

# PECHINEY DEVELOPMENT LIMITED NPL

SUITE 701 - 744 WEST HASTINGS ST., VANCOUVER, B.C., CANADA V6C 1A5  
AREA CODE 604 TELEPHONE 687-1564 TELEX 04-53301

## ASSESSMENT REPORT

## MAR-LEN CLAIM GROUP

Latitude: 56°16'30" N  
Longitude: 126°22'30" W  
N.T.S. 94 D / 8 W

Field Season: July 1, 1975 - August 6, 1975

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 5569	MAP _____

August 25, 1975

Report by:  
N. J. Mistry,  
Geologist  
Mar-Len Project  
Pechiney Development Ltd.

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ENCLOSURES

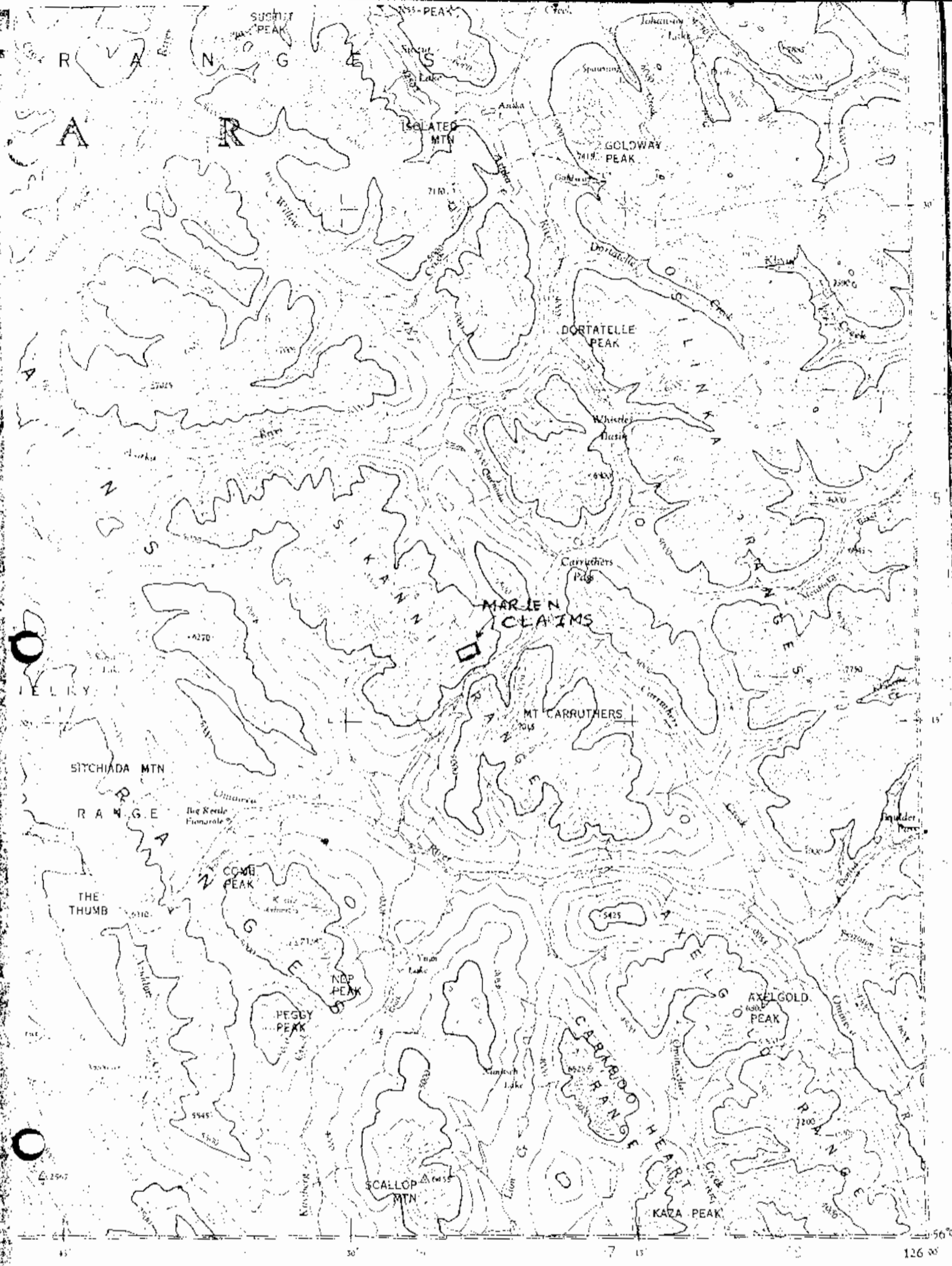
- # 1 Location Map # 1  
    McConnell Creek (Topo Map) N.T.S. 94 D                      in text
- # 2 Claim Map - Map # 2  
    Location of Diamond Drill Holes                              in pocket
- # 3 Plan View of D.D.H. # 75-1, # 75-2 and # 75-3  
    Map # 3    in pocket
- Drill Logs of D.D.H. # 75-1, #75-2 and # 75-3
- Contract for Diamond Drill Program

1. SUMMARY

This report describes an exploratory diamond drilling program and related activities carried out on the MAR-LEN claims property by Pechiney Development Ltd. during this summer from July 1, 1975 through August 6th, 1975. Three diamond drill holes of size BQ, totalling 1300 feet, were drilled on the MAR-LEN property in the Omineca Mining Division, B.C. The diamond drilling was contracted to Wright Drilling of Kamloops, B.C. Because the drilling target is located at much higher altitude (6200' above sea level) a helicopter B-47 was used to transport men and equipments to the drill site from the base camp (elevation 5700' above sea level), located on the property. Approximately \$35,200 has been spent to carry out the drilling program and the helicopter support during July 1, 1975 to August 6, 1975 on this property.

2. LOCATION AND ACCESSIBILITY

The MAR-LEN claim group property is situated about 22 air miles SW from Johanson Lake in northern B.C., and approximately 170 air miles north-northwest from Fort St. James in B.C.



