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REPORT ON GEOLOGICAL MAPPING AND GEOCHEMICAL (SOIL) SAMPLING SURVEYS ON THE EAST PUKASKWA CLAIM GROUP FOR CARIBBEAN RESOURCES LTD. EXMAR RESOURCES LTD. AND RED BARN DISTRIBUTION CENTRES LTD.

Wawa, Ontario January, 1988 SEYMOUR M. SEARS, B.A., B.Sc. Geologist

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In Back Pocket

SUMMARY

consisting of Ground Magnetometer and VLF-EM A program surveys, Geological Mapping, Soil Geochemical sampling and Prospecting has been completed on the above claim group on behalf of the owners - Caribbean Resources Ltd., Exmar Resources Ltd., and Red Barn Distribution Centres Ltd. The program was very successful in outlining a relatively broad east-northeast trending band of favourable geology accompanied by anomalous gold Values from rock samples values in both rocks and soils. routinely collected from sulphide bearing siliceous units within this zone range from trace to 0.54 oz/ton Au. Numerous soil geochemical anomalies were also detected, with values up to 1180 ppb Au.

A follow-up work program consisting of local detailed soil geochemical sampling, prospecting and hand trenching followed by a modest drill program is strongly recommended.

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INTRODUCTION

An exploration program consisting of geological mapping, prospecting and rock sampling, and soil geochemical sampling was carried out on a portion of a 234 claim group located in the Mishibishu Lake Greenstone Belt of northcentral Ontario.The work was completed on behalf of Caribbean Resources Ltd., Exmar Resources Ltd., and Red Barn Distribution Centres Ltd., all of Vancouver, B.C. The claims are held under an option agreement from the owner, Ms Ruth Ditto of Suite 1030 - 609 Granville Street, Vancouver, B.C.

The surveys were conducted for the purpose of locating economic deposits of gold. The program was designed by H.M.Jones and Associates Inc. on behalf of the three companies, and carried out by personnel of Sears, Barry and Associates Inc. of Wawa, Ontario. The work program with which this report is concerned was carried out between June 24th, and September 8, 1987.

PROPERTY, LOCATION AND ACCESS

The Claim Group is located in David Lakes Map Area, Sault Ste. Marie Mining Division, Ontario (Fig 1). It is centered ten (10) miles west of Mishibishu Lake on NTS sheet 42-C-4 (Pukaskwa River Map Sheet) at longitude 85 40', latitude 48 04'. This point is approximately forty (40) miles west of the town of Wawa.

The property consists of 234 contiguous, unpatented mining claims. They are shown on M.N.R. Claim Map G-3765 (David Lakes), a portion of which is included in this report as Figure 2. The





claims have various recording dates during November and December of 1984, are currently in good standing, and are numbered as follows:

The only feasible means of access to the property is by helicopter. Helicopter service is currently available from Wawa (40 miles) and Marathon (60 miles). An all seasons access road to the Magnacon Gold Prospect at Mishibishu Lake provides a means of mobilizing equipment and supplies to within twelve (12) miles of the property.

PHYSIOGRAPHY

Relief on the property varies from relatively flat and undulating to extremely rugged. Subvertical cliffs up to 200 feet in height occur locally. Lesser cliffs, from 10 to 20 feet in

height and subparallel to regional geological strike (60 to 70 degrees) are abundant.

Overburden is very shallow over most of the area examined, although it is somewhat more extensive in the northern and western parts of the claim group. It is typically composed of a thin A-Horizon, a well developed B-Horizon and relatively thin C-Horizon. The thicker overburden in the north and west parts of the claim group is generally made up of glacial material, and contains considerable large erratic boulders. Thick gravel, sand and clay deposits locally flank the course of the East Pukaskwa River, a major water system which crosses the property. All minor streams drain into the East Pukaskwa, and ultimately into Lake Superior.

Vegetation consists of birch, poplar, occasional maple and dense underbrush on the hills, mixed forest (budworm killed balsam fir, spruce, and pine) in lower land, and cedar, alder and tamarack in swampy areas.

