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SELCO EXPLORATION COMPANY LIMITED

GEOPHYSICAL REPORT

CLAIMS 200981 to 200990; 200992 to 201001; 201003 to 201037; 201119 to 201130; 211283; 211271 to 211275; 227333; 227010; 227012 to 227024; 227026 and 227040 PATRICIA MINING DIVISION

August 1970.

SELCO EXPLORATION COMPANY LIMITED

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CLAIMS 200981 to 200990; 200992 to 201001; 201003 to 201037; 201119 to 201130; 211283; 211271 to 211275; 227333; 227010; 227012 to 227024; 227026 and 227040. PATRICIA MINING DIVISION

This report describes results of a ground electromagnetic survey undertaken during January and February 1970 over <u>ninety-nine</u> claims in the vicinity of Sturgeon Lake, Patricia Mining Division. (N - SQUAW = AKE BREA

Location and Access

The claims are on a long peninsula between the North Bay of Sturgeon Lake and the Northeast Arm of Sturgeon Lake. Access can be had by the Ignace-Savant Lake highway, thence by canoe, or by float- or ski-equipped aircraft landing on Sturgeon Lake.

Description of Claims

The property consists of <u>ninety-nine contiguous unpaten-</u> ted mining claims as follows :-

> Nos. 200981 to 200990 inclusive; 200992 to 201001 inclusive; 201003 to 201037 inclusive; 201119 to 201130 inclusive; 231283; 213271 to 211275 inclusive; 211634 to 211640 inclusive; 211648, 227328, 227333, 227010, 227012 to 227024 inclusive, 227026 and 227040.

Survey Procedure

The claims have been covered by a grid of control lines comprising northerly trending baselines and easterly trending offsets at intervals of 400 feet, a total of 83.6 miles of lines.

Offsets have been picketed at intervals of 100 feet and ground electromagnetic readings have been taken along these lines

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t intervals of 100 feet.

The surveys were performed by Geosearch Limited under contract to Selco Exploration Company Limited. The party chief was R.H. Lacey and the surveys were performed between January 18 and February 16, 1970.

Electromagnetic Survey

The electromagnetic survey was performed using ABEM Minigun horizontal loop electromagnetic equipment, recording the in-phase and out of phase components of the secondary electromagnetic field. The frequency used was 3520 cycles per second and the separation between coils was 200 feet. Electromagnetic readings and conductor axes are depicted on the accompanying maps, Nos. 70-14 in seven sheets.

Results

The electromagnetic survey has indicated numerous conductors, particularly in the southern portions of the grid system. The stronger zones are:-

(a) The most striking conductive feature on the property is a long intermittent trend between lines 92 South and 44 North, a distance of 2.5 miles. The conductors along this trend are very strong and wide at the southern end and weaken towards the north. The southern conductors reach peak amplitudes of up to minus 64 percent in-phase, minus 5 percent out of phase and minus 67 percent in-phase, minus 12 percent out of phase. The zones undoubtedly indicate strong bedrock conductivity caused by graphite and/or sulphides.

(b) Line 68 South, 500 East to 72 South, 200 East. This is a

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phase, minus 13 percent out of phase and represents a strong bedrock conductor.

(c) Line 72 South, 1,000 East to 76 South, 900 East. This is a weaker zone but probably of bedrock source. Peak amplitudes are up to minus 12 percent in-phase, minus 7 percent out of phase.
(d) Line 80 South, 2550 East to 84 South, 2500 East. This is a weak zone under the lake, possibly a reflection of conductivity of sediments on the bottom.

(e) Line 72 South, 2900 East. This one line response has peak amplitudes of minus 13 percent in-phase, minus 6 percent out of phase.

(f) Line 56 South, 950 East to 48 South, 1,300 East. This is a distinct zone along 800 feet, becoming weaker to the north. The peak amplitudes on line 56 South are minus 12 percent in-phase, minus 6 percent out of phase.

(g) Line 32 South, 1,700 East. This one line response has peak amplitudes of minus 15 percent in-phase, minus 9 percent out of phase.

(h) Line 4 South, 1,700 East to 8 North, 1,700 East. This is a strong and definite conductor along 1,200 feet with peak amplitudes of up to minus 34 percent in-phase, minus 6 percent out of phase on line 4 North.

(i) Line 24 South, 1,800 West to 20 South, 1,800 West. This is a definite conductor along 400 feet with peak amplitudes of up to minus 32 percent in-phase, minus 7 percent out of phase on line 24 Souch.

(j) Line 12 South, 950 West. A definite one line response with

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eak amplitudes of up to minus 12 percent in-phase, minus 4 percent out of phase.

(k) Line 4 South, 700 West to line 0, 500 West. These are two parallel conductor axes of moderate conductivity. Peak amplitudes are up to minus 10 percent in-phase, minus 4 percent out of phase.
(1) Line 4 West, 1,650 West to 8 North, 1,400 West. A distinct zone along 400 feet with peak amplitudes of up to minus 28 percent in-phase, minus 10 percent out of phase.

With the exception of zone D, all the above conductors probably have bedrock sources consisting of graphite and/ or sulphides.

