



52J04NE9385 52J04NE14A1 SHARRON LAKE

010

Diamond Drilling

Area OF SHARRON LK

Report NO

Work performed by: ASARCO EXPL C L.

Claim NO	Hole NO	Footage	Date	Note
PA 44954	R1	195	MAY 71	
PA 44957	R2	198	MAY 71	

TOTAL: 2 DH 393 FT

Notes:

PROJECT ROSNELL

ASARCO EXPLORATION COMPANY OF CANADA LTD.

Area ROSNELL
Line 10120 Coord. 0440N
Azimuth 114° Dip -45°
Dip test NIL

Suite 840, 20 King St., West, Toronto 1, Ontario
Drilled by BRADLEY BROTHERS Core AXI
Started 17 MAY 1971 Finished 15 MAY 1971

D.D.H. R1
Page 1 of 2 Pages
Logged by A. Bickerton
Date 18 MAY 1971
Sampled by A. Bickerton

Petrographic	Description	sample number	Mineralization
0			
10			
20	OVERBURDEN (SAND)		
22	22' → 72.5'		
27	PREDOMINANTLY QUARTZ-SERICITE SCHIST.	7920	24.5 } FEW SPECKS Py. < 1% 26.1 } 28.0 } STRINGER Py. 1/4"
30	PATCHES OF PURE QUARTZ WHERE INDICATED. IRREGULAR STRINGERS OF SULPHIDES AS SHOWN.	7921	
40	THE ROCK APPEARED TO BE AN ALTERED RHYOLITIC TUFF. IRON CARBONATE IS EVIDENTLY ALONG MANY OF THE	7922	44.0 } Blebs py, cpy < 1% 45.5 } 47.5 } STRINGER Py.
50	S-SURFACES; ESPECIALLY WHERE WEATHERING HAS OCCURRED.	7923	50.0 } Occasional Bleb py, cpy < 1% 52.5 } 57.5 } 530 } 4" QV 57.5 } Minor Chlorite }
60		7924	57.0 } 2" Violet { sl + ga. } 50% Total 57.5 } 59.5 } Blebs py, ga. < 1%
70	QU. { 67.5 } 70.5 } 72.0 } Some coarse grained CO ₂ { 73.0 }	7925	66.0 } Few Blebs py. 67.5 } dissem. py. cpy 1-2% 70.5 } 72.5 } 73.0 }
80	72.5 → 84.6' QUARTZ-CARBONATE VIO. PALE PINKISH COLOUR, MASSIVE TO BRECCIATED. SULPHIDE CONTENT ABOUT 1-3%.	7916	Blebs, disseminations and Stringers cpy. py. Tennantite 2-3% (cpy-py. Ten.)
	COARSE GRAINED CO ₂ 85.0		84.6
90	DARK GRAY GREEN FINE-GRAINED	7917	
	? META ANDESITE. POORLY DEVELOPED SCHISTOSITY. MINOR AMOUNTS OF CARBONATE COATING S-SURFACES	7918	92.0 } Blebs 93.0 }



PROJECT ROSNEILL

ASARCO EXPLORATION COMPANY OF CANADA LTD.

Area ROSNEILL
 Line 1055
 Azimuth 114°T Dip 45°
 Dip test NIL

Suite 840, 20 King St., West Toronto 1, Ontario
 Drilled by BRADLEY BROS Core AXI
 Started 17 MAY 1971 Finished 18 MAY 1971

D.D.H. R1
 Page 2 of 2 Pages
 Logged by H. PICKETT
 Date 18 MAY 1971
 Sampled by M. PICKETT

