



42A10SW0079 2.4684 GERMAN

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note:
see file 2.4478
for map showing
location of drill
holes.

Report On
Overburden Drill Program
Aquarius Project
Macklem, German & Cody Townships, Ontario
March 23, 1982

RECEIVED

APR - 2 1982

MINING LANDS SECTION

By
Asarco Exploration Company of Canada Limited
On Behalf Of
Lac D'Amiante du Quebec, Ltee.



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- Drill Hole Location Maps (2)
- Drill Logs for Drill Holes AQ-82-1 to AQ-82-29, inclusive
- Cost Breakdown by Asarco
- Invoice Supported Expenditures:
 - Bradley Brothers Limited - Holes AQ-82-1 to AQ-82-29 inclusive
- List of Claims Submitted for Assessment
- Overburden Drill Sections (Plates I & II)

Report On Overburden Drill Program
Aquarius Project - Macklem, German and Cody Townships

Summary

Thirty reverse circulation overburden holes totalling 3,322 feet were drilled by Bradley Brothers Limited on the claims of Lac D'Amiante du Quebec, Ltee. during February, 1982. Four profile lines were drilled in order to prospect for evidence of gold and/or base metal mineralization within basal tills and the upper few feet of bedrock in previously untested areas.

Location and Access

Many of the claims are easily accessible along a gravel road which runs south from Highway 101 at a point 0.6 miles east of the junction of Highway 101 with Highway 67. The easternmost claims are readily accessible from Highway 101 by means of the Gibson Lake gravel road. The westernmost claims (lake claims) are accessible from Highway 101 by means of the gravel road that extends to the Night Hawk Retreat tourist camp and trailer park. Holes AQ-82-1 to AQ-82-5, inclusive are located in the northeast corner of the claim block on either side of the Gibson Lake road. Holes AQ-82-6 to AQ-82-29, inclusive are located on the Northeast Bay of Night Hawk Lake.

Property

The property consists of 131 contiguous claims, numbered as follows:

P512781 to P512832 inclusive
P528597 & P528598
P528716 to P528723 inclusive
P545387 to P545398 inclusive
P546727
P546915
P565355 to P565383 inclusive
P565407 to P565432 inclusive

Property Continued...

One hundred and seventeen (117) claims lie in the northern and northwestern portions of Macklem Township. Eight claims lie in German Township, immediately north of the German-Macklem Township line and six claims lie in the northeast corner of Cody Township.

Previous Work

Exploration work has been conducted in the general area during several periods of activity dating back to the 1920's and 1930's.

Paradee Amalgamated Mines Limited explored the area during the early 1940's and eventually sank a shaft and did some underground exploration work on the old Aquarius gold prospect which lies approximately one mile south of the German-Macklem boundary and approximately 0.65 miles east of Nighthawk Lake.

In 1959 and 1960 Hollinger Consolidated Gold Mines Limited carried out some geophysical surveys and drilled one hole in the SW $\frac{1}{4}$ of the S $\frac{1}{2}$ of Lot 1, German Township.

In 1969 and 1970 the Canadian Nickel Company carried out geophysical surveys over the N.E. Bay of Nighthawk Lake and over twenty-nine claims to the east of the lake. They drilled four holes to test E.M. conductors.

Asarco staked claims in the area during 1978 and did a considerable amount of geophysical work and overburden drilling during 1979. Anomalous gold values were encountered in overburden and/or bedrock in a few of the drill holes. A diamond drill commenced work on the property during 1980 and immediately encountered significant intersections of gold mineralization in the bedrock. Additional claims were staked and several more diamond drill holes and overburden holes were drilled during the spring and summer of 1980.

Ownership of the claims was transferred from Asarco Exploration Company of Canada Limited to Lac D'Amiante du Quebec Ltee. on July 23, 1981.

An overburden drilling program was completed over two portions of the claim area during 1981.

Previous Work Continued....

An exploration shaft is currently being excavated approximately 0.6 miles south of the German-Macklem boundary and 1.3 miles east of Night Hawk Lake.

February, 1982 Overburden Drill Program

Four fences of holes were drilled in order to search for and evaluate anomaly trains in the overburden which parallel the direction of ice movement. Glacial striae on outcrops in the general area indicate glacial advance along lines trending 150° to 170°.

The overburden drill provided by Bradley Brothers Limited consists of a Longyear 1-38 drill modified for dual-tube reverse circulation drilling. The drill is mounted on skids or on an eighteen ton diesel FN160 Flextrack Nodwell, and has a hydraulic derrick capable of handling twenty feet of rods.

In each hole, continuous sample return was logged and monitored through the complete Pleistocene section, and bedrock chips were collected for several feet into bedrock. Whenever till was identified or suspected, samples of the minus 10 mesh material were collected. These samples would average about fifteen pounds each. A large amount of the plus 10 mesh pebbles and boulder chips was included with each sample to assist in studies of till composition.

Pleistocene Geology

Throughout most of the Aquarius area one or more tills occur at the base of the Pleistocene section. These tills are intercalated with discontinuous bands and lenses of sand and gravel. Total thickness of the till portion of the section ranges from 0 to greater than 140 feet. This is overlain by a poorly defined sand and gravel horizon which ranges in thickness from 0 to 20 feet. This horizon probably resulted from the washing and reworking of the underlying till. The sand and gravel horizon is, in turn, overlain by varved clays and slightly silty clays which were deposited from Glacial Lake Barlow - Ojibway.

Pleistocene Geology Continued....

The normal sequence of tills overlain by lake clays is disrupted by the Frederick House esker in the eastern portion of the Aquarius claim block. None of the overburden holes penetrated the center of the esker but it would appear that the sand and gravel deposits at the core of this feature must exceed 300 feet in thickness. The Frederick House esker trends at about 155°. It is marked by low sand hills, and by chains of kettle lakes with no organized drainages in, or out.

The overburden holes drilled on the Northeast Bay of Night Hawk Lake encountered a well defined sequence of clays and silty clays near surface. These glacial lake sediments are underlain by poorly sorted gravels (reworked till?) and, occasionally by good basal tills. Moderately to highly, anomalous gold values were obtained from heavy mineral concentrates taken from the basal gravels and tills from some of the holes.

The overburden holes drilled in the northeast corner of the claim block encountered lake clays interbedded with silt and sand (re-worked esker material) near surface. No consistent pattern was evident at depth. From west to east:

Hole 1 encountered a good basal till.

Hole 2 encountered four feet of basal gravel.

Hole 3 encountered two tills separated by silt and sand and underlain by a basal gravel.

Holes 4 and 5 encountered two tills, an upper till and a basal till, separated by a unit of clay and a unit of sand and gravel.

Anomalous gold values were recorded for heavy mineral concentrates taken from some of the basal tills and gravels.

Conclusions

Good basal tills were encountered in only 12 out of the 30 overburden holes drilled during February, 1982.

Several holes yielded samples of basal till or basal gravel which proved to carry anomalous gold values in the heavy mineral fraction.

Respectfully submitted,

Jeff Sample

Jeff Sample

BRADLEY BROS. LIMITED

February 15, 1982

CONTRACT DIAMOND DRILLING

Asarco Exploration Co. of Canada Ltd.
12th Floor - 350 Bay Street
Toronto, Ontario
M5H 2S6

HOLE NO.	TO COVER DIAMOND DRILLING FOR				
	FROM	TO	FOOTAGE COMPLETED		
	<u>Maclem Township</u>				
	Mobilization - 32 miles			@ \$5.00	\$160 00
AQ-82-1	0'	200'	200'		
2	0'	160'	160'		
3	0'	178'	178'		
4	0'	218'	218'		
5	0'	220'	220'		
	Equipment rental - 68 hours			@ 218.00	14,824 00
	Down the hole consumables:				
	3 Tricone bits	@ \$725.00	- \$2175.00		
	1 Adaptor	570.00	570.00		
	10 bags mud	@ 14.50	- 145.00		
			<u>\$2890.00</u>		
		Plus 15%	<u>433.50</u>		3,323 50
	Cost to make ice on lake:				
	60 man hours	@	22.00		1,320 00
	60 muskey hours	@	35.00		2,100 00
	16 hours trucking	@	20.00		320 00
					<u>\$22,047 50</u>

*Paid in full
March 9/82
\$22,047.50*
BRADLEY BROS. LIMITED

BRADLEY BROS. LIMITED

February 28, 1982

CONTRACT DIAMOND DRILLING

Asarco Exploration Co. of Canada Limited
12th Floor - 350 Bay Street,
Toronto, Ontario M5H 2S5

HOLE NO.	TO COVER DIAMOND DRILLING FOR Feb. 16 to 26, 1982				
	FROM	TO	FOOTAGE COMPLETED		
<u>Nighthawk Lake</u>					
Move equipment to shop and the Nighthawk Lake - 50 miles @ \$5.00 \$250 00					
AQ-82-6	0'	110'	110'		
7	0'	130'	130'		
8	0'	110'	110'		
9	0'	106'	106'		
10	0'	102'	102'		
11	0'	119'	119'		
12	0'	116'	116'		
13	0'	120'	120'		
14	0'	70'	70'		
15	0'	104'	104'		
16	0'	119'	119'		
17	0'	138'	138'		
18	0'	49'	49'		
19	0'	64'	64'		
20	0'	25'	25'		
21	0'	96'	96'		
22	0'	119'	119'		
23	0'	105'	105'		
24	0'	84'	84'		
25	0'	100'	100'		
26	0'	84'	84'		
27	0'	116'	116'		
28	0'	77'	77'		
29	0'	50'	50'		
Equipment rental - 88 hours @ 218.00 19,184 00					
Breakdown - 4 hours @ 178.00 712 00					
<u>FORWARD</u>					

BRADLEY BROS. LIMITED

February 28, 1982

CONTRACT DIAMOND DRILLING

Asarco Exploration Co. of Canada Limited
12th Floor - 350 Bay Street,
Toronto, Ontario M5H 2S6

HOLE NO.