J.S. Auston, P.Eng., Ontario.

Toronto, August 20, 1970.

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DEPARTMENT OF MINES AND NORTHERN AFFAIRS MINING LANDS BRANCH

February 16th. 1971.

Mr. W.A. Buchan, Mining Recorder, Court House, Sioux Lookout, Ontario.

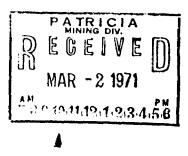
> Re: Our File No. 2.17 Mining Claim No. PA.200981 et al, Squaw Lake Area

Dear Sir:

The Geophysical (Electromagnetic) assessment work credits as listed with my Notice of Intent dated February 1st, 1971, have been approved as of the date above. Please inform the recorded holder and so indicate on your records.

Yours very truly,

Fred W. Matthews, Supervisor, Projects Section.





- c.c. Selco Exploration Co., Ltd., 1201 - 121 Richmond St., West, Toronto 110, Ontario.
- c.c. Mr. H.L. King, Resident Geologist, 808 Robertson St., Kenora, Ontario.

PA-200981

PROJECTS SECTION DEPARTMENT OF MIN	IES AND NORTHERN AFFAIRS FILE:
TECHNICAL ASSE	SSMENT WORK CREDITS
Recorder Holder Selco Explo	oration Company Limited
Township or Area Squaw Lake	Area
Type of Survey and number of Assessment Days Credits per claim	Mining Claims
GEOPHYSICAL Airborne Ground X	
Magnetometerdays	PA. 200981 to 200990 Inclusive
Electromagnetic	200992 to 201001 Inclusive
Radiometricdays	201003 to 201032 Inclusive
	201034 to 201037 Inclusive
GEOLOGICALdays	201119 to 201121 Inclusive
·GEOCHEMICALdays	201123 to 201130 Inclusive
SECTION 84 (14)days	211283
Special Provision X Man days	211271 to 211275 Inclusive
	211634 to 211640 Inclusive
NOTICE OF INTENT TO BE ISSUED	211648
Credits have been reduced because of	227328
partial coverage of claims.	227333
Credits have been reduced because of corrections to work dates and figures of	227010
applicant.	227012 to 227024 Inclusive
X NO CREDITS have been allowed for the following mining claims as they were not	227026
sufficiently covered by the survey:	227040
PA. 201033	201122 PATRICIA
·	RECEIVE
	FEB - 8 1971
	7.B.0.10.11.12.1.2.3.4.5
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\$¥. 410 Ø H 415 11219375 105 10004 Ø Var V fat " Int 7.0 ||414 TB. 11087 4 X 4 X 0 234307 236390 235+62 111403 AL 633 19 428 2353 85 Ô ... 25 745 © Ø 2353271 Ø, 213410 10 4294 Ø \$35336 235328 . 11416 © \mathcal{X} V PA. TB 1471 593 20181 20181 • • • • w. 218411 2/3533 1 12393374 804 Ö T.8 10628 Ø 18 10627 © 78 1472 218415 25032 1 218412 227714 44133 227701 644 218417 218418/ 230323 -76 0 A 137 5 227710 227713 Sturgeon e 13e D 216420 255336 22778 211 121740 235350 222522 22552 0 16131 © 200000 71. 127772 2007 200923 FIORE TOF005 00000 210421] 27039 1 235357 235358 235358 235358 23536 200000 120000 120000 Parties 10000 1 M. 200993 120000 218424 235366 227/115 127030 235364 285383 25351 235365 218423 218422 1n. - 5 12112795 Pa 201002 235387 235300 227030 218427 218428 218425 18425 287 201003 285389 28434 248780 201004 2003 3" 211676 2 0 791 28678 M BIN BASE LINE LEON 211873 20/24 20174 131 227033 227034 211244 /m."(/2 12X328 211679 1211677 2 3 5 3 9 9 20 20 120 20 120 120 AT 201450 227035 e-1285". 211301 12 14 02 243863 227037 2116 29683 1201017 [201018 20101 unm 227324 5004/227005 227095 1201022 201023 PA. . Jahres 227329 227330 201021 211688/211690 11268 22700 Joor 1227003 227000 227000 201 120 000 20/020 247982 243461 192 m 227331 243838 1242840 22733 0. 50 201031 201021 201030 201032 1227333 12273 6 124364 1243930 1243/641 1243827 1243850 243829 227334 1201054 1200053 12019 243859 21135 T8 10629 243849 227339 243837 243830 Ø. 211630 28631 180 tv 430 5 243845 24344 243420 2450 251 243431 1243436 127396 227 541 227 542 w 73 AL 767 Ø lande / 200 538 AL 535 2N633 21/632 227345 7.8. 1511 LL 769 2/67 18,826 223906 227344 227343 243424 243824 243832 243 847 243 835 (M3844 i AL 768 T8897 0 18 57 Ø 223901 1227247 (12273 4 1943222 2040 1211042 A121042 1227240 243339 243337 21841 M. A. I.PA. Nã O M. 227351/1227350 12270 50 1227059 27929 7227041 1227042

