406
2 of 3

82 G/7

APPENDIX I

RECEIVED
MAY 25 1981
C.N.R.L.
RECORD CENTRE

RETURN TO
C. N. R. L. Records
CENTRE

Rent: $12,395.00

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

APPLICATION TO EXTEND TERM OF LICENCE

I, BOLTON AGNEW (Name) agent for SHELL CANADA RESOURCES LTD. (Name)

P. O. BOX 100 (Address) (Address)

CALGARY, ALBERTA T2P 2H5

Valid FMC No. 187621

hereby apply to the Minister to extend the term of Coal Licence(s) No(s). 4080 TO 4089 INCLUSIVE, TEN LICENCES, GROUP #243 IN THE KOOTENAY LAND DISTRICT - 2479 HECTARES

for a further period of one year.

2. Property name LILLYBURT

3. I am allowing the following Coal Licence(s) No(s). to forfeit NONE

4. I have performed, or caused to be performed, during the period AUGUST 4, 1979 to DECEMBER 31, 19 80, work to the value of at least $ 318,891

on the location of coal licence(s) as follows:

CATEGORY OF WORK	Licence(s) No(s).	Apportioned Cost
Geological mapping	4080 TO 4089 INCLUSIVE	$ 8,980
Surveys: Geophysical	-	-
Geochemical	-	-
Other - Location	4082, 4083, 4084	9,350
Road construction	4082, 4083, 4084	10,957
Surface work	4084	11,565
Underground work	-	
Drilling	4082, 4083, 4084	240,172
Logging, sampling, and testing	4082, 4083, 4084	to date 17,644
Reclamation	4082, 4083, 4084	3,938
Other work (specify)	-	
Off-property costs		to date 16,285

5. I wish to apply $ 318,891 of this value of work on Coal Licence(s) No(s). 4080 to 4089 incl. Group #243

N/A 6. I wish to pay cash in lieu of work in the amount of $ - on Coal Licence(s) No(s).

7. The work performed on the location(s) is detailed in the attached report entitled Lillyburt Coal Prospect - November 3, 1979: filed on and covered work to that date; Report on work in 1980 will be submitted in ninety days.

1980-12-22 (Date)

(Signature)

LAND SUPERVISOR (Position)

(FORMS AND REPORT TO BE SUBMITTED IN DUPLICATE)

CATEGORY OF WORK

GEOLOGICAL MAPPING Yes ☒ No ☐

		Area (Hectares)	Scale	Duration
Reconnaissance		2,500	1:5,000	36 man days
Detail:	Surface			
	Underground			
*Other (specify)				

Total Cost $ 8,980

GEOPHYSICAL/GEOCHEMICAL SURVEYS Yes ☒ No ☐

Method
Grid
Topographic location surveys
*Other (specify)

Total Cost $ 9,350

ROAD CONSTRUCTION Yes ☒ No ☐

Length 200 m - new Width 5 m
On Licence(s) No(s). 4084
Access to upgrading and maintenance of existing logging roads on Licences Nos. 4082, 4083, 4084.

Total Cost $ 10,957

SURFACE WORK Yes ☒ No ☐

		Length	Width	Depth	Cost
Trenching	backhoe(3)	270 m	1.5 m	1.2 m	
Seam Tracing					
Crosscutting					
*Other (specify)					

Total Cost $ 11,565

UNDERGROUND WORK Yes ☐ No ☒

	No. of Adits	Maximum Length	No. of Holes	Total Metres	Cost
Test Adits					
*Other workings					

Total Cost $ -

DRILLING Yes ☒ No ☐

		Hole Size	No. of Holes	Total Metres	Cost
Core:	Diamond				
	Wireline				
Rotary:	Conventional				
	Reverse circulation	10 cm	21	3,765	
*Other (specify)					

Contractor Garrity & Baker, SDS, Neilson Drilling Companies
Where is the core stored? -

Total Cost $ 240,172

LOGGING, SAMPLING AND TESTING Yes ☒ No ☐

Lithology:	Drill samples	☒	Core samples	☐	Bulk samples	☐
Logs:	Gamma-neutron	☒	Density	☒		
*Other (specify)						
Testing:	Proximity analysis	☒	FSI	☒	Washability	☐
	Carbonization	☒	Petrographic	☒	Plasticity	☐
*Other (specify)						

OTHER WORK (specify details) to date Total Cost $17,644 Cost

Reclamation

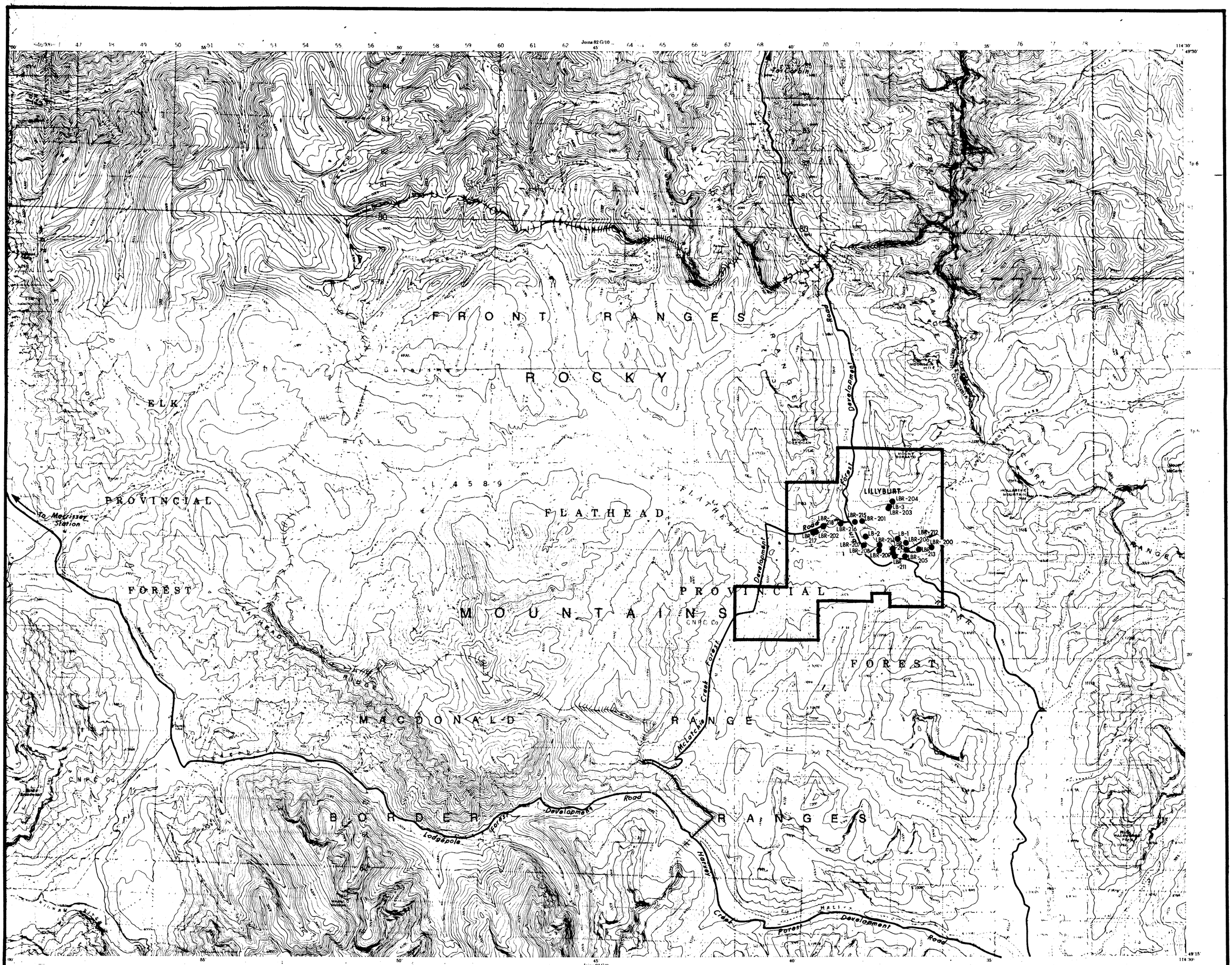
Total Cost $ 3,938
On-property costs 302,606
to date Off-property costs 16,285
Total Expenditures $ 318,891

1980-12-22
(Date)

(Signature)

MANAGER - ACCOUNTING CNRL
(Position)

*A full explanation of other work is to be included.



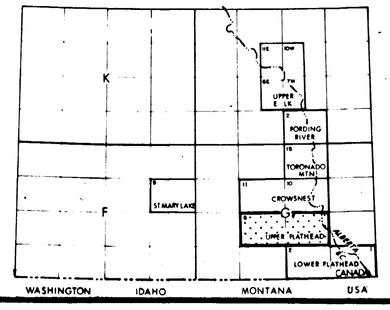
DRILL HOLES ROTARY	NORTHING	EASTING	ELEVATION
LB 1	5470580.18	672602.57	1509.60
LB 2	5470595.61	671655.86	1552.14
LB 3	5471589.00	672359.80	1661.24
LBR 200	5470325.71	673768.71	1502.40
LBR 201	5470993.54	671546.67	1520.07
LBR 202	5470659.72	670154.09	1520.53
LBR 203	5471553.78	672357.60	1662.25
LBR 204	5471732.06	672536.76	1706.54
LBR 205	5470066.72	673045.35	1478.80
LBR 206	5470451.43	672937.72	1494.19
LBR 207	5470352.97	671624.67	1489.87
LBR 208	5470135.83	672076.18	1483.17

DRILL HOLES ROTARY	NORTHING	EASTING	ELEVATION
LBR 209	5470219.61	672487.83	1488.66
LBR 210	5470315.06	672461.67	1508.22
LBR 211	5470112.37	672595.02	1474.42
LBR 212	5470247.89	672984.49	1486.09
LBR 213	5470252.01	673339.72	1506.39
LBR 214	5470353.24	672116.06	1527.64
LBR 215	5470984.11	671385.69	1521.14
LBR 216	5470908.01	670880.52	1506.93
LBR 217	5470674.71	670083.00	1530.20
LBR 218	5470883.99	670301.54	1529.76

SCALE 1:50,000

MILES 1 0 1 2

METRES 1000 0 1000 2000



Crows Nest Resources Limited

EXPLORATION

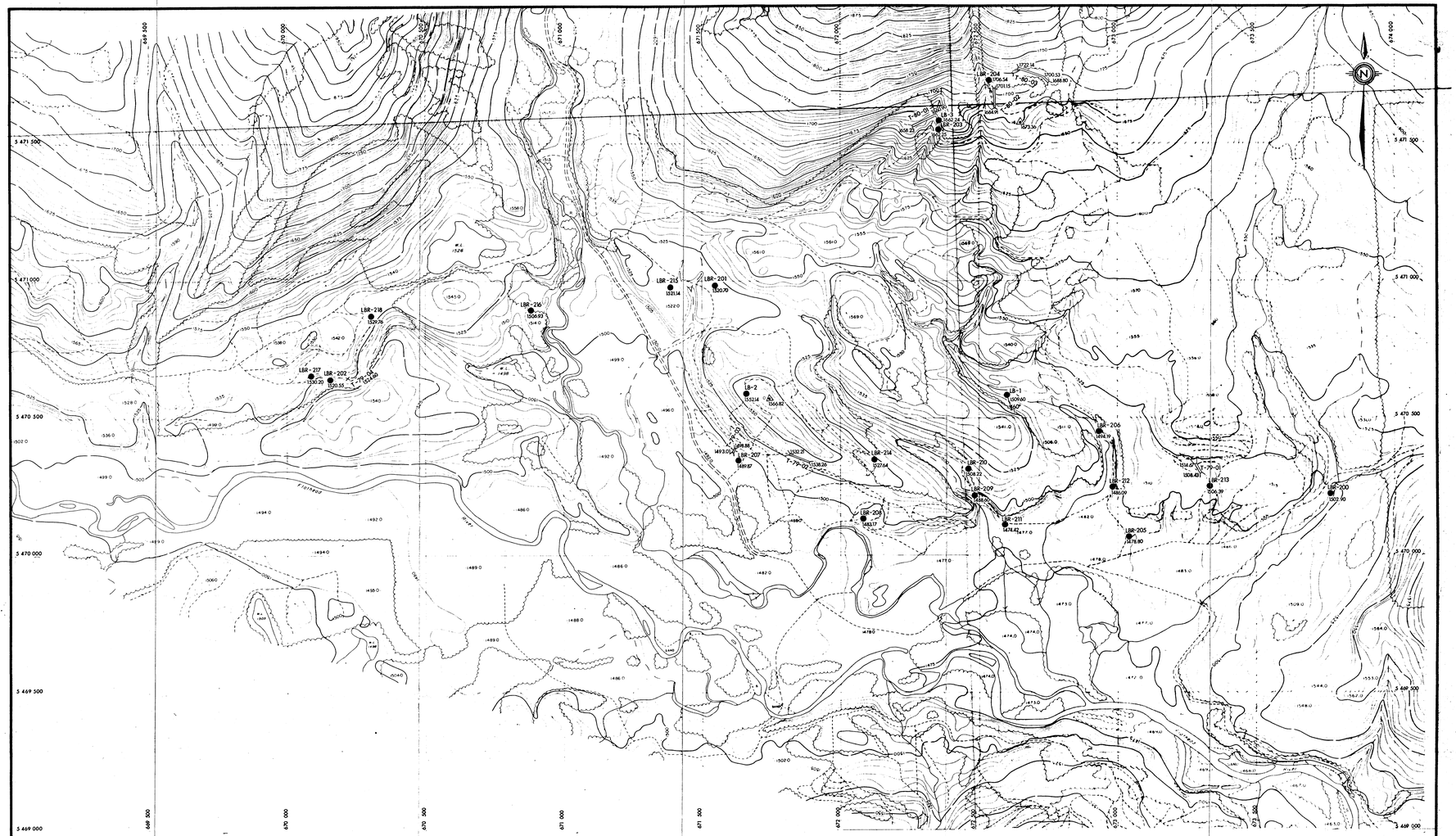
LILLYBURT
KOOTENAY LAND DISTRICT
SOUTHEASTERN B.C.

1980 DRILL HOLE PROGRAM

AUTHOR: B. MC KINSTRY	SCALE: 1:50,000	ENCLOSURE No:
DATE: FEBRUARY, 1980	REVISED:	DRAWING No: HJ-68C
To Accompany		

406 2/3 (1)

DOC. NO. 80117



REFERENCE

MAIN ROAD		RIVER, LAKE	
SECONDARY ROAD		INTERMITTENT RIVER	
TRACK OR TRAIL		TREED AREA	
RAILWAY		LINE OF TREES	
HEDGE FENCE		INDIVIDUAL TREES	
BRIDGE, CULVERT		VERTICAL INTERVAL	
CUT, FILL		DEPRESSION	
SWAMP		SPOT HEIGHT	
DRILL HOLE		CONTROL POINT	

MAP PROJECTION : UNIVERSAL TRANSVERSE MERCATOR
CENTRAL MERIDIAN REFERENCE 117° W.