TO COVER DIAMOND DRILLING FOR **Feb. 16 to 26, 1982**

FROM	TO	FOOTAGE COMPLETED
Down the hole consumables -		
5 Tricone bits @	\$725.00	- \$3625.00
3 Adapters	570.00	- 1710.00
2 rods	546.00	- <u>1092.00</u>
		\$6427.00
	Plus 15%	<u>964.05</u>

\$7,391 05

Cost to make ice on lake - Feb. 16		
8 man hours @		22.00
8 muskeg hours @		35.00

176 00
280 00

\$27,993 05

PAID

APPROVED 

DATE *March 25/82*

CHECK No. 931

TORONTO OFFICE

ASARCO EXPLORATION CO

MATHESON

GERMAN TWP

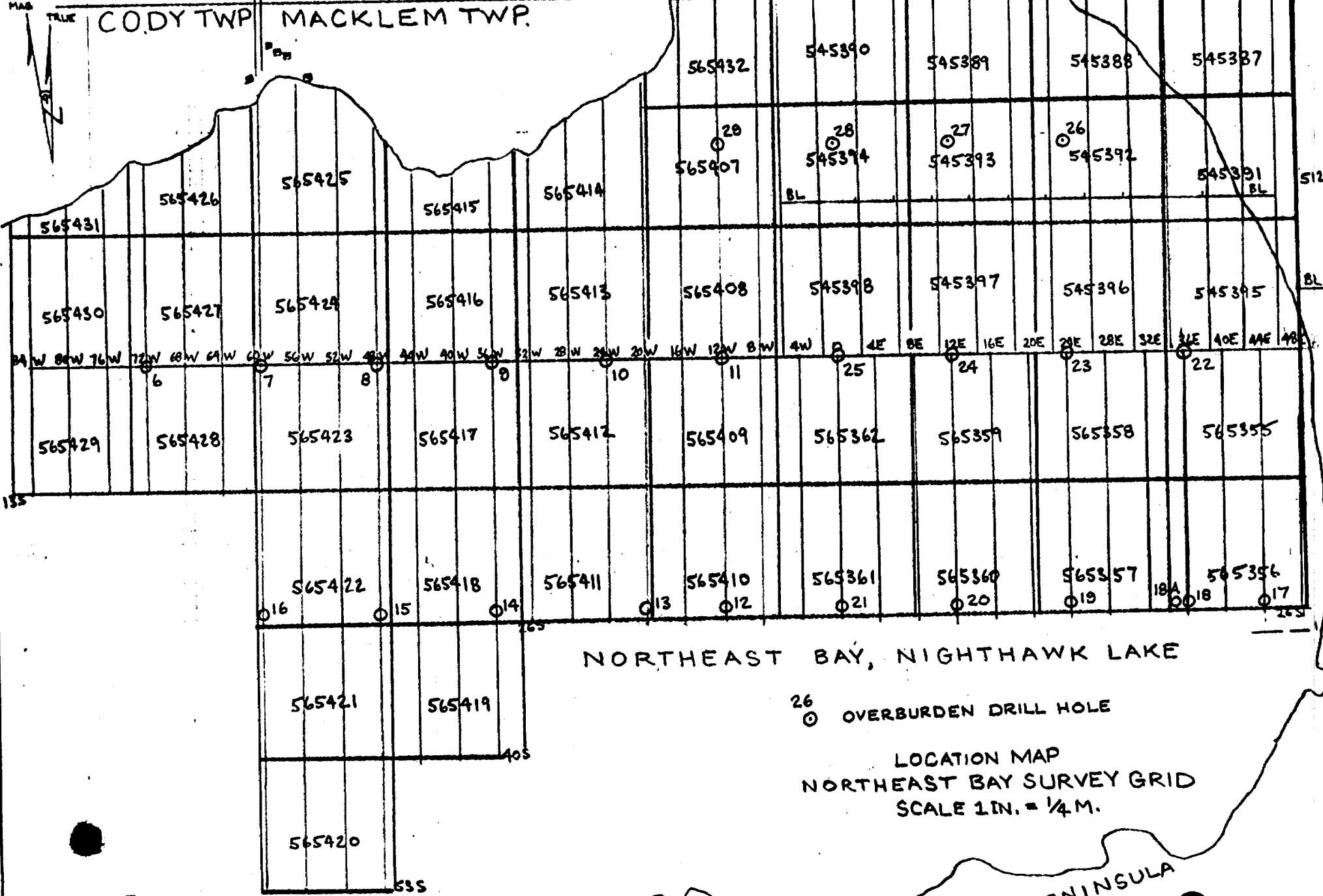
CODY TWP

MACKLEM TWP.



ROAD

12W 8W 48W 44W 40W 36W 32W 28W 24W 20W 16W 12W 8W 4W 0 3430E



NORTHEAST BAY, NIGHTHAWK LAKE

26
○ OVERBURDEN DRILL HOLE

LOCATION MAP
NORTHEAST BAY SURVEY GRID
SCALE 1 IN. = 1/4 M.

EAST PENINSULA

LOCATION MAP
1 in. = 800 ft.

(P)(S.R.O.)

HIGHWAY 101

G. K. STRINGER LTD.

GERMAN TWP.

MACKLEM TWP.

RANWORTH EXPLORATION

ASARCO EXPLORATION CO

L128E L132E L136E L140E L144E L148E L152E

L156E L160E L164E L168E L172E L176E L180E L184E L188E L192E L196E L200E L204E

512783

512786

512787

512793

512794

512795

512788

512796

512790

512797

AQ-82-1

AQ-82-2

AQ-82-3

AQ-82-4

AQ-82-5

LAKE

LAKE

LEGARE LAKE

POND

POND

POND

W.P.

W.P.

W.P.

W.P.