Petrographic	Description	Sample number	Mineralization
107.0A	SOME DISTACHIO-GREEN CHLORITE K2S 1" QU 104.1 PARREAU 1/2" MINOR SULPHIDES 106.2	7918 124 7919	102.0' } DISSEMINATED PY. < 1/2 % 102.5' } 104.0' } BLEBS PY. 1/2 % 106.2' } STRINGES ? TENNANTITE 10%
110	SLIGHTLY SILICIFIED AND THUS A LIGHTER GREY COLOUR THAN THE ABOVE. GRADATIONAL BOUNDARY	115'	
118.0V	1/8" CO ₃ VEIN 117.4	7926	119.4' BLEBS PY.
120	1/2" QU 119.4" "	125'	123.0' STRINGES ? TENNANTITE 10%
130	HEAVILY SILICIFIED. VERY POOR SCHISTOSITY. MAINLY BRECCIATED OFTEN WITH QUARTZ FILLING THE SPACES BETWEEN FRAGMENTS. BOUNDARY IS GRADATIONAL. PARTS ARE ALMOST CHERTY.	7927 135'	
140	143Y	7928	138.5' } BLEBS AND DISSEMINATIONS 140.0' } OF PY. < 10% 142.0' } FEW BLEBS CPY.
150	SLIGHTLY SILICIFIED, LESS BRECCIATED THAN ROCK IMMEDIATELY ABOVE. SCHISTOSITY POORLY DEVELOPED.	145'	
152.0A	1/8" CO ₃	7929	
160	AS FOR 84.6 → 107.0 1/8" CO ₃	155'	
162.0V	1/8" CO ₃	7930	162.0' 1" HEAVILY DISSEM. PY. 40% PY.
170	ALTERED ANDESITE MASSIVE TO BRECCIATED	165'	
175	1/2" CO ₃	7931	
180	1/2" CO ₃	175'	
185	1/2" CO ₃	7932	
190	1/2" CO ₃	185'	
195.0V	END OF HOLE	195'	



PROJECT ROSNELL

ASARCO EXPLORATION COMPANY OF CANADA LTD.

Area ROSNELL SIDING

Suite 840, 20 King St., West, Toronto 1, Ontario

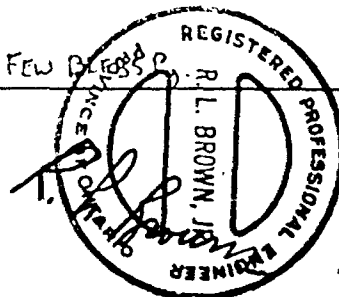
Core AXI

Line HL Coord. 2NDrilled by BRADLEY PROS

Core AXI

Azimuth 114 Dip -45Started 18 MAY 1971 Finished 18 MAY 1971D.O.H. R2
Page 1 of 2 Pages
Logged by ALFREDSON
Date 19 MAY 1971
Sampled by M. G. FORD

Petrographic	Description	Sample number	Mineralization
3.0'	OVERBURDEN		
3.0' - 20.0'	METANDESITE, DARK GREY-GREEN IN COLOUR EXCEPT WHERE BRECCIATED FRAGMENTS HAVE BEEN SURROUNDED IN PINKISH QUARTZ-CARBONATE MATERIAL. SCHISTOSITY VARIES AS SHOWN. CO ₂ vein 15.0' - 17.0'	#7934	60' MALACHITE STAINING 20' Py. blebs < 1/4 %
20'	CARBONATE FOUND ALONG S-SURFACES AND IS ESPECIALLY NOTICEABLE IN WEATHERED SECTIONS. MINOR SULPHIDES AS SHOWN. THE WHOLE SECTION (3.0 - 80.0) IS CHLORITISED AND CARBONITIZED.	#7935	19.02' QU BARREN
30'		#7936	23.5' OCCASIONAL py. Cube 27.1' 2" BAND OF (py. Py) 2 % { (Cpy) / (Py) } 1/2
32.0'	AS ABOVE BUT SILICIFIED 33.7' 2" QZ CO ₂ Vein Barren	#7937	31.5' BLEBS Py. 32.0' DISSEM. Py. for 6" < 1/2 % 34.6' STRINGER Py.
40'	GRADATIONAL BOUNDARY		39.2' MINOR DISSEM. Py. < 1/2 %
	1/8" CO ₂ Vein 430'	#7938	42.5' } DISSEM. Py. < 1 % 43.0' }
	1/8" " " 450'		
	1/8" " " 480'		
50'		#7939	56.5' DISSEM. Py. 1" BAND < 1 %
50'	WELL BRECCIATED AND INVADDED BY QUARTZ-CARBONATE MATERIAL. COLOUR LIGHT GREY FRAGMENTS SURROUNDED BY PINK Qtz-CO ₂	#7940	64.1' STRINGES Py.
70'	1/8" CO ₂ 67.0' - 68.5'		
	1/8" CO ₂ 71.0'		
	1/4" QU 74.0' Barren	#7941	77.0' BLEBS IN BAND
	1/4" CO ₂ 78.0'		
80'	30.0 - 100.2	#7942	81.2' BLEBS Py. 84.0' BLEBS Py.
90'	QUARTZ SERICITE SHIST WITH CARBONATE PROBABLY AN ALTERED RHYOLITIC TUFF. LIGHT GREY COLOUR. NUMEROUS CARBONATE VENTILS. BRECCIATED SOME SCHISTOSITY WHERE INDICATED.	#7943	89.0' FEW BLEBS