PREPARED BY:
NORTH WEST SURVEY CORPORATION (YUKON) LTD

LEGEND

ROTARY HOLE
TRENCH
SURVEY POINT

METRES 100 50 0 100 200 300 400 500 METRES

SCALE 1 : 5 000

Crows Nest Resources Limited

EXPLORATION

LILLYBURT
SE BRITISH COLUMBIA

DOCUMENT 0117

EXPLORATION DATA

BASE MAP

406 2/3 2

AUTHOR: B. MC GINTY	SCALE: 1:5000	ENCLOSURE No:
DATE: MARCH, 1981	REVISED:	DRAWING No: HJ-68A
To Accompany		

ROTARY HOLE NO. LB-1

DATE: July 30, 1979

ELEV: 1510.0

NORTHING: 5470580.0

EASTING: 672603.0

TOTAL DEPTH: 201.0

ANGLE: 60

AZIMUTH: 160

LOGS RUN: Long Spaced Density, Gamma, Bulk Density, Resistivity, Neutron-Neutron, Caliper

Sample Depth (m)	Lithology (Chip Samples)
2	Clay - Red-brown colour
4	Clay - Small pebbles, light red colour
6	Clay - slightly red colour
8	Clay
10	Clay - Red-brown, no pebbles
12	Sandstone - gray, fine grain
14	Claystone - gray
16	Claystone - slight greenish cast
18	Claystone - gray and red
20	Sandstone - fine grain, medium to well sorted fspic
22	Sandstone - coarser grained and less well sorted
24	Sandstone - with minor claystone bands - more quartz-rich & coarser grained. Some coaly fragments.
26	Sandstone - as above
28	Siltstone - light gray with some sandstone chips

ROTARY HOLE NO. LB-1

Sample Depth (m)	Lithology (Chip Samples)
30	Claystone/Siltstone/Sandstone - fine grain, poorly sorted, slightly greenish sandstone with gray siltstone and red-brown claystone
32	Sandstone - dark to light gray, fine grain mixed with occasional siltstone chips
34	Sandstone - as above
36	Sandstone/Claystone/Siltstone - as above
38	Siltstone (60%)/Sandstone (40%) - Sandstone is fine grain, green-gray Siltstone is red-brown
40	Sandstone/Siltstone - as above
42	Sandstone/Siltstone - as above but with 20% dull coloured sandstone and 1% cream-coloured sandstone
44	Sandstone/Siltstone - as above
46	Sandstone/Siltstone - as above but with some claystone. Sandstone is now 15%.
48	Sandstone/Siltstone - as at 44 - 46.
50	Sandstone/Siltstone - as above.
52	Sandstone - fine grain, poorly sorted, fspic, gray-green
54	Siltstone (80%)/Sandstone (20%) - Siltstone is brown while sandstone is green, yellow and cream coloured
56	Siltstone (60%)/Sandstone (40%)
58	Siltstone/Claystone - brown with minor sandstone chips
60	Sandstone (80%)/Siltstone & Claystone (20%): - Siltstone/claystone is brown, sandstone is gray-green, fine grain.
62	Sandstone/Siltstone/Claystone - as above.
64	Siltstone/Claystone (60%)/Sandstone (40%).

ROTARY HOLE NO. LB-1

Sample Depth (m)	Lithology (Chip Samples)
66	
68	Sandstone (75%)/Siltstone/Claystone (25%).
70	Sandstone - fine grain with minor siltstone chips.
72	Siltstone/Claystone - with minor sandstone
74	Sandstone/Claystone
76	Sandstone/Claystone
78	Siltstone/Claystone (70%)/Sandstone (20%)
80	Sandstone (60%)/Shale (40%)
82	Small sample - no good description.
84	Sandstone/Siltstone/Claystone
86	As above
88	Sandstone/Shale - all dark gray shale with minor pyrite and possibly some coaly chips.
90	Sandstone - gray, poorly sorted with minor brown shale.
92	Claystone - mostly gray-green with smaller % of gray, coarse grain sandstone.
94	
96	Claystone - with minor olive coloured sandstone.
98	Claystone/Sandstone
100	Mudstone - brown-gray
102	Siltstone/Claystone
104	
106	Claystone/Sandstone - sandstone is very fine grain.
108	Sandstone - tan to gray.
110	Sandstone - as above with minor brown claystone.
112	Sandstone/Claystone.

ROTARY HOLE NO. LB-1

Sample Depth (m)	Lithology (Chip Samples)
114	Sandstone with coaly fragments and purple Claystone.
116	Sandstone with plant fragments, medium grain.
118	Sandstone - poorly sorted, medium grain.
120	Claystone - gray
122	Claystone - as above
124	Claystone - as above
126	Sandstone - medium grain with minor shale
128	Sandstone - very fine grain and some claystone.
130	Sandstone/Shale - highly pyrititerous and quartz veining.
132	Conglomerate - mostly chert pebbles.
134	Conglomerate - with more sandstone-type pebbles. Abundant white cherty fragments.
136	Conglomerate - large chert pebbles with coarse grain sandy matrix.
138	Conglomerate - as above.
140	Conglomerate - as above.
142	Conglomerate - as above.
144	Conglomerate - some fragments are very pyrite-rich.
146	Conglomerate - as above.
148	Sandstone - coarse grain.
150	Sandstone - coarse grain.
152	Sandstone - coarse grain.
154	
156	
158	

ROTARY HOLE NO. LB-1

Sample Depth (m)	Lithology (Chip Samples)
160	Sandstone - coarse grain, poorly sorted, abundant plant fragments.
162	Sandstone as above with minor pyritic shale.
164	Sandstone - as above.
166	Sandstone as above and some siltstone with pyritic shale.
168	Sandstone - coarse grain, abundant plant fragments, poorly sorted with coaly fragments.
170	Siltstone/Sandstone - with minor pyritic shale and 30% siltstone, 1 % coal and 69% medium grain sandstone.
172	Sandstone (30%)/Siltstone (40%)/Claystone (25%) - gray with abundant plant fragments and coaly. Siltstone is carbonaceous. 5% coal.
174	Siltstone (85%)/Sandstone (12%) - similar to above with minor coaly fragments and 3% coal.
176	Sandstone (80%)/Siltstone/Claystone (20%) - Sandstone is very fine grain.
178	Sandstone - very fine grain.
180	Sandstone - medium grain with minor pyrite.
182	Sandstone - as above.
184	Sandstone - as above.
186	Sandstone - as above.
188	Sandstone - medium grain with pyrite and 8% carbonaceous siltstone.
190	Sandstone (95%)/Siltstone (5%) - with plant fragments.
192	Sandstone (82%)/Siltstone (15%) - with 3% coal.

ROTARY HOLE NO. LB-1

Sample Depth (m)	Lithology (Chip Samples)
194	Sandstone/Siltstone - as above.
196	Sandstone (45%)/Siltstone (50%) - with 5% coal. Sandstone is both fine grain and coarse grain.
198	Sandstone (83%)/Shale (15%) - with 1 - 2% coal.

ROTARY HOLE NO. LB-2

DATE:	September 10, 1979
ELEV:	1552.0
NORTHING:	5470596.0
EASTING:	671656.0
TOTAL DEPTH:	296.0
ANGLE:	90
AZIMUTH:	-
LOGS RUN:	Gamma, Bulk Density, Resistivity, Neutron, Bed Resolution Density, Caliper

Reverse Circulation

Intervals (meters)	Description		% of Sample
0 - 6	Casing		
6	Sandstone;	medium gray, medium grain	
16	Sandstone;	medium gray, medium grain	95
	Siltstone;	medium gray, coarse grained	4
	Coal		1
20	Sandstone;	medium gray, coarse grained	100
22	Sandstone;	medium gray, medium and fine grained	70
	Siltstone;	light gray, medium grained, with plant fragments	30
24	Siltstone;	medium gray, medium grain	69
	Sandstone;	medium gray, fine grain	30
	Mudstone;	(carbonaceous), dark gray	1
26	Siltstone;	medium to fine grain, medium to light gray	20
	Mudstone;	carbonaceous with coal bands	55
	Coal		25
28	Mudstone;	with coal bands	100

ROTARY HOLE NO. LB-2

Reverse Circulation

Intervals (meters)	Description		% of Sample
30	Sandstone;	medium to fine grained, dark gray	10
	Siltstone;	medium grain, dark gray	30
	Carbonaceous mudstone		35
	Coal		25
32	Siltstone;	medium grain, dark to medium gray	85
	Mudstone;	carbonaceous	15
34	Sandstone;	fine grained, medium to dark gray	50
	Siltstone;	medium grain, medium gray	40
	Mudstone;	carbonaceous	10
36	Sandstone;	fine to medium grain, dark gray	85
	Siltstone;	medium grain	15
38	Sandstone;	fine to medium grain, dark gray	100
40	Sandstone;	medium to coarse grain, dark gray	100
	Note:	grain size increases down section and plant fragments become more prominent down section	
48	Sandstone;	with calcite filled fractures	
52	Sandstone;	fine grained, dark gray, with plant fragments	60
	Siltstone;	dark gray with plant fragments	40
60	Sandstone;	fine grained, medium gray	100
62	Sandstone;	medium grained, medium gray	100
64	Sandstone;	medium grained, medium gray with coaly partings	100
70	Sandstone;	coarse grained, medium gray with coaly partings	100
72	Sandstone;	very coarse grained, medium gray (salt and pepper coloration) with coaly partings	100
74	Sandstone;	fine grained, dark gray, with plant fragments	15
	Siltstone;	medium grain, dark gray, with plant fragments	85
76	Sandstone;	fine grained, medium gray	15
	Siltstone;	medium grain, medium gray	85

ROTARY HOLE NO. LB-2

Reverse Circulation

Intervals (meters)	Description		% of Sample
80	Sandstone;	fine grained, medium gray	100
84	Sandstone;	medium grain, medium gray	65
	Sandstone;	fine grain, medium gray with coaly partings	35
88	Sandstone;	medium grain, medium gray	100
92	Sandstone;	medium grain, medium gray	98
	Coal		2
94	Sandstone;	coarse grain, medium gray	75
	Sandstone;	fine grain, medium gray	10
	Siltstone;	coarse grain, medium gray	15
98	Sandstone;	fine grained, medium gray	98
	Coal		2
100	Sandstone;	medium grain, dark to medium gray with plant fragments, coaly partings	100
104	Sandstone;	coarse grain, medium gray, with plant fragments, coaly	100
110	Sandstone;	medium to fine grain, with plant fragment, coaly partings	100
112	Sandstone;	coarse to medium grain, medium gray	100
114	Sandstone;	coarse grained, dark gray	100
118	Sandstone;	medium grain, medium gray	100
122	Sandstone;	fine grain, medium gray	100
126	Sandstone;	coarse grain, medium gray	100
127.5	Sandstone;	medium grain, light gray	85
	Siltstone;	medium grain, medium gray	15
129	Sandstone;	very coarse grain, medium gray	100
132	Sandstone;	medium to fine grain, medium gray, coaly partings	

ROTARY HOLE NO. LB-2

Reverse Circulation

Intervals (meters)	Description		% of Sample
134	Sandstone;	coarse grain,	60
	Sandstone;	medium grain, dark gray, with coaly partings	40
136	Sandstone;	medium grain, dark gray	100
138	Sandstone;	fine grain, dark gray	6
	Siltstone;	medium grain, dark gray	14
	Coal	hard, bright c(d)	80
140	Shale;	dark gray	30
	Coal	hard, bright c(d)	70
140.5	Sandstone;	fine grain, medium to dark gray	100
146	Sandstone;	medium grain, medium to dark gray	100
150	Sandstone;	fine grain, medium to dark gray	100
154	Sandstone;	medium grain, medium gray	100
160	Sandstone;	fine grain, light to medium gray	100
162	Sandstone;	fine grain, medium gray	20
	Siltstone;	medium grain, dark gray	80
164	Siltstone;	medium grain, medium gray	95
	Shale	dark gray	3
	Coal		2
166	Sandstone;	fine grain, medium gray	85
	Siltstone;	medium grain, medium gray, with coaly partings	15
170	Siltstone;	medium grain, medium gray	40
	Sandstone;	fine grain, medium gray, with coaly partings	60
172	Siltstone;	medium grain, medium gray	100
174	Sandstone;	fine grain, medium gray	10
	Siltstone;	fine grain, medium gray	90
176	Shale;	brown to medium gray	25
	Coal	bright (hard)	75
78	Shale;	dark gray	5
	Coal	bright (hard)	40
	Coal	dull (hard)	55

ROTARY HOLE NO. LB-2

Reverse Circulation

Intervals (meters)	Description		% of Sample
180	Shale;	dark gray and brown	5
	Coal;	bright (hard)	95
184	Shale;	dark gray and brown	1
	Coal;	bright (hard)	99
186	Shale;	dark gray	3
	Coal;	bright (hard)	97
188	Shale;	dark gray	8
	Coal;	bright (hard)	92
	Shale;	dark gray	5
190	Siltstone;		15
	Coal;		80
193	Shale		10
	Coal		90
195	Mudstone and siltstone (shale)		60
	Coal		40
197	Mudstone and siltstone (shale)		90
	Coal		10
198	Mudstone and siltstone		60
	Coal		40
	Siltstone		20
200	Mudstone (coaly)		65
	Coal		15
	Siltstone		80
204	Mudstone (coaly)		15
	Coal		5
	Siltstone		90
205	Mudstone;	coaly, carbonaceous	5
	Coal		5
207	Sandstone;	fine grained, light brown	40
	Siltstone;	medium grain, light brown	40
209	Sandstone;	fine grained, light brown	100
	Sandstone;	fine grained, medium gray	30
211	Siltstone;		30
	Shale;		10
	Coal		30

ROTARY HOLE NO. LB-2

Reverse Circulation

Intervals (meters)	Description	% of Sample
213	Siltstone; medium gray	60
	Mudstone;	40
215	Sandstone; fine grain, medium gray	60
	Siltstone	40
219	Sandstone; fine grain, medium gray	80
	Siltstone	15
	Coal	5
223	Sandstone; fine grained, medium gray	25
	Siltstone; fine grained	75
225	Siltstone	15
	Coaly Mudstone	15
	Coal	70
226.5	Mudstone	5
	Coal	95
229	Sandstone; fine grained	40
	Siltstone; medium grained	20
	Mudstone	35
	Coal	5
231	Sandstone; fine grained, medium gray	85
	Siltstone	15
234	Sandstone; fine grain	30
	Siltstone; fine grain, light gray	40
	Coal	30
236	Sandstone; fine grain, medium gray	30
	Siltstone; medium grained, medium gray	70
240	Siltstone; medium grain, medium brown	20
	Mudstone	40
	Coal	40
244	Sandstone; fine grain, light gray	70
	Siltstone; fine grain	30
248	Sandstone; fine grained	80
	Siltstone	20
250	Sandstone; fine grained, medium brown	100
254	Sandstone; fine grained, medium brown	55
	Siltstone	40
	Coal	5

