
COAL-EX CONSULTING LTD.		DWG. No.	177 (2) (M1)



LEGEND

UPPER CRETACEOUS Nanaimo Group

- ExP — EXTENSION-PROTECTION FORMATION - conglomerate, sandstone, shale, coal
- Hs — HASLAM FORMATION - shale, siltstone, sandstone

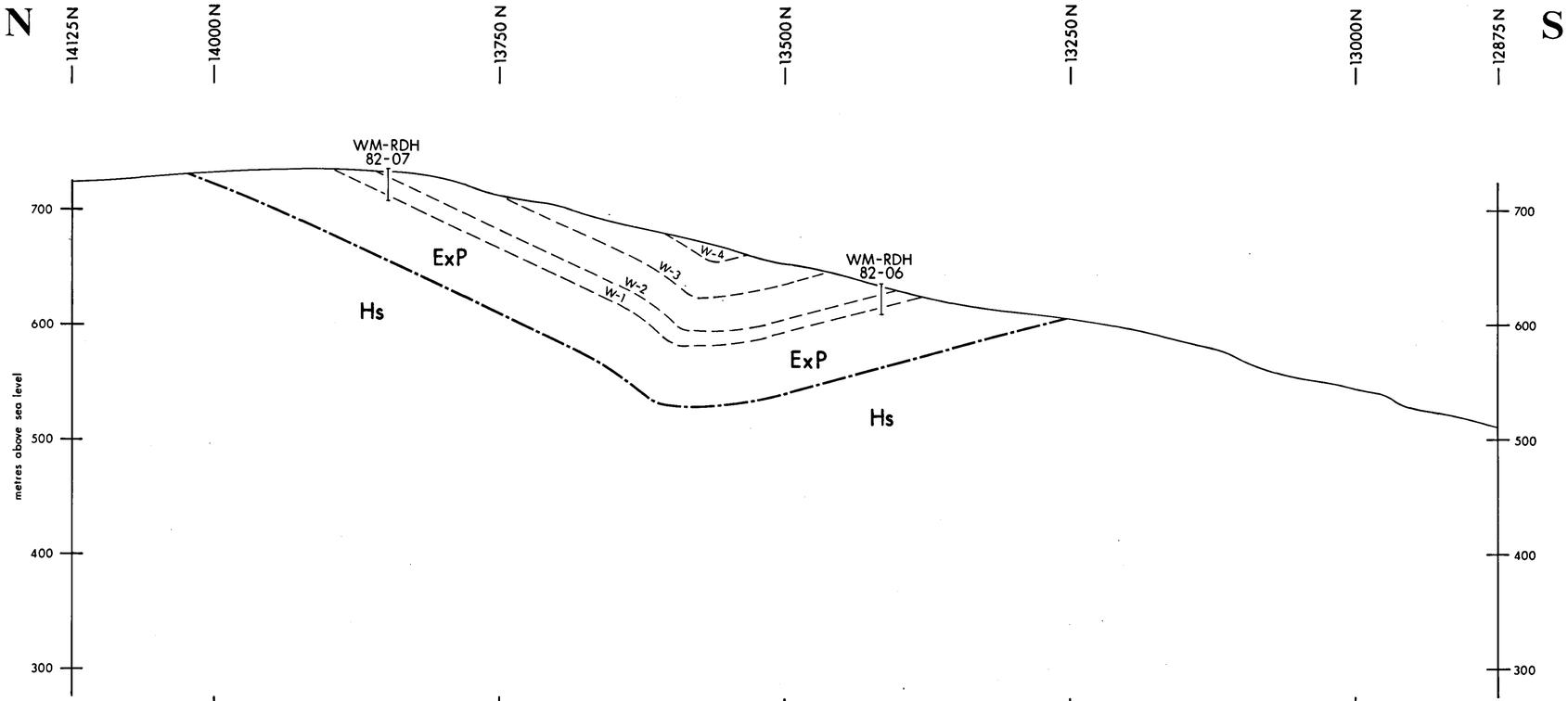
WOLF MOUNTAIN COAL LTD.

WOLF MOUNTAIN PROJECT

STRUCTURAL CROSS-SECTION 70000

FIG. 4.3 - Part 2 of 8

AUTHOR:	J. Perry	SCALE:	1:2,500
DRAWN BY:	P. Hall	DATE:	June 1983
CHECKED:		CLIENT APP.	
REVISED:		FILE No.	
COAL-EX CONSULTING LTD.		DWG. No.	177 (2) (M2)



LEGEND

UPPER CRETACEOUS Nanaimo Group

- ExP — EXTENSION-PROTECTION FORMATION - conglomerate, sandstone, shale, coal
- Hs — HASLAM FORMATION - shale, siltstone, sandstone

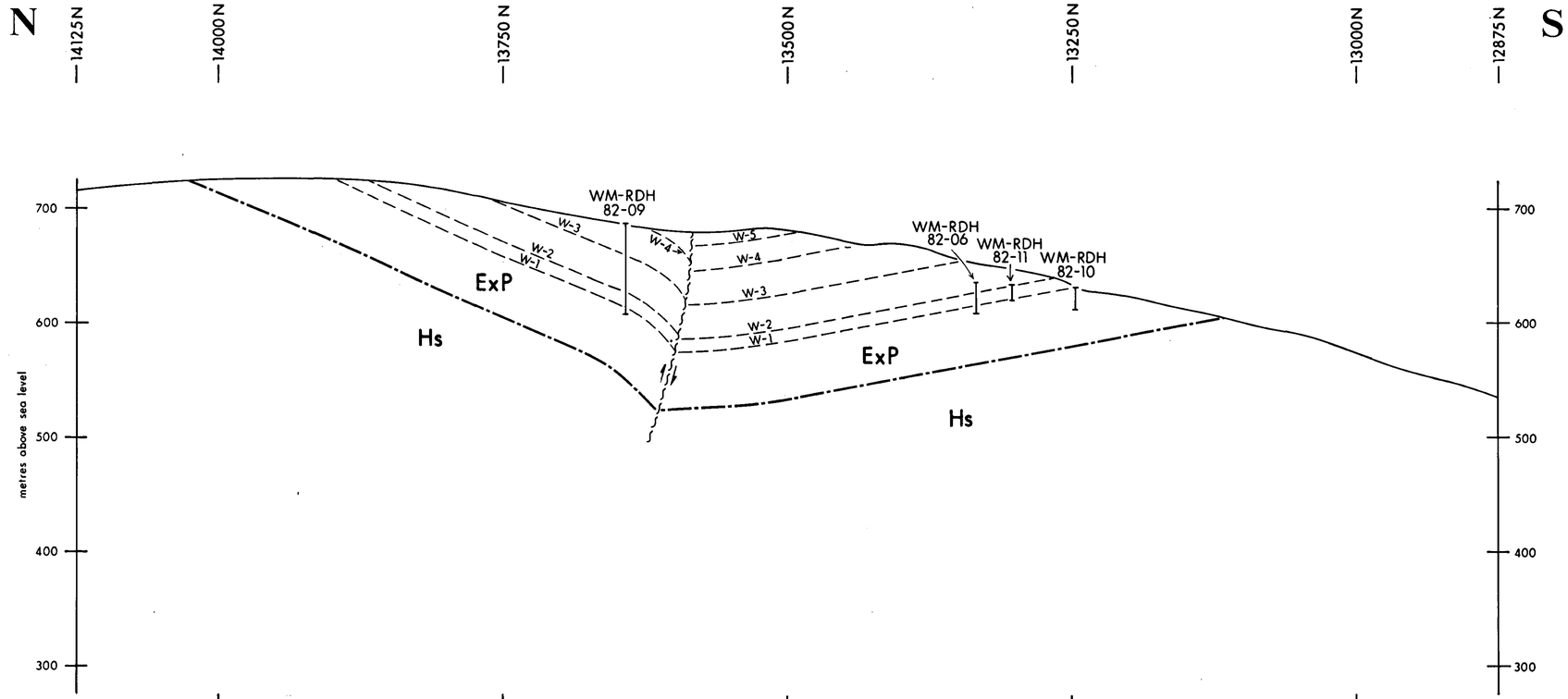
WOLF MOUNTAIN COAL LTD.

WOLF MOUNTAIN PROJECT

STRUCTURAL CROSS-SECTION 70250

FIG. 4.3 - Part 3 of 8

AUTHOR:	J. Perry	SCALE:	1:2,500
DRAWN BY:	P. Hall	DATE:	June 1983
CHECKED:		CLIENT APP.	
REVISED:		FILE No.	
COAL-EX CONSULTING LTD.		DWG. No.	177(2) (M3)



LEGEND

UPPER CRETACEOUS Nanaimo Group

- ExP — EXTENSION-PROTECTION FORMATION - conglomerate, sandstone, shale, coal
- Hs — HASLAM FORMATION - shale, siltstone, sandstone

WOLF MOUNTAIN COAL LTD.

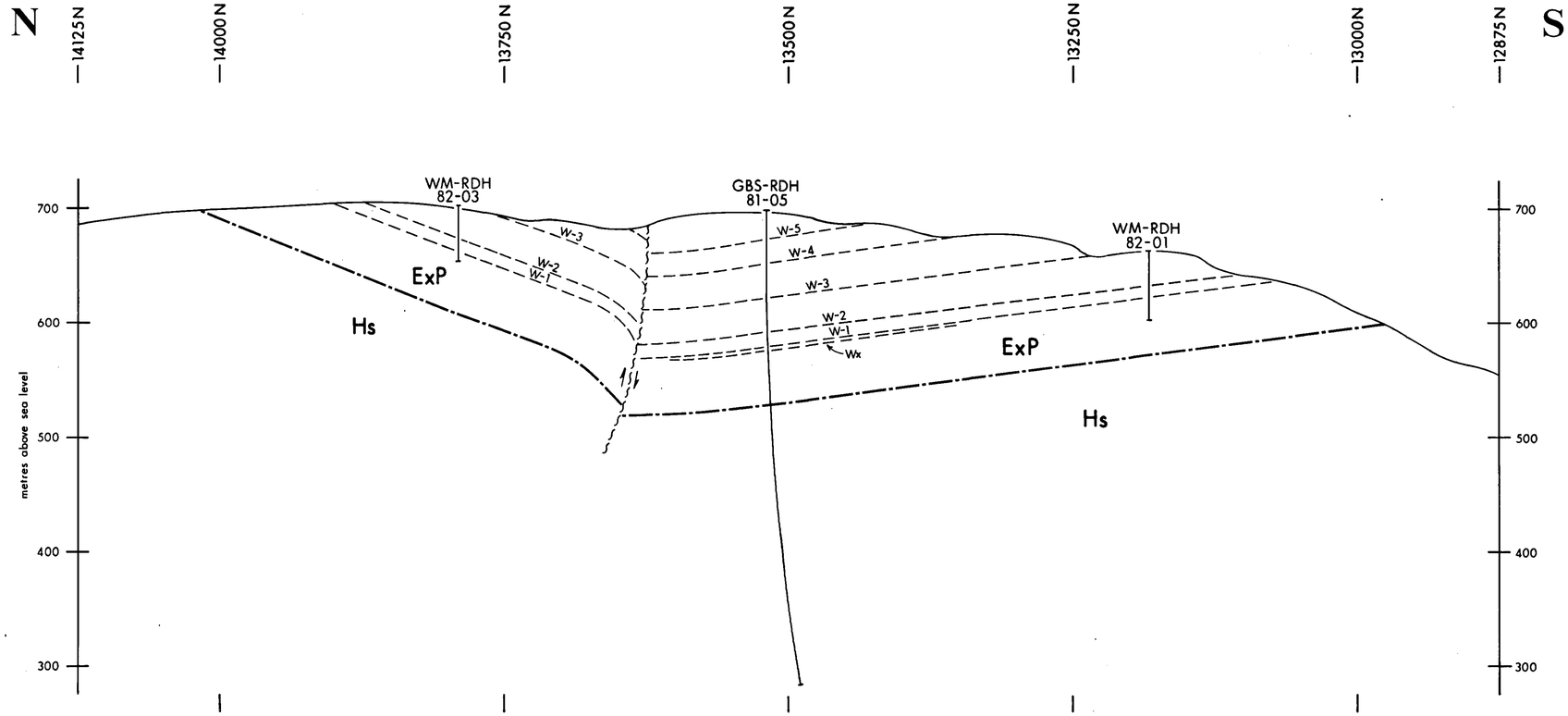
WOLF MOUNTAIN PROJECT

STRUCTURAL CROSS-SECTION 70500

FIG. 4.3 - Part 4 of 8

AUTHOR:	J. Perry	SCALE:	1:2,500
DRAWN BY:	P. Hall	DATE:	June 1983
CHECKED:		CLIENT APP.	
REVISED:		FILE No.	
		DWG. No.	177 (2) M4

COAL-EX CONSULTING LTD.