81-8

81-9

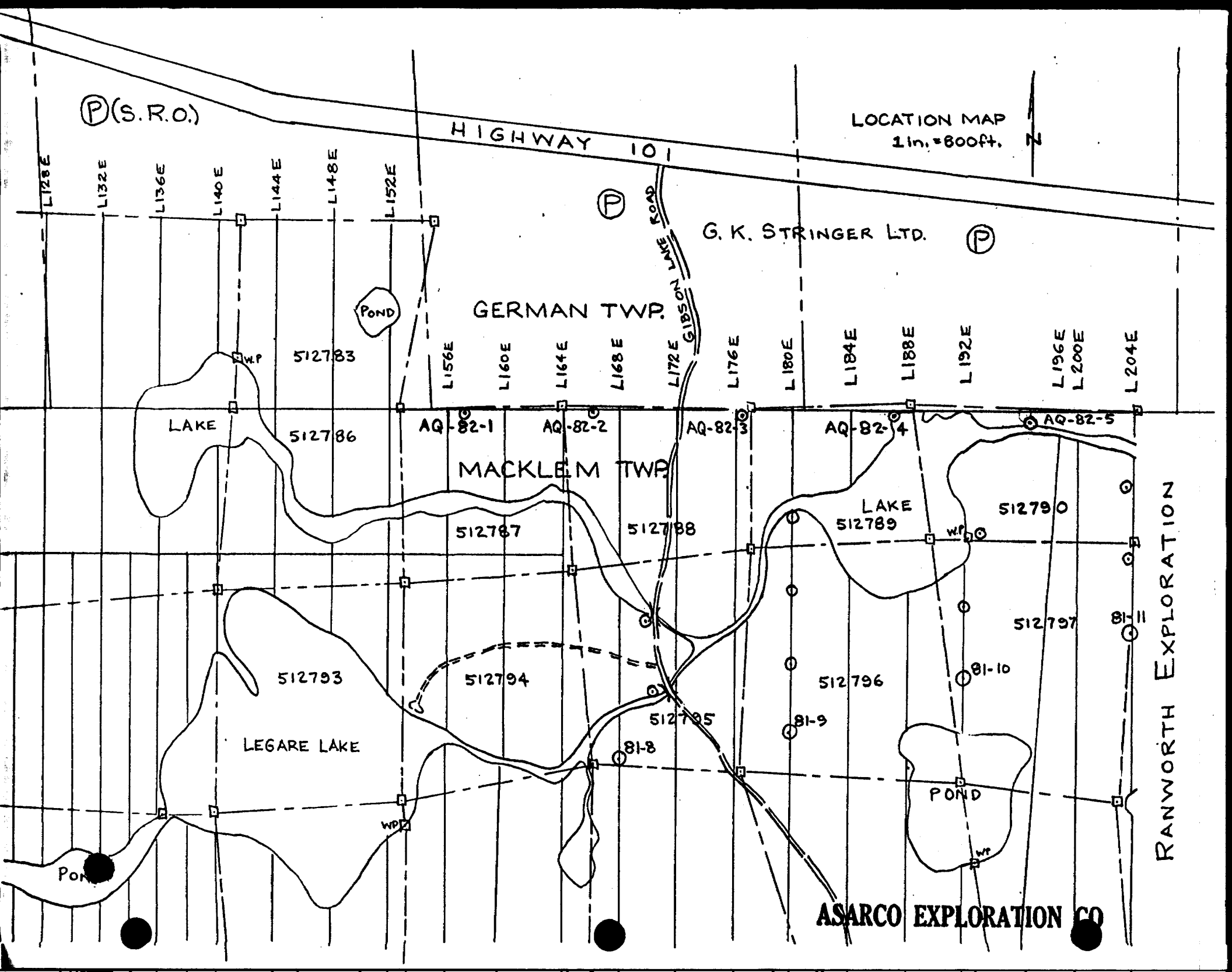
81-10

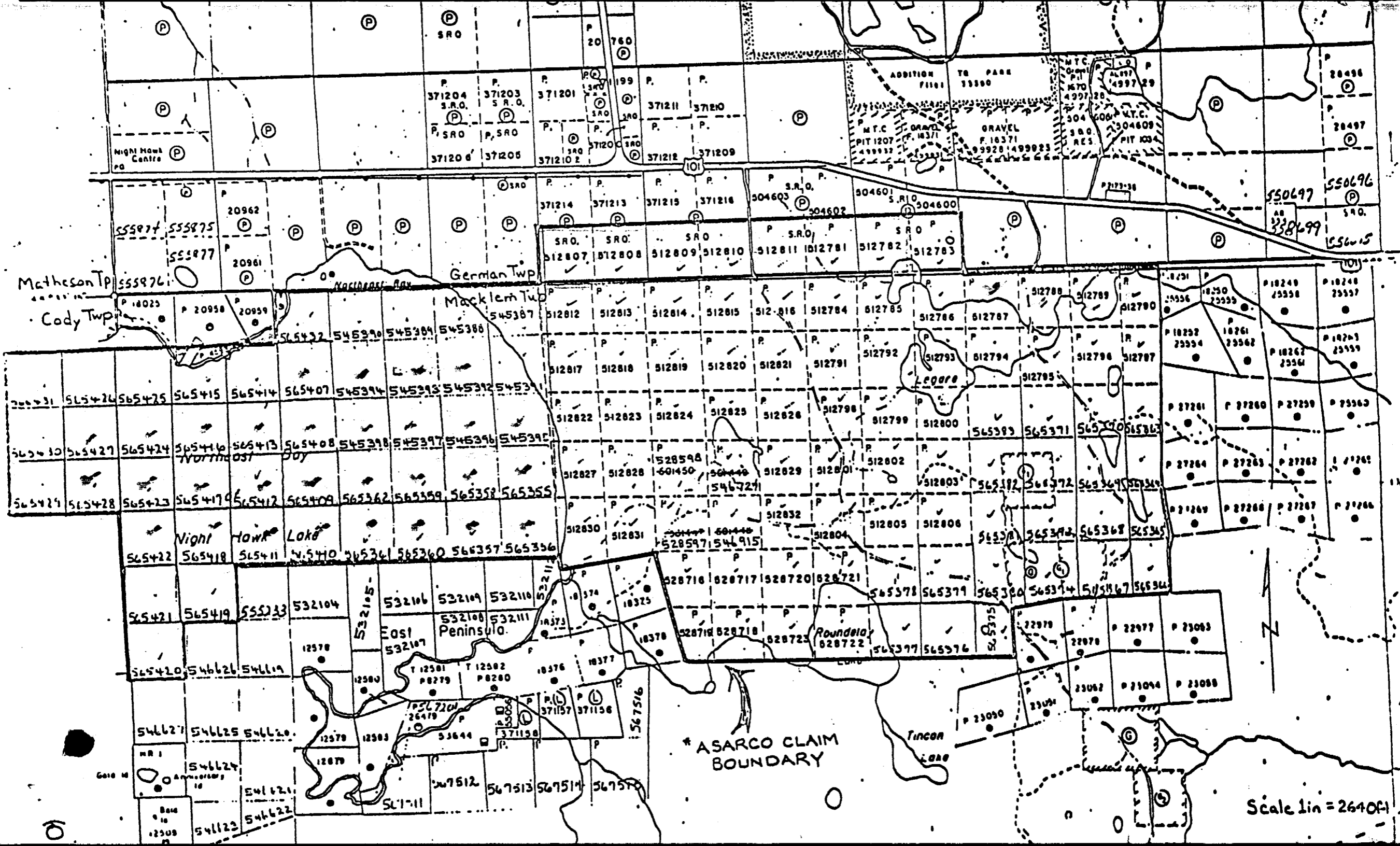
81-11

(P)

(P)

GIBSON LAKE ROAD





Night Hawk Centre

Matheson Twp
Cody Twp

German Twp
Macklem Twp

Night Hawk Lake

Legare

Roundelay

Tincon Lake

* ASARCO CLAIM BOUNDARY

Scale 1in = 2640ft

371204 S.R.O.

371203 S.R.O.

371201

371211

371210

371206

371205

371202

371212

371209

371214

371213

371215

371216

504603

504602

504601

504600

512807

512808

512809

512810

512811

512781

512782

512783

512812

512813

512814

512815

512816

512784

512785

512786

512787

512788

512789

512790

512817

512818

512819

512820

512821

512791

512792

512793

512794

512795

512796

512797

512822

512823

512824

512825

512826

512798

512799

512800

512801

512802

512803

512827

512828

512829

512801

512802

512803

512804

512805

512806

512830

512831

512832

512804

512805

512806

512807

512808

512809

512810

512811

512812

528716

528717

528720

528721

545378

545379

545380

545381

545382

545383

545384

545385

532104

532105

532106

532107

532108

532109

532110

532111

532112

532113

532114

532115

53644

371157

371158

567512

567513

567514

567515

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54650

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54652

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54658

54659

54660

DATE _____ HOLE NO. AQ-82-2 GEOLOGIST _____
 DRILLER _____ HOLE LOCATION _____
 BIT NO. _____ FOOTAGE ON BIT _____
 HOURS MOVE _____ HOURS DRILL _____ OTHER _____

Depth Graphic Log	SAMPLE NO.	DESCRIPTIVE LOG	ANALYSES				
80		mainly silt, var f sd					
110							
120		f-c sd, silt, loc occ f pebbles started using mud @ 120 ft.					
130							
140							
150	1	gy clay gravel, some sd					
150	2	Bedrock: grn talc-chl rock ground up to form f gouge; minor py; num frags wh carb in upper part. --- joint or fract? filled w gravel talc-chl gouge, var. wh carb.					
160		Foot of Hole @ 160.0 ft.					

DATE _____ HOLE NO. AQ-82-3 GEOLOGIST _____

DRILLER _____ HOLE LOCATION _____

BIT NO. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

ft. Depth	Graphic Log	SAMPLE NO.	DESCRIPTIVE LOG	ANALYSES					
100		3	Clay till zones of dense clay till w sd but v few pebbles						
110		4	dense clay till, gen few pebbles & only minor sd						
120		5							
130		6	gravelly till w occ cobbles ← several frags wh vein qtz & wh carb.						
140		7	mainly silt & f sd; loc minor clay till material w pebbles						
150		8	clay till w occ - num pebbles silt & sd						
160		9	gravel, var sd, loc some clay in upper part, occ py cubes ← caving badly, rods blocked						
170		10	Bedrock: wh & grn qtz-carb-chl rock; loc abund dissem py (appears to be a qtz-carb altd chl volcanic rock)						
180			Foot of Hole @ 178.0 ft.						

DATE _____ HOLE NO. AQ-82-4 GEOLOGIST _____
 DRILLER _____ HOLE LOCATION _____
 BIT NO. _____ FOOTAGE ON BIT _____
 HOURS MOVE _____ HOURS DRILL _____ OTHER _____

ft. Depth	Graphic Log	SAMPLE NO.	D E S C R I P T I V E L O G	A N A L Y S E S						
200		6	Clay Till? wh clay or talc & clay with var. amt sml pebbles, sd & slit.							
		7	Bedrock: wh talc gouge							
210			Foot of Hole @ 208.0 ft.							

DATE Feb. 18, 1982 HOLE NO. AQ-82-9 GEOLOGIST Jeff Sample, Bob Dean
 DRILLER Guy Fortin HOLE LOCATION Macklem Twp. Night Hawk Lake Grid
Base Line 0+00 N 36+00 W
 BIT NO. H000308 FOOTAGE ON BIT _____
 HOURS MOVE 1 HOURS DRILL 1 OTHER _____

ft Depth Graphic Log	SAMPLE NO.	D E S C R I P T I V E L O G	A N A L Y S E S						
0		Slush Ice & Ice Water							
10		gy clay							
20									
30									
40									
50									
60									
70									
80									
90		↓ gy clay, vv sly slty							
100	1	sd, slt, f gravel (becoming coarser w depth), occ grains py							

DATE Feb. 19, 1982 HOLE NO. AQ-82-13 GEOLOGIST Jeff Sample, Bob Dean
 DRILLER Guy Fortin HOLE LOCATION Macklem Twp. 26+00 S Night Hawk Lake Grid 20+00 W
 BIT NO. H000308 FOOTAGE ON BIT _____
 HOURS MOVE 1 HOURS DRILL 1 OTHER _____

ft. Depth Graphic Log	SAMPLE NO.	DESCRIPTIVE LOG	ANALYSES						
0		Slush Ice & Ice							
10		Water							
20		gy clay							
30		-----							
35		grnish-gy clay mixed w oily organic? material							
40		-----							
45		gy clay							
50									
60									
70									
80		clay w minor f gravel							
85		gy clay							
90		-----							
95		minor f gravel							
100		gy clay							

DATE _____ HOLE NO. AQ-82-13 GEOLOGIST _____
 DRILLER _____ HOLE LOCATION _____
 BIT NO. _____ FOOTAGE ON BIT _____
 HOURS MOVE _____ HOURS DRILL _____ OTHER _____

ft. Depth	Graphic Log	SAMPLE NO.	DESCRIPTIVE LOG	ANALYSES					
100			gy clay						
110		1	st, sd & f gravel (vnum talc-chl frags)						
120		2	Bedrock: grn talc-chl rock						
			Foot of Hole @ 120.0 ft.						

DATE Feb. 20, 1982 HOLE NO. AQ-82-15 GEOLOGIST Jeff Sample, Bob Dean
 DRILLER Guy Fortin HOLE LOCATION Macklem Twp. Night Hawk Lake Grid
26+00 S 48+00 W
 BIT NO. H000304 FOOTAGE ON BIT _____
 HOURS MOVE 1 HOURS DRILL 2 OTHER _____

ft. Depth Graphic Log	SAMPLE NO.	DESCRIPTIVE LOG	ANALYSES				
0		Slush Ice & Ice					
10		Water					
20							
30		gy clay					
40							
45		gy clay, minor sd & rare pebbles					
50		gy clay					
60							
70							
80							
85		gy clay, v minor silt & sd					
90							
95	1	silt, sd & gravel boulders of d qtz vol rock plus occ pebbles ↓ grades to mainly gravel					
100	2	Till: clay, silt, sd, pebbles					

DATE Feb. 20, 1982 HOLE NO. AQ-82-16 GEOLOGIST Jeff Sample, Bob Dean
 DRILLER Guy Fortin HOLE LOCATION Macklem Twp. Night Hawk Lake Grid
26+00 S 60+00 W
 BIT NO. H000304 FOOTAGE ON BIT _____
 HOURS MOVE 1 HOURS DRILL 1 OTHER _____

ft. Depth Graphic Log	SAMPLE NO.	DESCRIPTIVE LOG	ANALYSES				
0		Slush Ice & Ice					
10		Water					
20		gy clay					
30		↓					
40		gy clay, loc v minor silt & sd					
50		↓					
60							
70		mainly silt, some sd, loc v minor clay					
75		=== clay bud					
80							
85		← v minor gravel					
90							
100							

DATE _____ HOLE NO. AQ-82-16 GEOLOGIST _____
 DRILLER _____ HOLE LOCATION _____
 BIT NO. _____ FOOTAGE ON BIT _____
 HOURS MOVE _____ HOURS DRILL _____ OTHER _____

Depth ft. Graphic Log	SAMPLE NO.	D E S C R I P T I V E L O G	A N A L Y S E S				
0		← thin clay bud					
10	1	sd w minor f gravel ↓ sd, gravel, cobbles & sml boulders					
120	2	Bedrock: d grn, chloritic rock (mafic or UM? vol); fractd or cleaved Foot of Hole @ 119.0 ft.					