ROTARY HOLE NO. LB-2

Reverse Circulation

Intervals (meters)	Description		% of Sample
256	Sandstone;	fine grain, medium gray	100
258	Siltstone;	medium brown	70
	Coal		30
260	Siltstone		50
	Mudstone		50
262	Siltstone;	medium brown	40
	Mudstone		20
	Coal		40
264	Siltstone		40
	Mudstone		40
	Coal		20
	Siltstone		30
266	Mudstone		30
	Coal		40
268	Sandstone;	fine grain, medium gray	40
	Siltstone;	fine grain, medium gray	60
	Sandstone;	fine grained, medium gray	10
270	Siltstone		50
	Coal		40
	Sandstone;	fine grained	25
271	Siltstone		70
	Coal		5
	Siltstone		60
273	Sandstone		20
	Coal		20
277	Siltstone		40
	Coal		60
279	Siltstone;	fine grain, light brown	20
	Coal		80
280	Siltstone		15
	Coal		85
281	Sandstone		40
	Siltstone		20
	Coal		40

ROTARY HOLE NO. LB-2

Reverse Circulation

Intervals (meters)	Description	% of Sample
282	Sandstone; fine grain, medium gray, light brown	85
	Coal	15
285	Sandstone	100
	Sandstone	30
287	Siltstone	15
	Coal	55
289	Sandstone	80
	Coal	20
291	Sandstone	100
293	Sandstone	85
	Coal	15
296.5	END OF HOLE	

ROTARY HOLE NO. LBR-200

DATE:	July 16, 1980
ELEV:	1503.0
NORTHING:	5470326.0
EASTING:	673769.0
TOTAL DEPTH:	167.0
ANGLE:	90
AZIMUTH:	-
LOGS RUN:	Bulk Density, Gamma, Caliper

Intervals (meters)	Description
37	O.B.
42	Sandstone/Siltstone: Sandstone - fine grain, medium gray - 90% Siltstone 10%
44	Siltstone: medium gray
46	Siltstone
48	Siltstone
50	Siltstone
52	Siltstone
54	Siltstone: with calcite chips
56	Sandstone: fine grain, dark gray
58	Siltstone
60	Siltstone: dark gray with calcite chips
62	Siltstone: dark gray with coal fragments and calcite chips
64	Siltstone: medium gray

ROTARY HOLE NO. LB-200

Intervals (meters)	Description
66	Siltstone
68	Siltstone
70	Siltstone: with pyrite and calcite
74	Siltstone: with gray-brown calcite and some gouge material
76	Siltstone: gray-brown and calcite chips
78	Siltstone: as above
80	Siltstone: as above
82	Siltstone: with calcite veins
84	Siltstone: as above
86	Siltstone: minor calcite
88	Siltstone: as above
90	Siltstone
92	Siltstone
94	Siltstone: with calcite and pyrite
96	Siltstone: with calcite veins
98	Siltstone: with gouge
100	Siltstone: with calcite fragments, gouge
102	Siltstone
104	Siltstone: with calcite veining and pyrite mineralization
106	Siltstone: with gouge
108	Siltstone: minor calcite and gouge
110	Siltstone: with calcite chips
112	Siltstone: with pyrite
114	Siltstone: with calcite veins and chips, lots of gouge
116	Siltstone: with pyrite

ROTARY HOLE NO. LB-200

Intervals (meters)	Description
118	Siltstone: with calcite vein and gouge
120	Siltstone: with calcite chips and pyrite mineralization
122	Siltstone: as above
124	Siltstone: with calcite veins and fragments
126	Siltstone: calcite fragments and gouge
128	Siltstone: finely laminated with calcite veins and chips
130	Siltstone: brown-gray, finely laminated with calcite chips
132	Siltstone: as above
134	Siltstone: laminated and brown-gray
136	Siltstone: as above
138	Siltstone: as above
140	Siltstone: as above
142	Siltstone: with gouge
144	Siltstone: as above
146	Shale/Mudstone: laminated and calcite chips
148	Mudstone/Shale: dark gray with calcite chips
150	Mudstone: dark gray with calcite veins and chips and pyrite
152	Mudstone: as above
154	Mudstone: as above with calcite chips and gouge
156	Mudstone
158	Mudstone
160	Mudstone: finely laminated
162	Mudstone: as above
164	Mudstone; finely laminated with calcite chps and gouge

ROTARY HOLE NO. LBR-201

DATE:	July 19, 1980
ELEV:	1520.0
NORTHING:	5470994.0
EASTING:	671547.0
TOTAL DEPTH:	266.0
ANGLE:	90
AZIMUTH:	-
LOGS RUN:	Bulk Density, Gamma, Long Spaced Density, Neutron, Caliper

Intervals (meters)	Description
0 - 14	Sandstone - coarse grain, with coal chips, medium gray
16	Sandstone - medium grain with coal partings and medium gray
18	Sandstone - coarse grain, dark gray, coaly
20	Mudstone - with coal
22	Coal
25	Sandstone - medium grain, medium gray with siltstone partings and coal chips
26	Sandstone - as above
28	Sandstone - coarse grain, medium gray with coal partings
30	Sandstone - as above
32	Sandstone - medium grain, medium gray with coal
34	Sandstone - as above

ROTARY HOLE NO. LBR-201

Intervals (meters)	Description
36	Sandstone - as above
38	Sandstone - medium grain, medium gray, no coal
40	Sandstone - coarse grain, medium gray
42	Sandstone - coarse grain, dark gray with coal fragments
44	Sandstone - as above
46	Sandstone - fine grain with coal chips and partings
48	Siltstone/Sandstone - fine grain, dark gray with coal fragments
50	Siltstone/Sandstone - as above
52	Siltstone - dark gray with coaly partings
54	Mudstone - dark gray, carbonaceous with coaly partings
56	Siltstone/Sandstone - as at 48
58	Sandstone - medium grain, medium gray
60	Siltstone/Sandstone - fine grain sandstone with coal partings, dark gray
62	Sandstone - fine grain, medium gray
64	Coal
76	Sandstone - fine grain, light gray with coaly partings
78	Siltstone/Sandstone - fine grain, dark gray, coaly
80	Siltstone - dark gray, coaly
82	Sandstone - fine grain, dark gray
84	Sandstone - fine grain, medium gray
86	Siltstone - medium gray
88	Sandstone - fine grain, medium gray

ROTARY HOLE NO. LBR-201

Intervals (meters)	Description
90	Siltstone - medium gray
92	Sandstone - medium grain, medium gray
94	Sandstone - as above
96	Sandstone - medium grain, medium gray
98	Sandstone - medium grain, medium gray
100	Sandstone - as above with coaly fragments
102	Sandstone - as above
104	Sandstone - coarse grain, light gray with coaly partings
106	Sandstone - medium grain
108	Sandstone - fine grain
110	
112	Sandstone - light gray, coarse grain with coaly partings
114	Sandstone - coarse grain, medium gray with shale partings and coal
116	Sandstone - coarse grain, medium gray with shale partings and coal
118	Sandstone - coarse grain, dark gray
120	Sandstone - fine grain with coal partings
122	Shale - dark gray, coaly
124	Coal - with 40% shale
124.5	Shale - coaly
126	Shale - as above
128	Coal
130	Coal

ROTARY HOLE NO. LBR-201

Intervals (meters)	Description
132	Sandstone - dark gray, fine grain, coaly
134	Coal
136	Shale - medium gray
138	Siltstone - dark gray with coal fragments
140	Siltstone - dark gray
142	Siltstone - dark gray, coaly
144	Sandstone - fine grain to medium grain with coal partings
146	Siltstone - light gray with coal fragments
148	Sandstone - fine grain with coal partings
150	Siltstone - medium gray
152	Siltstone - gray-brown with plant fragments and coal chips
154	Siltstone - light gray to gray-brown
156	Siltstone - with coal fragments
158	Mudstone - coaly, dark gray-black
160	Shale - carbonaceous, dark gray
162	Sandstone - fine grain, light gray
164	Siltstone - medium gray
166	Siltstone - as above with coal partings
168	Mudstone - dark gray, coal fragments
170	Coal
177	Sandstone - medium grain, dark gray with coal fragments
180	Sandstone - as above

ROTARY HOLE NO. LBR-201

Intervals (meters)	Description
182	Sandstone - as above
184	Sandstone - medium grain, dark gray, coaly
186	Sandstone - as above
188	Sandstone - medium grain, medium gray
190	Sandstone - fine grain, medium gray
192	Sandstone - medium grain, medium gray
194	Sandstone - as above
196	Sandstone - fine grain, light gray
198	Sandstone - as above
200	Sandstone - as above
202	Sandstone - fine grain, medium gray with medium gray shale
204	Siltstone - dark gray, coaly
206	Mudstone - medium gray, coaly
208	Mudstone - medium gray
211	Mudstone - calcite chips and veins, pyrite mineralization
267	Mudstone - as above

ROTARY HOLE NO. LBR-205

DATE:	July 27, 1980
ELEV:	1479.0
NORTHING:	5470067.0
EASTING:	673045.0
TOTAL DEPTH:	121.0
ANGLE:	90
AZIMUTH:	-
LOGS RUN:	Gamma, Neutron

Intervals (meters)	Description
26	Siltstone - dark gray
28	Siltstone
30	Siltstone
32	Siltstone
34	Siltstone
36	Siltstone
38	Siltstone
40	Siltstone
42	Siltstone
44	Siltstone - with calcite fragments
46	Siltstone - dark gray, pyrite mineralization
48	Siltstone

ROTARY HOLE NO. LBR-205

Intervals (meters)	Description
50	Siltstone - dark gray
52	Shale/Sandstone - sandstone is light gray, laminated
54	Shale - dark gray
56	Shale
58	Shale
60	Shale
62	Shale
64	Shale
66	Shale - with pyrite
68	Shale - dark gray
70	Shale
72	Shale
74	Sandstone - light gray, calcareous, fine grain
76	Sandstone - as above
78	Sandstone - as above
80	Sandstone - as above
82	Sandstone - as above
84	Sandstone - as above
86	Sandstone - as above
88	Sandstone - as above
90	Sandstone - as above
92	Sandstone - with dark gray shale fragments

ROTARY HOLE NO. LBR-205

Intervals (meters)	Description
94	Sandstone - as above
96	Sandstone - as above
98 - 116	Sandstone - as above
118	Sandstone - with calcite-filled fractures
120	Sandstone - light gray, calcareous with calcite chips
122	Sandstone - as above

CHIP LOG DESCRIPTIONS

ROTARY HOLE NO. LBR-217

DATE:	September 19, 1980
ELEV:	1530.0
NORTHING:	5470675.0
EASTING:	670083.0
TOTAL DEPTH:	200.0
ANGLE:	90
AZIMUTH:	-
LOGS RUN:	Bulk Density, Gamma, Caliper

Intervals (meters)	Description
1.5 - 14.0	Overburden
15.0	Siltstone - dark gray, equigranular, with black carbonaceous plant fragments
16.7	Shale - silty, dark gray-black, with abundant carbonaceous plant fragments
17.0 - 19.2	Coal - sampled (2 bags)
19.8	Siltstone - dark gray to medium gray, equigranular with occasional very thin black carbonaceous plant fragments
21.3	Siltstone - as above
22.8	Sandstone - dark gray, fine grain, equigranular
24.3	Sandstone - as above
25.9 - 29.0	Sandstone - as above

CHIP LOG DESCRIPTIONS

ROTARY HOLE NO. LBR-217

Intervals (meters)	Description
30.5	Sandstone - fine grain to medium grain, gray, equigranular
32.0	Sandstone - as above
33.5	Sandstone - fine grain, gray
35.1	Shale - or very fine grain dark Siltstone very dark gray to black
36.6	Sandstone/Siltstone - dark brown, with sandstone pebbles as above at 33.5
37.7 - 38.8	Coal
39.6	Sandstone/Siltstone - fine grain, dark gray
41.1	Siltstone - black to dark gray, carbonaceous with coaly plant material
42.7	Siltstone - as above
44.2	Sandstone - fine grain, dark gray
45.7	Siltstone - fine grain, carbonaceous plant fragments
47.3	Sandstone - fine grain, dark gray
48.7	Siltstone - dark gray with carbonaceous plant fragments
49.8 - 50.1 51.0 - 51.3	Coal
50.3	Shale/Siltstone - coal veinlets with carbonaceous plant fragments, dark gray to black, in some chips - very coaly
51.8 - 74.7	Sandstone - dark gray to gray, fine grain, silty
74.7	Sandstone - dark brown, coaly and silty
76.2	Sandstone - dark brown, silty
76.2 - 82.3	Sandstone - medium grain, possibly carbonaceous or coaly dark gray

CHIP LOG DESCRIPTIONS

ROTARY HOLE NO. LBR-217

Intervals (meters)	Description
82.3	Siltstone - shaley, dark gray to black
83.8	Siltstone - dark gray, carbonaceous, with plant fragments
85.4	Siltstone - as above
86.9	Siltstone - as above
88.4	Siltstone/Shale - coaly, carbonaceous
91.4	Sandstone - salt and pepper, fine grain to medium grain equigranular with occasional calcite fractures
93.0	Sandstone - as above but occasional coal chips
94.5	Sandstone - as above
96.0	Sandstone - as above
97.5	Siltstone - dark gray
99.0	Siltstone/Sandstone - mostly dark gray, carbonaceous, siltstone with occasional salt and pepper sandstone, occasional chips of calcite and some coal
100.6	Siltstone - dark gray, carbonaceous with coaly lenses
101.4 - 102.7	Coal
103.6	Siltstone/Sandstone - as at 99.0
105.2	Siltstone - dark gray, shaley, carbonaceous with some coaly plant fragments
106.7	Siltstone - as above
108.2	Siltstone - as above, some white calcite chips
109.7	Siltstone/Shale - interbedded? Shale is dark gray-black, fissile, siltstone is dark gray, siliceous, carbonaceous

CHIP LOG DESCRIPTIONS

ROTARY HOLE NO. LBR-217

Intervals (meters)	Description
111.2	Siltstone/Shale - as above, coaly
115.8	Sandstone/Siltstone - fine grain, equigranular, gray sandstone but some fine grain dark gray siltstone. Occasional coal chips and very rare calcite chip.
117.3	Sandstone - as above, but no siltstone, coal chips still evident and calcite veinlets observed
118.9	Sandstone - dark gray, fine grain, silty and also some medium grain salt and pepper, equigranular sandstone, coal chips still evident
120.4	Siltstone - dark gray, massive, with occasional calcite veinlets, very rare carbonaceous plant fragments
121.9	Siltstone/Sandstone - medium grain, salt and pepper, equigranular sandstone with occasional dark gray, equigranular siltstone, very rare coal chips
123.5	Siltstone/Sandstone (50-50%) - sandstone is fine grain, equigranular, gray to dark gray, siltstone has occasional carbonaceous plant fragments
125	Sandstone - dark gray-brown, fine grain with abundant white-pink calcite veinlets
126.5	Siltstone/Sandstone - sandstone is fine grain, dark gray, massive with occasional white calcite, siltstone is dark gray with occsional carbonaceous plant fragments
128.0	Sandstone - fine grain, dark brown to gray, equigranular, silty along with medium grain, salt and pepper sandstone, occasional coal fragments
129.5	Sandstone - as above, but coal lenses more frequent