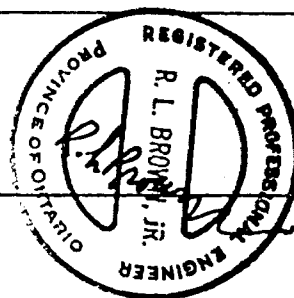


PROJECT ROSSELL

ASARCO EXPLORATION COMPANY OF CANADA LTD.

D.D.H. B2Area ROSSELL SINK
Line 4E Coord. AN
Azimuth 114 Dip 45
Dip term NILSuite 840, 20 King St., West, Toronto 1, Ontario
Drilled by BRADLEY BROS. Core AXI
Started 18 May 1971 Finished 18 May 1971Page 2 of 2 Pages
Logged by BRADLEY BROS.
Date 19 MAY 1971
Sampled by H. P. (2010)

Petrographic Description	Sample number	Mineralization
100.2' → 107.5' Qtz-CO ₂ Vein. PINK IN COLOUR. WELL SHEARED, SPECKLED APPEARANCE	7944	100.2' 1/2" STRINGS Py. 101.0' BLEBS Py. 102.0' 2 STRINGS Py. 104.0' STRINGS + MISM Py. cpy. 1% Py: 10
107.5' → 127.0' SCHISTIZED CARBONATIZED. META-ANDESITE. CHLORITIZED.	7945	107.4' BLACK METALLIC PATCHES IN Qtz 6' ? TENNANTITE 60% of Rock
127.0' → 130.0' Qtz-CO ₂ Vein.	7946	127.0' 1/2" py.
130.0' → 133.0' ANDESITE AS FOR 107.5-127.0	7947	133.0' 10% Py/cpy 70:30
133.0' → 137.5' Qtz-CO ₂ Vein	7948	137.5' 1/2" py. Vein 40% py.
137.5' → 142.0' ANDESITE AS FOR 107.5-127.0 WELL CARBONATIZED (25% of ROCK IS CARBONATE) ALONG S-SURFACES AND IN BRECCIATED PARTS.	7949	142.0' 1/2" py. Vein 40% py.
142.0' → 169.0' 1/2" CO ₂ 159.0'	7950	169.0' BLEBS ? NICCOLITE < 1/4%
169.0' → 177.0' APPRECIABLE CHLORITE DEVELOPMENT	7951	
177.0' → 185.9' 1/2" CO ₂ 171.0'	7952	
185.9' → 190.3' 1/2" CO ₂ 180.3'	7953	
190.3' → 198.0' END OF HOLE		