DATE Feb. 22, 1982 HOLE NO. AQ-82-18 GEOLOGIST Bob Dean
 DRILLER Guy Fortin HOLE LOCATION Macklem Twp. Night Hawk Lake Grid
26+00 S 36+00 E
 BIT NO. H000304 FOOTAGE ON BIT _____
 HOURS MOVE 1 HOURS DRILL 1 OTHER _____

ft. Depth Graphic Log	SAMPLE NO.	DESCRIPTIVE LOG	ANALYSES				
0		Slush Ice & Ice Water					
10		gy clay ↓ silty clay					
20		No Return					
30							
40		36-40 ft. Slow drilling - no return - boulder? or bedrock? 38-40 ft. Rods jamming lost 1 rod, adapter & tricone bit in hole Foot of Hole @ 40.0 ft.					

DATE Feb. 22, 1982 HOLE NO. AQ-82-18A GEOLOGIST Bob Dean
 DRILLER Guy Fortin HOLE LOCATION Macklem Twp. Night Hawk Lake Grid
26+00S 35+85E
 BIT NO. J000386 FOOTAGE ON BIT _____
 HOURS MOVE _____ HOURS DRILL 2 1/2 OTHER _____
Winch broke on tractor - lost 4 hrs moving to next hole.

Ft. Depth Graphic Log	SAMPLE NO.	DESCRIPTIVE LOG	ANALYSES				
0		Slush Ice & Ice Water					
10		gy clay					
20		Silty clay					
30		slt & sd					
40	1	sandy gravel poor return 40-42 ft.					
50	2	Bedrock: chloritic, silic. intrusive? rock.					
		Foot of Hole @ 49.0 ft.					

DATE FEB 23, 1982 HOLE NO. AQ-82-20 GEOLOGIST R. S. GRAY

DRILLER GUY FORTIN HOLE LOCATION LIZE, 26 S.

BIT NO. 000386 FOOTAGE ON BIT _____

HOURS MOVE 1 HR 15 MIN HOURS DRILL 1 HR 32 MIN OTHER _____

11:40 AM - 12 PM
START DELAYED BY BROKEN WINCH ON NODWELL

Depth Graphic Log	SAMPLE NO.	DESCRIPTIVE LOG	ANALYSES				
0		ICE > 24"					
		WATER					
10		BROWN AND GREY CLAY					
		GRADES TO GREY CLAY					
20	1	GRAVEL; MOSTLY BASIC VOLCANIC PEBBLES SOME CLAY BALLS NEAR START. TRACE LS SOME GRANITE AND QTZ, PY RARE					
	2	BEDROCK: GREY PORPHYRY; NO VEINING OR SULFIDES. PALE GREY, QTZ + FELDS + CHLOR VERY HARD. SLOW DRILLING (BUT NOT SILICEOUS)					
		END OF HOLE 25 1/2' (BROKEN ROD DUE TO EXCESS PRESSURE IN ATTEMPT TO SPEED UP THE CUTTING RATE)					

DATE FEB 24 HOLE NO. AQ-82-22 GEOLOGIST R. S. GRAY

DRILLER _____ HOLE LOCATION _____

BIT NO. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

depth	Graphic Log	SAMPLE NO.	DESCRIPTIVE LOG	ANALYSES					
100			SILT COARSE SAND, GRAVEL; pink Gr and v pebbles, some jasper, limestone, vein qtz.						
		01	CLAY TILL; 90% indurated sandy clay balls, 10% pebbles. Pebbles mostly chloritic volcanics, some limestone.						
110		02	Below 106, some larger cobbles (to 4") begin to appear.						
		03	TALC-CHLORITE; Soft talcose rock; no sulfides observed.						
120			END OF HOLE 119'						



W 8106-506

*Mackenzie
Corp. Co. # 51*



42A10SW0079 2.4684 GERMAN

THE MINING ACT REF

To the Recorder of Porcupine Mining Division
Lac d'Amiante du Quebec Ltee.
name of Recorded Holder T1131
12th Floor, 350 Bay Street, Toronto, Ontario M5H 2S6
Prospector's Licence
Post Office Address

do hereby report the performance of 1,942 days of Overburden Drilling type of work *Chart. 77/19*

not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
.....
..... See Attachment 1
.....
.....
.....
.....

All the work was performed on Mining Claim (s) P512827, P512830, P512828, P528597, P528598
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
- For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
- For Compressed Air or Other Power Driven or Mechanical Equipment
- Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
- For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
- With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
- For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
- For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

Overburden Drilling: Bradley Bros. Ltd., Timmins, Ontario
May 25 - May 28/81 & Aug 18 - Aug 26/81

J. Sample - Author Geologist
A. Horvath - Field Assistant
D. Dance - Field Assistant
Asarco Exploration Co. of Canada Ltd.
12th Floor, 350 Bay Street, Toronto
Office - Nov 23 - 27 1981
3,225 feet in 16 vertical holes of 3 inch diameter
Total Expenditure - \$29,130.74

Date December 17, 1981
Signature of Recorded Holder or Agent *R.J. Dean*

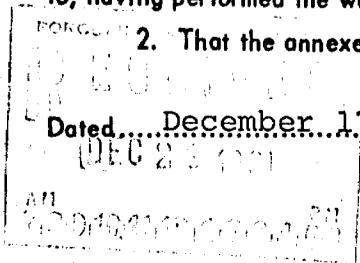
The Mining Act
Certificate Verifying Report of Work

I, R. J. Dean Asarco Exploration Co. of Canada Ltd.
12th Floor, 350 Bay Street, Toronto, Ontario M5H 2S6
(Post Office Address)

hereby certify:

- That I have a personal and intimate knowledge of the facts set forth in the report of work annexed hereto, having performed the work or witnessed same during and/or after its completion.
- That the annexed report is true.

Dated December 17, 1981
Signature *R.J. Dean*



This work report replaces attached.

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

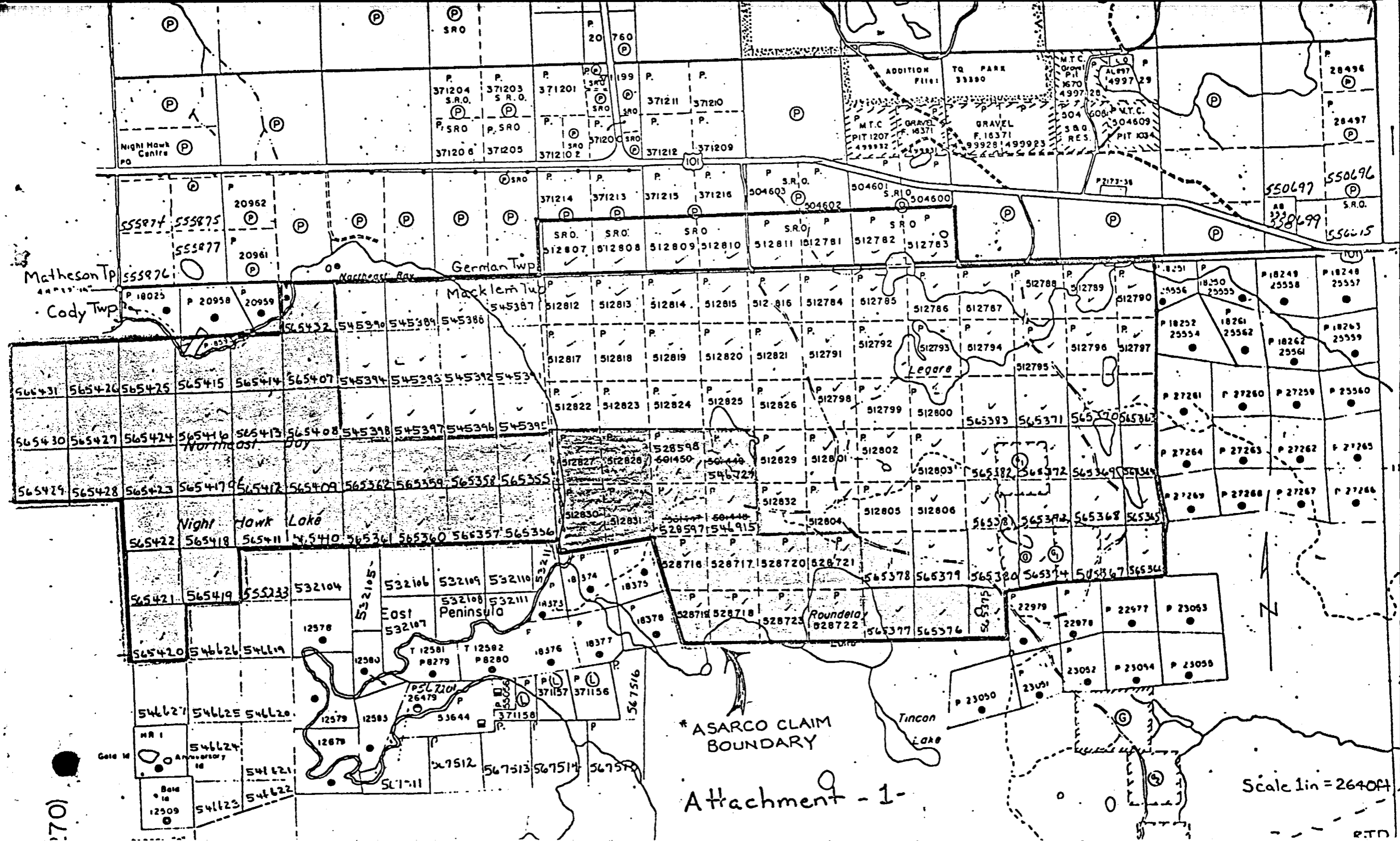
Attachment - 1 -

Claims Submitted for Assessment Credit

<u>Township</u>	<u>Claim No.</u>	<u>Credit/Days</u>
(Project)		
Macklem (Aquarius)	P528597	60✓
	P528598	60✓
	P528716	20✓
	P528717	20✓
	P528718	40✓
	P528719	40✓
	P528720	20✓
	P528721	50✓
	P528722	60✓
	P528723	20✓
	P546727	60✓
	P546915	60✓
	P565355	52
	P565356	40
	P565357	40
	P565358	40
	P565359	40
	P565360	40
	P565361	40
	P565362	40
	P565407	40
	P565408	40
	P565409	40
	P565410	40
	P565411	40
	P565412	40
	P565413	40
	P565414	40
	P565415	40
	P565416	40
	P565417	40
	P565418	40
	P565419	40
	P565420	40
	P565421	40
	P565422	40
	P565423	40
	P565424	40
	P565425	40
	P565432	40
	P565375	20
	P565376	10
	P565377	20
	P565378	10

Claims Submitted for Assessment Credit

<u>Township</u>	<u>Claim No.</u>	<u>Credit/Days</u>
Cody (Aquarius)	P565426	40
	P565427	40
	P565428	40
	P565429	40
	P565430	40
	P565431	<u>40</u>
	Total Credit/Days	



* ASARCO CLAIM BOUNDARY

Attachment - 1-

Scale 1in = 2640ft

170)

P.T.D



Ministry of Natural Resources

Ontario

Macklem Trip # 506 & early Trip

P: 512827

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of Porcupine Mining Division
I, Lac D'Amiante du Quebec Ltee T1131
name of Recorded Holder Prospector's Licence
12th Floor, 350 Bay Street, Toronto, Ontario M5H 2S6
Post Office Address

do hereby report the performance of 1,942 days of Overburden, Drilling (Sect. 77(19))
type of work

not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
.....
.....	See Attachment 1
.....
.....
.....
.....