CHIP LOG DESCRIPTIONS

ROTARY HOLE NO. LBR-217

Intervals (meters)	Description
131.1	Sandstone - fine grain, dark gray-brown, equigranular with calcite veinlets and occasional coal
132.6	Siltstone - sandy, dark brown, equigranular with occasional slickensided white calcite veinlets
134.1	Sandstone/Siltstone/Shale/Coal - sandstone is fine grain, dark brown, siliceous Siltstone is dark gray, siliceous Shale is black, with carbonaceous plant fragments
135.6	Coal/Siltstone - dark gray-black, carbonaceous, massive, siliceous
137.2	Coal/Siltstone - as above
138.7	Coal/Siltstone - as above
140.2	Coal/Siltstone - as above
141.8	Coal/Siltstone
143.3	Sandstone - fine grain, gray, silty, equigranular with some occasional dark gray-black shale
144.8	Sandstone - as above, but very coaly
146.3	Coal/Shale/Siltstone - shale is black, fissile and carbonaceous, siltstone is dark gray, siliceous, very coaly
147.8	Shale/Coal - black, vitreous coal mixed with dark gray-black, fissile, shale (50-50%)
149.9	Shale/Coal - as above
150.9	Shale/Coal - as above
152.4	Shale/Coal - as above
154.0	Shale/Coal/Sandstone - as above but now some occasional salt/pepper, medium grain, equigranular, sandstone chips

CHIP LOG DESCRIPTIONS

ROTARY HOLE NO. LBR-217

Intervals (meters)	Description
155.5	Shale/Coal/Sandstone - as above
157.0	Basal Sandstone/Coal - salt and pepper, fine grain to medium grain, equigranular, massive sandstone with 50% coal/shale chips
158.5	Basal Sandstone - as above, but less coal and more shale chips
160.0	Basal Sandstone - as above
161.6 - 198.2	Sandstone - basal, fine grain to medium grain, salt and pepper, equigranular, with numerous coal chips and occasional large dark gray siltstone chips. Very coaly at 169.2 m and 196.6 m
198.2	End of Hole

ROTARY HOLE NO. LBR-218

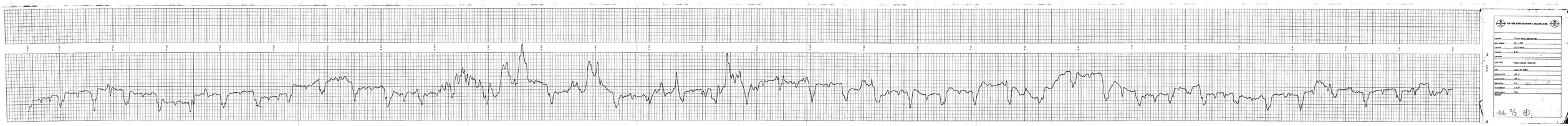
DATE:	September 20, 1980
ELEV:	1530.0
NORTHING:	5470884.0
EASTING:	670301.0
TOTAL DEPTH:	62.0
ANGLE:	90
AZIMUTH:	-
LOGS RUN:	Bulk Density, Gamma, Caliper

Intervals (meters)	Description
15.2	Dirt (overburden)
45.7	As above (overburden)
50.3	Siltstone - dark gray, aphanitic, siliceous
51.8	Siltstone - as above
53.35	Limestone - cream weathering, light gray, fine grained
61.0	Limestone - as above

SAYBER EXPLORATION LOGGING LTD.

COMPANY: Dyna Bert Resources
FIELD NAME: BR - 200
WELL NAME: Lake Bonnie
PROVINCE: B.C.
COUNTRY: Canada
LOG TYPE: GAMMA RAYS/NEUTRON GRAPH
DATE: FEB 18 1995
INITIAL DEPTH: 102 m
LOGGED DEPTH: 102 m
LOGGING SPEED: 6.1 m
DATUM: KB
LOGGING DATE: 20 m
REMARKS:

DEPTH: 1:200

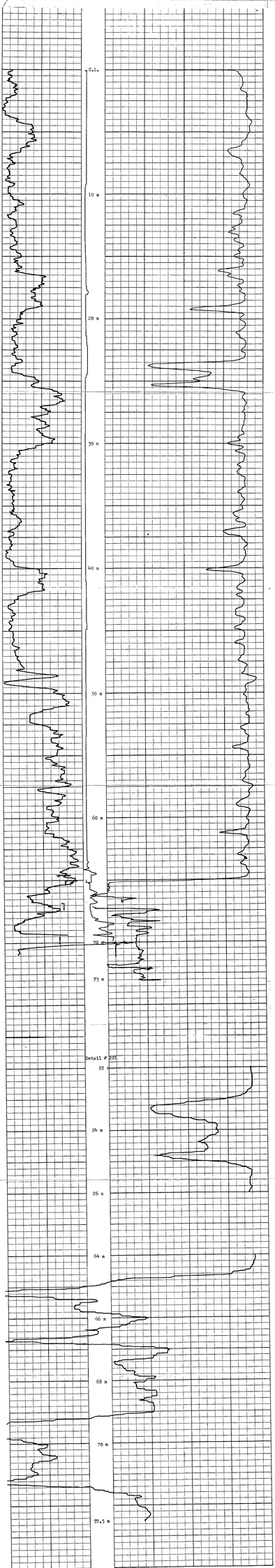

DATES EXPLORATION LOGGING LTD.
Operator Texas Gas Exploration
Well Number Ed 1-28
Location Calcasieu
Parish N.A.
Country U.S.A.
LOG TYPE Temp Gamma Density
DATE Aug. 20 1984
PRIMARY DEPTH Feet
SECONDARY DEPTH Feet
DEPTH RATIO 1:240
PRIMARY SCALE 5 1/2"
SECONDARY SCALE N.A.
406 7/3 ①

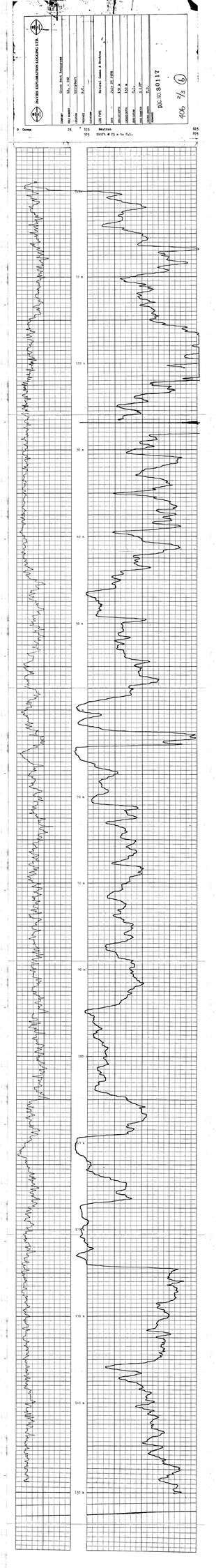
DAVIES EXPLORATION LOGGING LTD.

COMPANY	Ocean Bank Resources
HOLE NUMBER	LB - 201
LOCATION	Little Bear
PROVINCE	B.C.
ELEVATION	
LOG TYPE	CALIPER, NATURAL GAMMA, RESISTIVITY, DENSITY
DATE	July 22 1980
DRILLED DEPTH	266 m
LOGGED DEPTH	73 m
ZERO DATUM	G.L.
HOLE DIAMETER	5 1/8"
CASING LENGTH	
REMARKS	406 2/3 (5)

NO 80117

CALIPER | NATURAL GAMMA | RESISTIVITY | DENSITY




DAVIES EXPLORATION LOGGING LTD.
Gross Pay Thickness
Pay Thickness
Well Name
101/2-7A
Method
Km
Client
Log Type
Natural Gamma & Neutron
Date
July 21,1978.
Depth Datum
130 m
Depth Datum
Sea Level
Elevation
Gls.
Elevation
5.5 m
Instrument
Km
Operator
Witness
Km
21 108 00 00
100 7/6 (6)
0 Gamma 25
125 Neutron 625
375 SHIFT # 25 m to Gls. 875
10 m
20 m
30 m
40 m
50 m
60 m
70 m
80 m
90 m
100 m
110 m
120 m
130 m
140 m
150 m

DAVIES EXPLORATION LOGGING LTD.
DEL 10 0 1 1 T

COMPANY	Cypress Hills Resources
WELL NAME	10 - 102
LOCATION	11112 Bert's
PROVINCE	B.C.
ELEVATION	
LOG TYPE	Long Spaced Sonic/Grd
DATE	Feb 22 1990
DRILLED DEPTH	136 m
LOGGED DEPTH	136 m
HOLE SIZE	6 1/4
CASING SIZE	4 1/2"
CASING DEPTH	5.5 m
REMARKS	

406 2/3 (7)

7.5K L.S.O. 2.5K
15K @ 15.5 m to G.L. 5K

G.L.

10 m

20 m

30 m

40 m

50 m

60 m

70 m

80 m

90 m

100 m

110 m

120 m

130 m

140 m

150.5 m

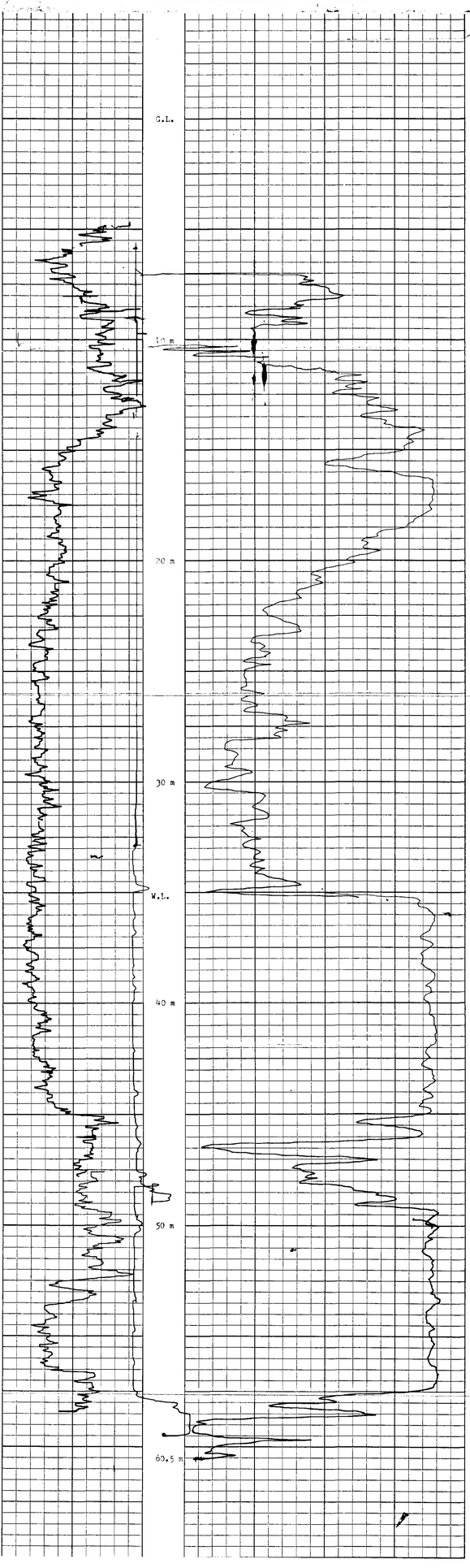
DAVIES EXPLORATION LOGGING LTD.

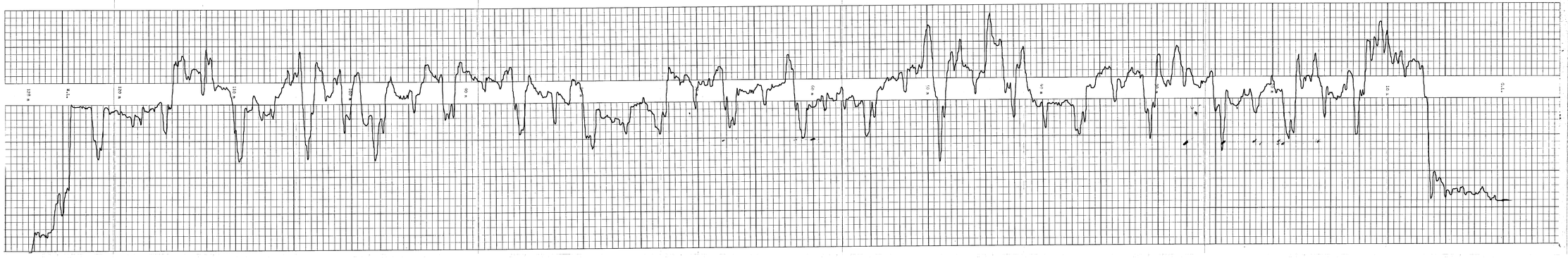
DOC. NO. 801117

COMPANY	Crome Nest Resources
HOLE NUMBER	LB - 202
LOCATION	Lillooet
PROVINCE	B.C.
ELEVATION	
LOG TYPE:	CALIPER, NATURAL GAMMA, ~~RESISTIVITY~~, DENSITY
DATE	July 25 1980
DRILLED DEPTH	154 m
LOGGED DEPTH	61.5 m
ZERO DATUM	G.L.
HOLE DIAMETER	5 1/8"
CASING LENGTH	
REMARKS:	Dev. Drift 1° Bearing N. 10° E. @ 60 m

406 2/3 (8)

~~RESISTIVITY~~ NATURAL GAMMA ~~RESISTIVITY~~ Caliper DENSITY





DAVIES EXPLORATION LOGGING LTD.

D.E.L. No. 80117

COMPANY	Crown West Resources
HOLE NUMBER	12 - 203
LOCATION	Lillybert
PROVINCE	B.C.
ELEVATION	
LOG TYPE:	Long Spaced Density
DATE	July 26 1980
DRILLED DEPTH	130 m
LOGGED DEPTH	120 m
ZERO DATUM	G.L.
HOLE DIAMETER	5 1/8"
CASING LENGTH	
REMARKS	

406 2/3 (9)

L.S.D.

RE

SC

SALVED EXPLORATION DRILLING LTD.

COMPANY: Crown Mines Developing
WELL NAME: 18 - 703
LOCATION: Lillipfontein
PROVINCE: Kafue
COUNTRY:

LOG TYPE: CALIPER, NATURAL GAMMA, NEUTRONS (DENSITY)
DATE: July 26, 1990
DRILLED DEPTH: 130 m
CASING DEPTH: 112 m
HOLE DIAMETER: 6 1/2"
CASING DIAMETER: 6 5/8"
REMARKS: Serv. Drill & Blasting P. L.

406 73 (10)

DEPTH | NATURAL GAMMA | NEUTRONS Caliper | DENSITY

0.0 m
10 m
20 m
30 m
40 m
50 m
60 m
70 m
80 m
90 m
100 m
Caliper
110 m
120 m
125 m
Detail 95
95 m
100 m
105 m
109 m

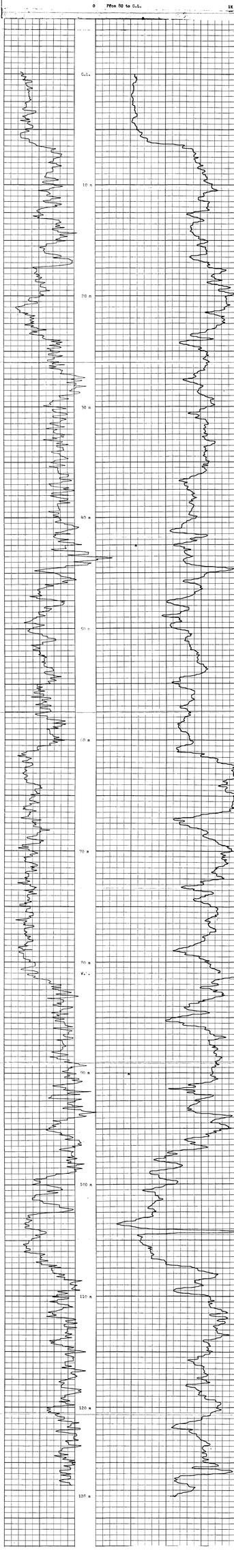
DAVIES EXPLORATION LOGGING LTD.