LEGEND

UPPER CRETACEOUS
Nanaimo Group

- ExP — EXTENSION-PROTECTION FORMATION - conglomerate, sandstone, shale, coal
- Hs — HASLAM FORMATION - shale, siltstone, sandstone

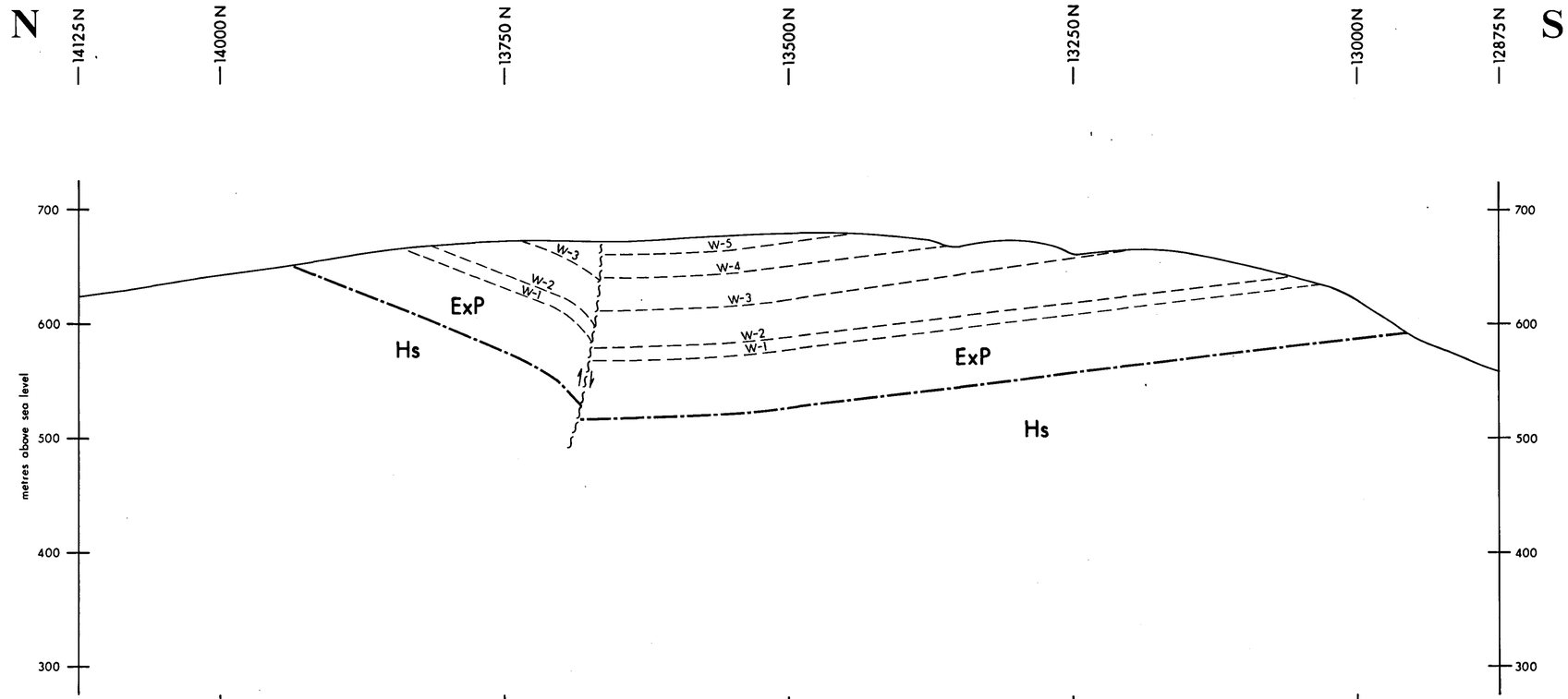
WOLF MOUNTAIN, COAL LTD.

WOLF MOUNTAIN PROJECT

STRUCTURAL CROSS-SECTION 70750

FIG. 4.3 - Part 5 of 8

AUTHOR:	J. Perry	SCALE:	1:2,500
DRAWN BY:	P. Hall	DATE:	June 1983
CHECKED:		CLIENT APP.	
REVISED:		FILE No.	
COAL-EX CONSULTING LTD.		DWG. No.	177 (2) (M5)



LEGEND

UPPER CRETACEOUS Nanaimo Group

- ExP — EXTENSION-PROTECTION FORMATION - conglomerate, sandstone, shale, coal
- Hs — HASLAM FORMATION - shale, siltstone, sandstone

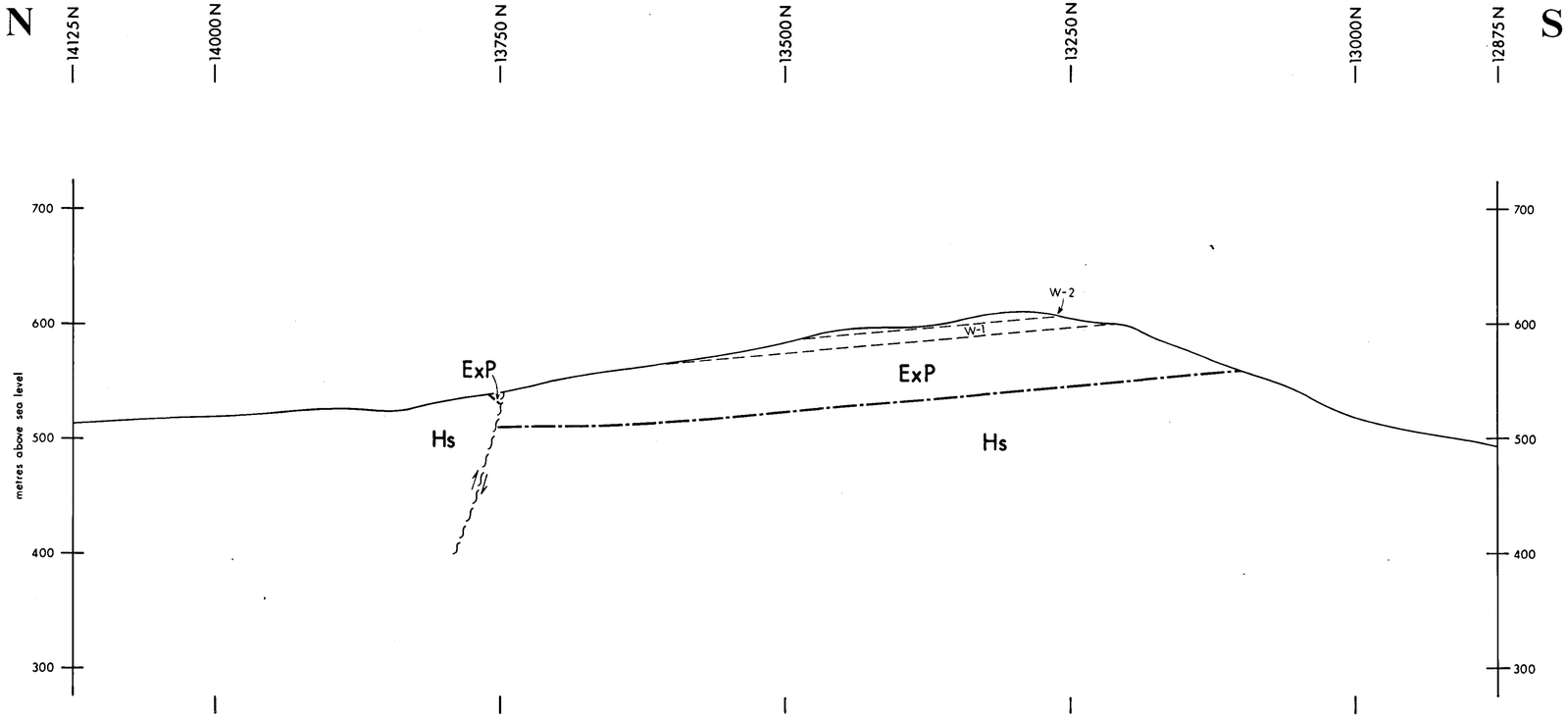
WOLF MOUNTAIN COAL LTD.

WOLF MOUNTAIN PROJECT

STRUCTURAL CROSS-SECTION 71000

FIG. 4.3 - Part 6 of 8

AUTHOR:	J. Perry	SCALE:	1:2,500
DRAWN BY:	P. Hall	DATE:	June 1983
CHECKED:		CLIENT APP.	
REVISED:		FILE No.	
HP COAL-EX CONSULTING LTD.		DWG. No.	177 (2) (M6)



LEGEND

UPPER CRETACEOUS Nanaimo Group

ExP — EXTENSION-PROTECTION FORMATION
-conglomerate, sandstone, shale, coal

Hs — HASLAM FORMATION
-shale, siltstone, sandstone

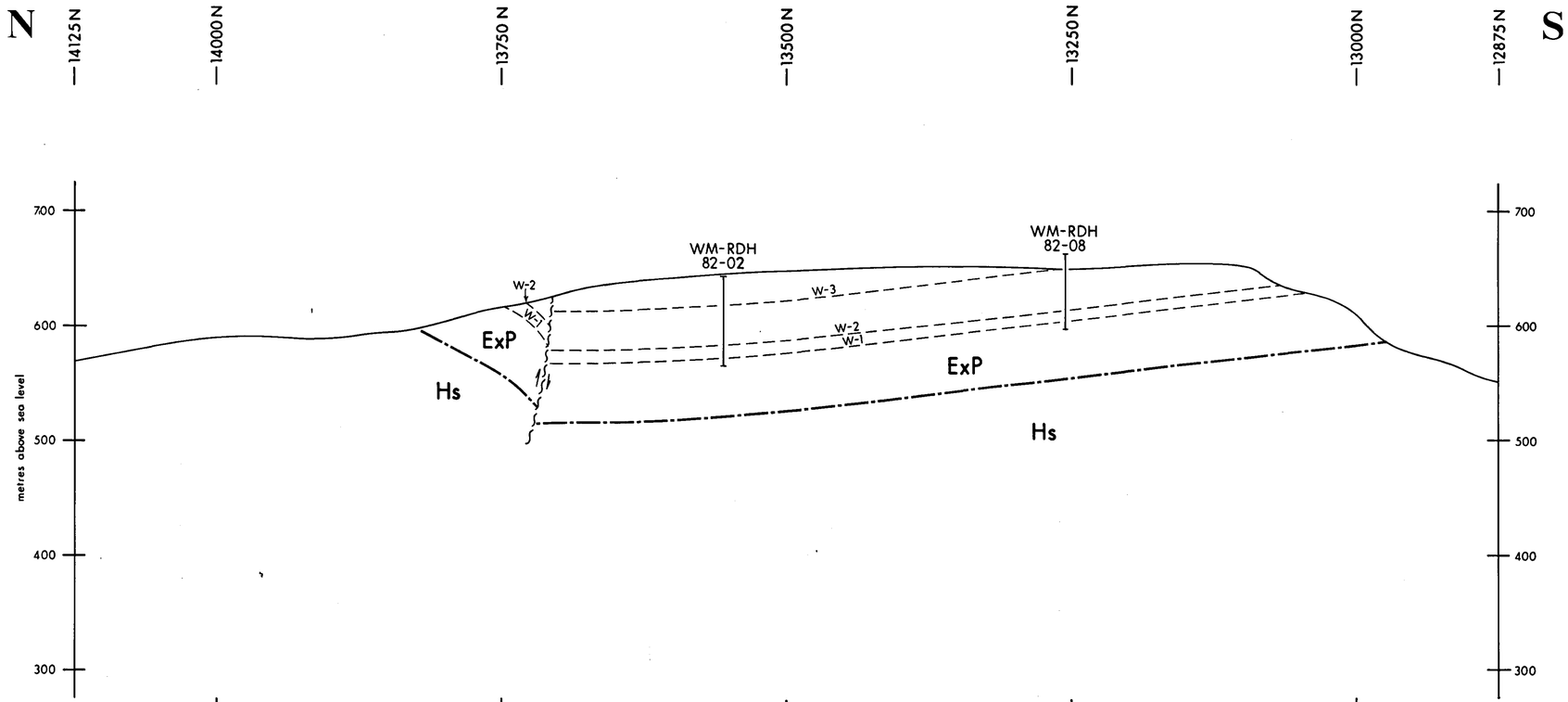
WOLF MOUNTAIN COAL LTD.