PREVIOUS WORK

The East Pukaskwa Area has had very little serious exploration activity in the past. Essentially all of the work reported prior to the current acquisition of the claims has been directed towards the search for base metals. Within the area covered by the current claim block, the results of only two minor work programs are recorded. These include:

1977-78 <u>Noranda Exploration Co. Ltd.</u> - Completed ground Magnetometer and EM surveys, presumably as followup to an unrecorded Airborne Geophysical survey in two small areas marginally within the southern

portion of the claim group. No extensive follow-up work was completed.

1983

Cotton Valley Resources Ltd. - Flew a Helicopterborne Magnetic, Electromagnetic and VLF-EM survey. No follow-up work was reported.

Following the acquisition of the claims by the current owners, a new Airborne Geophysical Survey was commissioned and the resulting data recorded for assessment work (1985). During 1986 a brief reconnaissance program was carried out by H.M.Jones and Associates on behalf of the owners. The results of this work were not recorded separately, but are included in this report.

There has been minor work reported on adjacent property since 1984 that is of some significance, but is generally of the reconnaissance nature.

Geological mapping of the East Pukaskwa portion of the Mishibishu Greenstone belt was completed on behalf of the geological branch of the Ontario Government on at least two different occasions. These include Bennett and Thurston (1977), and a more intensive mapping program not yet published in its final form (Bowen, 1985, 1986, and Reid, 1987).

REGIONAL GEOLOGY

The general geology of the Mishibishu Lake Greenstone Belt has been described most recently by Reid (1987) in the 1987 Summary of Field Work by the Ontario Geological Survey. Reids general geological map is reproduced below without editing as Figure 3. As can be seen, the belt is a typical Archean



Fig 3. General Geology of the Mishibishu Lake Greenstone Belt (Reproduced without editing from Reid, 1987)

Greenstone Belt, consisting of sequences of mafic to felsic metavolcanics and chemical and clastic metesediments cut by mafic to felsic dykes and sills and bound by granitic plutonic and These rocks batholithic rocks. are cut by an unusually high number of diabase dykes. The belt is described as being in the form of a broad anticline. It is flanked on the north and south by large granitic batholiths (Northern Batholithic Complex and Southern Batholith), and disrupted in the center by the intrusion of two granitic plutons (the Central Pluton, and the Bowman Lake Pluton). This Central Pluton divides the Greenstone Belt into two distinct bands. The northern part of the belt contains a higher proportion of sedimentary rocks, whereas southern part the contains more mafic volcanic rocks and oxide iron formations.

At the present time, the targets of most economic significance in the area are a number of "deformation zones" that are locally accompanied by intense alteration as well as

sulphides and gold mineralization. The zones that have been identified to date are shown on Reid's map (Fig 3). The known gold mineralization in the northern part of the belt (eg. Magnacon) is generally accompanied by arsenopyrite, whereas that found in the southern part reportedly has no arsenopyrite association.

The East Pukaskwa Claim Group of Caribbean Resources et al is located near the western end of the northern part of the belt (Fig 3).

PROPERTY GEOLOGY

The East Pukaskwa claims examined in this program are underlain by three broadly defined sequences of rocks trending 070 to 075 and dipping variably to the north. These three sequences are recognized on a regional scale at least as far east as the Magnacon Au deposit on the north side of Mishibishu Lake. They include:

- 1) The Northern Volcanic Sequence
- 2) The Central Sedimentary Sequence
- 3) The Southern Volcanic Sequence

The <u>Northern Volcanic</u> sequence consists mainly of highly carbonated mafic to intermediate volcanics, with local lenses and narrow bands of felsic volcanics and interflow sediments. Felsic dykes and sills, although rare in the east, are quite common in the western half of the area. A large body of granite marks the

The south contact is highly north boundary of this sequence. deformed and locally ambiguous. The Central Sediments consist of a core of polymictic conglomerate flanked by a wide band of greywacke, arkose and argillaceous shales on the south and a narrower more siliceous sequence of fine grained clastic and volcaniclastic sediments on the north. The Southern Volcanics are made up of a mixed sequence of mafic to felsic volcanics with appreciable interflow sediments in the northern part underlain by a thick sequence of pillowed to massive mafic volcanics in the The Southern Volcanic sequence is characterized by south. abundant Iron Formation. The north contact of the Southern Volcanics is often ambiguous but is generally marked by a very prominent and persistent felsic sill and dyke complex up to three hundred metres wide. The south contact occurs only in the extreme southeast corner of the property, where it is bounded by a coarse grained granite.