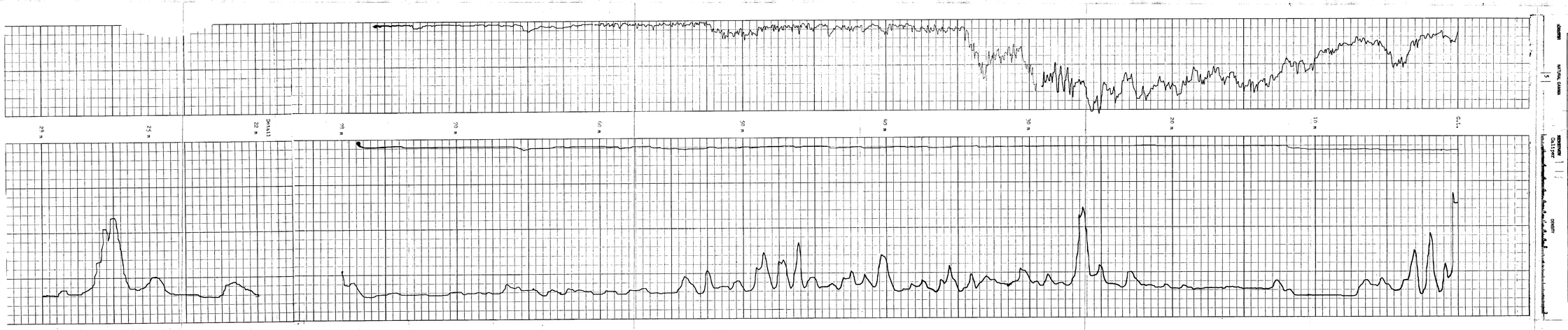
COMPANY	Cheam Rock Exploration
WELL NUMBER	Blue 203
LOCATION	Lakelands
COUNTRY	B.C.
COUNTRY	
LOG TYPE	Natural Gamma & Neutron
DATE	July 26 1990
DRILLER'S DEPTH	130 m
LOGGER'S DEPTH	128 m
ZERO DATUM	G.L.
HOLE DIAMETER	5 1/8"
CASING LENGTH	T.D.
REMARKS	

406 2/3 (11)

0 GAMMA 15 185 Neutron 600

0 PPm 80 to G.L. 1K





DAVIES EXPLORATION LOGGING LTD.
DOC. NO 80117

COMPANY	Crown Nest Resources
HOLE NUMBER	LB - 204
LOCATION	Lillybart
PROVINCE	B.C.
ELEVATION	
LOG TYPE: CALIPER, NATURAL GAMMA, ~~RESISTIVITY~~, DENSITY	
DATE	July 27 1980
DRILLED DEPTH	~~82~~ m 7
LOGGED DEPTH	~~78~~ m
ZERO DATUM	G.L.
HOLE DIAMETER	5 1/8"
CASING LENGTH	11 m
REMARKS:	Drift 2.8° Bearing N.

406 2/3 (12)

ROKE

GAMMA RAY NEUTRON LOG

DIL ENTERPRISES LTD. CALGARY - ALBERTA

COMPANY: CENAL WEST RESOURCES LIMITED

WELL: 1-8-8-8-E

LOCATION

FIELD

PROVINCE: BRITISH COLUMBIA

Permanent Datum: GROUND LEVEL

Elevation: Above Perm. Datum

Log Measured From: GROUND LEVEL

Drilling Measured From: KELLY BUSHING

Date: 28 JAN 1978

Run No.: ONE

Depth Driller: 1194.0 m

Depth Logger: 1192.5 m

Bottom Log Interval: 1192.5 m

Top Log Interval: 0 m

Casing Driller: 244.5 mm @ 0 m

Casing Logger: 244.5 mm @ 0 m

Bit Size: 215.9 mm

Type Fluid in Hole: WATER

Dens.: 1.0 g/cm³

Visc.: 1.0 mPa.s

pH: 7.0

Fluid Loss: N/A

Source of Sample: CIRCULATION

Rm @ Meas. Temp.: 0.9 Ω-m @ 15 °C

Rmf @ Meas. Temp.: N/A

Rmc @ Meas. Temp.: N/A

Source: Rmf: N/A Rmc: N/A

Rm @ BHT: 0.9 Ω-m @ 15 °C

Time Since Circ.: 3 HRS

Time Since Shut-In: 1 HRS

Max. Rec. Temp.: 15 °C

Equip. Location: BRANDT

Recorded By: D. STEWART

Witnessed By: [illegible]

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG RUN	NEUTRON/NEUTRON
DIAMETER	3.175 cm	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	3.175 cm
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	0.61 m	TYPE	PROPORTIONAL
DISTANCE TO SOURCE	0.3 m	LENGTH	
GENERAL		SOURCE MODEL NO.	MNC-N-55 W
HOKE TRUCK NO.	37	SERIAL NO.	268
INSTRUMENT TRUCK NO.	37	SPACING	45.72 cm
TOOL SERIAL NO.	A-GRN/AAAA	TYPE	Amer
		STRENGTH	0.0 GIGA

LOGGING DATA

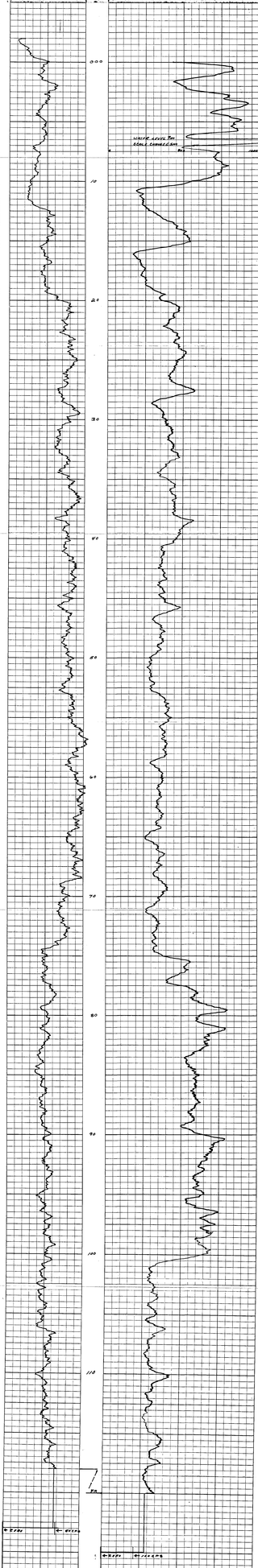
GENERAL					GAMMA RAY				NEUTRON			
RUN NO.	DEPTH FROM	DEPTH TO	SPEED m/MIN	SPEED SEC.	T.C. SETTING	ZERO DIV. L. OR R.	API G. R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTING	ZERO DIV. L. OR R.	API N. UNITS PER LOG DIV.
1	0	0.0	V	V	1.0	R.	20 API	0	1.0	R.	20 API
	0.0	0.0	V	V	1.0	R.	20 API	0	0.0	R.	20 API

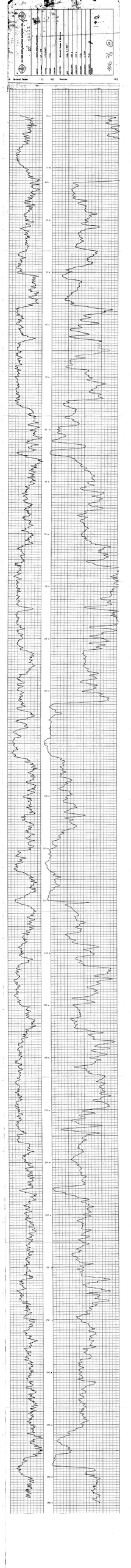
REMARKS: ZERO THROUGH CASING WALL ON ALL STCM

GAMMA RAY — DEPTH — NEUTRON

GAMMA RAY INCREASES → API 0 → 100

NEUTRON INCREASES → API 100 → 0 PORO



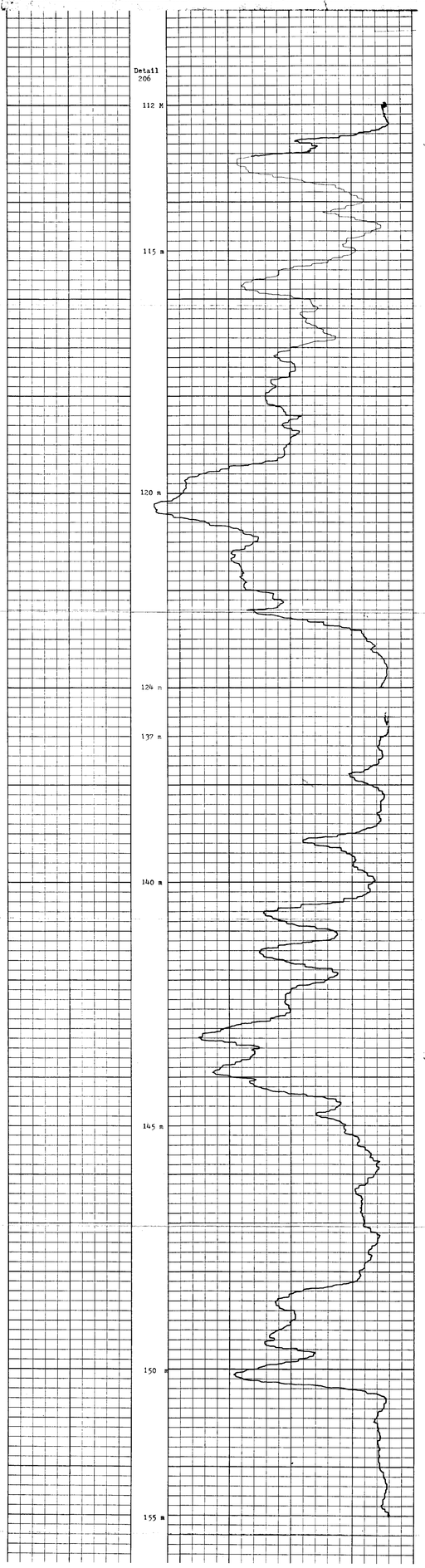

Schlumberger
Dresser Atlas Formation Density Log
Company
Well
Field
County
State
Other Services
Location
Permanent Datum
Log Measured From
Drilling Measured From
Elevation
Date
Run No.
Depth Driller
Depth Logger
Bottom Logged Interval
Top Log Interval
Casing Driller
Casing Logger
Bit Size
Type Fluid in Hole
Density
Viscosity
Max. Rec. Temp.
Equipment Location
Recorded By
Witnessed By
Rotary Table
Elevation
496 ft
Density Scale
Density Reading
Caliper Scale
Caliper Reading
Gamma Ray Scale
Gamma Ray Reading
Depth Scale

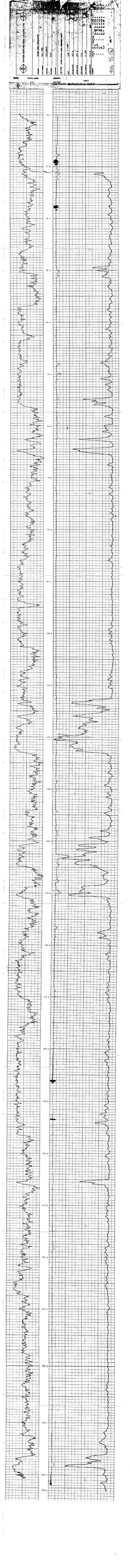
DAVIES EXPLORATION LOGGING LTD.

COMPANY: Cromi Mont Resources
HOLE NUMBER: LR. 206
LOCATION: Lillybert
PROVINCE: B.C.
ELEVATION:
LOG TYPE: GAMMA/GAMMA/DENSITY/DIGITAL
DATE: Aug. 2 1980
DRILLED DEPTH: 265 m
LOGGED DEPTH:
ZERO DATUM: G.L.
HOLE DIAMETER: 5 1/8"
CASING LENGTH:
REMARKS: Detail

406 2/3 (15)

CALIPER | NEUTRON/GAMMA | RESISTIVITY | DENSITY



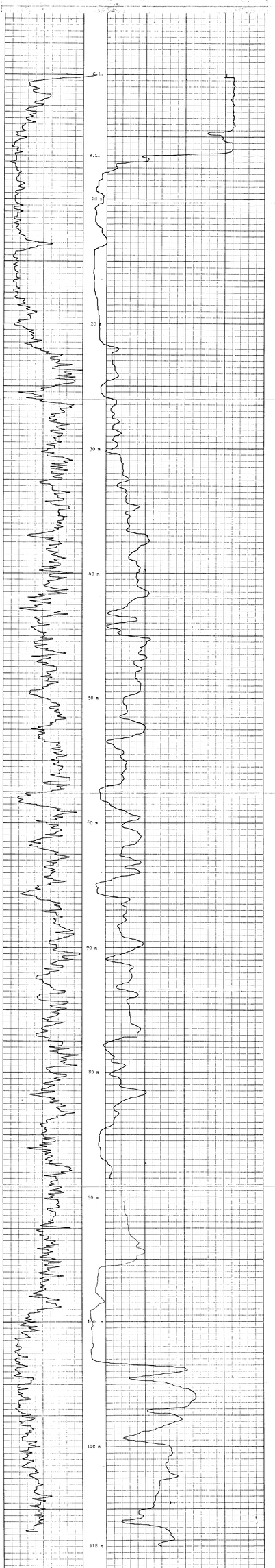


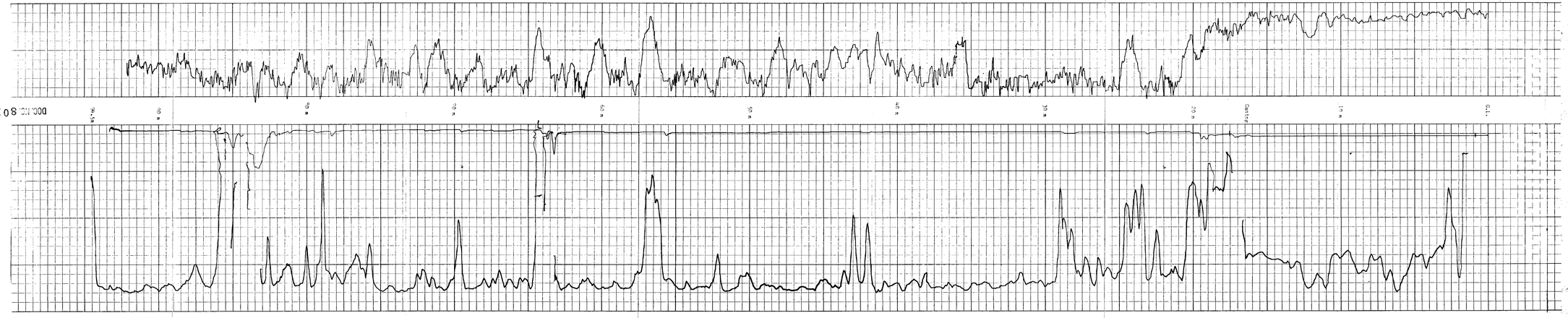
DAVIES EXPLORATION LOGGING LTD.