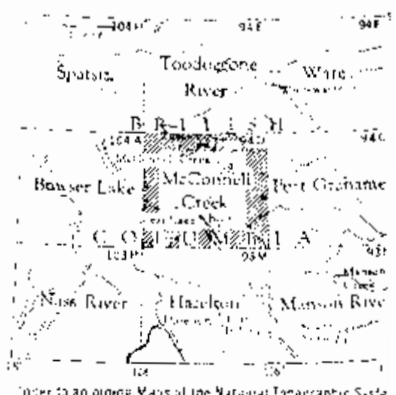
Contour interval 100 Feet  
 All Elevations in Feet above Mean Sea Level.

1 : 250,000  
 Dist. As approximately

**McCONNELL CREEK**  
**94 D**

**REFERENCE**

Horizontal Control Point	Spot Elevation, in feet	124
Contours, Elevation	Forest, unclassified	
Depression	Swamp or Marsh	
Appurtenant		
Glacier or Snowfield		
Stream, brown line	Ferry	W. L. 125
Dam	Lighthouse	Mud
Falls	Sand	
An field on land	Ware	Landing Ground
Power Transmission Line	Anchor	



Map # 1

Under an existing Maps of the National Topographic System

**LOCATION MAP**

**MAR-LEN PROPERTY**

The property drains NE to Carruthers Creek and thence to Omineca River. Latitude 56°16'30" N, Longitude 126°22'35" W (approximate); N.T.S. 94 D/8 W (refer topo map 94 D McConnell Creek). Access from Fort St. James to Johanson Lake, during summer period, is provided by an aircraft and thence by a helicopter to the MAR-LEN property. There is also a gravelled road from Fort St. James to Johanson Lake. (Refer location map # 1)

3. CLAIMS AND OWNERSHIP

The MAR-LEN claim group property consists of 36 contiguous full sized claims on the Sikanni Range in the Omineca Mining Division of B.C. The claims are owned by Pechiney Development Ltd., 701 - 744 West Hastings Street, Vancouver, B.C., Canada V6C 1A5.

The following is the list of claims and their corresponding record numbers (refer claim map # 2 enclosed):

<u>Name of Claim</u>	<u>Record Number</u>	<u>Anniversary Date</u>
MAR 1	131 027	August 9, 1975
MAR 2	131 028	"
MAR 3	131 029	"

<u>Name of Claim</u>	<u>Record Number</u>	<u>Anniversary Date</u>
MAR 4	131 030	August 9, 1975
LEN 1	131 031	"
LEN 2	131 032	"
MAR 5	128 237	September 12, 1975
MAR 6	128 238	"
MAR 7	128 239	"
MAR 8	128 240	"
MAR 9	128 241	"
MAR 10	128 242	"
MAR 15	128 243	"
MAR 16	128 244	"
MAR 17	128 245	"
MAR 18	128 246	"
MAR 21	128 247	"
MAR 22	128 248	"
MAR 23	128 249	"
MAR 24	128 250	"
MAR 25	128 251	"
MAR 26	128 252	"
MAR 27	128 253	"
MAR 28	128 254	"
MAR 29	128 255	"
MAR 30	128 256	"

Supplement

<u>Name of Claim</u>	<u>Record Number</u>	<u>Anniversary Date</u>
LEN 8	130 954	August 29, 1975
LEN 9	130 955	"
LEN 10	130 956	"
LEN 11	130 957	"
LEN 12	130 958	"
LEN 13	130 959	"
MAR 11	132 440	October 21, 1975
MAR 12	132 441	"
MAR 13	132 442	"
MAR 14	132 443	"

4. PREVIOUS WORK

4.1. Geological Mapping Program

The detailed geological mapping of the MAR-LEN claim group property was done by the author during the field season from July 31, 1974 to September 1974. The property is underlain by volcanics-volcanoclastics sequences of rock units of the Takla Group Division (Jurassic age). Fair to good copper showings were



observed on different locations on the map area. Copper minerals are mainly bornite, chalcocite and chalcopyrite (refer assessment report of October 15, 1974 by N. J. Mistry).

4.2. Soil Sampling Program

The grid pattern of 3.75 mile-line was laid out on the property and 143 soil samples were collected at every 100 feet flagged station by the crew member under the supervision of the author (refer assessment report of October 15, 1974 by N. J. Mistry).

4.3. Surface Trenching Program

Several surface trenching of various dimensions were made on the mineralized areas. The chip samples from the trenches were assayed for copper, silver and gold. Copper minerals are mainly chalcopyrite and some bornite (refer assessment report of October 15, 1974 by N. J. Mistry).

5. DIAMOND DRILLING PROGRAM DONE DURING SUMMER 1975

From July 1, 1975 through August 6, 1975 three inclined diamond drill holes of size BQ, totalling 1500 feet, were drilled on the MAR-LEN property in the Sustut area, B.C. The diamond drilling program was given to Wright Drilling Co. of Kamloops, B.C. The following is a description of the diamond drill holes (refer Map # 2 for drill hole location):

5.1. Diamond Drill Hole # 75-1 (-45°)

D.D.H. # 75-1 of BQ size at -45° angle, azimuth 240° was drilled to total depth of 467 feet on Mar # 3 claim. The drill site is situated at 6200 feet above sea level. The drilled core has been logged by the author. Refer drill log enclosed.

5.2. Diamond Drill Hole # 75-2 (-45°)

D.D.H. # 75-2 of size BQ was drilled to 606 feet down the dip (-45°) on the Mar # 3. The elevation of the drill collar is at 6200' with azimuth 240°. Refer the drill log for the lithological description.

5.3. Diamond Drill Hole # 75-3 (-60°)

D.D.H. # 75-3 with azimuth 180° was drilled at -60° on the Mar # 3. The total depth down the dip (-60°) reached 427 feet. Refer the drill log for the lithological description.

The locations of the diamond drill holes D.D.H. # 75-1, 75-2 and 75-3 are plotted on the claim map # 2 and on the plan view of drill holes map # 3.

6. LOCATION OF CORE STORAGE

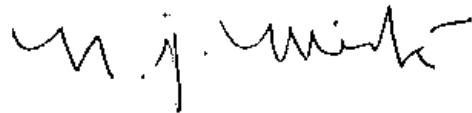
The core of the D.D.H. # 75-1 and D.D.H. # 75-2 are properly stacked and are stored on the MAR-LEN property in the Sustut area, B.C. on claim MAR # 24.