Good

1971 58

SHARRON LAKE
M-2605



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

#278

THE MINING ACT REPORT OF WORK

900

To the Recorder/of.....PATRICIA.....Mining Division
I,.....ASARCO EXPLORATION COMPANY OF CANADA LTD.....A22916
name of Recorded Holder Miner's Licence
SUITE 2300, 44 KING STREET WEST, TORONTO 1, ONTARIO
Post Office Address
do hereby report the performance of393..... days ofDIAMOND DRILLING.....
type of work

not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
PA 44954	84	PA 272343	22		
PA 44955	44	PA 272344	24		
PA 44956	44	PA 272349	21		
PA 44957	84	PA 272350	22		
PA 272336	24				
PA 272338	24				

All the work was performed on Mining Claim (s)PA 44954 and PA 44957
(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 Geological and Geophysical Survey - The names and addresses of men employed as well as dates. Type of instrument used in the case of geophysical survey. Reports and maps in duplicate must be filed 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)

DIAMOND DRILL CONTRACTOR: BRADLEY BROTHERS, NORANDA, P.Q.
FOREMAN: R. ST. ONGE, DRYDEN, ONTARIO

HOLE 1. - 45° 195.0' A Q WIRELINE 17-18 MAY 1971
HOLE 2. -45° 198.0' A Q WIRELINE 18-19 MAY 1971

Date JULY 28, 1971

R. L. Brown, Jr.
Signature of Recorded Holder or Agent
R. L. Brown, Supervisor
REGISTERED PROFESSIONAL ENGINEER
R. L. BROWN, JR.
ONTARIO

The Mining Act
Certificate Verifying Report of Work

I,.....RICHARD L. BROWN.....
APT. 201, 394 AVENUE ROAD, TORONTO 7, ONTARIO
(Post Office Address)

hereby certify:

1. 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.
2. That the annexed report is true.

Dated JULY 28, 1971

R. L. Brown
Signature
R. L. Brown, P. Eng.

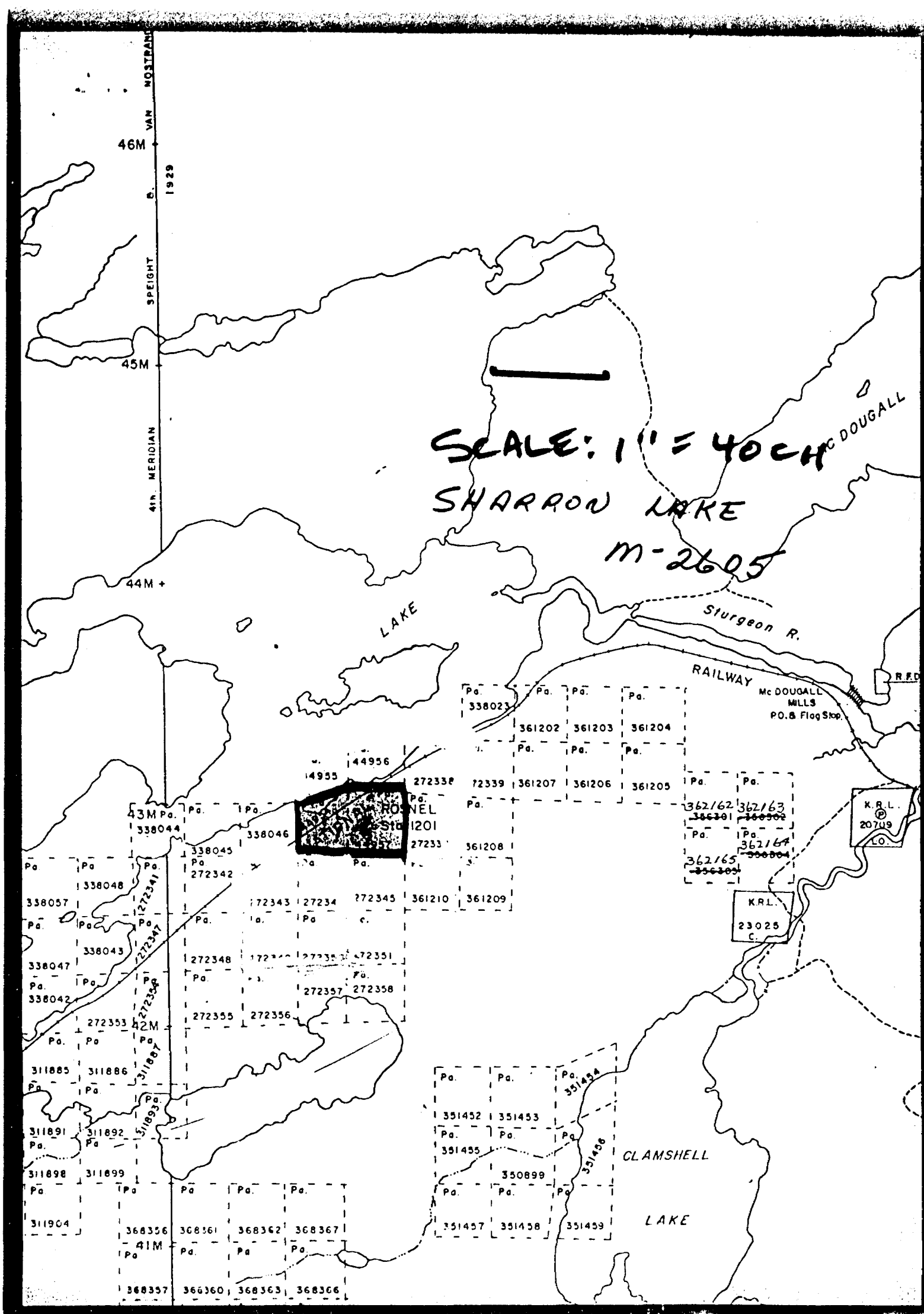
PATRICIA
MINING DIV.
RECEIVED
JUL 30 1971
AM 10 14 1971 PM 12 14 1971