COMPANY	Crown Zest Resources
HOLE NUMBER	LB - 207
LOCATION	Lillooet
PROVINCE	B.C.
ELEVATION	
LOG TYPE	Natural Gamma & Neutron
DATE	June 16 1990
DRILLED DEPTH	118 m.
LOGGED DEPTH	0.5m.
HOLE DIAMETER	5 1/8"
CASING LENGTH	7.5m.
REMARKS	

406 2/3 (7)

0 Natural Gamma 25 200 Neutron 1.2 K

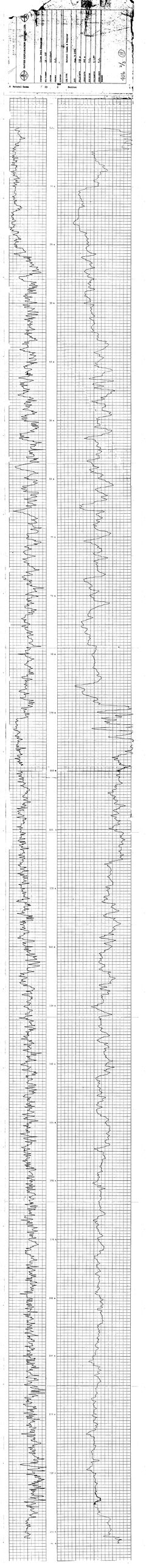




DAVIES EXPLORATION LOGGING LTD.

COMPANY	Crows Nest Resources
HOLE NUMBER	LB. - 207
LOCATION	Lillyhurt
PROVINCE	B.C.
ELEVATION	
LOG TYPE:	CALIPER, NATURAL GAMMA, ~~RESISTIVITY~~, DENSITY
DATE	Aug. 4 1980
DRILLED DEPTH	253 m
LOGGED DEPTH	94.5 m
ZERO DATUM	G.L.
HOLE DIAMETER	5 1/8"
CASING LENGTH	16. m
REMARKS:	

406 2/3 (18)


SANDS EDUCATIONAL SERVICES, INC.
Chris Ann Dougherty
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Diagnosis
Technician
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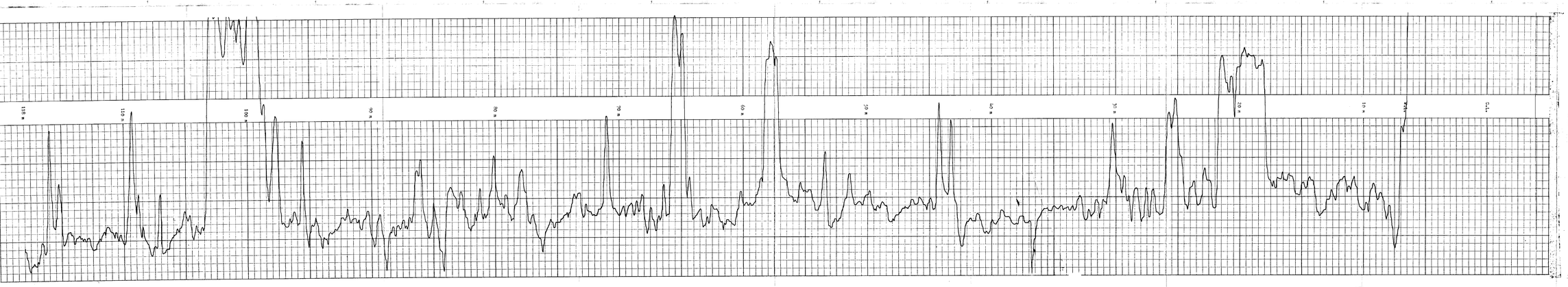
406 1/2 (17)



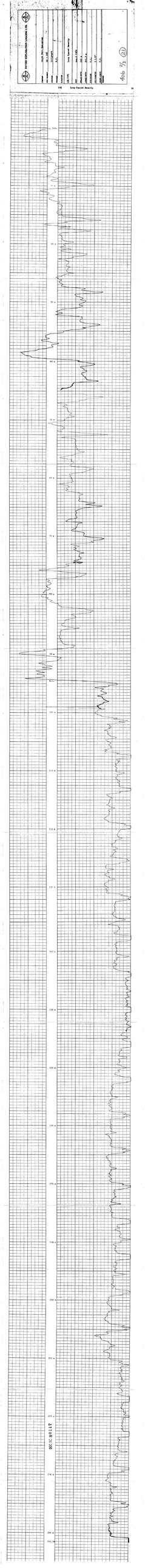
DAVIES EXPLORATION LOGGING LTD.

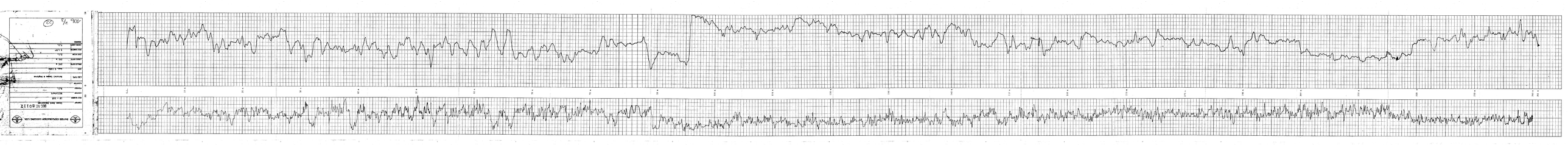
COMPANY	Crown Ness Resources
HOLE NUMBER	207
LOCATION	Lillybart
PROVINCE	B.C.
ELEVATION	
LOG TYPE:	Long Spaced Density
DATE	Aug. 16 1980
DRILLED DEPTH	
LOGGED DEPTH	118 m
ZERO DATUM	G.L.
HOLE DIAMETER	5 1/8"
CASING LENGTH	T.D.
REMARKS:	

40b 2/3 (20)

12.25

7.5


NATIONAL DRILLING COMPANY LTD.
Date
Well name
Contractor
Rig
Operator
Contractor
Rig No.
Hole size
Mud wt.
Mud type
Viscosity
Fluid loss
Temperature
Recorded by
Witnessed by
Equipment
Long Spaced Density
406 3/4 (21)
Long Spaced Density
2170-9300



DAVIES EXPLORATION LOGGING LTD.

COMPANY	Crown Nest Resources
HOLE NUMBER	EB - 208
LOCATION	Lillooet
PROVINCE	B.C.
ELEVATION	
LOG TYPE	CALIPER, NATURAL GAMMA, RESISTIVITY, DENSITY
DATE	Aug. 6 1980
DRILLED DEPTH	246 m
LOGGED DEPTH	90 m
ZERO DATUM	G.L.
HOLE DIAMETER	5 1/8"
CASING LENGTH	6 m
REMARKS	

406 2/3 (23)

NATURAL GAMMA

RESISTIVITY
Caliper

DENSITY

G.L.

10 m

20 m

30 m

40 m

50 m

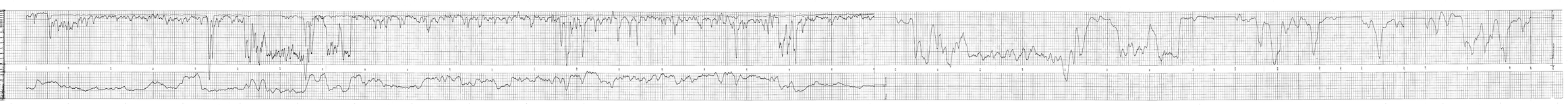
60 m

70 m

80 m

90 m

ROKE



406 2/3 (25)

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.

LSD / SEC / TWP / RGE / W M

COMPANY CROWS NEST RESOURCES LIMITED

WELL LB-809

LOCATION

FIELD LILLY BURT

PROVINCE BRITISH COLUMBIA

Other Services: GR-DENS-CAL DIR

Permanent Datum GROUND LEVEL Elev.

Log Measured from GROUND LEVEL Above Perm. Datum

Well Depths Measured from GROUND LEVEL

K.B. / CSG / G.L.

Run No.	ONE
Date	8 AUG 1980
First Reading	198.5
Last Reading	0
Footage Logged	198.5
Depth Reached	198.7
Depth Driller	200
Casing Roke	7
Casing Driller	7
Fluid Type	AIR/WATER
Liquid Level	16
Min. Diam.	18.7
Rm @	
Operating Time	2 HRS
Truck No.	37

Recorded By JOHNSEN Witnessed By D. ORSER

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	3.175 cm	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10.16 cm	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	0.6 m	LENGTH	
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	254
HOIST TRUCK NO.	37	SPACING	43.18 cm
INSTRUMENT TRUCK NO.	37	TYPE	AmBe
TOOL SERIAL NO.	R-GRN-NESA001	STRENGTH	3 CURIES

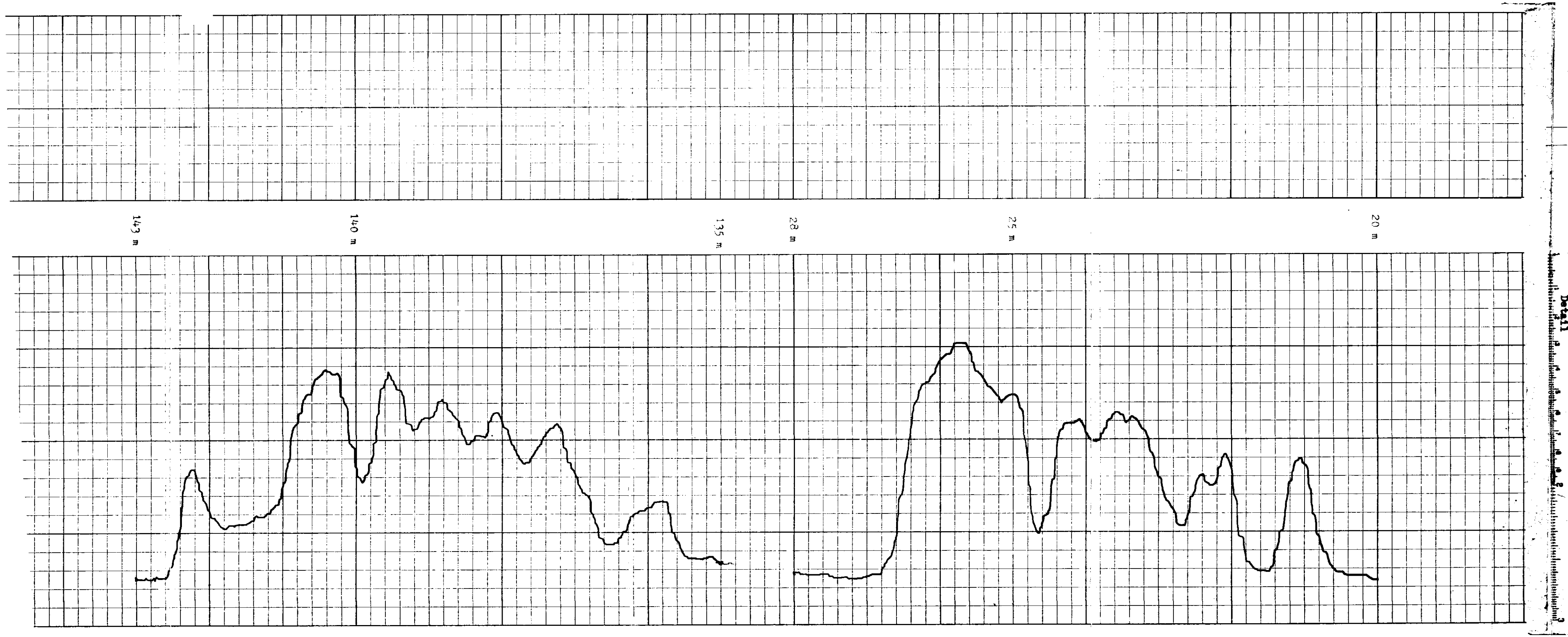
LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED m/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G. R. UNITS PER LOG DIV.	T. C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV.
1	0	15.5	4	4	100	0L	8API	3	1000	0L	140API
	15.5	198.5	4	4	100	0L	8API	3	500	0L	70API

REMARKS LOGGED THROUGH DOUBLE WALL DRILL STEM

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES → API ↔ 8		NEUTRON INCREASES → API ↔ 140

406 2/3 (26)



DAVIES EXPLORATION LOGGING LTD.

COMPANY: Crows Nest Resources

HOLE NUMBER: LB - 212

LOCATION: Lillyburt

PROVINCE: B.C.

ELEVATION:

LOG TYPE: ~~CALIPER, NATURAL GAMMA, RESISTIVITY~~, DENSITY

DATE: Aug. 11 1980

DRILLED DEPTH:

LOGGED DEPTH:

ZERO DATUM: G.L.

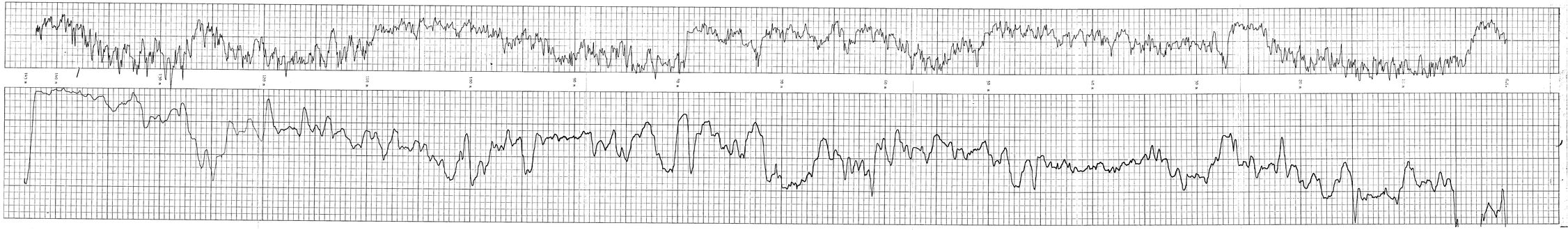
HOLE DIAMETER: 5 1/8"

CASING LENGTH:

REMARKS:

CALIPER | NATURAL GAMMA | RESISTIVITY | DENSITY

906 2/3 (27)



DAVIES EXPLORATION LOGGING LTD.