WOLF MOUNTAIN PROJECT

STRUCTURAL CROSS-SECTION 71500

FIG. 4.3 - Part 8 of 8

AUTHOR:	J. Perry	SCALE:	1:2,500
DRAWN BY:	P. Hall	DATE:	June 1983
CHECKED:		CLIENT APP.	
REVISED:		FILE No.	
COAL-EX CONSULTING LTD.		DWG. No.	177 (2) (16) a



LEGEND

UPPER CRETACEOUS Nanaimo Group

- ExP — EXTENSION-PROTECTION FORMATION - conglomerate, sandstone, shale, coal
- Hs — HASLAM FORMATION - shale, siltstone, sandstone

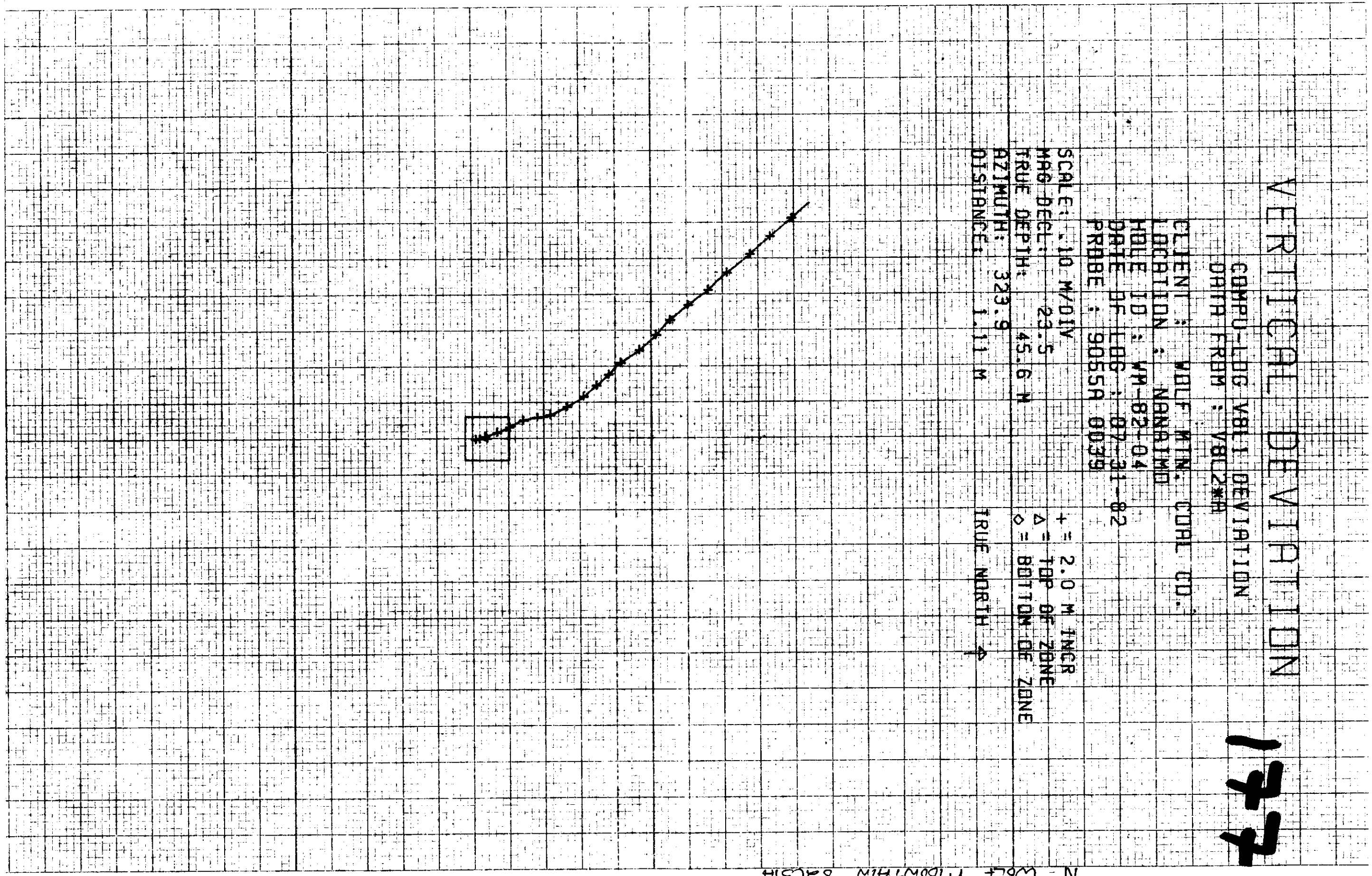
WOLF MOUNTAIN COAL LTD.

WOLF MOUNTAIN PROJECT

STRUCTURAL CROSS-SECTION 71250

FIG. 4.3 - Part 7 of 8

AUTHOR: J. Perry	SCALE: 1:2,500
DRAWN BY: P. Hall	DATE: June 1983
CHECKED:	CLIENT APP.
REVISED:	FILE No.
COAL-EX CONSULTING LTD.	DWG. No. 177 (2) (M7)


VERTICAL DEVIATION
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2**B
CLIENT : WOLF MTN. COAL CO.
LOCATION : NANAIMO
HOLE ID : WM-82-04
DATE OF LOG : 07-31-82
PROBE : 9055A 0039
SCALE: 10 M/DIV
MAG DECL: 23.5
TRUE DEPTH: 45.6 M
AZIMUTH: 323.9
DISTANCE: 1.11 M
+ = 2.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE
TRUE NORTH
N - Wolf Mountain 82(3)A

VERTICAL DEVIATION

COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

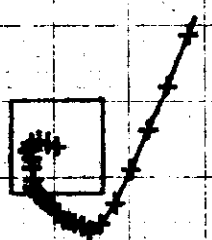
177

CLIENT : WOLF MTN. COAL CO.
LOCATION : NANAIMO
HOLE ID : WM-82-03
DATE OF LOG : 07-30-82
PROBE : 9055A 0039

SCALE: .10 M/DIV
MAG DECL: 23.5
TRUE DEPTH: 48.7 M
AZIMUTH: 47.2
DISTANCE: .25 M

+ = 2.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

N - Wolf Mountain 82(3)A

ART NO. 786-0040

VERTICAL DEVIATION

COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : WOLF MTN. COAL CO.
LOCATION : NANAIMO
HOLE ID : WM-82-02
DATE OF LOG : 07-29-82
PROBE : 9055A 0039

SCALE: .10 M/DIV
MAG DECL: 23.5
TRUE DEPTH: 78.2 M
AZIMUTH: 300.3
DISTANCE: .44 M

+ = 5.0 M INCR
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑

N-Wolf Mountain 82(3)A

177

VERTICAL DEVIATION

COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : WOLF MTN. COAL CO.
LOCATION : NANAIMO
HOLE ID : WM-82-01
DATE OF LOG : 07-28-82
PROBE : 9055A 0039

SCALE: .10 M/DIV
MAG DECL: 23.5
TRUE DEPTH: 60.9 M
AZIMUTH: 206.3
DISTANCE: .23 M

+ = 2.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑

177

N- Wolf Mountain 82(3)A

CENTURY GEOPHYSICAL CORP. PART NO. 78(

CENTURY GEOPHYSICAL CORP. PART NO. 78(

VERTICAL DEVIATION

177

COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : WOLF MTN. COAL CO.
LOCATION : NANAIMO
HOLE ID : WM-82-05
DATE OF LOG : 08-01-82
PROBE : 9055A 0039

SCALE: .10 M/DIV
MAG DECL: 23.5
TRUE DEPTH: 45.6 M
AZIMUTH: 342.6
DISTANCE: .15 M

+ = 2.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑

N. Wolf Mountain 82(3)A

175

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

VERTICAL DEVIATION

177

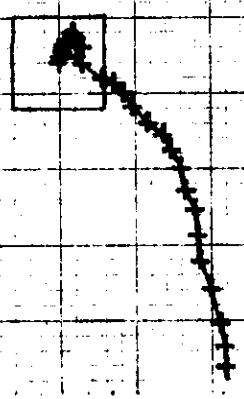
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : WOLF MTN. COAL CO.
LOCATION : NANAIMO
HOLE ID : WM-82-06
DATE OF LOG : 08-02-82
PROBE : 9055A 0039

SCALE: .10 M/DIV
MAG DECL: 23.5
TRUE DEPTH: 26.4 M
AZIMUTH: 152.1
DISTANCE: .47 M

+ = 1.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



N - Wolf Mountain 88(2)A

CENTURY GEOPHYSICA

VERTICAL DEVIATION

177

COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : WOLF MTN. COAL CO.
LOCATION : NANAIMO
HOLE ID : WM-82-07
DATE OF LOG : 08-07-82
PROBE : 9055A 0039

SCALE: .10 M/DIV
MAG DECL: 23.5
TRUE DEPTH: 27.3 M
AZIMUTH: 12.7
DISTANCE: .29 M

+ = 1.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑

N - Wolf Mountain 82(3)A

51

112

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

VERTICAL DEVIATION

177

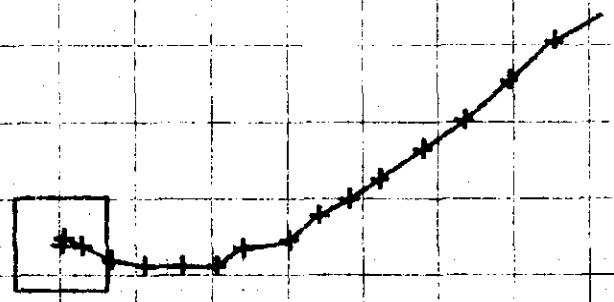
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : WOLF MTN. COAL CO.
LOCATION : NANAIMO
HOLE ID : WM-82-09
DATE OF LOG : 08-06-82
PROBE : 9055A 0039

SCALE: .25 M/DIV
MAG DECL: 23.5
TRUE DEPTH: 79.1 M
AZIMUTH: 67.1
DISTANCE: 1.93 M

+ = 5.0 M INCR
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



N-Wolf Mountain 82(3)A

VERTICAL DEVIATION

177

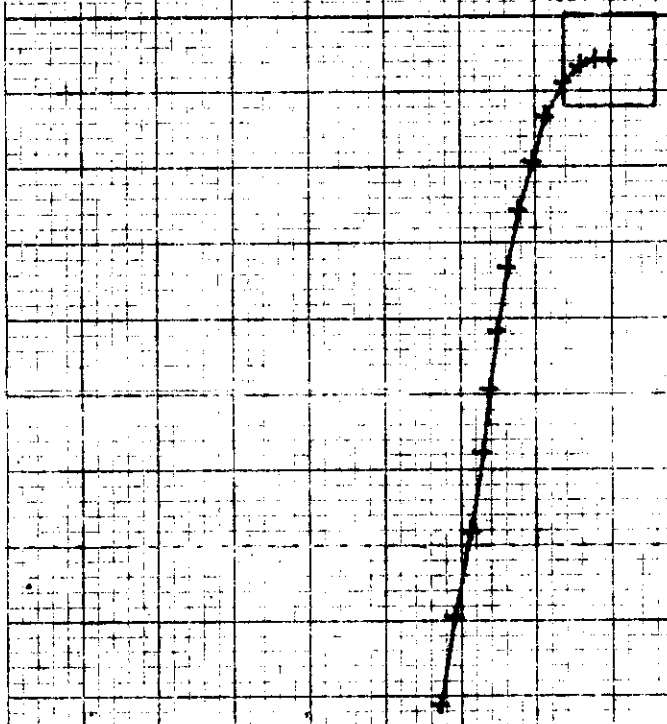
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : WOLF MTN. COAL CO.
LOCATION : NANAIMO
HOLE ID : WM-82-08
DATE OF LOG : 08-05-82
PROBE : 9055A 0039

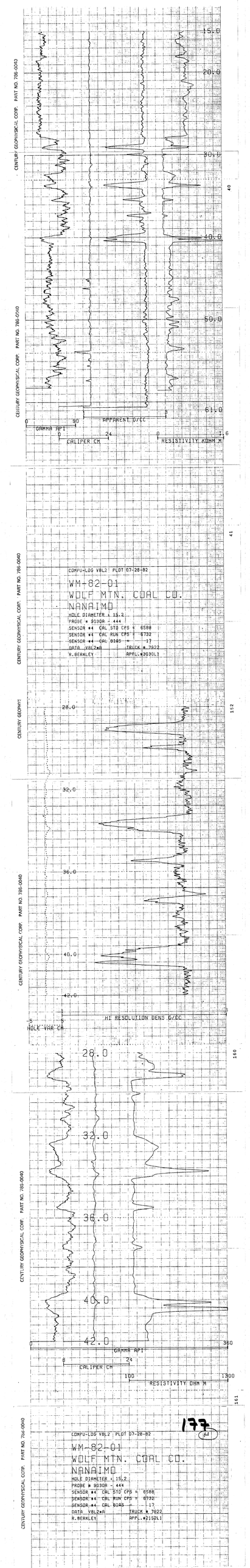
SCALE: .25 M/DIV
MAG DECL: 23.5
TRUE DEPTH: 65.3 M
AZIMUTH: 194.8
DISTANCE: 2.22 M