Cancelled replaced

All the work was performed on Mining Claim (s) P512827, P512830, P512828, P528597, P528598
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
 - For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
 - For Compressed Air or Other Power Driven or Mechanical Equipment - Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
 - For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
- With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
- For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
 - For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

Overburden Drilling: Bradley Bros. Limited, Timmins, Ontario
May 25 - May 28/81 & Aug 18 - Aug 26/81

J. Sample - Author Geologist Asarco Exploration Co. of Canada Limited
A. Horvath - Field Assistant 12th Floor, 350 Bay Street, Toronto
D. Dance - Field Assistant Office - Nov 23 - 27, 1981
3,225 feet in 16 vertical holes of 3 inch diameter
Total Expenditure - \$29,130.74

RECORDED
DEC 5 1981
Date December 1, 1981
Receipt No.

[Signature]
Signature of Recorded Holder or Agent

The Mining Act Certificate Verifying Report of Work

I, R. S. Gray Asarco Exploration Co. of Canada Limited
12th Floor, 350 Bay Street, Toronto, Ontario M5H 2S6
(Post Office Address)

hereby certify:

- That I have a personal and intimate knowledge of the facts set forth in the report of work annexed hereto, having performed the work or witnessed same during and/or after its completion.
- That the annexed report is true.

Dated December 1, 1981
RECEIVED
DEC 5 1981
AM 10:41:12 128450

[Signature]
Signature

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

Claims Submitted for Assessment Credit

<u>Township</u>	<u>Claim No.</u>	<u>Credit/Days</u>
(Project)		
Macklem	P528597	60
(Aquarius)	P528598	60
	P528716	20
	P528717	20
	P528718	20
	P528719	20
	P528720	20
	P528721	20
	P528722	20
	P528723	20
	P546727	60
	P546915	60
	P565355	43
	P565356	43
	P565357	43
	P565358	43
	P565359	43
	P565360	43
	P565361	43
	P565362	43
	P565407	43
	P565408	43
	P565409	43
	P565410	43
	P565411	43
	P565412	43
	P565413	43
	P565414	43
	P565415	43
	P565416	43
	P565417	43
	P565418	43
	P565419	43
	P565420	43
	P565421	43
	P565422	43
	P565423	43
	P565424	43
	P565425	43
	P565432	43
Cody	P565426	43
(Aquarius)	P565427	43
	P565428	43
	P565429	43
	P565430	43
	P565431	43
	<u>Total Credit/Days</u>	<u>1,942</u>

Claims Submitted for Assessment Credit

<u>Township</u>	<u>Claim No.</u>	<u>Credit/Days</u>
(Project)		
Macklem	P528597	60
(Aquarius)	P528598	60
	P528716	20
	P528717	20
	P528718	20
	P528719	20
	P528720	20
	P528721	20
	P528722	20
	P528723	20
	P546727	60
	P546915	60
	P565355	43
	P565356	43
	P565357	43
	P565358	43
	P565359	43
	P565360	43
	P565361	43
	P565362	43
	P565407	43
	P565408	43
	P565409	43
	P565410	43
	P565411	43
	P565412	43
	P565413	43
	P565414	43
	P565415	43
	P565416	43
	P565417	43
	P565418	43
	P565419	43
	P565420	43
	P565421	43
	P565422	43
	P565423	43
	P565424	43
	P565425	43
	P565432	43
Cody	P565426	43
(Aquarius)	P565427	43
	P565428	43
	P565429	43
	P565430	43
	P565431	43
	Total Credit/Days	1,942

2.4684

1983 06 23

2.4684

Mr. William L. Good
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Data for Overburden Drilling submitted on Mining Claims
P512827, P512830, P512828, P528597 and P528598 et al
in the Township of Macklem

The Overburden Drilling assessment work credits as shown
on the attached statement have been approved as of the
above date.

Please inform the recorded holder of these mining claims
and so indicate on your records.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-1380

R. Pichette: mc

CC: Lac D'Amiante du Quebec Ltee
Hwy #112
Black Lake, Quebec
GON 1A0

CC: Resident Geologist
Timmins, Ontario

1983 06 23

Recorded Holder	LAC D'AMIANTE DU QUEBEC LTEE
Township or Area	MACKLEM TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Section 86(18) ⁷⁷⁽¹⁹⁾ see across _____ days Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	\$29,130.74 spent on reverse circulation Overburden Drilling on mining claims P512827, P512830, P512828, P528597 and P528598. 1942 assessment work days are allowed which may be grouped in accordance with Section 76(6) of the Mining Act R.S.O. 1980. For mining recorders use: The work assignment for each of the above listed 5 claims is 388 days per claim.
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 86 (15a) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 86(18)-60:



512827

Ministry of
Natural
Resources

Notification of recording
of assessment work credits

Lands Administration Branch
Mining Lands Section
Ministry of Natural Resources
Room 1617, Whitney Block
Queen's Park, Toronto
M7A 1W3

RECEIVED

DEC 16 1981

MINING LANDS SECTION

Date of recording of work: December 3, 1981.

Recorded holder: Lac D'Amiante du Québec Ltee.
12th Floor, 350 Bay Street,
Address: Toronto, Ontario M5H 2S6

Township or Area: MACKLEM TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	See Attached List
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
77 19 Overburden Drilling Section 25 (49) See Attached List _____ days	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input type="checkbox"/>	

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.
- Reports and maps are being forwarded to the Lands Administration Branch with this letter.

Regional Mining Recorder
Mining Recorder

c.c. Lac D'Amiante du Quebec Ltee.

Claims Submitted for Assessment Credit

<u>Township</u> (Project)	<u>Claim No.</u>	<u>Credit/Days</u>
Macklem (Aquarius)	✓ P528597	60
	P528598	60
	P528716	20
	P528717	20
	P528718	20
	P528719	20
	P528720	20
	P528721	20
	P528722	20
	P528723	20
	— P546727	60
	— P546915	60
	✓ P565355	43
	P565356	43
	P565357	43
	P565358	43
	P565359	43
	P565360	43
	P565361	43
	P565362	43
	P565407	43
	P565408	43
	P565409	43
	P565410	43
	P565411	43
	P565412	43
	P565413	43
P565414	43	
P565415	43	
P565416	43	
P565417	43	
P565418	43	
P565419	43	
P565420	43	
P565421	43	
P565422	43	
P565423	43	
P565424	43	
P565425	43	
✓ P565432	43	
Cody (Aquarius)	P565426	43
	P565427	43
	P565428	43
	P565429	43
	P565430	43
	P565431	43
	Total Credit/Days	1,942

1982 04 14

2.4584

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received data for Overburden Drilling submitted under Section 77(19) of the Mining Act R.S.O. 1980 on Mining Claims P 512807 at #1 in the Townships of Cody and Macklem.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

J. Skura/amc

cc: Asarco Exploration Co. of Canada Ltd.
Toronto, Ontario
c/o - Lac D'Amiante du Quebec Ltee.

1982 06 16

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Cancelled
2.4841

2.4684

*overburden drilling -
P.S.*

Dear Sir:

We have received data for assaying submitted under Section 77(19) of the Mining Act R.S.O. 1980 on Mining Claims: P 565407 et al, in the Townships of Cody/Macklem.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

J. Skura/amc

cc: Lac D'Amiante du Quebec Ltee.
Hwy.# 112, Black Lake, Quebec G0N 1A0

cc: Asarco Exploration Co. of Canada Ltd.
350 Bay Street, Toronto, Ontario M5H 2S6

1983 03 02

Lac D'Amiante du Quebec Ltee
Hwy #112,
Black Lake, Quebec
GON 1A0

*check file
4684*

*cancelled
2.4841*

see 2.4684

Dear Sir:

RE: Data for Overburden Drilling submitted on Mining Claims
P 565407 et al in the Townships of Cody & Macklem

The above mentioned report was recorded with the Porcupine Mining Recorder on April 7, 1982, under Expenditures for Overburden Drilling. Please, therefore, forward to us, drill logs, in duplicate, covering all holes drilled in the area pertaining to this survey.

Also, please provide a complete report in duplicate, describing the property, location and means of access, survey procedure, results, conclusions and full analytical results.

If I do not hear from you by March 14, 1983 the mining recorder will be directed to cancel the work credits.

For further information please contact Mr. F.M. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

DW:sc

cc: Mining Recorder
Timmins, Ontario

Asarco Exploration

R. S. Gray
Manager

April 2, 1982

RECEIVED

APR - 2 1982

MINING LANDS SECTION

Mr. F.W. Matthews, Supervisor
Lands Administration Branch
Whitney Block, Room 6450
Queen's Park
Toronto, Ontario M7A 1W3

Dear Sir,

Please find enclosed duplicate reports on an overburden drilling program carried out in Cody and Macklem Townships (Northeast Bay, Nighthawk Lake) during February 1982 by Asarco Exploration for Lac D'Amiante du Quebec Ltee.

We are reporting 25 holes for a combined expenditure of \$31,733.05 or 2,115 days credit (\$15/man day). From this amount we are claiming 1,640 days credit on 53 contiguous claims.

The report includes a descriptive text, drill logs, location maps and an invoice supported cost breakdown.

We trust all the necessary information to process our application is included.

Yours truly,



R. J. Dean

RJD:mm

Encl.