COMPANY	Crown West Resources
HOLE NUMBER	12 - 212
LOCATION	1113/NWS
PROVINCE	B.C.
ELEVATION	
LOG TYPE:	Natural Gamma & Neutron
DATE	Aug. 11 1990
DRILLED DEPTH	140 m
LOGGED DEPTH	143 m
ZERO DATUM	G.L.
HOLE DIAMETER	4 1/8"
CASING LENGTH	6 m T.D.
REMARKS	

NEUTRON 0 — 100 CPS

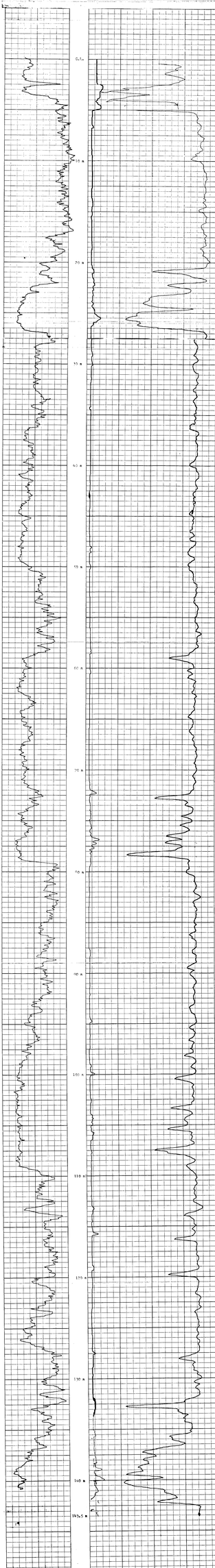
GAMMA 0 — 200 CPS

406 1/2 (28)

DAVIES EXPLORATION LOGGING LTD.

COMPANY: Crown Point Resources
HOLE NUMBER: 18 - 332
LOCATION: Hillsport
PROVINCE: N.Ont.
ELEVATION:
LOG TYPE: Gamma Natural Gamma, Resistivity Gradient
DATE: Aug.11 1990
DRILLED DEPTH: 148 m
LOGGED DEPTH: 143.5 m
CASING FROM: 0.0m.
CASING DIAMETER: 5 1/2"
CASING WEIGHT: 6 m
REMARKS:

DOC.NO 8011.2



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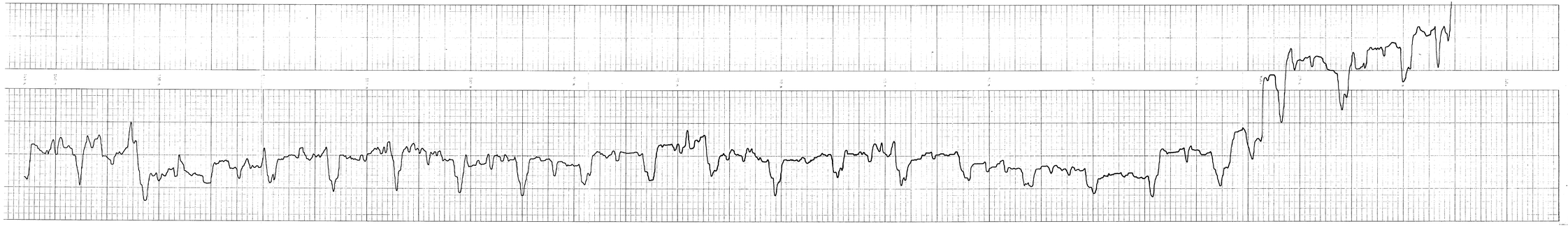

DAVIES EXPLORATION LOGGING LTD.

COMPANY	Crown West Resources
HOLE NUMBER	LB - 212
LOCATION	111/2NW5
PROVINCE	B.C.
ELEVATION	
LOG TYPE:	Long Spaced Density
DATE	Aug. 11 1980
DRILLED DEPTH	148 m
LOGGED DEPTH	143 m
ZERO DATUM	G.L.
HOLE DIAMETER	5 1/8"
CASING LENGTH	T.D.
REMARKS	

DOC. NO. 80117

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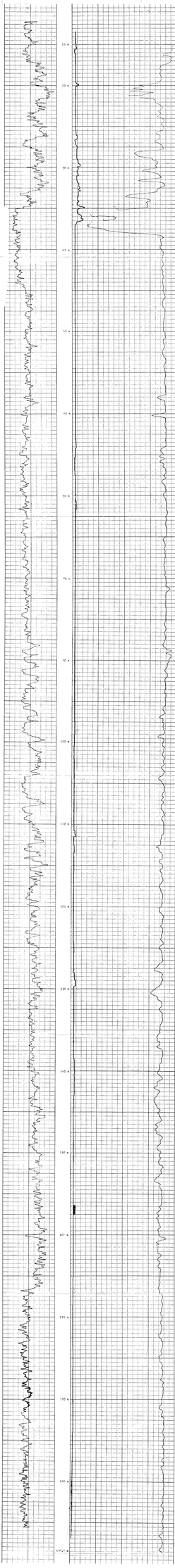
BAYNES EXPLORATION LOGGING LTD.

COMPANY	Crown Zellerbach
WELL NAME	OB - 203
FIELD	Port Alberni
PROVINCE	B.C.
COUNTRY	
LOG TYPE	Caliper
DATE	Feb. 8, 1990
DRILLED DEPTH	203 m
LOGGED DEPTH	203.4 m
DRILLER	Foley
DATE RUN	1 of 1
CASING SHOE	Flush @ 12 m

DRAWN: MATERIAL GAMMA | TEMPERATURE | CALIPER | DENSITY

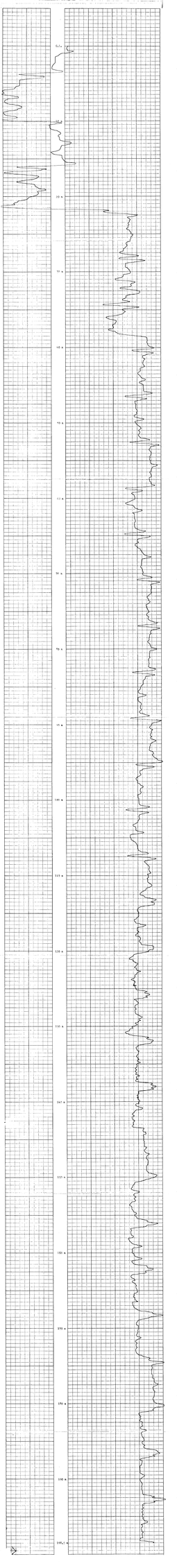


406 7/ (5)

DAVIES EXPLORATION LOGGING LTD.

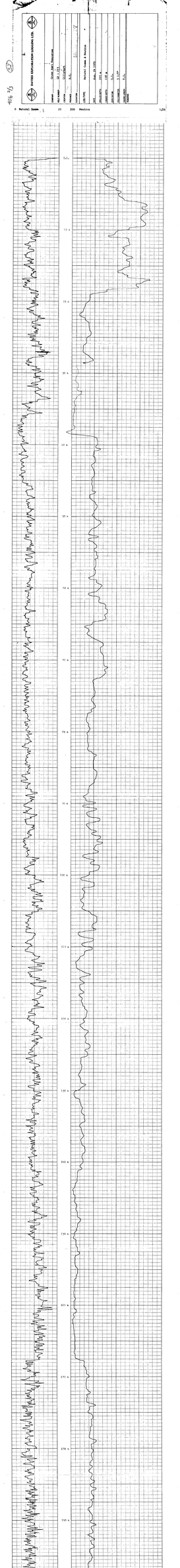
COMPANY	[illegible]
WELL NAME	[illegible]
DATE	[illegible]
FORMAT	[illegible]
DEPTH	[illegible]
LOG TYPE	Gamma Ray Log
TOOL	[illegible]
CALIBRATION	[illegible]
CHANGE DATE	[illegible]
CHANGE DEPTH	[illegible]
CALIBRATION	[illegible]
CHANGE DEPTH	[illegible]

7.50 L.S.D. 7.50



406 43

(22)


SUPERIOR EXPLORATION LOGGING LTD.
COMPANY Great Bear Resources
WELL NAME 34 - 23
FIELD Wildcat
PROVINCE B.C.
LOCATION
DATE 20 Feb 1990
Mexico Creek & Mexico
Mexico
0 Metres/Gamma
25
200
1:24

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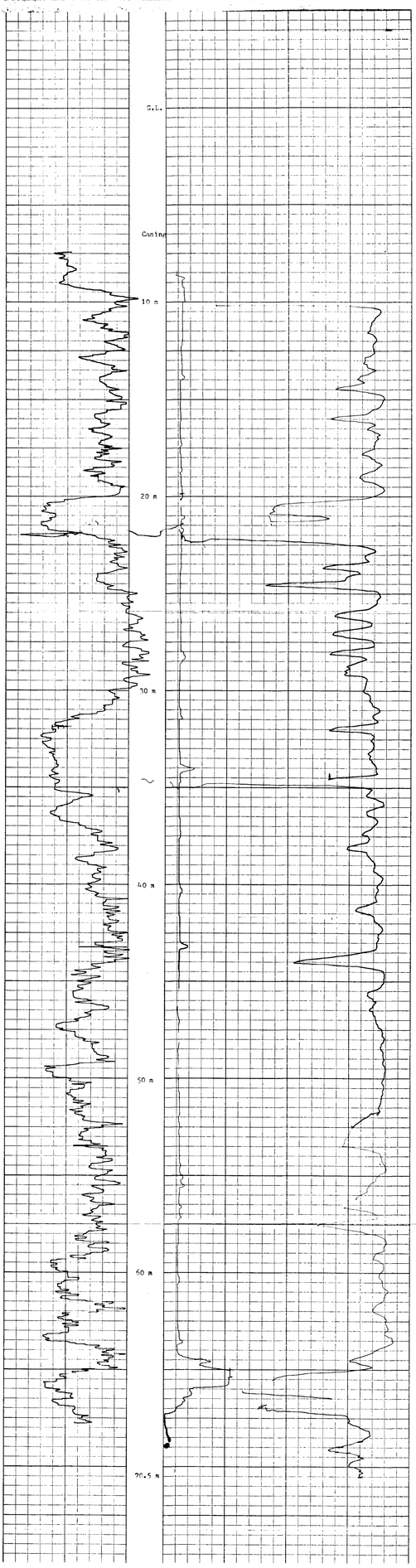
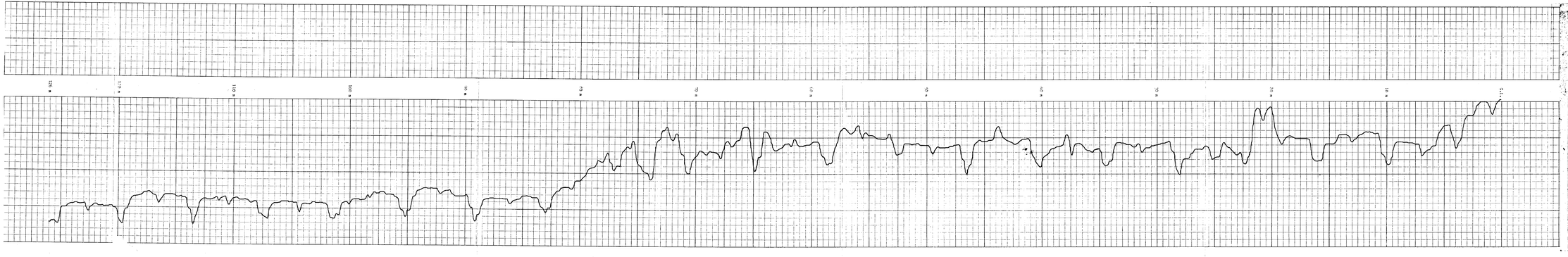
DAVIES EXPLORATION LOGGING LTD.

COMPANY	Crown Nest Resources
HOLE NUMBER	LB - 211
LOCATION	Lillyhurst
PROVINCE	B.C.
ELEVATION	
LOG TYPE:	CALIPER, NATURAL GAMMA, RESISTIVITY, DENSITY
DATE	Aug. 12 1980
DRILLED DEPTH	130 m
LOGGED DEPTH	70.5 m
ZERO DATUM	G.L.
HOLE DIAMETER	5 1/8"
CASING LENGTH	6 m
REMARKS	DOC. NO 80117

DRIFTER | NATURAL GAMMA | RESISTIVITY Caliper | DENSITY





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DAVIES EXPLORATION LOGGING LTD.

COMPANY	Crows Nest Resources
HOLE NUMBER	12 - 211
LOCATION	Lillyhurst
PROVINCE	B.C.
ELEVATION	
LOG TYPE:	Long Spaced Density
DATE	Aug. 12 1986
DRILLED DEPTH	[redacted] m
LOGGED DEPTH	[redacted] m
ZERO DATUM	G.L.
HOLE DIAMETER	5 1/8"
CASING LENGTH	T.D.
REMARKS	

1:50
c.p.s.
2:50

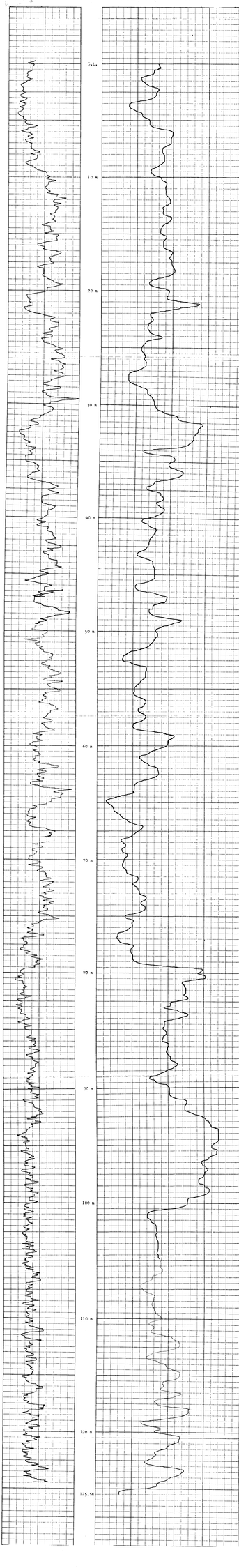
40 26 35

DAVIES EXPLORATION LOGGING LTD.

COMPANY: Cyprus Bear Resources
HOLE NUMBER: AB - 291
LOCATION: Abitibi/Quebec
PROVINCE: Que.
ELEVATION:
LOG TYPE: Natural Gamma & Neutron
DATE: Mar. 12, 1988
DRILLED DEPTH: 130 m
LOGGED DEPTH: 125.5 m
CASING: 6 5/8"
HOLE DIAMETER: 5 1/2"
CONDITIONS: Dry
REMARKS: 5.0%

DOC-NO 90.117

0 Natural Gamma 20 200 Neutron 1.2K



ROKE

OIL ENTERPRISES LTD.