+ = 5.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑

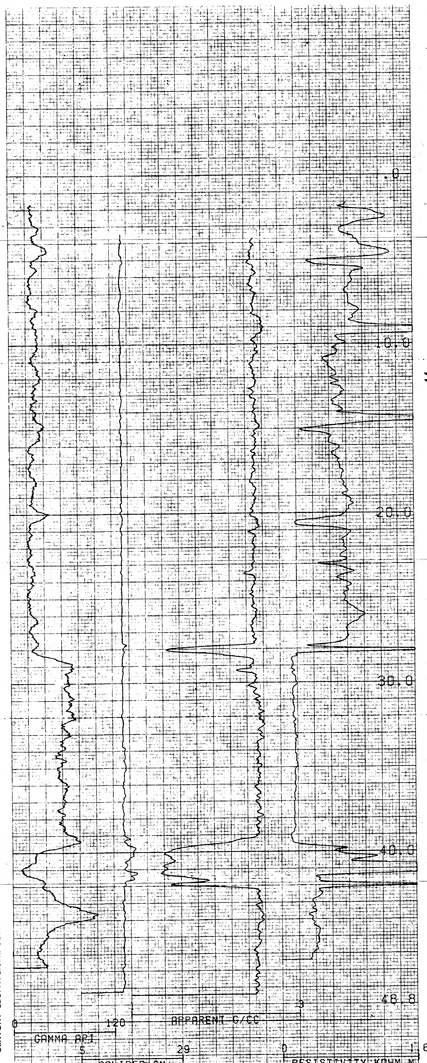


N-Wolf Mountain 82(3)A


CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
15.0
20.0
30.0
40.0
50.0
61.0
40
0
90
GAMMA API
APPARENT G/CC
8
0
24
CALIPER CM
0
6
RESISTIVITY KOHM M
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
41
COMPU-LOG V8L2 PLOT 07-28-82
WM-82-01
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER = 15.2
PROBE # 9030R = 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2#A TRUCK # 7022
R.BERKLEY APPL.#9030L1
CENTURY GEOPHYS
28.0
32.0
36.0
40.0
42.0
152
-6
-6
HOLE VAR CM
HI RESOLUTION DENS G/CC
3
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
28.0
160
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
32.0
36.0
40.0
42.0
0
360
GAMMA API
8
24
CALIPER CM
100
1300
RESISTIVITY OHM M
161
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
COMPU-LOG V8L2 PLOT 07-28-82
WM-82-01
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER = 15.2
PROBE # 9030R = 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2#A TRUCK # 7022
R.BERKLEY APPL.#2152L1

177

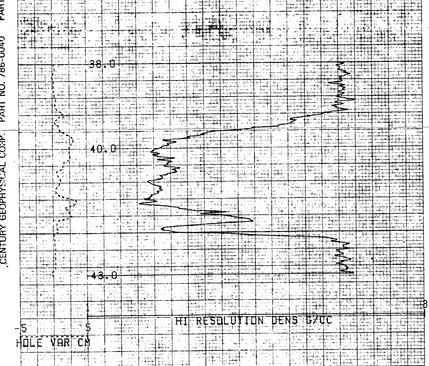
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

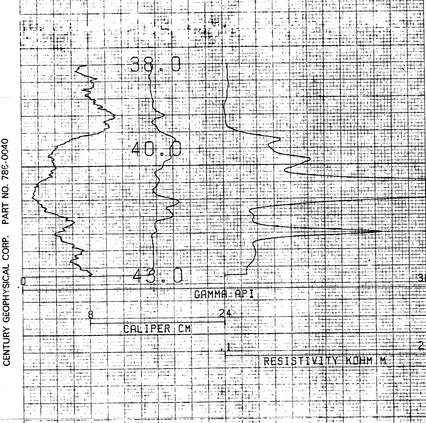


COMPU-LOG V8L2 PLOT 07-30-82

WM-82-03
WOLF MTN. COAL CO.
NANAIMO

HOLE DIAMETER = 15.2
PROBE # 9030A = 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2=A TRUCK # 7922
R.BERKLEY APPL.#1007L1



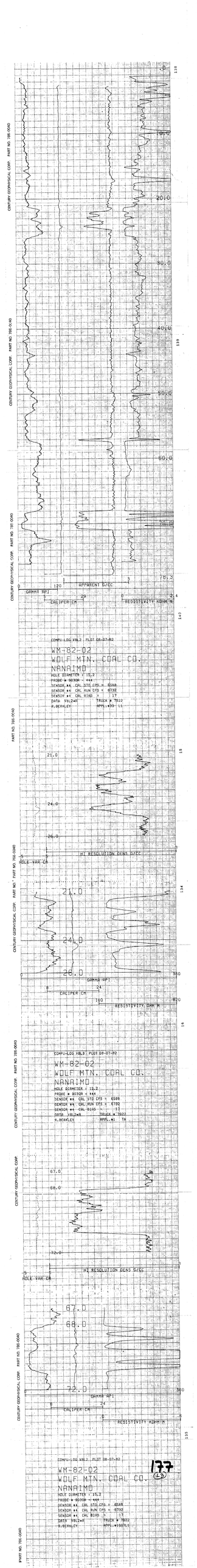


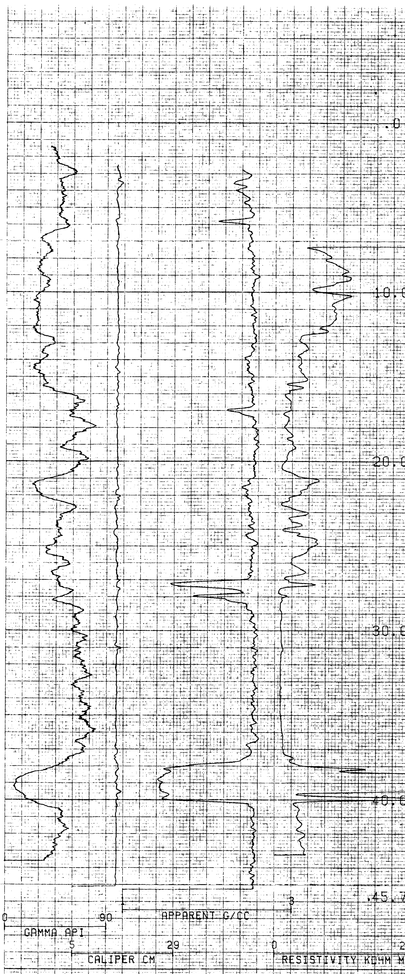
COMPU-LOG V8L2 PLOT 07-30-82

WM-82-03
WOLF MTN. COAL CO.
NANAIMO

HOLE DIAMETER = 15.2
PROBE # 9030A = 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2=A TRUCK # 7922
R.BERKLEY APPL.#1007L1

177
(2)


CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
COMPU-LOG VOL2 PLOT 08-07-82
WM-82-02
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER = 15.2
PROBE # 8030R = 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA VOL2#4 TRUCK # 7922
R.BEAKLEY APPL.#3 LS
GAMMA API
APPARENT G/CC
CALIPER CM
RESISTIVITY KOHM M
HI RESOLUTION DENS G/CC
HOLE VAR CM
GAMMA API
CALIPER CM
RESISTIVITY KOHM M
177
LS



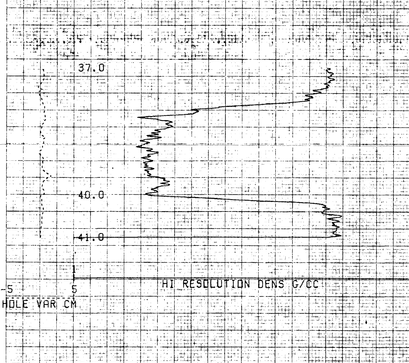
COMPU-LOG V8L2 PLOT 08-01-82

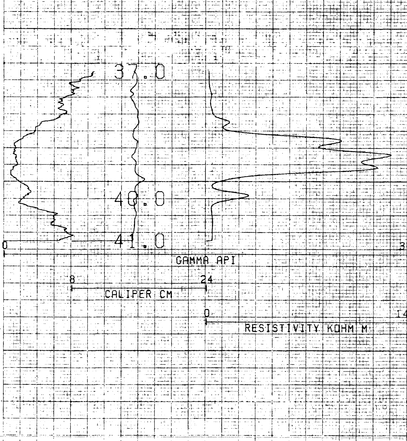
WM-82-05

WOLF MTN. COAL CO.

NANAIMO

HOLE DIAMETER = 15.2
PROBE # 9030A - 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2#A TRUCK # 7922
R.BERKLEY APPL.#3030L1





COMPU-LOG V8L2 PLOT 08-01-82

WM-82-05

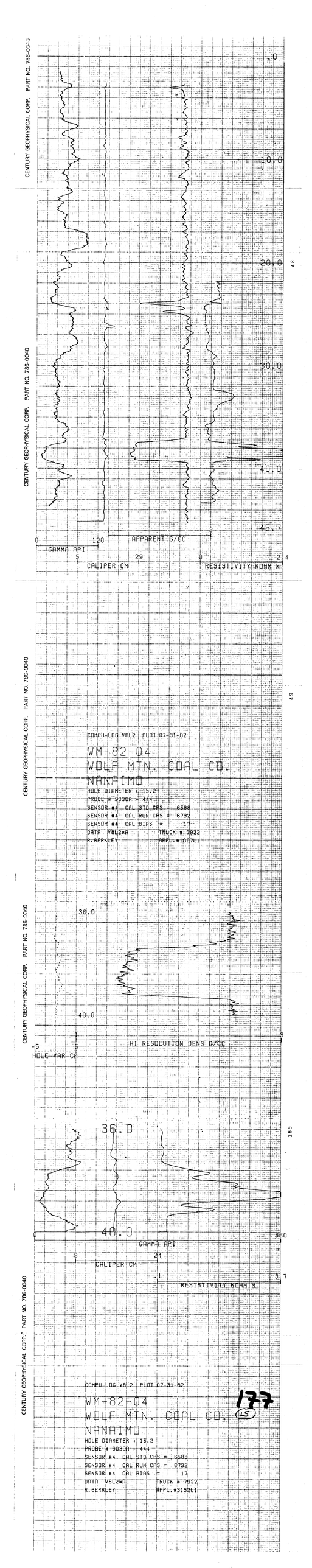
WOLF MTN. COAL CO.

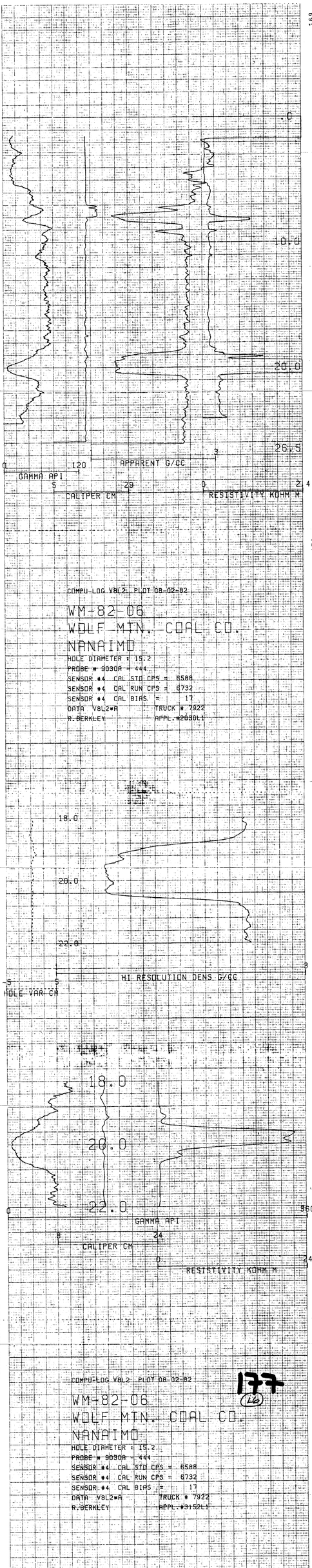
NANAIMO

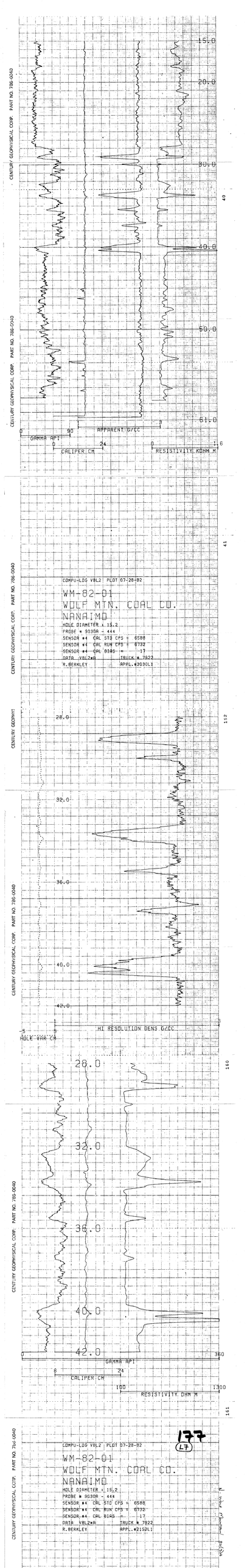
HOLE DIAMETER = 15.2
PROBE # 9030A - 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2#A TRUCK # 7922
R.BERKLEY APPL.#3152L1