Asarco Exploration

R. S. Gray
Manager

April 1, 1982

Mr. W.L. Good
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Cody and Macklem Township
Overburden Drilling

Dear Sir,

Please find enclosed a Mining Act Report of Work upon which we report an overburden drilling program carried out in Cody and Macklem Townships (Northeast Bay, Nighthawk Lake) during February 1982 by Asarco Exploration for Lac D'Amiante du Quebec Ltee.

We are reporting 25 holes for a combined expenditure of \$31,733.05 or 2,115 days credit (\$15/man day). From this amount we are claiming 1,640 days credit on 53 contiguous claims.

This assessment credit is to be distributed unevenly over 53 contiguous claims as shown on Appendix 1 and the accompanying location map. According to our records this submission will fulfill the maximum allowable credit of 60 days for overburden drilling on the 53 claims involved.

Copies of the report, including drill logs, location maps and an invoice supported cost breakdown will be submitted to Queen's Park, Toronto.

Yours truly,



R. J. Dean

RJD:mm

Encl.

Asarco Exploration

512827

R. S. Gray
Manager

December 17, 1981

Mrs. Jeanine Tremblay
Acting Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Macklem - Cody Townships
Overburden Drilling

Dear Mrs. Tremblay,

Please be advised that we are submitting a revised Mining Act Report of Work to replace a previous submission to you dated December 1, 1981. We have received today a Notice of Intent from Queen's Park listing a reduced rate of assessment credits for a technical survey which Asarco submitted in December 1980 for assessment credit. As a result, we now wish to distribute the work credit on overburden drilling completed this year on several claims which are unexpectedly affected by this decision. We are still applying for 1,942 days assessment credit but will now require a revised distribution of credit as shown on Attachment 1.

It is unfortunate that such a prolonged evaluation of our previous work has increased our present workload and your efficiency in recording new credits. We are now re-writing and compiling our drilling report to comply with the revised distribution of assessment credits for an overburden drilling program in 1981. We hope you are able to advise us that this new submission has been duly received and recorded.

Please find enclosed a Mining Act Report of Work form upon which we report an overburden drill program carried out during May and August 1981 in Macklem Township. Also enclosed is a drill hole location map and a list of claims to which we are applying credit. This work was completed by Asarco Exploration Company of Canada Limited on behalf of the owners of the claims, Lac d'Amiante du Quebec Ltee.

Asarco Exploration Co. of Canada Ltd.
12th Floor, 350 Bay Street
Toronto, Ontario M5H 2S6
(416) 368-7993



A subsidiary of
ASARCO

We are reporting 16 overburden holes (3,225 feet) with total expenditure of \$29,130.74 for an assessment credit of 1,942 days distributed unevenly over 50 claims in Macklem and Cody Townships.

Please take note that we are not applying work to four claims within the continuous block of claims upon which the assessment credit has been spread (see Attachment 1). Although some of the work was done on these claims we are using the credit over the remainder of the block as we have previously claimed the maximum allowable credit (60 days) for overburden drilling on these four particular claims. The claims that are being submitted (50) for assessment credit are shown in green on Attachment 1. The four claims within this continuous block (outlined in green) for which credit is not being applied are shown in yellow.

Copies of the reports, including drill logs, location maps and an invoice supported cost breakdown covering this work will be submitted to the Mining Lands Section, Queen's Park Toronto.

Yours truly,



R. J. Dean

RJD:mm

c.c. E.F. Anderson
Director
Lands Administration Branch

G.H. Ferguson, Q.C.
Mining Lands Commissioner
Queen's Park

BRADLEY BROS. LIMITED

February 15, 1982

CONTRACT DIAMOND DRILLING

Asarco Exploration Co. of Canada Ltd.
12th Floor - 350 Bay Street
Toronto, Ontario
M5H 2S6

HOLE NO.	TO COVER DIAMOND DRILLING FOR					
	FROM	TO	FOOTAGE COMPLETED			
	<u>Maclem Township</u>					
	Mobilization - 32 miles			@	\$5.00	\$160 00
AQ-82-1	0'	200'	200'			
2	0'	160'	160'			
3	0'	178'	178'			
4	0'	218'	218'			
5	0'	220'	220'			
	Equipment rental - 68 hours			@	218.00	14,824 00
	Down the hole consumables:					
	3 Tricone bits	@ \$725.00	-	\$2175.00		
	1 Adaptor	570.00	✓	570.00		
	10 bags mud	@ 14.50	-	145.00		
				<u>\$2890.00</u>		
		Plus 15%		<u>433.50</u>		3,323 50
	Cost to make ice on lake:					
	60 man hours		@	22.00		1,320 00
	60 muskey hours		@	35.00		2,100 00
	16 hours trucking		@	20.00		320 00
						<u>\$22,047 50</u>

*Paid to Asarco
March 9/82
\$22,047.50*
BRADLEY BROS. LIMITED

BRADLEY BROS. LIMITED

February 28, 1982

CONTRACT DIAMOND DRILLING

Asarco Exploration Co. of Canada Limited
12th Floor - 350 Bay Street,
Toronto, Ontario M5H 2S6

HOLE NO.	TO COVER DIAMOND DRILLING FOR Feb. 16 to 26, 1982				
	FROM	TO	FOOTAGE COMPLETED		
	<u>Nighthawk Lake</u>				
	Move equipment to shop and the Nighthawk Lake - 50 miles			e \$5.00	\$250 00
AQ-82-6	0'	110'	110'		
7	0'	130'	130'		
8	0'	110'	110'		
9	0'	106'	106'		
10	0'	102'	102'		
11	0'	119'	119'		
12	0'	116'	116'		
13	0'	120'	120'		
14	0'	70'	70'		
15	0'	104'	104'		
16	0'	119'	119'		
17	0'	138'	138'		
18	0'	49'	49'		
19	0'	64'	64'		
20	0'	25'	25'		
21	0'	96'	96'		
22	0'	119'	119'		
23	0'	105'	105'		
24	0'	84'	84'		
25	0'	100'	100'		
26	0'	84'	84'		
27	0'	116'	116'		
28	0'	77'	77'		
29	0'	50'	50'		
	Equipment rental - 88 hours			e 218.00	19,184 00
	Breakdown - 4 hours			e 178.00	712 00
	<u>FORWARD</u>				

BRADLEY BROS. LIMITED

February 28, 1982

CONTRACT DIAMOND DRILLING

Asarco Exploration Co. of Canada Limited
12th Floor - 350 Bay Street,
Toronto, Ontario M5H 2S6

HOLE NO.	TO COVER DIAMOND DRILLING FOR			FOOTAGE COMPLETED	
	FROM	TO			
		Feb. 16 to 26, 1982			
		Down the hole consumables -			
		5 Tricone bits @ \$725.00	-	\$3625.00	
		3 Adapters 570.00	-	1710.00	
		2 rods 546.00	-	1092.00	
				<u>\$6427.00</u>	
		Plus 15%		<u>964.05</u>	\$7,391 05
		Cost to make ice on lake - Feb. 16			
		8 man hours @ 22.00		176 00	
		8 muskeg hours @ 35.00		280 00	
				<u>456 00</u>	
					<u>\$27,993 05</u>

Paul In Field
Cheque # 931
March 29/82
BRADLEY BROS. LIMITED
J. Lewis

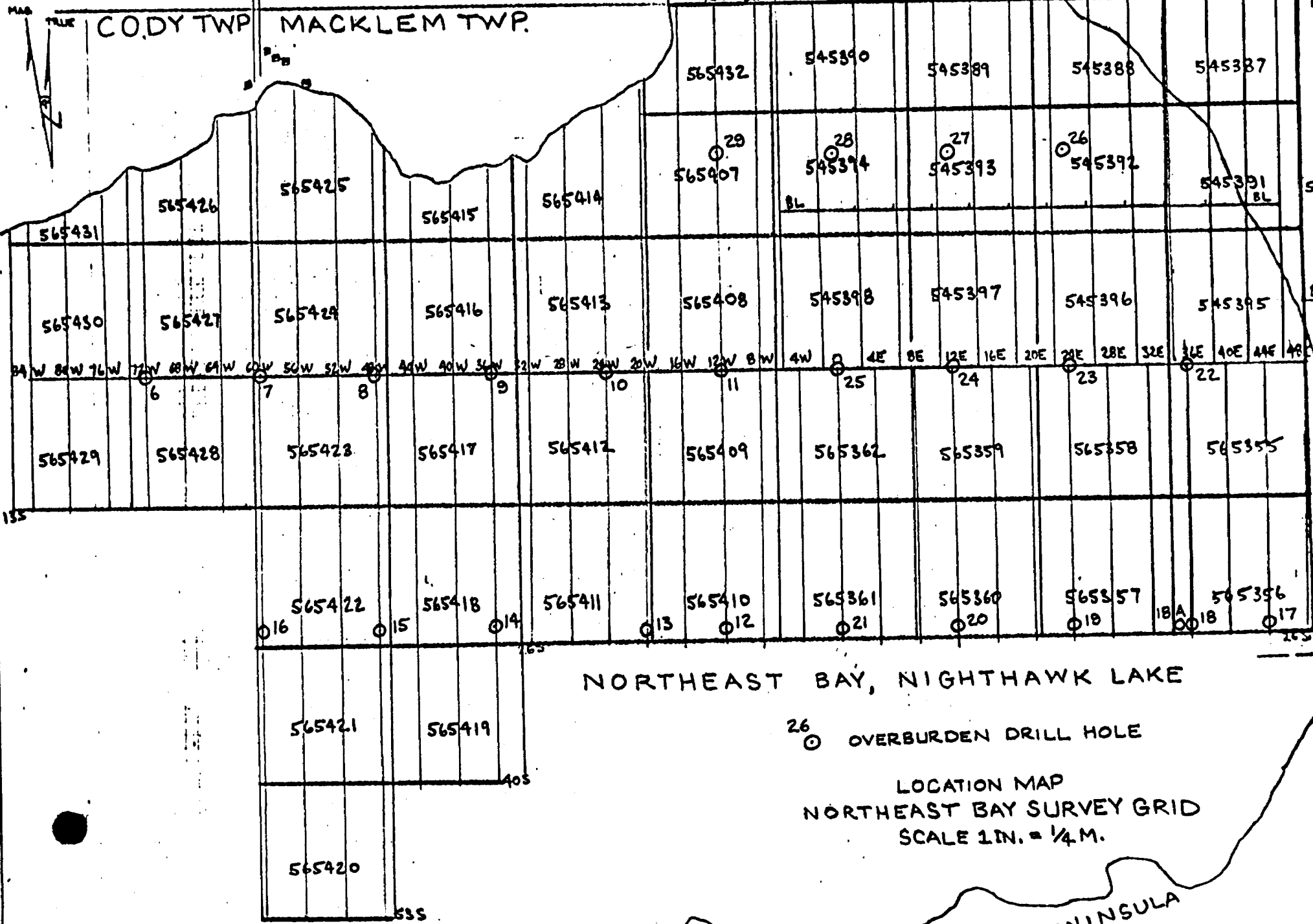
MATHESON

GERMAN TWP

CODY TWP

MACKLEM TWP.