The core of the D.D.H. # 75-3 is stored in the warehouse in Vancouver, B.C.

7. HELICOPTER SUPPORT

The helicopter support was provided by Northern Mountain Helicopters Inc. of Prince George, B.C. The helicopter B-47 was used for transporting the drilling crew and the equipment to the drill site during the drilling program this summer (1975).

Respectfully submitted,



N. J. Mistry, B.Sc., M.S.  
Geologist on MAB-LEN Project  
Pechiney Development Ltd.

The above work has been under the direct supervision  
of the undersigned. I have examined the material in  
this report and agree with the contents.

A handwritten signature in cursive script, appearing to read "W. G. Hainworth".

W. G. Hainworth, P.Eng.

APPENDIX I

ITEMIZED EXPLORATION PROGRAM COSTS - JULY 1, 1975 TO AUGUST 6, 1975

I. DIAMOND DRILLING PROGRAM

Mobilization cost; 75% of \$ 2,400.00	\$ 1,800.00
Cost of setting up equipment at the drill site 228½ man hours @ \$ 12.00/hour	2,742.00
Drilling D.D.H. #75-1; total depth 467' @ \$ 11.35 per foot	5,300.45
Reaming cost for D.D.H # 75-1 12 machine hours @ \$ 30.00 per hour	360.00
Moving from D.D.H #75-1 to D.D.H #75-2 60 man hours @ \$ 12.00 per hour	720.00
Drilling D.D.H #75-2, total depth 606' 0'-500' @ \$ 11.35 per foot 500'-606' @ \$12.00 per foot	4,778.35 1,272.00
Casing: D.D.H # 75-2; 0'-67' @ \$ 11.35 per hour	896.00
Cost for freeing stuck rods 4 Drill hours @ \$ 30.00 per hour	120.00
Acid test	30.00
Moving and setting up on D.D.H # 75-3 36 man hour @ \$ 12.00 per hour	432.00
Drilling D.D.H. #75-3; total depth 427' @ \$ 11.35 per foot	4,846.45
Acid list for D.D.H #75-3	30.00
Cost for moving equipment out 109 man hours @ \$ 12.00 per hour	1,308.00
Demobilization	600.00
Cost for 76 core boxes	245.00
Fuel cost	699.76
	<hr/>
	\$ 26,180.01

2. HELICOPTER B-47 COST

The helicopter support for transport and  
drill service etc..

30 flying hours @ \$ 155.00 per hour \$ 4,650.00

3. SALARIES FOR THE COMPANY'S PERSONNEL

Mistry N.J., Geologist on the project  
37 days @ \$ 40.00/day

\$ 1,480.00

Hopper David, Geological assistant  
37 days @ \$ 23.00/day

851.00

Bowles, William, Core Grab  
37 days @ \$ 19.00/day

703.00

\$ 3,034.00

4. FOOD FOR THE COMPANY'S PERSONNEL

111 man/day @ \$ 12.00

\$ 1,332.00

Total of 1, 2, 3, & 4

\$ 35,196.01

I wish to apply \$ 23,600.00 of this work to the claims listed  
below:

3 years to MAR 1-4 (August), LEN 1 & 2 (August), MAR 5-10 (September)  
MAR 15-18 (September) , MAR 21-30 (September);

4 Years to LEN 8-13 (August), MAR 11-14 (October)

N.J. Mistry

APPENDIX II

PERSONNEL CERTIFICATION

MISTRY, N.J.           Geologist on the MAR-LEN property project;  
Graduated from Stanford University, California,  
U.S.A.  
Mining exploration experiences in B.C. since  
1968.

HOPPER, David         Geological assistant; geology student at University  
of Calgary, Calgary, Alberta. Field experiences:  
4 field seasons in B.C.

BOWLES, William      Core Grabber; graduated from Vancouver high school.

APPENDIX III

CONTRACTORS

WRIGHT DRILLING CO. LTD.  
1510 Windward Place  
Kamloops, B.C.

NORTHERN MOUNTAIN HELICOPTERS INC.  
Box # 368  
Prince George, B.C.



# PECHINEY DEVELOPMENT LTD. DRILLING RECORD

SLOT No. \_\_\_\_\_

PROPERTY: MAR-LEN GROUP  
CLAIM No. MAR # 3

HOLE No. # 75 - 1  
BEARING 240 degree azimuth  
DIP 45°  
LENGTH 142.43 meter  
DIAMETER BQ

DRILLED BY George Adam  
STARTED: July 8, 1975  
TERMINATED: July 13, 1975  
LOGGED BY: Neil J. Mistry

COORDINATES 56°10' N, 126°22' W (app)  
ELEVATION 6200 feet

FOOTAGE		% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE			ASSAY	
FROM	TO				NO.	FROM	TO	Cu	
3.05	4.57			Pinkish fine grained tuff, rubbly and highly broken.					
4.57	6.71			Augite prophyry - light grey, medium grained; 4.57 - 5.00 chloritic alteration					
6.71	23.48			Pyroclastics - purplish; clasts up to 3 mm 15 - 18 cm bands of fine grained tuff in places; carbonate stringers in places					
23.48	30.19			Purplish reddish fine grained tuff; conchoidal fractures, carbonate stringers in places.					
30.19	32.02			Greenish, fine grained tuffaceous argillite; 31.72 - 32.02 malachite, specks of chalcocite on fractures; carbonate stringers.					
32.02	46.21			Purplish-reddish pyroclastic, clasts up to 4 mm, with the bands of tuff in places; epidote on some fractures, brecciated in places; carbonate stringers at 37.15 meter					
46.21	47.88			Greenish-purplish pyroclastic, clasts up to 2 mm					
47.88	65.57			Purplish, reddish pyroclastic, clasts up to 4 mm; with the bands of tuff up to 8 cm wide in places. Carbonate stringers occasionally.					