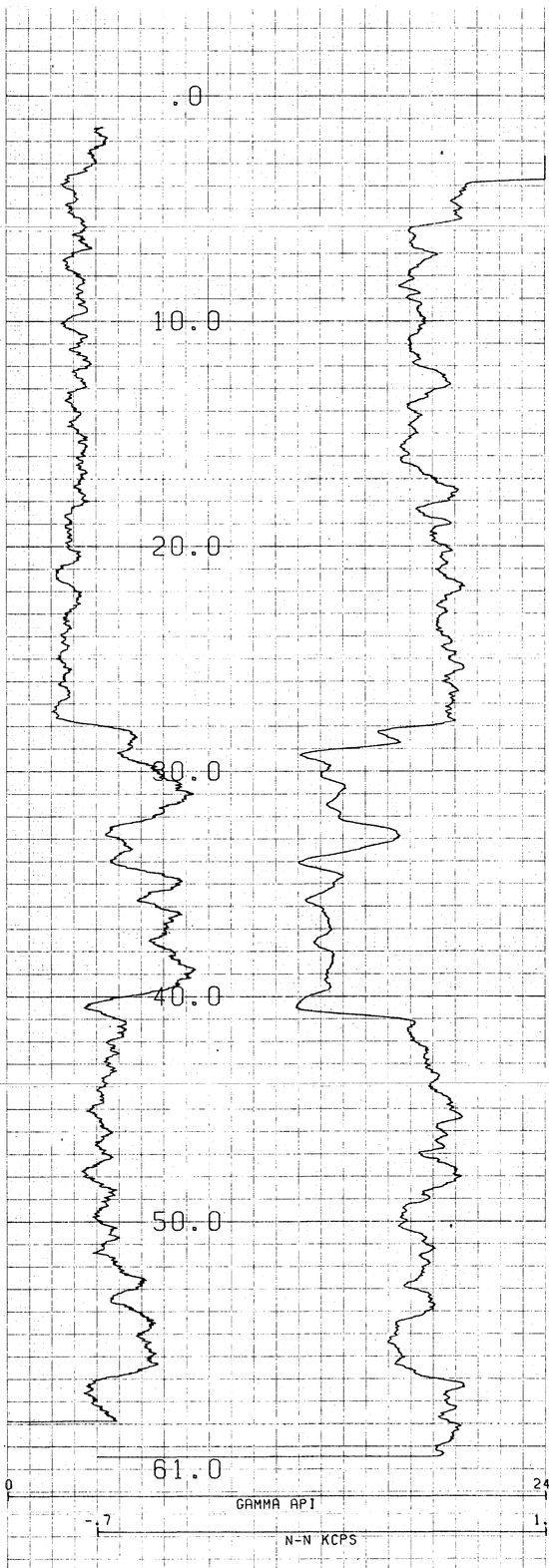
177 LH

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040


CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
.0
10.0
20.0
30.0
40.0
45.7
48
0
120
GAMMA API
APPARENT G/CC
3
5
29
CALIPER CM
0
2.4
RESISTIVITY KOHM M
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
49
COMPU-LOG V8L2 PLOT 07-31-82
WM-82-04
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER : 15.2
PROBE # 9030A 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2=A TRUCK # 7922
R.BERKLEY APPL.#1087L1
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
36.0
40.0
.5
5
HOLE VAR CM
HI RESOLUTION DENS G/CC
3
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
165
36.0
40.0
0
360
GAMMA API
8
24
CALIPER CM
.1
3.7
RESISTIVITY KOHM M
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
COMPU-LOG V8L2 PLOT 07-31-82
WM-82-04
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER : 15.2
PROBE # 9030A 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2=A TRUCK # 7922
R.BERKLEY APPL.#3152L1
177
15


CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
169
.0
10.0
20.0
26.5
0
120
GAMMA API
APPARENT G/CC
3
5
29
CALIPER CM
0
2.4
RESISTIVITY KOHM M
170
COMPU-LOG V8L2 PLOT 08-02-82
WM-82-06
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER : 15.2
PROBE # 9030A - 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2=A TRUCK # 7922
R.BERKLEY APPL.#2030L1
18.0
20.0
22.0
.8
HI RESOLUTION DENS G/CC
.5
.5
HOLE VAR CM
18.0
20.0
22.0
0
360
GAMMA API
8
24
CALIPER CM
0
2.4
RESISTIVITY KOHM M
22
COMPU-LOG V8L2 PLOT 08-02-82
177
(16)
WM-82-06
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER : 15.2
PROBE # 9030A - 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2=A TRUCK # 7922
R.BERKLEY APPL.#3152L1


CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
15.0
20.0
30.0
40.0
50.0
61.0
40
0
90
APPARENT G/CC
3
GAMMA API
0
24
0
1
6
CALIPER CM
RESISTIVITY KOHM M
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
41
COMPU-LOG V8L2 PLOT 07-28-82
WM-82-01
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER = 15.2
PROBE # 9030A = 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = -17
DATA V8L2#A TRUCK # 7922
R.BERKLEY APPL.#3030L1
CENTURY GEOPHYS
28.0
152
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
32.0
36.0
40.0
42.0
5
HOLE VAR CM
HI RESOLUTION DENS G/CC
28.0
160
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
32.0
36.0
40.0
42.0
0
360
GAMMA API
8
24
CALIPER CM
100
1300
RESISTIVITY OHM M
161
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
COMPU-LOG V8L2 PLOT 07-28-82
177
L7
WM-82-01
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER = 15.2
PROBE # 9030A = 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = -17
DATA V8L2#A TRUCK # 7922
R.BERKLEY APPL.#2152L1
RECEIVED MAR 1 1983 DIV. OF OIL & GAS



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

197

195

177

COMPU-LOG V8L2 PLOT 07-28-82

WM-82-01

WOLF MTN. COAL CO.

NANAIMO

HOLE DIAMETER : 15.2

PROBE # 9055A - 039

SENSOR #4 CAL STD CPS = 152

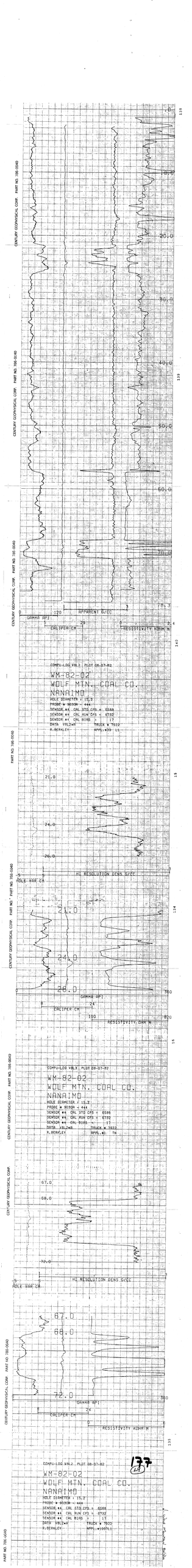
SENSOR #4 CAL RUN CPS = 158

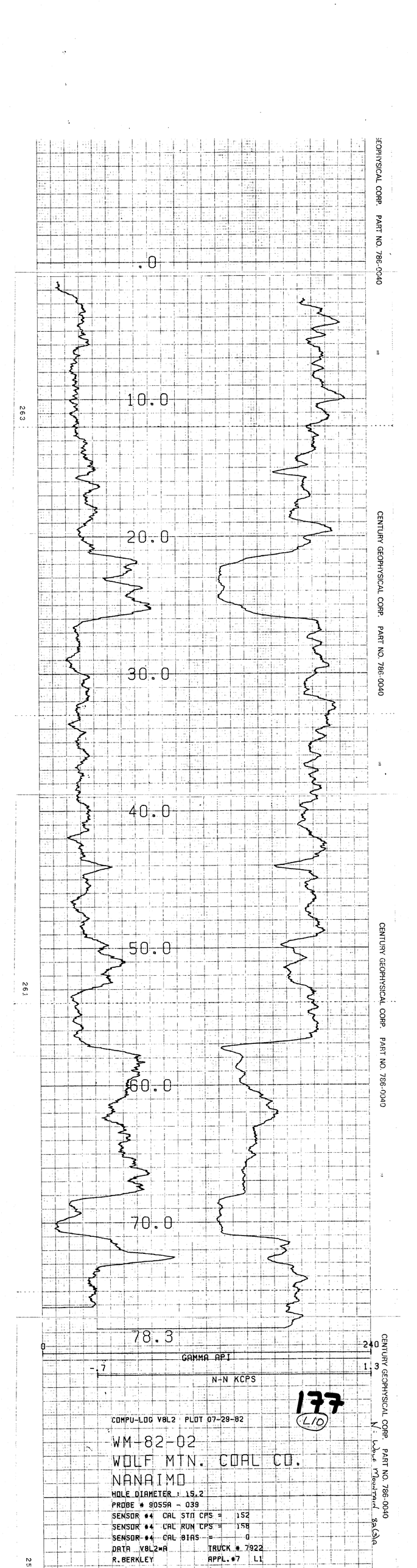
SENSOR #4 CAL BIAS = 0

DATA V8L2WA TRUCK # 7922

R.BERKLEY APPL.#1007L1

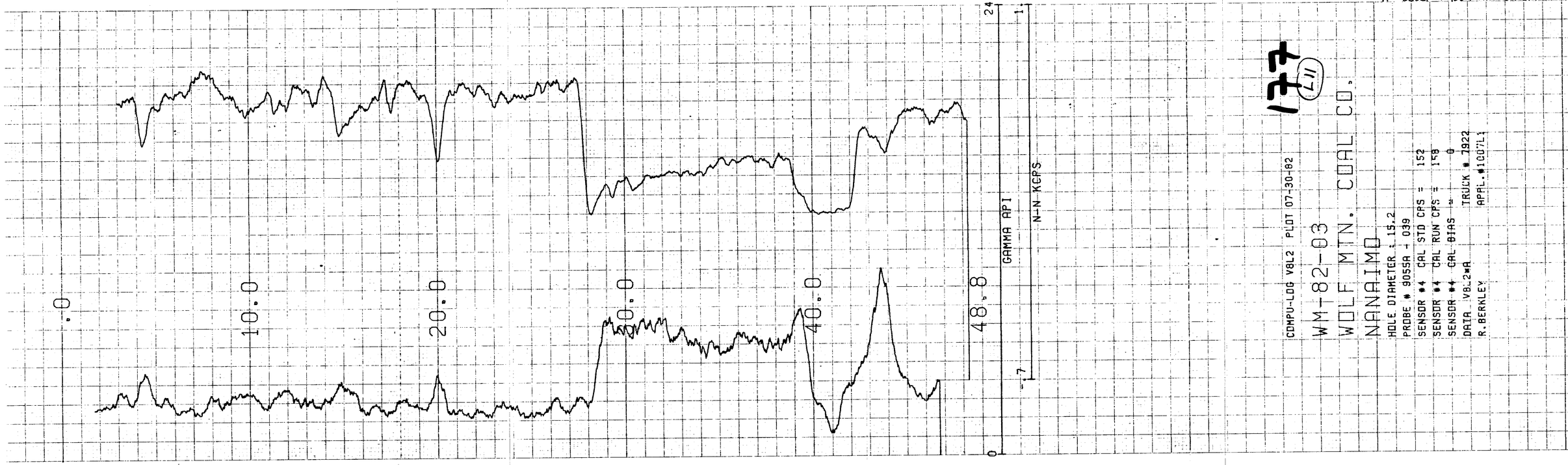
N - Wolf Mountain Scale


CENTURY GEOPHYSICAL CORP PART NO. 786-0040
COMPU-LOG VOL.2 PLOT 08-07-92
WM-82-02
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER = 15.2
PROBE # 8030H = 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA VOL2#8 TRUCK # 7922
R.BERKLEY APPL.#30-161
GAMMA API
CALIPER CM
APPARENT G/CC
RESISTIVITY KOHM M
HI RESOLUTION DENS G/CC
HOLE #4A CA
177


GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
78.3
263
261
0
240
GAMMA API
-.7
1.3
N-N KCPS
177
L10
COMPU-LOG V8L2 PLOT 07-29-82
WM-82-02
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER : 15.2
PROBE # 9055A - 039
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 158
SENSOR #4 CAL BIAS = 0
DATA V8L2#A TRUCK # 7922
R.BERKLEY APPL.#7 L1
N. Wolf Mountain 8a(3)a
25

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

N- Wolf Mountain 82(3)A



177 (117)

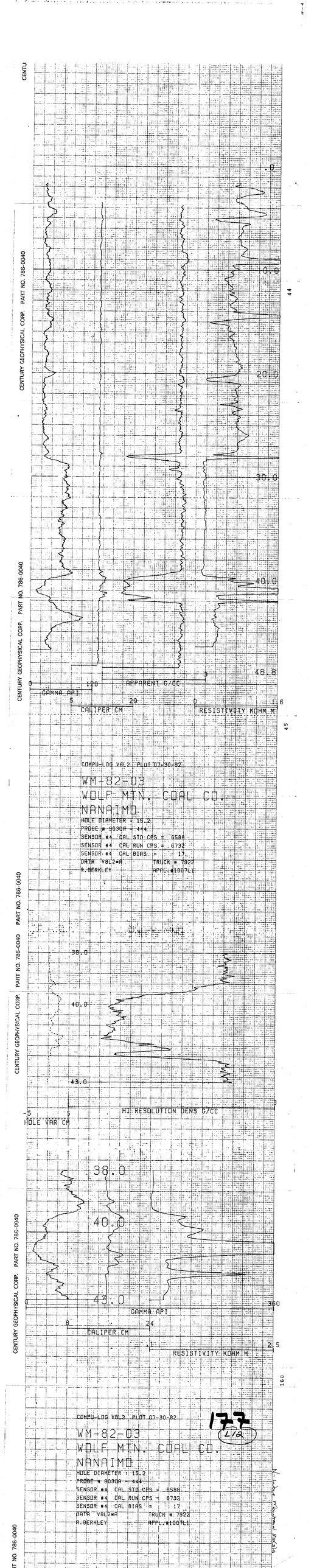
COMPU-LOG V8L2 PLOT 07-30-82

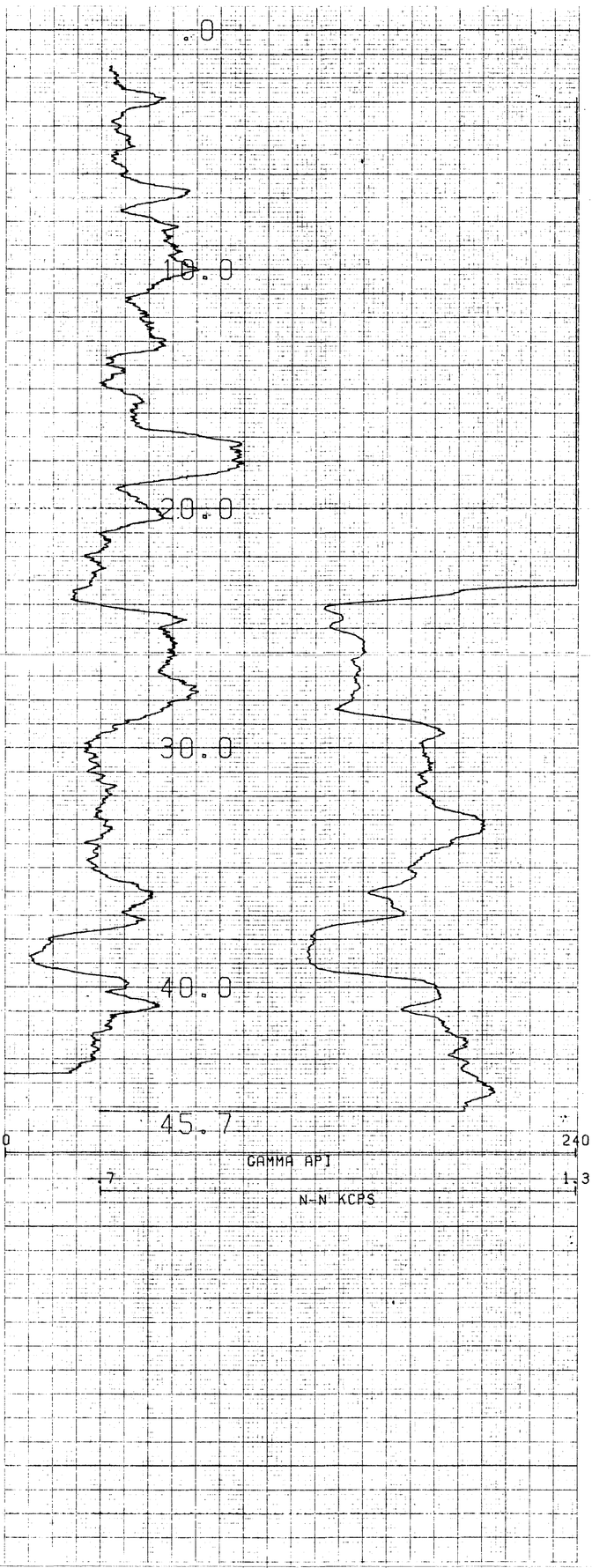
WM-82-03

WOLF MTN. COAL CO.

NANAIMO

HOLE DIAMETER : 15.2
PROBE # 9055A + 039
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 158
SENSOR #4 CAL BIAS = 0
DATA V8L2#A TRUCK # 1922
R. BERKLEY APPL.#10071


CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
COMPU-LOG V8L2 PLOT 07-30-82
WM-82-03
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER = 15.2
PROBE # 9030A = 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2#A TRUCK # 7922
R.BERKLEY APPL.#1007L1
0.0
10.0
20.0
30.0
40.0
48.8
0 120 APPARENT G/CC 3
GAMMA API
5 29 0 1.6
CALIPER CM RESISTIVITY KOHM M
45
38.0
40.0
43.0
5 5 0
HOLE VAR CM HI RESOLUTION DENS G/CC
38.0
40.0
43.0
0 360
GAMMA API
8 24 1 2.5
CALIPER CM RESISTIVITY KOHM M
160
COMPU-LOG V8L2 PLOT 07-30-82
177
L18
WM-82-03
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER = 15.2
PROBE # 9030A = 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2#A TRUCK # 7922
R.BERKLEY APPL.#1007L1



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

COMPU-LOG V8L2 PLOT 07-31-82

177
(L13)

WM-82-04

WOLF MTN. COAL CO.

NANAIMO

HOLE DIAMETER - 15.2

PROBE # 9055A - 039

SENSOR #4 CAL STD. CPS = 152

SENSOR #4 CAL RUN CPS = 158

SENSOR #4 CAL BIAS = 0

DATA V8L2#A TRUCK # 7922

R. BERKLEY APPL. #1007L1

N. Wolf Mountain (S)a

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

.0

10.0

20.0

30.0

40.0

45.7

0 120 APPARENT G/CC 3

GAMMA API

5 29 0 2.4

CALIPER CM RESISTIVITY KOHM M

48

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

COMPU-LOG V8L2 PLOT 07-31-82

WM-82-04

WOLF MTN. COAL CO.

NANAIMO

HOLE DIAMETER = 15.2

PROBE # 9030A = 444

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 6732

SENSOR #4 CAL BIAS = 17

DATA V8L2#A TRUCK # 7922

R.BERKLEY APPL.#1007L1

49

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

36.0

40.0

-5 5 HI RESOLUTION DENS G/CC 3

HOLE VAR CM

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

36.0

165

0 40.0 360

GAMMA API

0 24

CALIPER CM

1 3.7

RESISTIVITY KOHM M

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

COMPU-LOG V8L2 PLOT 07-31-82

177

(L14)

WM-82-04

WOLF MTN. COAL CO.

NANAIMO

HOLE DIAMETER = 15.2

PROBE # 9030A = 444

SENSOR #4 CAL STD CPS = 6588

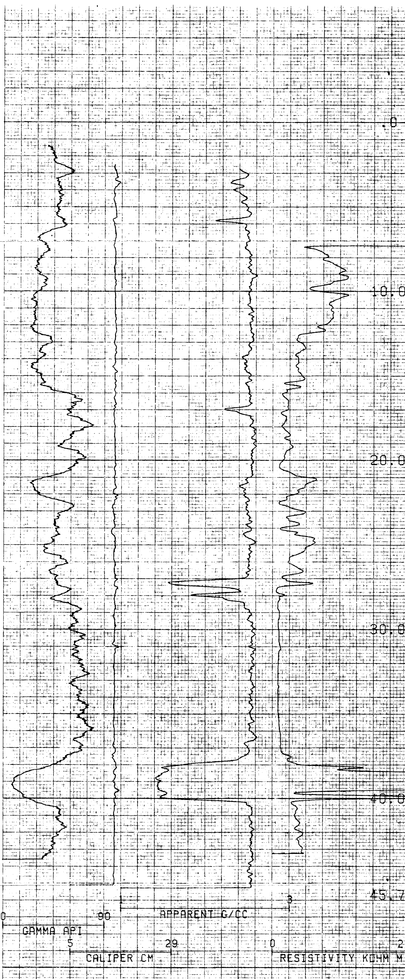
SENSOR #4 CAL RUN CPS = 6732

SENSOR #4 CAL BIAS = 17

DATA V8L2#A TRUCK # 7922

R.BERKLEY APPL.#3152L1

Scanned with CamScanner



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

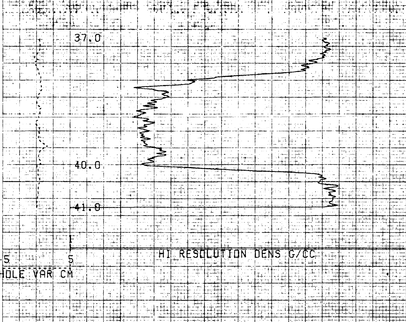
COMPU-LOG V8L2 PLOT 08-01-82

WM-82-05

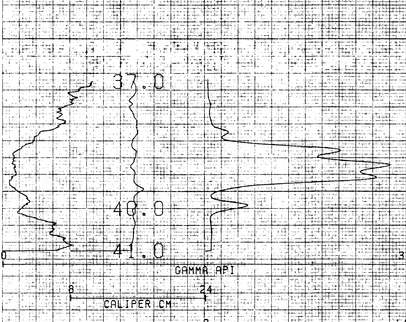
WOLF MTN. COAL CO.

NANAIMO

HOLE DIAMETER = 15.2
PROBE # 9030A - 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2=R TRUCK # 7922
R.BERKLEY APPL.#3030L1



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

COMPU-LOG V8L2 PLOT 08-01-82

177
(L15)

WM-82-05

WOLF MTN. COAL CO.

NANAIMO

HOLE DIAMETER = 15.2
PROBE # 9030A - 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2=R TRUCK # 7922
R.BERKLEY APPL.#3192L1

N. Lube Mine Panel 8 (2)

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

.0

10.0

20.0

30.0

40.0

45.7

0 GAMMA API 240

.7 N-N KCPS 1.3

143

145

COMPU-LOG V8L2 PLOT 08-01-82

WM-82-05

WOLF MTN. COAL CO.