Pa. 44954

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

5/P

198
195
593



SEE ACCOMPANYING
MAP(S) IDENTIFIED AS
52T/04NE-0014-A1#1

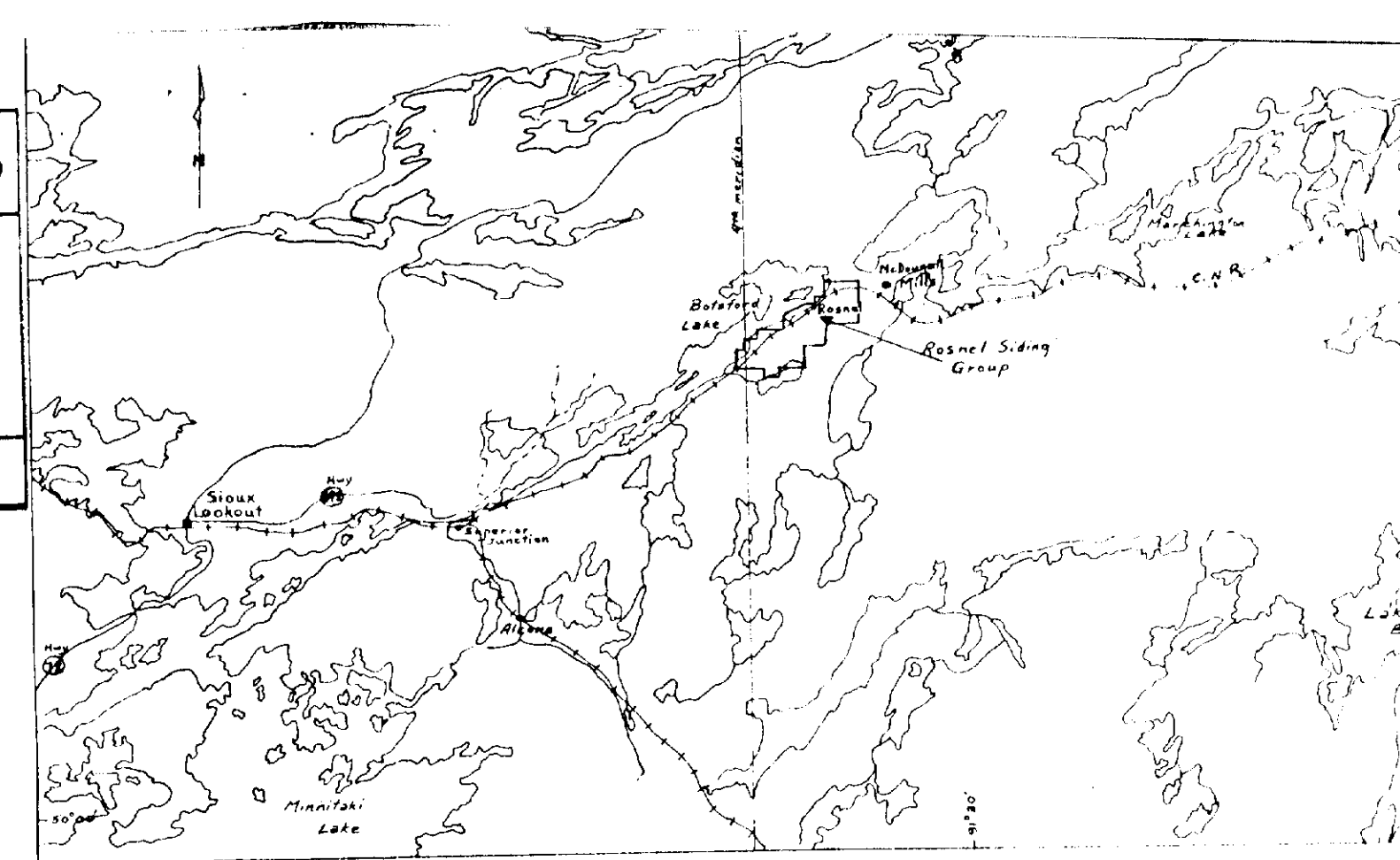
LOCATED IN THE MAP
CHANNEL IN THE FOLLOWING
SEQUENCE (X)