# PECHINEY DEVELOPMENT LTD. DRILLING RECORD

NET No. 2

PROPERTY \_\_\_\_\_ HOLE No. \_\_\_\_\_ DRILLED BY \_\_\_\_\_  
 CLAIM No. \_\_\_\_\_ BEARING \_\_\_\_\_ STARTED: \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ DIP \_\_\_\_\_ TERMINATED: \_\_\_\_\_  
 \_\_\_\_\_ LENGTH \_\_\_\_\_ LOGGED BY: \_\_\_\_\_  
 \_\_\_\_\_ DIAMETER \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

FOOTAGE		% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE	ASSAY
FROM	TO					
47.88	65.57			59.17 - 61.0 Epidotized section; malachite at 60.69 meter, associated with carbonate stringers.		
65.57	80.21			Purplish, reddish fine grained tuff; 72.59 - 74.42 moderately epidotized 75.94 - 76.09 strongly epidotized 77.32 - 77.77 chalcocite, bornite, chalcopyrite and pyrite associated with carbonate bands; hematite.		
80.21	107.97			Greenish, reddish fine grained tuffaceous argillite with occasional bands of pyroclastic, moderately fractured, altered in places (strong to moderately epidotized): carbonate and/or carbonate/quartz stringers. Copper mineralization in places. 82.05 specks of chalcocite, bornite, pyrite on fractures; fracturing at 30 degree; epidote. 93.33 meter chalcopyrite, pyrite epidote, carbonate bands 95.16 meter specks of chalcocite, bornite, epidote, carbonate bands at app. 30 degree to core axis		

# PECHINEY DEVELOPMENT LTD. DRILLING RECORD

NET No. 3

PROPERTY \_\_\_\_\_ HOLE NO. \_\_\_\_\_ DRILLED BY \_\_\_\_\_  
 CLAIM No. \_\_\_\_\_ BEARING \_\_\_\_\_ STARTED: \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ DIP \_\_\_\_\_ TERMINATED: \_\_\_\_\_  
 \_\_\_\_\_ LENGTH \_\_\_\_\_ LOGGED BY: \_\_\_\_\_  
 \_\_\_\_\_ DIAMETER \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

FOOTAGE		% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE	ASSAY
FROM	TO					
80.21	107.97			98.21 Malachite, carbonate, epidote		
				101.0 - 102.90 gougey material, fault (?)		
				101.0 - 102.0 core loss. No sample		
				103.0 - 104.0 Mineralized: malachite, bornite, chalcopyrite often on fractures associated with epidote.		
				106.44 Epidote/carbonate band at 30 degree to core axis .		
107.97	117.42			Dark to medium grey porphyritic, augite porphyry augite phenos, moderately broken. Disseminated pyrite.		
117.42	142.43			Purplish reddish fine grained tuff, moderate to strongly fractured in places. Occasional bands of pyroclastic material in places. Strong to moderate epidote occasionally.		
				128.10 - 128.71 Greyish, purplish pyroclast		
				131.76 - 132.06 strongly broken, epidotized section. Pyrite		
				132.67 Water loss		
				134.84 - 136.00 Pyroclastic dyke material		
				134.84 Bleached, altered pyrite		



# PECHINEY DEVELOPMENT LTD. DRILLING RECORD

PROPERTY MAR-LEN GROUP  
CLAIM No. MAR # 3

HOLE No. D.D.H. # 75-2  
BEARING 240 degree  
DIP 45 degree  
LENGTH 606 feet (184.8 meters)  
DIAMETER \_\_\_\_\_

DRILLED BY George Adam  
STARTED: July 15, 1975  
TERMINATED: July 21, 1975  
LOGGED BY: Neil J. Mistry

COORDINATES 56°10' N; 126°22' W (app)  
ELEVATION 6200 feet

FOOTAGE		% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE	ASSAY
FROM	TO					
0	3.66			Overburden		
3.66	4.57			Greenish, greyish, porphyritic; augite porphyry Augite phenos. Dyke ?		
4.57	6.71			Greenish, reddish pyroclast; clasts up to 3 mm Carbonate stringers, chloritic alteration at 6.40 - 6.71		
6.71	28.97			Purplish, reddish, fine grained tuff; with pyroclastic bands 15-20 cm in places 16.47 - 18.60 Carbonate stringers 23.48 mud seam		
28.97	32.33			Greenish, purplish pyroclast, clasts up to 2 mm bands of reddish tuff in places. Malachite, epidote at 28.67		
32.33	43.31			Purplish, reddish pyroclast; clasts up to 2-3 mm with bands of reddish fine grained tuff. Mode- rately fractured. Carbonate stringers. Epidote. Shear at 40.56, 70 degree to core axis 42.09 - 42.39 Epidote stringers 43.31 - 44.51 Epidotized, pyrite, chalcopyrite specks		
43.31	46.36			Purplish, reddish fine grained tuff; strongly broken and shattered, brecciated;		

# PECHINEY DEVELOPMENT LTD. DRILLING RECORD

NET No. 2

PROPERTY \_\_\_\_\_ HOLE No. \_\_\_\_\_  
 CLAIM No. \_\_\_\_\_ BEARING \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ DIP \_\_\_\_\_  
 \_\_\_\_\_ LENGTH \_\_\_\_\_  
 \_\_\_\_\_ DIAMETER \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
 STARTED: \_\_\_\_\_  
 TERMINATED: \_\_\_\_\_  
 LOGGED BY: \_\_\_\_\_

FOOTAGE		% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE	ASSAY
FROM	TO					
				breccia at 45.45		
46.36	48.19			Greenish, reddish pyroclast; clasts up to 2-3 mm Epidote/carbonate stringers, moderately broken		
48.19	52.76			Purplish, reddish pyroclast; clasts up to 3 mm. Bands of fine grained tuff in places, Carbonate stringers. Strongly fractured at 48.49 - 49.0, fracturing at 30-40 degree at core axis		
52.76	54.90			Greenish, fine grained tuffaceous argillite. Epidote weak.		
54.90	63.13			53.37 - 53.68 weak spotty chalcopyrite, bornite Purplish, reddish pyroclast; clasts up to 3 mm with bands of fine grained clast in places. Weakly epidotized.		
				55.20 - 55.81 Strong, random fracturing		
				58.25 - 59.47 Brecciated, carbonate bands, fragments.		
63.13	68.32			Purplish, reddish fine grained tuff; fractured.		
				64.05 - 65.57 Fracturing, random orientation		
68.32	77.16			Purplish, reddish pyroclast; clasts up to 2-3 mm Bands of fine grained, reddish tuff in places.		
				68.32 - 69.84 Epidote/chlorite		
				69.84 - 70.76 Tuff bands		