NANAIMO

HOLE DIAMETER : 15.2

PROBE # 9055A - 039

SENSOR #1 CAL STD CPS = 152

SENSOR #1 CAL RUN CPS = 158

SENSOR #1 CAL BIAS = 0

DATA V8L2#A TRUCK # 7922

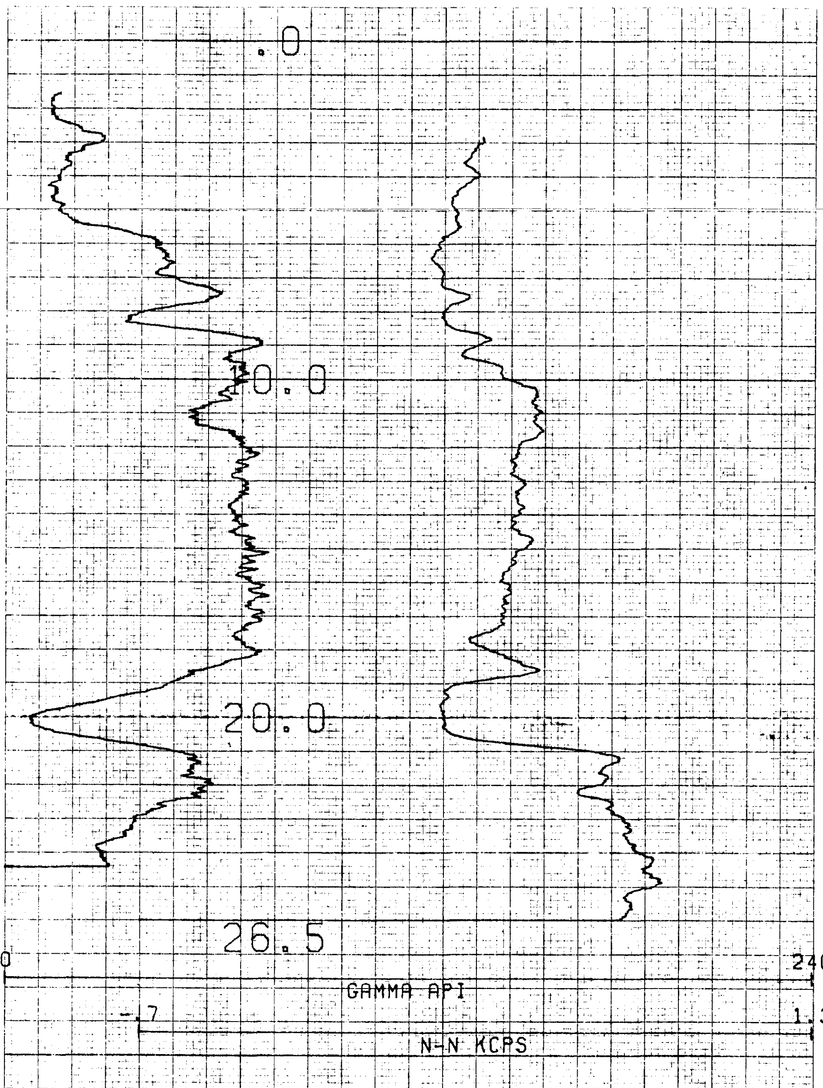
R.BERKLEY APPL.#1007L1

177

(L 16)

N. Wolf Mountain 86(b)

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

COMPU-LOG V8L2 PLOT 08-02-82

177
(L17)

WM-82-06

WOLF MTN. COAL CO.

NANAIMO

HOLE DIAMETER : 15.2

PROBE # 9055A - 039

SENSOR #4 CAL STD CPS = 152

SENSOR #4 CAL RUN CPS = 158

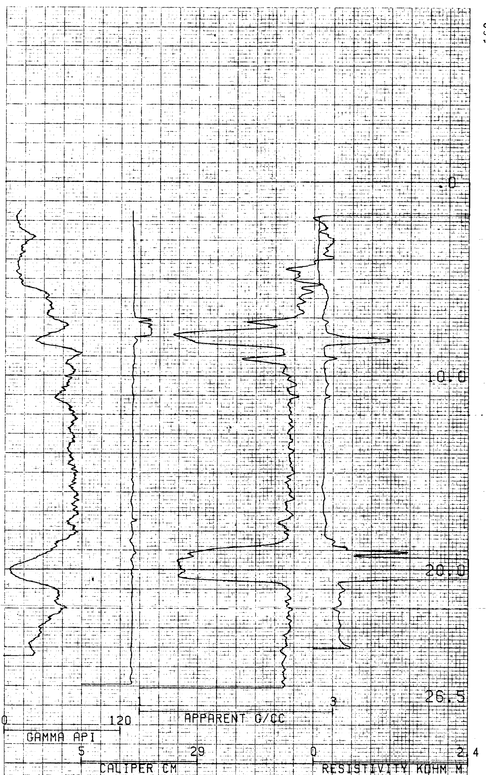
SENSOR #4 CAL BIAS = 0

DATA: V8L2*A TRUCK # 7922

R.BERKLEY APPL.#1007L1

N. Wolf Mountain 82-06A

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



169

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

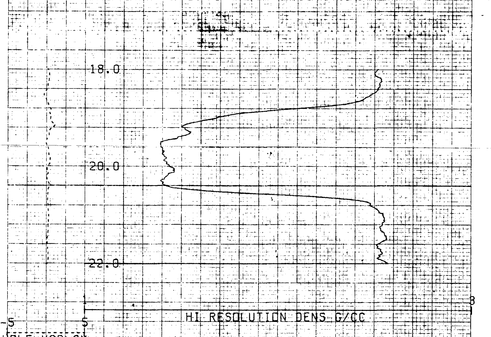
COMPU-LOG V8L2 PLOT 08-02-82

WM-82-06

WOLF MTN. COAL CO.

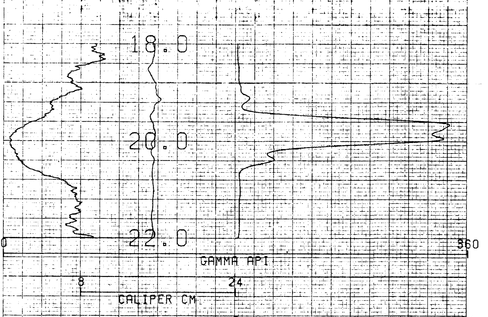
NANAIMO

HOLE DIAMETER : 15.2
PROBE # 9030A - 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2*A TRUCK # 7922
R.BERKLEY APPL.#2030L1



170

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

COMPU-LOG V8L2 PLOT 08-02-82

177

L18

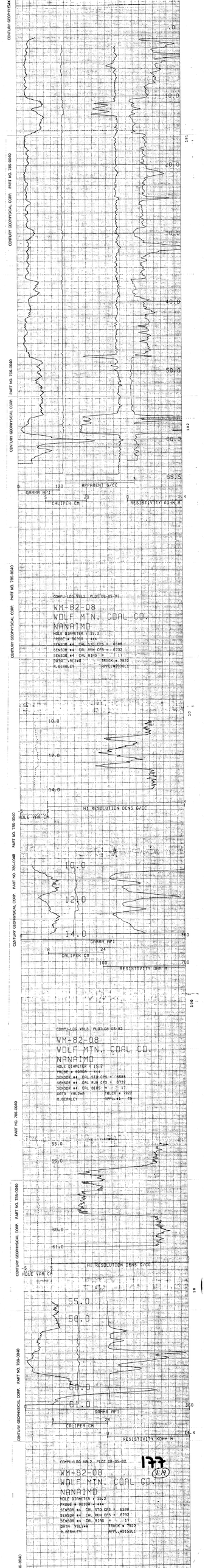
WM-82-06

WOLF MTN. COAL CO.

NANAIMO

HOLE DIAMETER : 15.2
PROBE # 9030A - 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2*A TRUCK # 7922
R.BERKLEY APPL.#3152L1

N. Coast Mountain Geology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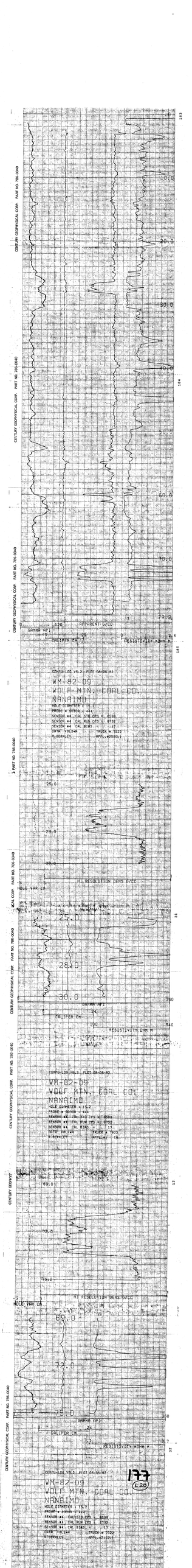
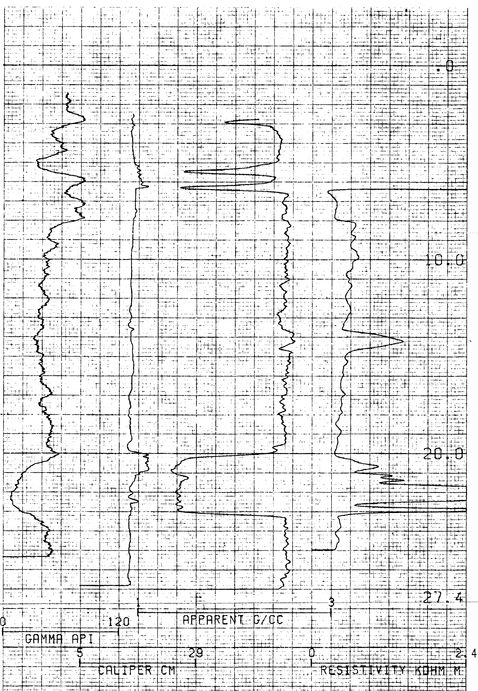
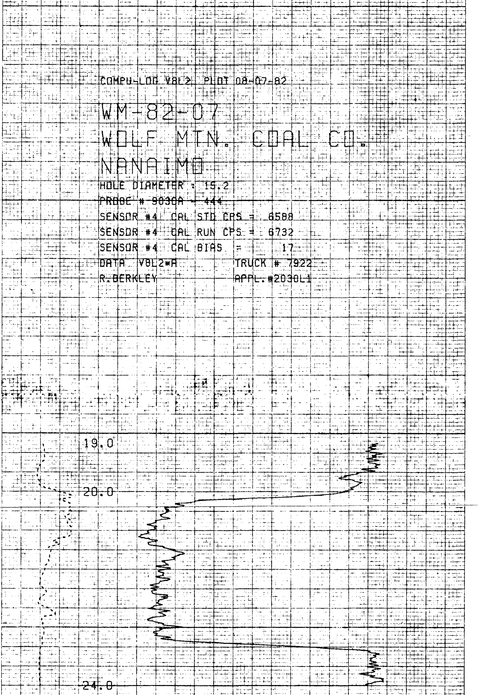
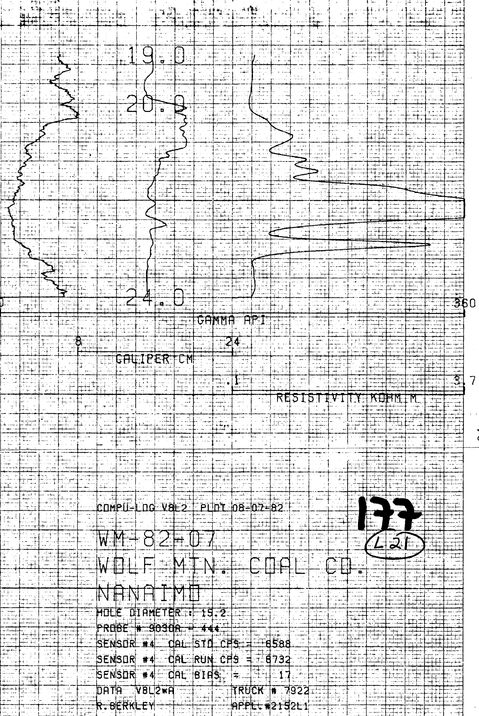
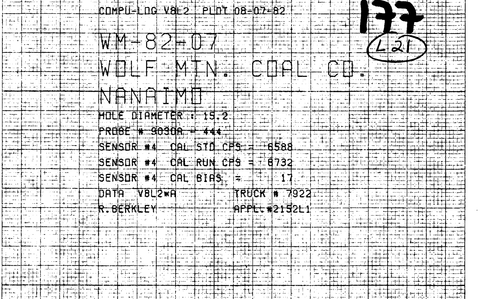
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 785-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786


CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
WM-82-09
WOLF MTN. COAL CO.
NANAIMO
GAMMA API
CALIPER CM
RESISTIVITY OHM M
HI RESOLUTION DENS G/CC
APPARENT G/CC