The mapping program utilized six (6) major rock units. These include:

- 1) <u>Mafic to Intermediate Meta-Volcanic Rocks</u> These rocks are pale to dark green, fine to coarse grained, locally feldspar porphyritic, and variably deformed. They are highly amphibolitized adjacent to felsic plutonic rocks. Four subdivisions were dominant, including 1a) massive to foliated mafic flows; 1b) pillowed flows; 1c) mafic tuffs; 1d) pillow and flow breccias.
 - 2) Felsic to Intermediate Meta-Volcanic Rocks These rocks are pale green to grey, fine grained to coarse tuffaceous, thinly laminated and variably deformed. They were divided into two subdivisions, ie. 2a) Massive to foliated dacitic to rhyolitic flows; 2b) tuffaceous rocks.
 - 3) <u>Clastic Metasedimentary Rocks</u> These rocks are pale to dark grey, thinly laminated to massive, fine to coarse grained to conglomeratic, variably deformed and locally

quartz porphyritic. They were divided into two types, although more detailed division may be warranted. These include 3a) Arkose, wackes, argilllites, siltstones, mudstones, and shales; 3b) Conglomerate.

- 4) <u>Mafic to Intermediate Intrusive Rocks</u> These rocks are rare in the mapped area, but more common in adjacent areas. They consist of local sills and feeder dykes within the mafic volcanic rocks in the northern and southern part of the claim block.
- 5) Felsic to Intermediate Intrusive Rocks These include 5a) Fine grained dykes and sills; 5b) Feldspar Porphyry; 5c) Quartz Feldspar Porphyry; and 5d) Coarse grained massive granite.
- 6) <u>Mafic Dykes and Sills</u> These include both magnetic and nonmagnetic, fine to medium grained to porphyritic, undeformed rocks, that are almost exclusively 6a) Diabase; but occasionally 6b) Lamprophyre.

The geological information is shown on the accompanying three maps (Maps 1, 2 and 3). Structurally, the most important features are two zones of strong shearing oriented sub-parallel to the regional strike (70 to 80 degrees). One of these is coincident with the contact between the northern volcanic and the central sedimentary sequences. It is characterized by a strong schistosity, rotated conglomerate clasts, crenulation folding, and local highly altered zones (silica, carbonate, sericite, chlorite, blue quartz eyes). The second zone occurs in the south part of the area mapped. It is generally associated with a contact between mafic and felsic volcanic rocks of the southern volcanic sequence. It was not fully examined during this mapping program, since it occurs primarily on claims which were immediately south of the project area, although within the overall claim block. Both of these shear zones are shown as deformation zones on Figure 3.

Although regional studies suggest that the sedimentary rocks in this area are part of a synclinal structure (Bowen, 1985, 1986; Reid 1987) this was not confirmed by local field evidence. There is a general dip towards the north (averaging 55 to 65 degrees) of almost all exposed rocks within the mapped area. Local structural features within the metasedimentary rocks are inconclusive at best, but there does appear to be a general north facing pattern in the majority of rocks on both sides of the proposed synclinal axis. Also, the rocks which constitute the northern volcanic sequence have very little in common with those of the southern volcanic sequence, in appearance nor in their accessory mineral content. Further work including whole rock analysis is necessary before any conclusions can be drawn.