X		
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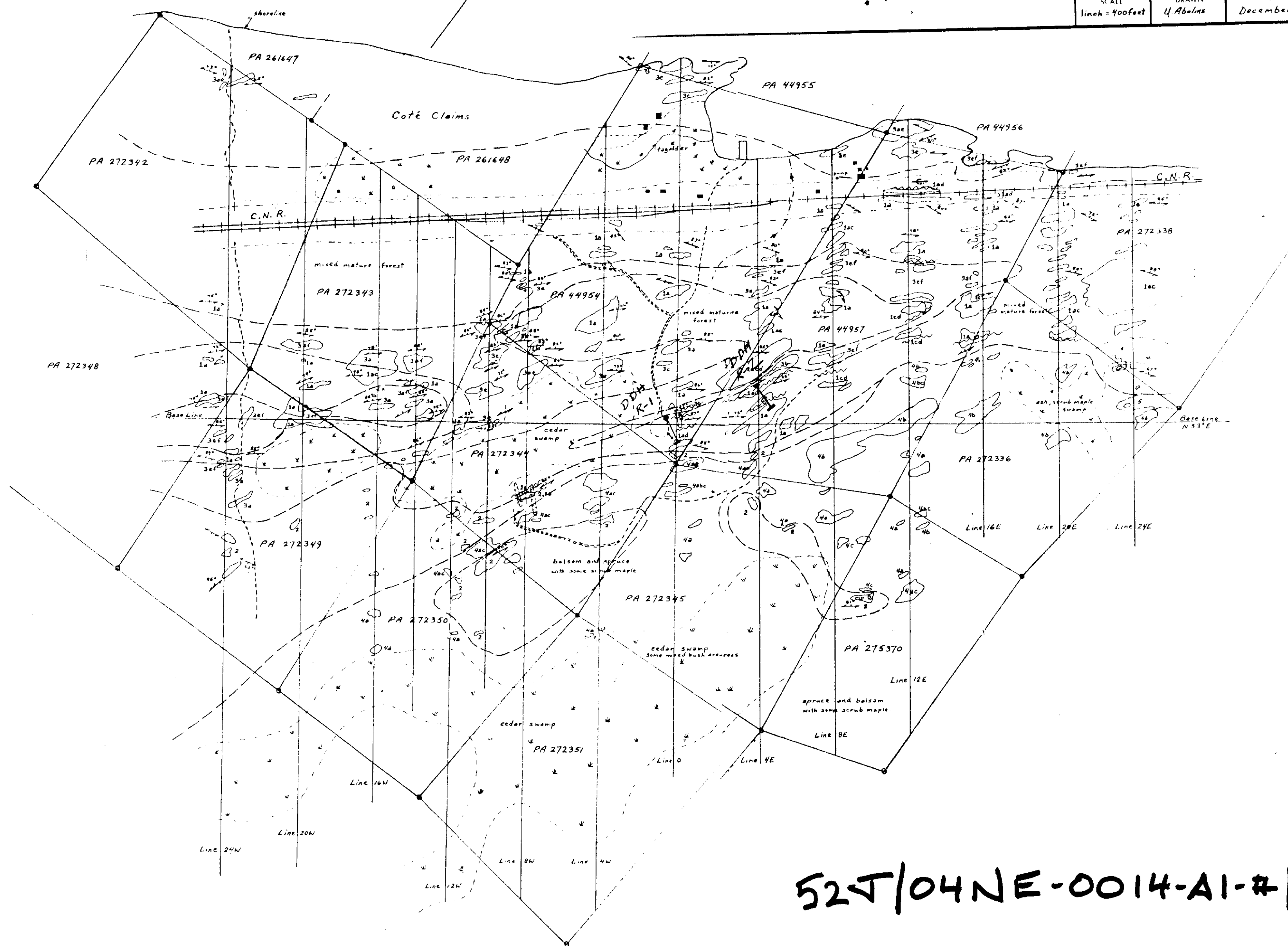
LOCATION SKETCH
- DIAMOND DRILLING -