12W 8W 48W 44W 40W 36W 32W 28W 24W 20W 16W 12W 8W 4W 0 3430E



NORTHEAST BAY, NIGHTHAWK LAKE

26 OVERBURDEN DRILL HOLE

LOCATION MAP
NORTHEAST BAY SURVEY GRID
SCALE 1 IN. = 1/4 M.

EAST PENINSULA

MATHESON TWP. M.297

THE TOWNSHIP OF
CODY

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE (C.S.)
- LEASES (L)
- LOCATED LAND (Loc.)
- LICENSE OF OCCUPATION (L.O.)
- MINING RIGHTS ONLY (M.R.O.)
- SURFACE RIGHTS ONLY (S.R.O.)
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

The whole of Moose Island is attached to the Township of Cody. File 23642.

This Township lies within the Municipality of The City of Timmins

Reserve flooding rights to Ont Hydro to elevation 903.5' TBN0 Railway datum on Night Hawk lake and that portion of the river between Night Hawk lake and Frederick House Lake

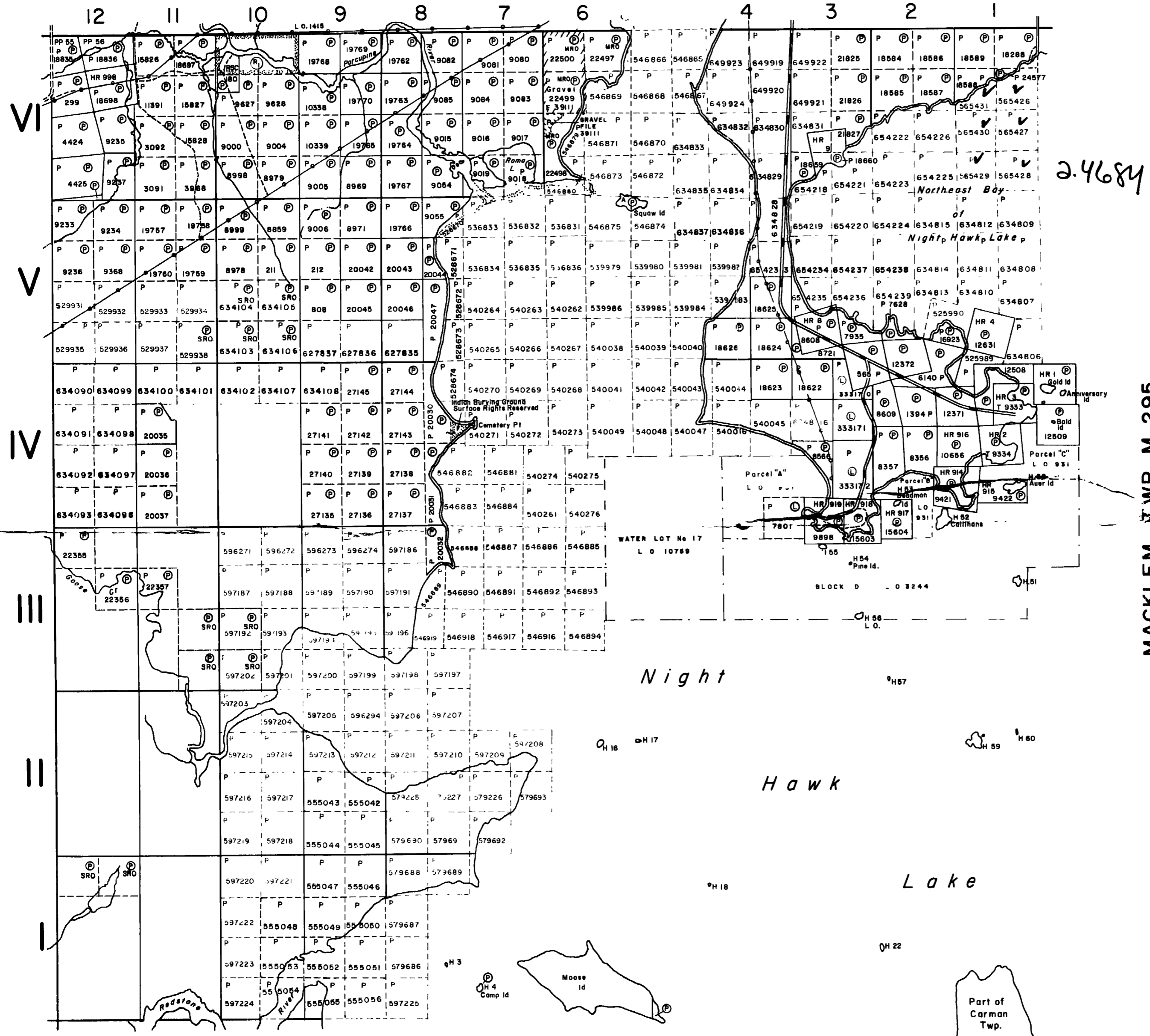
Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O. 1970).

C. Co. No	File	Date	Disposition
W 53/76	16539	10/9/76	S R O

DATE OF ISSUE
NOV 24 1982
Ministry of Natural Resources
TORONTO

PLAN NO. M.270

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



WHITNEY TWP. M.319

MACKLEM TWP. M.295

CARMAN TWP. M.266



42A185W0079 2.4684 GERMAN

GERMAN TWP. (M.283)

2.4684

THE TOWNSHIP
OF

MACKLEM

DISTRICT OF
COCHRANE

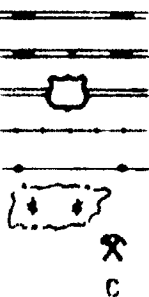
PORCUPINE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

DISPOSITION OF CROWN LANDS

- PATENT, SURFACE AND MINING RIGHTS ●
- " , SURFACE RIGHTS ONLY ○
- " , MINING RIGHTS ONLY ◐
- LEASE, SURFACE AND MINING RIGHTS ■
- " , SURFACE RIGHTS ONLY □
- " , MINING RIGHTS ONLY ◑
- LICENCE OF OCCUPATION ▼

- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED



NOTES

400' surface rights reservation along the shores of all lakes and rivers

This township lies within the Municipality of the CITY of TIMMINS

Reserve flooding rights on Night Hawk Lake to Ont Hydro to elevation 903.5', T&N.O.Ry datum.

SAND and GRAVEL

- Ⓞ Gravel File 105381
- Ⓞ MTC Pit 1121
- Ⓞ QUARRY PERMIT

DATE OF ISSUE

NOV 24 1982

Ministry of Natural Resources
TORONTO

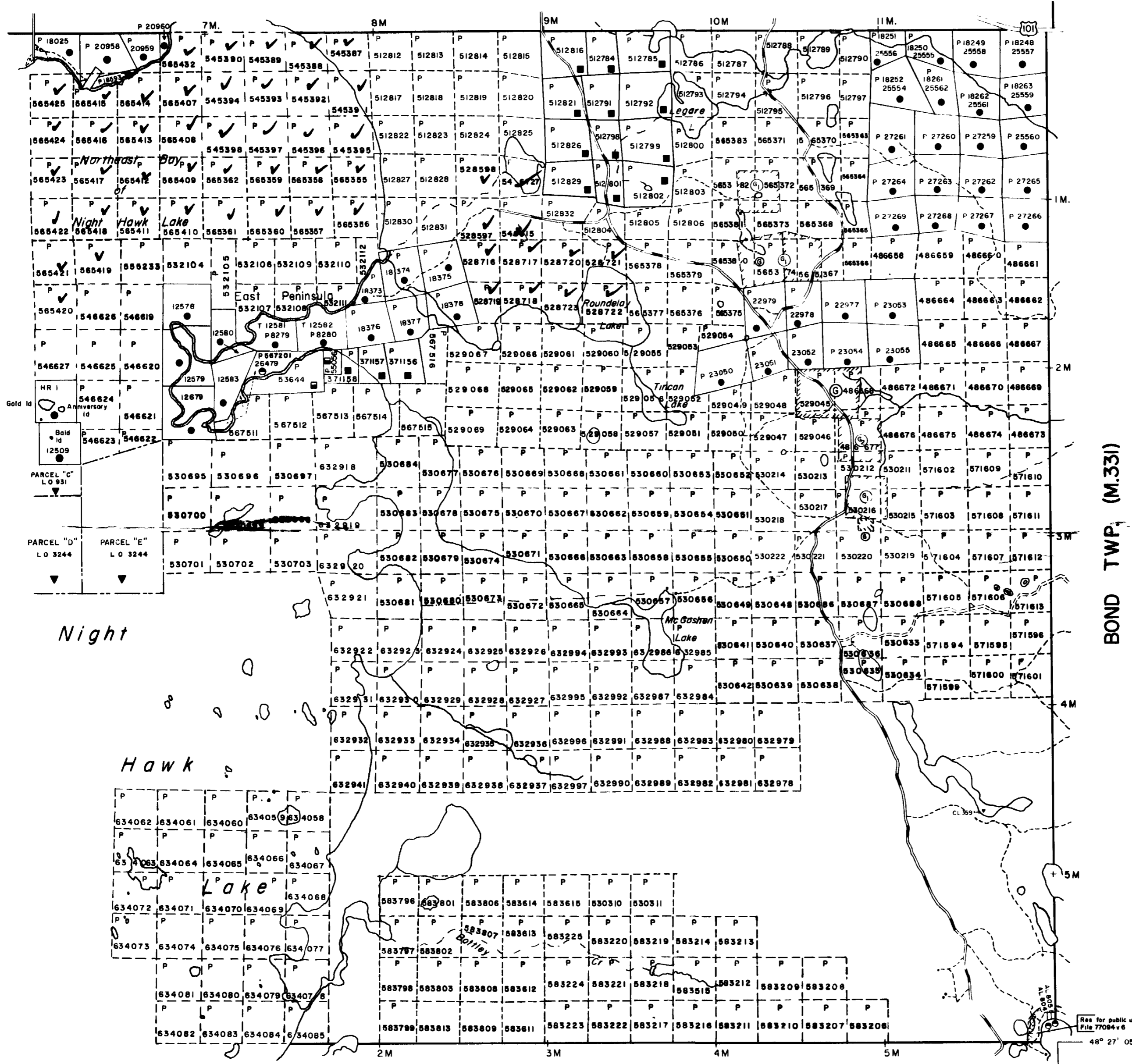
PLAN NO. **M.295**

ONTARIO
MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

CODY TWP. (M.270)