# PECHINEY DEVELOPMENT LTD. DRILLING RECORD

S No. 3

PROPERTY \_\_\_\_\_ HOLE No. \_\_\_\_\_ DRILLED BY \_\_\_\_\_  
 CLAIM No. \_\_\_\_\_ BEARING \_\_\_\_\_ STARTED: \_\_\_\_\_  
 \_\_\_\_\_ DIP \_\_\_\_\_ TERMINATED: \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ LENGTH \_\_\_\_\_ LOGGED BY: \_\_\_\_\_  
 \_\_\_\_\_ DIAMETER \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

FOOTAGE		% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE			ASSAY	
FROM	TO				NO.	FROM	TO	Cu	
77.16	83.57			Greenish, fine grained tuffaceous argillite; with bands of fine grained reddish tuff. Epidote, carbonate stringers. Mineralized occasionally.					
77.16	83.57			77.77 - 79.91 Specks of bornite, chalcopyrite, pyrite, malachite associated with epidote/carbonate					
				79.30 - 82.35 The tuff bands					
83.57	102.48			Purplish, reddish pyroclast; clasts up to 3-4 mm; with bands of reddish tuff, epidotized in places. Fractured and brecciated.					
				83.57 - 84.18 Epidotized pyroclast					
				86.74 - 91.80 Reddish tuff bands					
				94.24 - 95.46 Epidotized, pyrite, breccia at 94.55					
				96.99 pyrite, specks of chalcopyrite, epidote					
				100.34 - 102.17 Badly broken core					
102.48	109.8			Greenish, fine grained tuffaceous argillite. Epidotized in places, tuff bands occasionally. Spotty and scattered mineralization.					
				103.09 - 106.75 Bornite, chalcocite, chalcopyrite and malachite					
				106.75 - 109.49 Purplish, greenish, pyrite					

# PECHINEY DEVELOPMENT LTD. DRILLING RECORD

NET No. 4

PROPERTY \_\_\_\_\_ HOLE No. \_\_\_\_\_  
 CLAIM No. \_\_\_\_\_ BEARING \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ DIP \_\_\_\_\_  
 \_\_\_\_\_ LENGTH \_\_\_\_\_  
 \_\_\_\_\_ DIAMETER \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
 STARTED: \_\_\_\_\_  
 TERMINATED: \_\_\_\_\_  
 LOGGED BY: \_\_\_\_\_

FOOTAGE		% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE	ASSAY
FROM	TO					
109.80	116.51			Medium grey, greenish, porphyritic augite porphyry, mainly augite phenos; occasional conspicuous feldspar phenos. Chlorite weak, spotty epidote blebs.		
				109.80 Sheared and broken core		
				114.98 Epidote/carbonate bands at 30 degree to core axis.		
116.51	124.13			Purplish, reddish fine grained tuff with bands of pyroclastic material. Chloritic		
				117.12 - 117.73 Chloritic		
				118.95 - 119.56 Pyroclastic material		
124.13	128.71			Greenish pyroclast; clasts up to 2 mm		
				Strongly fractured, fracturing at 40-50 degree to core axis.		
128.71	148.71			Purplish, reddish pyroclast, clasts up to 3 mm; with the tuff bands. Epidote.		
				131.15 - 131.45 Epidote band, malachite		
				133.50 - 130.90 Core loss		
				146.70 Water loss		
				144.57 - 144.87 Chlorite, pyrite		
				Breccia at 148.53		



# PECHINEY DEVELOPMENT LTD. DRILLING RECORD

NET No. 5

PROPERTY \_\_\_\_\_ HOLE No. \_\_\_\_\_ DRILLED BY \_\_\_\_\_  
 CLAIM No. \_\_\_\_\_ BEARING \_\_\_\_\_ STARTED: \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ DIP \_\_\_\_\_ TERMINATED: \_\_\_\_\_  
 \_\_\_\_\_ LENGTH \_\_\_\_\_ LOGGED BY: \_\_\_\_\_  
 \_\_\_\_\_ DIAMETER \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

FOOTAGE		% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE	ASSAY
FROM	TO					
148.71	163.17			Purplish, reddish fine grained tuff; pyroclastic bands/blebs		
				156.46 - 157.07 Chloritic, siliceous		
				159.82 - 160.43 Pyroclastic bands/blebs		
163.17	166.83			Greenish, reddish pyroclastic, clasts up to 2 mm. Moderately fractured. Epidote		
				162.87 Epidote, pyrite		
				165.31 - 165.61 Siliceous, pyrite		
166.83	174.46			Purplish, reddish fine grained tuff.		
174.46	184.83			Greenish, greyish porphyritic, augite porphyry. Augite phenos, minor feldspar phenos. Very strongly broken and shattered.		
				174.76 - 175.37 Siliceous, pyrite		
				180.50 - 181.20 Strongly broken, rubbly		
				182.0 - 184.0 Core loss		
				END OF HOLE		
				TOTAL DEPTH OF D.D.H. # 75-2: 184.83 meters		
				CORE RECOVERY: 90%		

# PECHINEY DEVELOPMENT LTD. DRILLING RECORD

NET No. 1

PROPERTY MAR-LEN GROUP HOLE No. D.D.H. # 75-3  
 CLAIM No. MAR # 3 BEARING 180 degree  
 DIP 60 degree  
 COORDINATES 56°10'N, 120°22' W (app) LENGTH 130.23 m or 427 feet  
 DIAMETER BQ  
 ELEVATION 189 meters or 6200 feet

DRILLED BY George Adam  
 STARTED: July 20, 1975  
 TERMINATED: July 24, 1975  
 LOGGED BY: N.J. Mistry