FILE
PROVINCE
DISTRICT
TWP
N.T.S.

Asarco Exploration Company of Canada Limited		ASARCO	
GEOLOGICAL COMPILATION Rosnel Siding - Sharron Lake Area Patricia Mining Division			
SCALE 1 inch = 400 feet	DRAWN U. Abalos	DATE December 1970	FILE NO.



Location Map
Scale: 1 inch to 4 miles



SYMBOLS

- Glacial striae.
- Area of bedrock outcrop.
- Small bedrock outcrop.
- Strike and dip of contact.
- Schistosity, (vertical, inclined).
- Geological boundary, observed.
- Geological boundary, position interpreted.
- Trench or pit.
- Diamond drill hole.
- Claim post.
- Building.
- Railroad with right-of-way.
- Muskog road.
- Trail.
- Swamp.
- Stream, direction of flow.
- Intermittent stream, direction of flow.
- Shear zone.
- Sulphide occurrence.

LEGEND

- CENOZOIC
- PLEISTOCENE and RECENT
- Sand, gravel, clay
- UNCONFORMITY
- PRECAMBRIAN
- ARCHEAN
- Intrusive Rocks
- Felsic Igneous Rocks
- 5 Undifferentiated Granite
- INTRUSIVE CONTACT
- Mafic Igneous Rocks
- 4a Diorite
- 4b Quartz diorite
- 4c Porphyritic
- INTRUSIVE CONTACT
- Metavolcanics and Metasediments
- Basic to Intermediate Metavolcanics
- 3a Massive greenstone
- 3b Tuff
- 3c Amygdaloidal lava
- 3e Schistose greenstone and chlorite schist
- 3f Carbonitized
- Intermediate Metavolcanics
- 2 Massive carbonitized dacite
- Acid Metavolcanics
- 1a Carbonitized quartz eye sericite schist
- 1b Tuff
- 1c Altered and chloritized schist
- 1d Brecciated

52T/04NE-0014-A1-#1



52J04NE0385 52J04NE14A1 SHARRON LAKE