GAMMA RAY NEUTRON LOG

CALGARY ALBERTA

FILE NO.	
LOG NO.	
RUN NO.	
COMPANY	CANADA WIDE EXPLORATION SERVICES LTD.
WELL	LEDUC
FIELD	LEDUC WEST
LOCATION	16-7-49-25-W4M
Permanent Datum:	GROUND LEVEL
Log Measured From:	5.0 FT. ABOVE PERM. DATUM
Drilling Measured From:	KELLY BUSHING
Elev. K.B.	2.0
Elev. D.F.	
Elev. G.L.	
Date	1-7-81
Depth Driller	1004
Depth Logger	1001
Bottom Log Interval	1000
Top Log Interval	SURFACE
Casing Driller	8 5/8 @ 24
Casing Logger	
Bit Size	7 7/8
Type Fluid in Hole	GEL CHEM
Dens.	9.2
Visc.	45
pH	9.5
Fluid Loss	8.4
Source of Sample	FLOWLINE
Rm @ Meas. Temp.	.67 @ 75
Rmf @ Meas. Temp.	.54 @ 75
Rmc @ Meas. Temp.	
Source: Rmf / Rmc	CALCULATED
Rm @ BHT	.29 @ 150
Time Since Circ.	8 HRS
Max. Rec. Temp.	150
Equipment Location	2
Recorded By	A. CLARK
Witnessed By	

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	2.75 IN.	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	2.75 IN.
TYPE	MULTICRYSTAL	DETECTOR MODEL NO.	
LENGTH	40.00 IN.	TYPE	PROPORTIONAL
DISTANCE TO SOURCE	2.0 IN.	LENGTH	
		SOURCE MODEL NO.	MNC-N-55-W
GENERAL		SERIAL NO.	4.0
HOIST TRUCK NO.	27	SPACING	12.0 IN.
INSTRUMENT TRUCK NO.	27	TYPE	Amino
TOOL SERIAL NO.	8.00-1.00.00	STRENGTH	2.0 C-AS

LOGGING DATA

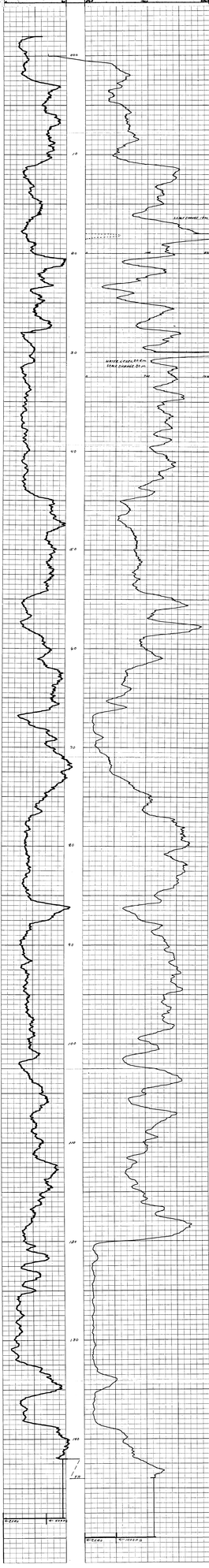
GENERAL					GAMMA RAY				NEUTRON			
RUN NO.	DEPTH FROM	DEPTH TO	SPEED A/MIN	SPEED MIN	T.C. SECS	SENS SETTING	ZERO DIV.	API G. R. UNITS PER DIV.	T.C. SECS	SENS SETTING	ZERO DIV.	API N. UNITS PER DIV.
1	0	12	9	9	.10	4L	1.0	10.0	2	.1	0L	.1	10.0
	12	80	9	9	.10	4L		10.0	2	.1	0L	.1	10.0
	80	1000	9	9	.10	4L	1.0	10.0	2	.1	0L	.1	10.0

REMARKS: CASING THICKNESS 0.0 MM, CASING WEIGHT 0.0 KG/M

CASING

GAMMA RAY — GAMMA RAY INCREASES — API 0 — 150

NEUTRON — NEUTRON INCREASES — API 0 — 100



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ROKE

GAMMA RAY
SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY Crows Nest Resources Limited
WELL LB-810
LOCATION
FIELD Lilly Burt
DOC. NO. 80112
PROVINCE British Columbia

Other Services: GRN D/R

Permanent Datum Ground Level Elev.
Log Measured from Ground Level Above Perm. Datum
Well Depths Measured from Ground Level

K.B.
CSG
G.L.

Run. No.	ONE			
Date	10/11/1980			
First Reading	145.5			
Last Reading	0			
Footage Logged	145.5			
Depth Reached	146.7			
Depth Driller	146			
Casing Roke	6			
Casing Driller	6			
Fluid Type	Air/Water			
Liquid Level	30.5			
Min. Diam.	18.7			
Operating Time	2 hours			
Truck No.	37			

Recorded By Johnson | Witnessed By D'Orsay

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED m MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	CPS/ DIV
1	0	145.5	7	4	100	0L	15API	.2	5K	2.6ER	839.6
	0	145.5	7		CALIPER						

REMARKS

Dens Tool # 18PAS
Cal Tool # 5145
GR Tool # 310

SEISMOGRAPH SERVICE (ENGLAND) LTD.
JOHN BULL PLOTTER
NAME
DATE
TIME
LOCATION
SERIAL No.
SEISMOGRAPH
TYPE
SERIAL No.
SENSITIVITY
SPEED
TIME
DATE
OPERATOR
REMARKS
CONDITIONS
SIGNATURE

406 2/3 (39)

DAVIES EXPLORATION LOGGING LTD.

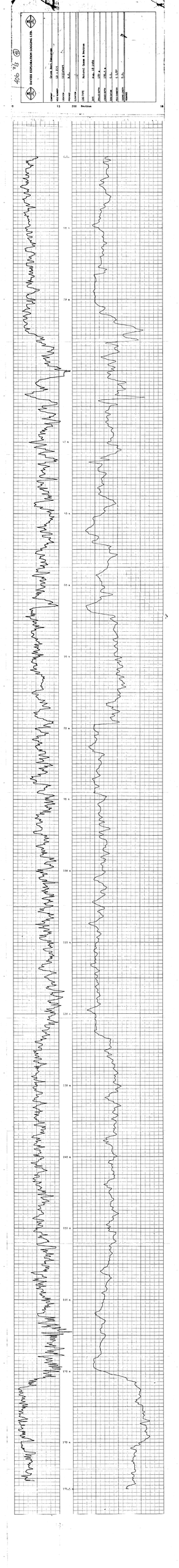
COMPANY	Crows Nest Resources
HOLE NUMBER	LB - 214
LOCATION	Lillyburt
PROVINCE	B.C.
ELEVATION	
LOG TYPE:	Natural Gamma & Neutron
DATE	Aug. 16 1980
DRILLED DEPTH	273 m
LOGGED DEPTH	265 m
ZERO DATUM	G.L.
HOLE DIAMETER	5 1/8"
CASING LENGTH	T.D.
REMARKS:	

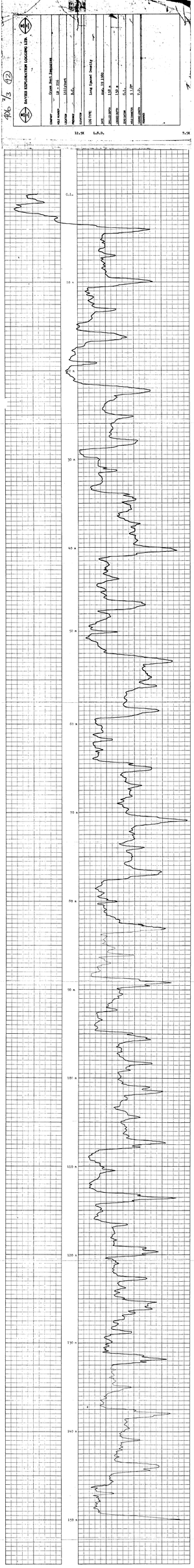
0 25 200 Neutron 1.2K

DAVIES EXPLORATION LOGGING LTD.

COMPANY	Crows Nest Resources
HOLE NUMBER	LB - 215
LOCATION	Lillyburt
PROVINCE	B.C.
ELEVATION	
LOG TYPE:	Long Spaced Density
DATE	Aug. 18 1980
DRILLED DEPTH	187 m
LOGGED DEPTH	186 m
ZERO DATUM	G.L.
HOLE DIAMETER	5 1/8"
CASING LENGTH	T.D.
REMARKS:	

12K L.S.D.


DAVIES EXPLORATION LOGGING LTD.
Gamma Ray Spectrometer
WELL NAME: 18-2-E15
GROUND: 3112.5FT.
DATUM: K.B.
COUNTRY: Canada
LOG TYPE: Natural Gamma & Neutron
DATE: Feb.12.1985
PROBE WIDTH: 1.75 in.
LOGGING SPEED: 25ft./m
TIME CONSTANT: 1.0 sec.
DATA INTERVAL: 1.0ft.
GAMMA GAIN: 1.0
NEUTRON GAIN: 1.0
0
15
200
Neutron
18
60 A
70 A
80 A
90 A
100 A
110 A
120 A
130 A
140 A
150 A
160 A
170 A
180 A
190 A
190.5


DAVIES EXPLORATION LOGGING LTD.
COMPANY Crown Mark Resources
WELL NAME 18 - 216
LOCATION Ellisdrift
PROVINCE B.C.
COUNTRY Canada
LOG TYPE Long Spaced Density
DATE Aug. 15 1990
DRILLED DEPTH 158 m
LOGGED DEPTH 158 m
BIT SIZE 5 1/8"
CASING SIZE
CASING DEPTH T.D.
REMARKS
12.5K L.S.D. 7.5K
10 m
20 m
30 m
40 m
50 m
60 m
70 m
80 m
90 m
100 m
110 m
120 m
130 m
140 m
150 m

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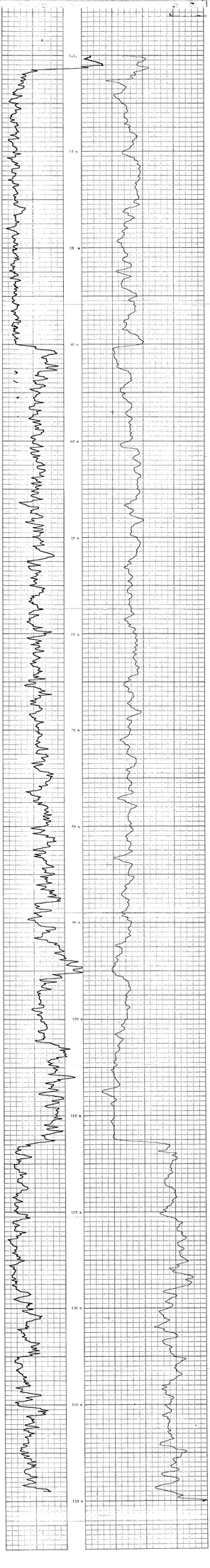
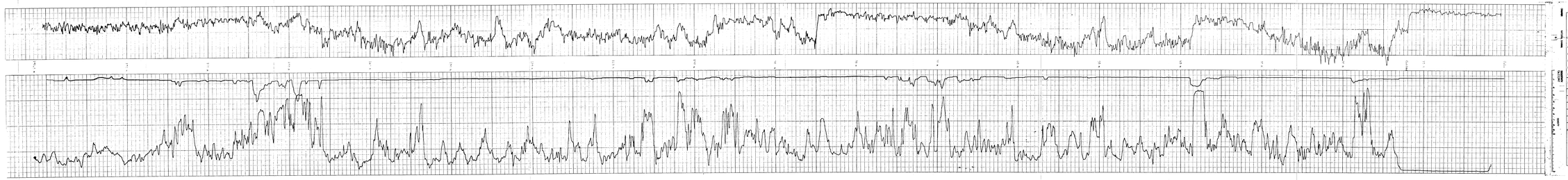
UNITED EXPLORATION LOGGING LTD.

COMPANY	Texas Bell Exploration
WELL NAME	18 - 15S
LOCATION	1312'FWL
PROJECT	R.C.
LOCATION	
LOCATION	
LOG TYPE	Natural Gamma & Neutron
DATE	Mar.19.1985
DRILLED DEPTH	158 m
LOGGED DEPTH	158 m
ZERO POINT	5.1m
CASING DEPTH	5.1m
CASING DIAMETER	R.C.
CASING WEIGHT	
REMARKS	

0 15 200 Neutron 1,AE



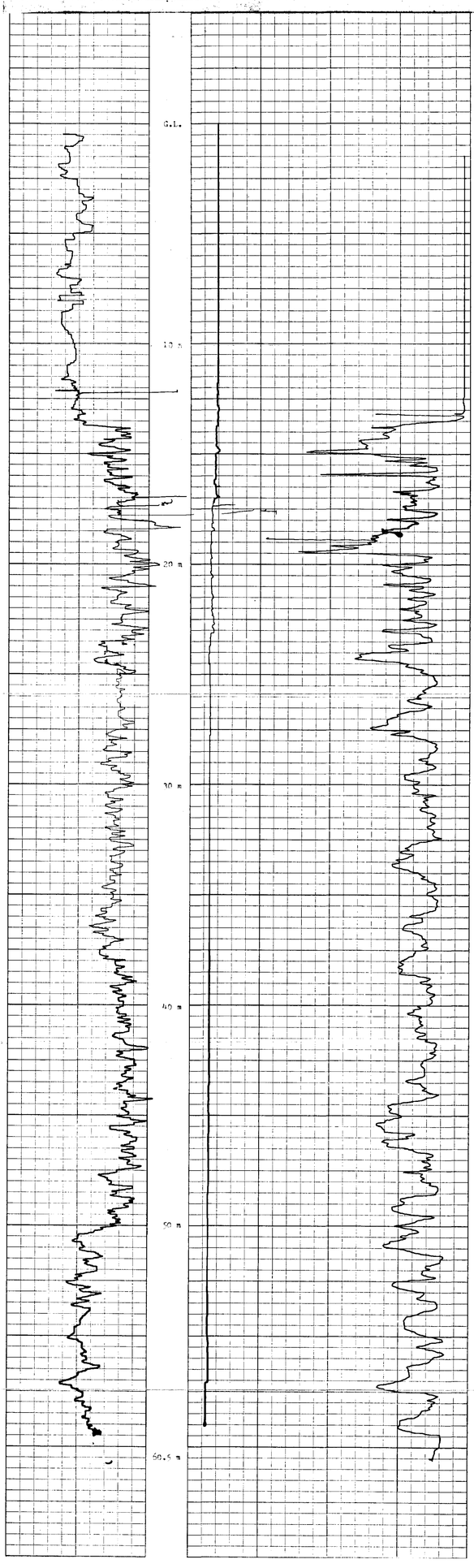

106 2/5 (94)
DAVIES EXPLORATION LOGGING LTD
COMPANY
HOLE NUMBER
LOCATION
PROJECT
ELEVATION
LOG TYPE
DATE
DRILLED DEPTH
LOGGED DEPTH
ZERO DATUM
HOLE DIAMETER
CASING LENGTH
REMARKS
200 m
101.5 m
6.1/8"
13 m

406 2/3 (45)

DAVIES EXPLORATION LOGGING LTD.

COMPANY	Cronus Nat. Resources
HOLE NUMBER	LB - 80 - 2/45 R
LOCATION	Lillooet
PROVINCE	B.C.
ELEVATION	
LOG TYPE:	CALIPER, NATURAL GAMMA, RESISTIVITY, DENSITY
DATE	Sept. 21 1980
DRILLED DEPTH	60 m
LOGGED DEPTH	60.5 m
ZERO DATUM	G.L.
HOLE DIAMETER	6 1/8"
CASING LENGTH	13 m
REMARKS:	

CALIPER | NATURAL GAMMA | RESISTIVITY Caliper | DENSITY



DOC NO. 801172