FOOTAGE		% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS
FROM	TO			
0	3.6			No core
3.66	23.79			Greenish-grey, fine grained tuffaceous argillite Strongly broken, fractured; brecciated in places, mineralized occasionally. 4.88 - 5.49 Malachite, bornite specks 5.79 - 8.54 shattered, broken core, at 8.54 brecciated. 10.67 - 11.28 carbonate stringers 13.72 - 15.55 siliceous, pyrite 17.99 - 23.79 chloritic, dyke? at 22.26 gougey core
23.79	31.41			Purplish, reddish fine grained tuff; with bands of pyroclast in places. Moderate to strongly broken at 26.23 gougey material, chloritic
31.41	36.6			Greenish greyish tuffaceous argillite, moderate- ly fractured, epidotized and occasionally mineralized. 31.41 - 32.02 Chalcocite on fractures, the fracturing at 70 degree to core axis 34.77 - 36.29 Chalcocite on fracture, specks of malachite

# PECHINEY DEVELOPMENT LTD. DRILLING RECORD

PROPERTY \_\_\_\_\_ HOLE No. \_\_\_\_\_ DRILLED BY \_\_\_\_\_  
 CLAIM No. \_\_\_\_\_ BEARING \_\_\_\_\_ STARTED: \_\_\_\_\_  
 \_\_\_\_\_ DIP \_\_\_\_\_ TERMINATED: \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ LENGTH \_\_\_\_\_ LOGGED BY: \_\_\_\_\_  
 \_\_\_\_\_ DIAMETER \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

FOOTAGE		% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE	ASSAY
FROM	TO					
36.60	46.36			Purplish, reddish pyroclast; clasts up to 2-3 mm Bands of the tuff; epidote band/carbonate 45.44 malachite, specks of chalcopryrite		
46.36	67.10			Grey-greenish porphyritic; augite porphyry, epidotized in places, occasional bands of pyro- clastic material. Mineralized occasionally. 47.27 - 48.19 epidotized, specks of chalcocite 49.71 - 50.02 chalcocite, malachite, carbonate 60.69 - 61.91 chalcocite, chalcopryrite, pyrite 65.57 - 66.03 carbonate/quartz vein/chalcocite malachite along fractures		
67.10	74.42			Purplish, reddish fine grained tuff; with bands * of pyroclastic material. 70.76 - 71.67 epidote, brecciated at 71.06		
74.42	81.74			Greenish purplish pyroclast, clasts up to 2 mm; with bands of purplish tuff; occasional bands and blebs of augite porphyry 81.13 - 81.74 augite porphyry		
81.74	84.79			Purplish, reddish pyroclast, clasts up to 3 mm		

# PECHINEY DEVELOPMENT LTD. DRILLING RECORD

PROPERTY \_\_\_\_\_ HOLE No. \_\_\_\_\_ DRILLED BY \_\_\_\_\_  
 CLAIM No. \_\_\_\_\_ BEARING \_\_\_\_\_ STARTED: \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ DIP \_\_\_\_\_ TERMINATED: \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ LENGTH \_\_\_\_\_ LOGGED BY: \_\_\_\_\_  
 DIAMETER \_\_\_\_\_

FOOTAGE		% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE	ASSAY
FROM	TO					
84.79	95.46			Greenish reddish pyroclast; clasts up to 2 mm		
95.46	101.26			Greenish greyish tuffaceous argillite, epidotized with carbonate stringers.		
				100.04 - 101.26 epidote, chalcocite, chalcopyrite		
101.26	105.53			Medium grey greenish porphyritic, augite porphyry dyke?		
105.53	112.85			Greenish reddish pyroclast, clasts up to 2 mm with bands of the tuff; epidote; brecciated at 108.66		
112.85	117.42			Greenish greyish tuffaceous argillite; epidote, carbonate stringers at 113.46 chloritic, epidotized bands; 115.29 - 115.90 epidote, pyrite		
117.42	130.23			Purplish reddish fine grained tuff; with bands of pyroclastic material, moderately fractured. 119.56 - 119.86 pyroclastic 129.32 - 129.93 pyroclastic		
				END OF D.D.H. # 75-3		
				TOTAL DEPTH: 130.23 meters or 427 feet		
				CORE RECOVERY: 95%		

THIS AGREEMENT MADE THE 23 DAY OF APRIL 1975.

BETWEEN: PECHINEY DEVELOPMENT LIMITED  
a body corporate duly incorporated under the laws of  
the Province of British Columbia, and having its head  
office at Suite 701 - 744 West Hastings Street,  
Vancouver 1, B.C.

(hereinafter called the Company)

AND: WRIGHT DRILLING LTD., a body corporate duly incorporated  
under the laws of the Province of British Columbia and  
having its Registered Office at Suite 305 - 186 Victoria  
Street, Kamloops, British Columbia

(hereinafter called the Contractor)

WHEREAS:

A. The Company has requested the Contractor to complete  
a minimum fifteen hundred feet of drilling and related  
services as hereinafter set forth on the property of the  
Company in the MAR GROUP, SISTUT AREA, B.C.

B. The Contractor has agreed to do the said Diamond drilling  
and to perform the related services requested upon the terms,  
conditions and provisos hereinafter contained:

NOW THEREFORE THIS Agreement witnesseth that in consideration of the  
payment of the amounts stipulated herein and mutual promises and  
covenants herein contained, it is understood and agreed by and between  
the parties as follows:

1. SCHEDULE OF RATES - CORING

The Company hereby employs the Contractor to drill a series of  
bore holes on the said property using a BQ core barrel producing  
a core of approximately 1-15/16 inches. The Company agrees to  
pay the Contractor on a footage basis for all drilling according  
to the following schedule of rates:

<u>Coring</u>	<u>From</u>	<u>To</u>	<u>Price/foot</u>
	0'	500'	\$11.35
	500'	750'	\$12.00
<u>Overburden</u>			
	0'	25'	\$11.35
	25'	50'	\$12.00
	50 plus		field cost

2. TRANSPORTATION AND MOVES

A. It is agreed that the moving of drill and camp equipment,  
supplies and personnel to the transport discharge point and return  
from the transport loading point, shall be the Company's account  
at a lump sum of twenty-four hundred dollars with seventy-five  
percent (75%) payable upon completion of the move in and the  
remaining twenty-five (25%) payable upon completion of the minimum  
footage.