BOND TWP. (M.331)



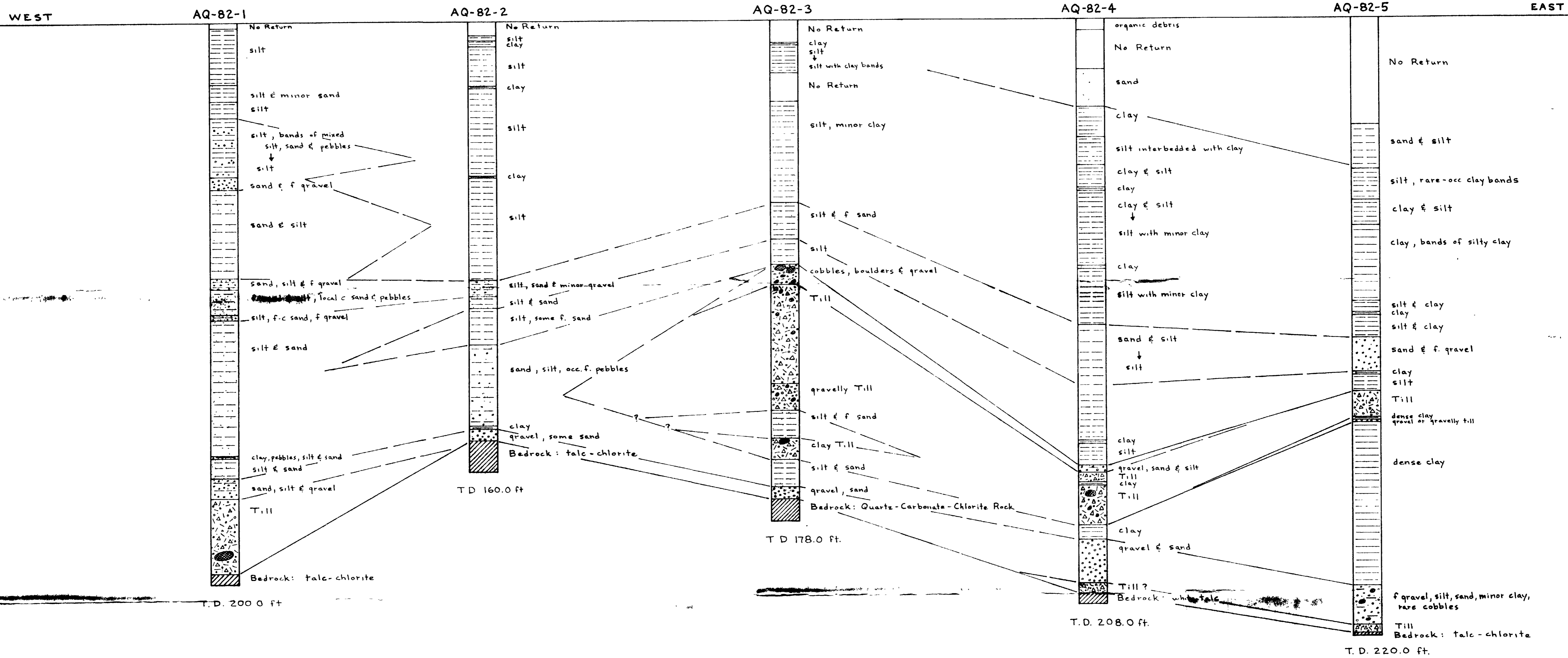
42A105W0078 2.4684 GERMAN

210

THOMAS TWP. (M.312)

80° 48' 46"

176+00E



Horizontal Scale : 1" to 200'
Vertical Scale : 1" to 20'



42A10506070 2-4804 GERMAN

220

CROSS-SECTION ALONG BASE LINE 0+00

FILE
PROVINCE
DISTRICT
TWP
NTS

24684

ASARCO EXPLORATION COMPANY OF CANADA					
AQUARIUS PROJECT					
OVERBURDEN DRILL SECTIONS					
HOLES AQ-82-1 to AQ-82-5					
MACKLEM TOWNSHIP, ONTARIO					
SCALE As shown	DRAWN J.J.S.	DATE March 19, 1982	FILE NO 42 A 10		

ATTACHMENT PLATE 2

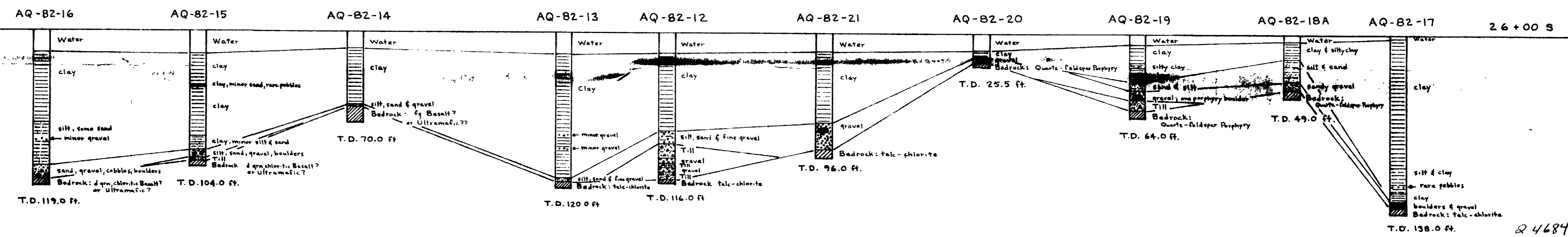
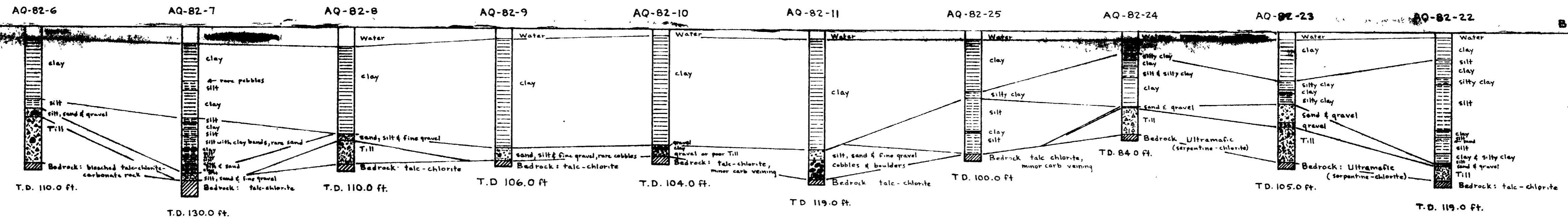
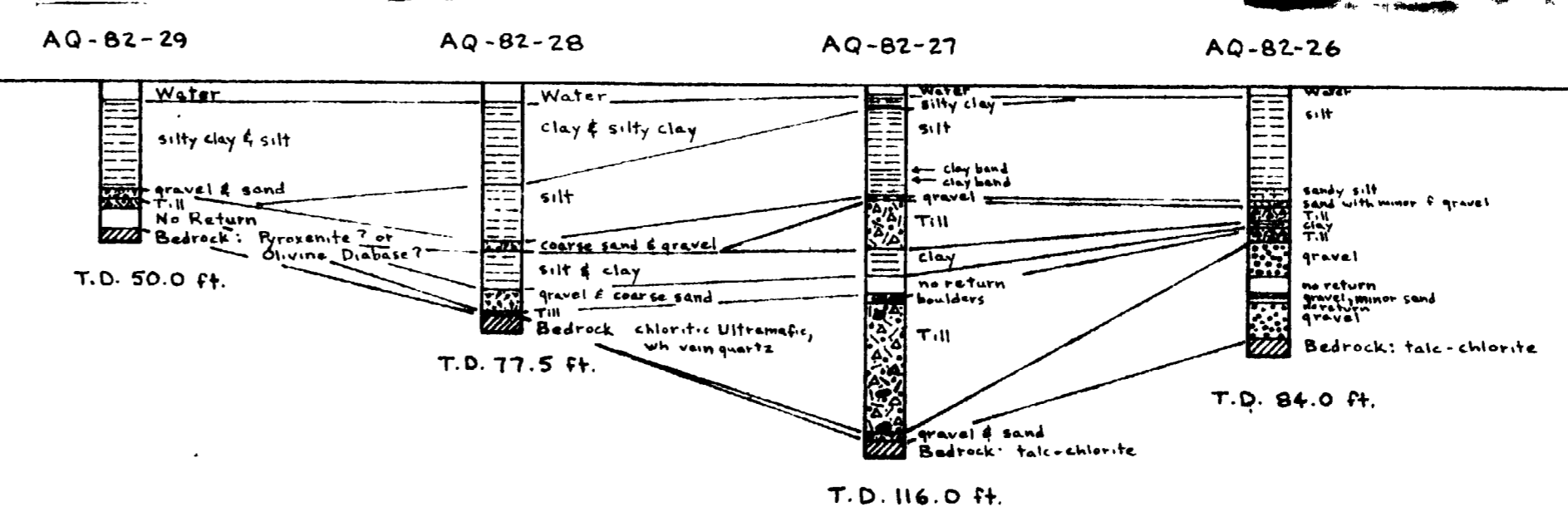
Cody Twp.
Macklem Twp.

48 + 00 W

0 + 00

44 + 00 E

22 + 00 N.



Horizontal Scale : 1" to 500'
Vertical Scale : 1" to 50'



230

NIGHT HAWK LAKE GRID

FILE
PROVINCE
DISTRICT
TWP
NTS

ASARCO EXPLORATION COMPANY OF CANADA

AQUARIUS PROJECT

OVERBURDEN DRILL SECTIONS
HOLES AQ-82-6 TO AQ-82-29

CODY & MACKLEM TOWNSHIPS, ONTARIO.

SCALE	DRAWN	DATE	FILE NO.
As shown	J.J.S	March 18, 1982	42A10