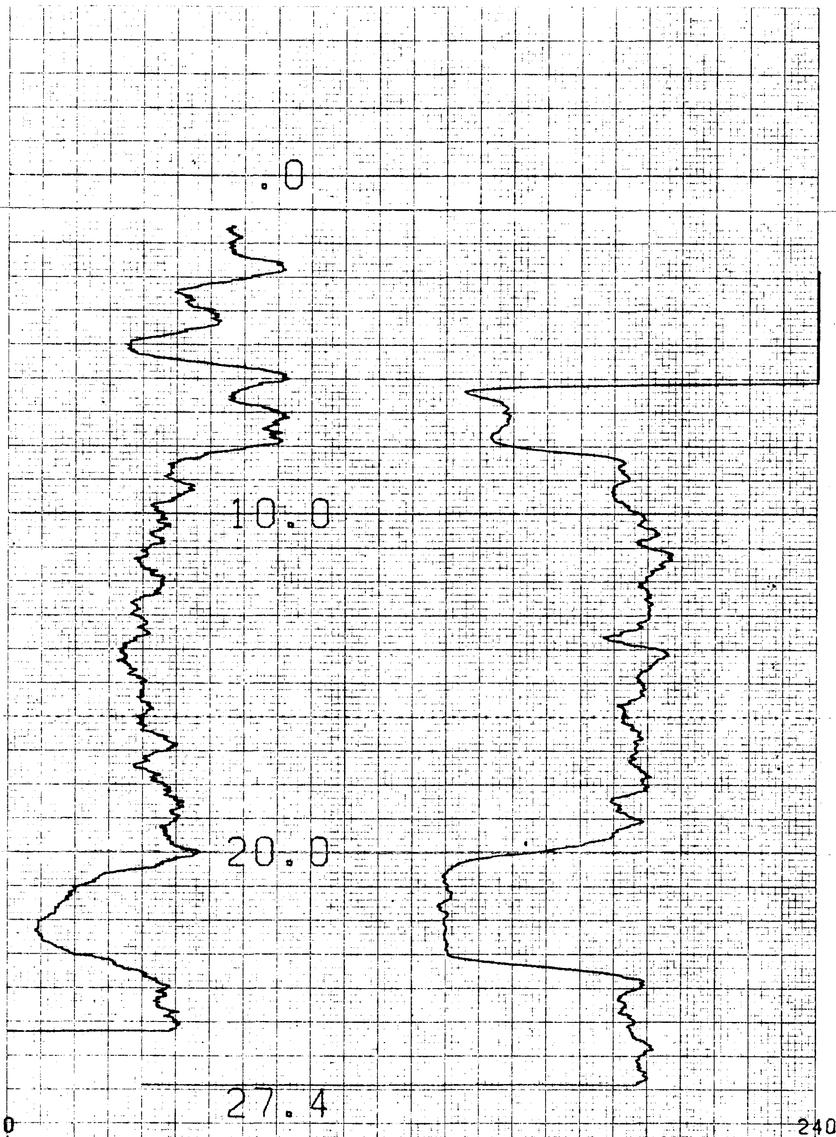

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
172
.0
10.0
20.0
27.4
0
120
APPARENT G/CC
3
GAMMA API
5
29
0
2.4
CALIPER CM
RESISTIVITY KOHM M


CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
173
COMPU-LOG V8L2 PLOT 08-07-82
WM-82-07
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER = 15.2
PROBE # 9030A - 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2#A TRUCK # 7922
R.BERKLEY APPL.#2030L1
19.0
20.0
24.0
3
HI RESOLUTION DENS G/CC
-5
5
HOLE VAR CM


CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
24
19.0
20.0
24.0
0
360
GAMMA API
8
24
CALIPER CM
.1
3.7
RESISTIVITY KOHM M


COMPU-LOG V8L2 PLOT 08-07-82
WM-82-07
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER = 15.2
PROBE # 9030A - 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2#A TRUCK # 7922
R.BERKLEY APPL.#2192L1

177
L21



0 GAMMA API 240

-.7 N-N KCPS 1.3

411

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

177
L22

COMPU-LOG V8L2 PLOT 08-07-82

WM-82-07

WOLF MTN. COAL CO.

NANAIMO

HOLE DIAMETER : 15.2

PROBE # 9055A - 039

SENSOR #4 CAL STD CPS = 152

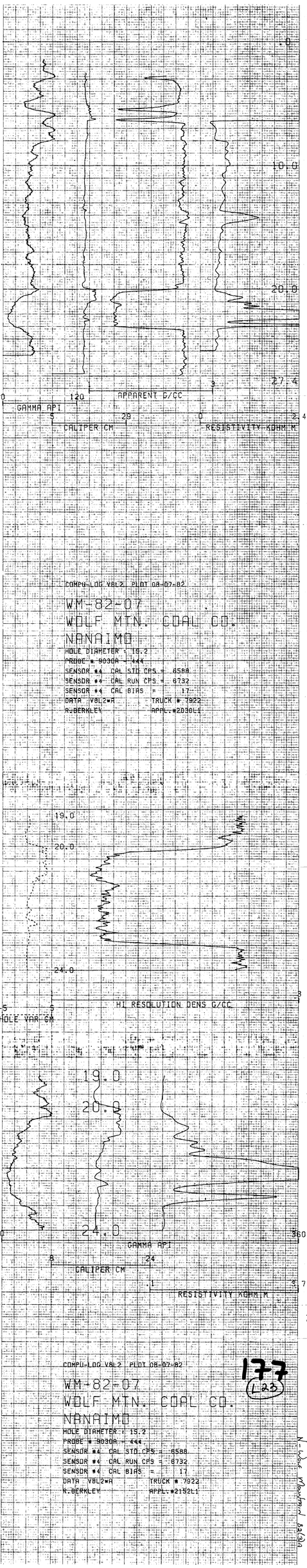
SENSOR #4 CAL RUN CPS = 158

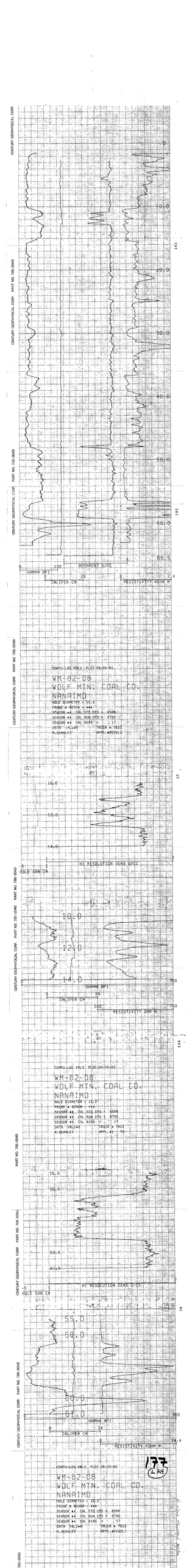
SENSOR #4 CAL BIAS = 0

DATA V8L2*A TRUCK # 7922

R.BERKLEY APPL.#1007L1

N - Wolf Mountain 82-03A


CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
172
.0
10.0
20.0
27.4
0
120
APPARENT G/CC
GAMMA API
5
29
0
2.4
CALIPER CM
RESISTIVITY KOHM M
173
COMPU-LOG V8L2 PLOT 08-07-82
WM-82-07
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER : 15.2
PROBE # 9030A - 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2#A TRUCK # 7922
R.BERKLEY APPL.#2D30L1
19.0
20.0
24.0
.3
HI RESOLUTION DENS G/CC
.5
0
HOLE VAR CM
19.0
20.0
24.0
0
360
GAMMA API
8
24
CALIPER CM
.1
.7
RESISTIVITY KOHM M
24
COMPU-LOG V8L2 PLOT 08-07-82
WM-82-07
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER : 15.2
PROBE # 9030A - 444
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL BIAS = 17
DATA V8L2#A TRUCK # 7922
R.BERKLEY APPL.#2152L1
177
(123)
N-Wolf Mountain 82(3)a


CENTURY GEOPHYSICAL CORP.
PART NO. 706-0040
0
10.0
20.0
30.0
40.0
50.0
60.0
65.5
APPARENT D/CC
GAMMA API
CALIPER CM
RESISTIVITY KOHM M
COMPU-LOG VER.2 PLOT 08-05-82
WM-82-08
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER = 15.2
PROBE # 8050R = +++
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6732
SENSOR #4 CAL RIBS = 17
DATA VER.#4 TRUCK # 7922
R.BEASLEY APPL.#8050L1
HI RESOLUTION DENS D/CC
HOLE CORR.CM
GAMMA API
CALIPER CM
RESISTIVITY OHM M
177
2 RH

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

0

10.0

20.0

30.0

40.0

50.0

60.0

65.5

437

439

0 GAMMA API 240

.7 N-N KCPS 1.3

COMPU-LOG V8L2 PLOT 08-05-82

177

(L25)

WM-82-08

WOLF MTN. COAL CO.

NANAIMO

HOLE DIAMETER : 15.2

PROBE # 9055A - 039

SENSOR #4 CAL STD CPS = 152

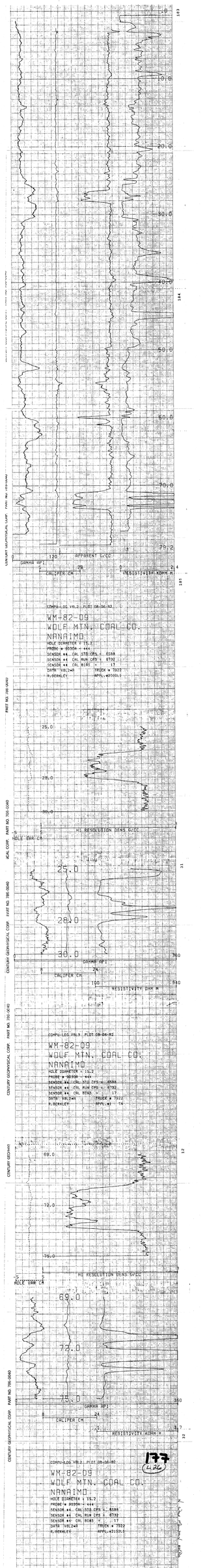
SENSOR #4 CAL RUN CPS = 158

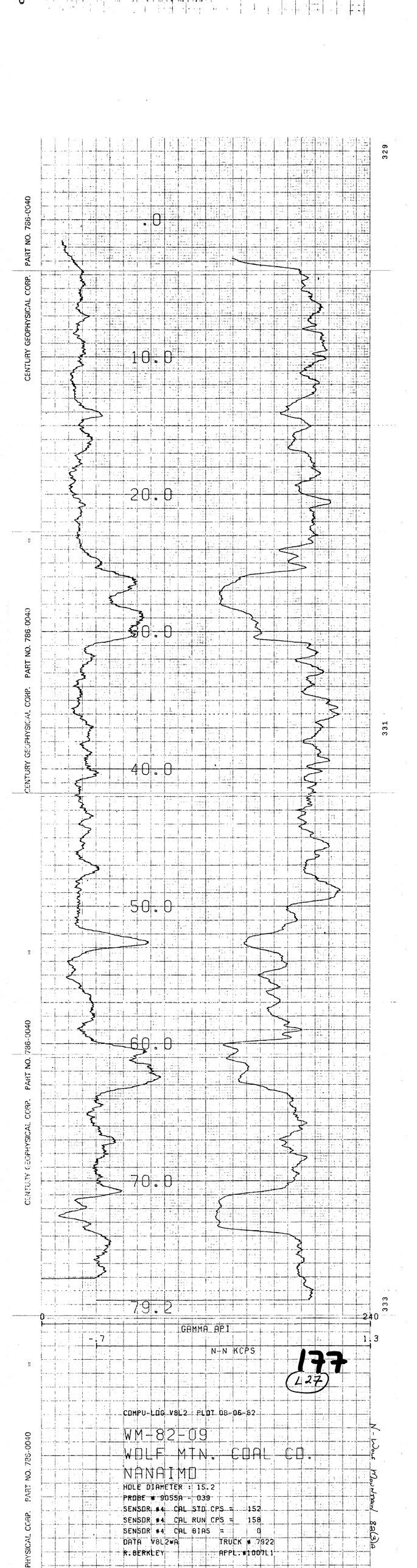
SENSOR #4 CAL BIAS = 0

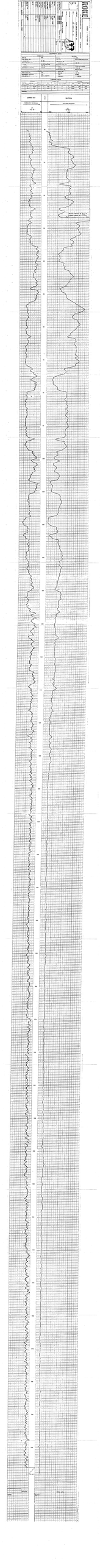
DATA V8L2WA TRUCK # 7922

R.BERKLEY APPL.#1007L1

N. Coal Mountain Basin


WM-82-09
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER = 15.2
PROBE # 9038H = +++
SENSOR #4 CAL 1ST CPS = 8588
SENSOR #4 CAL RUN CPS = 8732
SENSOR #4 CAL RIBS = 17
DATA 'VHC2WH
TRUCK # 7922
R.BERKLEY
APPL.#2010L
GAMMA API
CALIPER CM
APPARENT D/CC
RESISTIVITY OHM M
HI RESOLUTION DENS D/CC
HOLE DIA CM
CENTURY GEOPHYSICAL CORP
PART NO. 780-0040
177


CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
329
331
333
.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
79.2
0
240
GAMMA API
-.7
1.3
N-N KCPS
177
L27
COMPU-LOG V8L2 PLOT 08-06-82
WM-82-09
WOLF MTN. COAL CO.
NANAIMO
HOLE DIAMETER : 15.2
PROBE # 9055A - 039
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 158
SENSOR #4 CAL BIAS = 0
DATA V8L2#A TRUCK # 7922
R.BERKLEY APPL.#1007L1
N. Wolf Mountain Basin



WOKE
??
Hz
mV
mV
mV