B. In the event access to the drilling area cannot be realized with  
the Contractor's truck, moving from the truck discharge point to  
the drilling area will be for the Company's account at the specified  
labour rate.

C. The Contractor agrees to erect a suitable camp for the purpose of providing room and board for personnel associated with the drilling operation. Erection and dismantling of the camp will be for the Company's account at the specified labour rate. Company to supply sleeping quarters for these personnel.

D. It is agreed that moves between drill sites shall be at the agreed labour rate. Moving time shall be from the time of completion of pulling to set - up time at the next drill site. No machine rental charge will be made unless the rig is used to move itself.

3. WATER SUPPLY

If the source of water supply is at a greater distance than two thousand (2000) feet from the drilling site, or over three hundred (300) feet vertical lift, the Contractor will be paid the extra cost of supplying water to the drill site in addition to the other contract charges. Additional cost would be rental and operating cost of second supply pump if required and any additional hose required.

4. MUD AND ADDITIVES:

If ever required to help penetrate the overburden and or aid in core recovery, would be supplied at cost on the job site plus ten percent. Time spent mixing mud and stabilizing the hole would be charged on a field cost basis.

5. REAMING CASING AND CEMENTING:

If ever necessary to help prevent cave-ins, would be performed on a field cost basis. Casing would be charged at the rate of \$0.60 per reamed foot.

6. DIRECTIONAL AND CONTROLLED DRILLING

It is mutually agreed that directional drilling to change the direction of a bore hole and controlled drilling to maintain the angle of a bore hole shall not be part of this agreement.

7. SECURITY

The Contractor will not give out any information regarding drill results or access to any person other than to the Company's representative.

8. BOARD AND LODGING

The Contractor agrees to provide board and lodging for its own men at its own expense, and to provide meals to a limited number of the Company's representatives at the rate of \$10.00 per ~~man~~ per day.

The Company agrees on fly-in jobs that all transportation and expediting costs be charged to the Company's account.

9. CORE BOXES

It is mutually agreed, that if requested, core boxes would be supplied on the job site at cost, plus ten percent (10%).

10 STANDBY

It is agreed that standby, dip testing, delay time or other time which the Contractor's crews are performing services for the Company, not otherwise covered herein, shall be performed at a field cost basis.

11 HELICOPTER PROJECTS

The Company agrees that on helicopter jobs they will supply all fuels and transportation cost from truck discharge point to drill sites at no cost to the Contractor.

12. DRILLING SITES

The Contractor agrees to case and drill on the sites and at angles and azimuths selected by the Company representative and to follow the instructions of the said representative relating to place and time of drilling.

13. CAVES

In the event that cavities or loose and caving materials are encountered of a nature as to prevent the successful completion of any hole, the Contractor does not, under such conditions, guarantee to drill to a predetermined depth and, in the event that it becomes necessary to abandon the hole, the Company agrees to pay for such uncompleted holes at the rate herein specified for all footage completed.

In the event it becomes necessary to resort to cementing, reaming of casing or mud circulation in bedrock, the Company agrees to reimburse the Contractor at field cost.

Wherever pipe or casing is lost or left in a hole on the instruction of the Company's engineer, the Company agrees to pay the Contractor for such pipe or casing at cost, f.o.b. drill site. Caved or broken ground should be encountered, then the drilling of the caved or broken ground would be on a field cost.

14. TRACTOR

If required, the Contractor will supply at the Company's cost a tractor for the construction and maintenance of access roads, drill site preparation and cleanup and the moving of the diamond drill.

15. FIELD COST

It is agreed that the hourly rate shall be interpreted here and hereinafter to be thirty dollars per hour, per drill outfit. It is also agreed that the Contractor shall include in the hourly rate the cost of supplying a regular two man drill crew, supervision and maintenance as required, drilling machinery and associated equipment, fuels, and board and lodging for the drill crew.

In the event labour over and above the regular two man crew and supervision are required, the Contractor agrees to supply such additional labour at the rate of twelve dollars per man per hour.

It is further agreed and understood that when the Contractor is working at the field cost rate, the cost of pipe or casing lost or left in the hole, diamond articles and materials and supplies consumed in the work shall be for the Company's account at cost, plus 15%

16. PAYMENT

The Company agrees to pay the Contractor, in Canadian funds the above prices. Payment to be made within 15 days of the date of the account rendered. Invoices shall be submitted twice monthly.

17. COMPENSATION AND INSURANCE

The Contractor agrees that the men employed by him in the performance of this Contract shall be fully covered under Worker's Compensation laws according to the Province of British Columbia and will keep such men covered and will pay the assessment required and will protect the Company from any action arising therefrom, excluding however, claims arising out of any negligent act or omission of the Company, its servants or agents.

The Contractor shall, at his own cost, maintain Liability and Property damage insurance in the amount of five hundred thousand (500,000.00) dollars.

The Contractor carries an all perils insurance policy limited to \$20,000.00 per drilling outfit at his own cost. The Company agrees that additional insurance cost incurred for flying or barging of equipment will be to their account.

18. RIGHT OF ENTRY AND REMOVAL OF EQUIPMENT.

Company will provide at its own expense, all rights of way, both ingress and egress, and the peaceable possession of all real property that may be required in connection with said work including real property upon which all necessary temporary buildings and other facilities may be erected, or placed, and will save the Contractor harmless from any and all damages, claims, demands, costs or charges of whatsoever kind or character incident to the occupation and use of said real property.

Upon completion of such work by the Contractor, the Contractor shall have the right to remove, within a reasonable length of time, all temporary buildings and other fixtures, trade fixtures, machinery, equipment, appliances and facilities furnished by and placed upon such real property by Contractor.

19. LIENS

The Contractor shall be responsible for and will pay promptly all costs and charges, incurred by itself for labour, machinery, tools and supplies used in completing the work hereunder so that no lien or other such charge relative to the Contractor, may be registered against the Company or the property.

20. FORCE MAJEURE

Neither party to the agreement shall be liable for any loss or damage caused by reason of strikes, acts of God, action of the elements, or any other causes beyond its control.

21. LAWS APPLICABLE

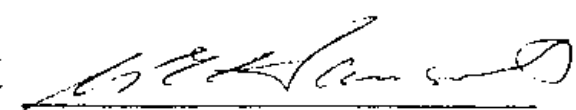
This agreement shall be interpreted and any dispute arising hereunder shall be determined in accordance with the laws of the Province of British Columbia.

22. ASSIGNMENTS

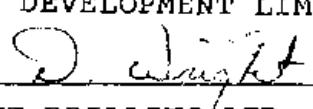
This agreement shall be binding upon and shall inure to the benefit of the parties hereto, their respective successors and assigns, provided, however, that the same shall not be assignable by either party until the consent in writing of the other shall have first been had and obtained thereto.

IN WITNESS THEREOF, this agreement has been executed by the parties hereto the day and the year first herein written.

By

  
PECHINEY DEVELOPMENT LIMITED

By

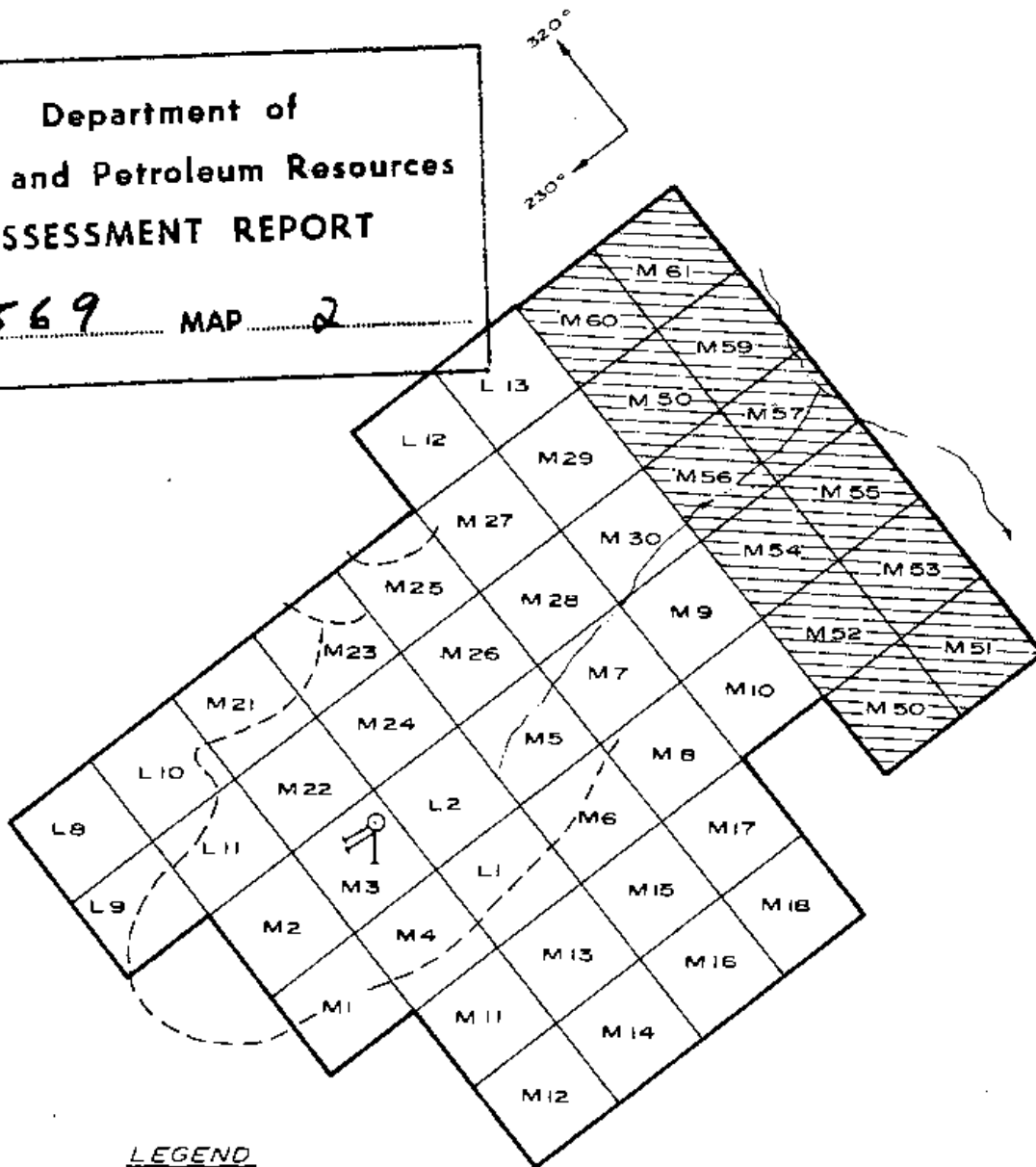
  
WRIGHT DRILLING LTD.



To accompany assessment report by N. J. Mistry, on the MAR-LEN Claim Group, Omineca Mining Division. dated August 25, 1975

Department of  
Mines and Petroleum Resources  
**ASSESSMENT REPORT**

NO. 5569 MAP 2



LEGEND

- M MAR CLAIM
- L LEN CLAIM
- CIRQUE RIDGE
- CREEK
- LOCATION OF DIAMOND DRILL HOLES Nos. 75-1, 75-2, 75-3.
- MAR-LEN GROUP OF CLAIMS
- MAR 'B' GROUP OF CLAIMS

This map is keyed to  
Photo No. A. 12262-115  
Gov't. of Canada  
Dept. of Energy, Mines and Resources.

5569  
MAP 2

MAP 2

PECHINEY DEVELOPMENT LTD., VAN., B.C.

CLAIM MAP

MAR-LEN CLAIMS GROUP

SUSTUT AREA, B.C.

LATITUDE: 56° 16' 30" N.  
LONGITUDE: 126° 22' 30" W.

SCALE  
MILE 1/2 0 1/2 MILE

AUGUST, 1975

*N. J. Mistry*