Within the East Pukaskwa claim block, three environments favourable for economic gold mineralization are recognized. The most promising of these is the highly deformed contact zone between the Northern Volcanic and the Central Sedimentary sequences. Within the southern flank of this zone are found local silicified lenses with associated quartz stringers and veins, as well as concentration of pyrite and arsenopyrite. These silicified zones almost always have a close spacial relationship with rocks containing distinctive blue quartz eyes. The host rock varies from a conglomerate, to graphitic shale horizons within conglomerate, to what appears to be a fine grained felsic volcanic. The blue guartz phenocrysts and the associated quartz veins and stringers may represent structurally controlled alteration zones. Most of the soil geochemical

anomalies located to date as well as the encouraging assays in rock samples are from this general location.

Three rock samples containing highly anomalous gold values have been located within this general zone. They include sample # 16221 (0.139 oz/ton Au) located at 2210 North on Line 625 West (East Grid, Map IA); # 16070 (12,080ppb Au) located at 270 North on Line 1375 East (North Grid, Map 1C) and # 16069 (18,460 ppb Au) located at 768 North on Line 1625 East (North Grid, Map 1C).

A second environment for potential gold mineralization is the felsic sill and dyke complex associated with the contact between the Central Sedimentary sequence and the Southern volcanics. This complex locally contains impressive zones of close spaced narrow quartz stringers and associated pyrite and arsenopyrite mineralization. Although only low gold values have been obtained from these zones where sampled to date, further sampling appears warranted. Similar although less extensive felsic dykes have been observed in the southern portion of the Northern Volcanic sequence.

The Iron Formations in the Southern volcanic belt constitute another target which deserves additional attention. This environment should be evaluated in search of polymetallic massive sulphide deposits. Scattered weak gold anomalies in the southwest corner of the project area could represent this type of target.

Approximately 250 rock samples were collected as part of the geological mapping and routine prospecting program. The

locations of these samples are shown on the accompanying maps (1, 2, & 3), and descriptions and analytical data enclosed in the appendix.

GEOCHEMICAL (SOIL) SAMPLING SURVEY

Because of problems associated with crossing the East Pukaskwa River, and the desire to tie in to and utilize orientation grids established in 1986, three separate grids were established on the property for sample collection. East - west baselines were cut to provide control and easier access to the large grid system. North - south crosslines were flagged in at 100 metre intervals, using hip-chain and compass methods, with stations being established every 25 metres.

Soil samples were collected from the B-Horizon at the above stations. The samples were collected by grub-hoe from depths of 3" to 15". They were placed in kraft soil sample bags, dried and shipped to Acme Analytical Laboratories in Vancouver for analyses. At the laboratory, they were sieved to -80 mesh fraction and analysed for Gold, Silver, Copper, Lead, Zinc, and Arsenic. The analytical method involved digesting a .500 gram sample with HCl-HNO3-H2O (3-1-2) for 1 hour, and analysing for all but gold by an inductively coupled plasma analyser (ICP). The gold analysis was completed by means of an aqua-regia digestion of a 10 gram sample, with an Atomic Absorption technique. The resulting data was plotted at a scale of 1:500 and is included with this report as Maps 2A, 2B, 2C (As/Au); 3A, 3B, 3C (Pb/Zn), and 4A, 4B, 4C (Cu/Ag).

A total of five thousand, two hundred and twenty (5220) samples were collected. Approximately 135.5 km of flagged line was traversed.

DISCUSSION OF RESULTS

As can be seen from the accompanying maps, the majority of the anomalous gold values appear to be coincident with the northern part of the Central Sedimentary Sequence, immediately adjacent to its sheared contact with the Northern Volcanics. Furthermore, there are two distinct types of anomaly in this zone. One of these consists of anomalous gold accompanied by high arsenic values. The other is a series of linear gold anomalies located several hundred metres south of the above contact. It is quite likely that these anomalous trends reflect anomalous gold values in bedrock.

There are numerous other scattered individual and/or small clusters of anomalous gold values that may warrant additional follow-up work. Among those are a few weak values located in the southwest corner of the West Grid (Map 2B). Although sampling coverage is incomplete in this area, the presence of siliceous felsic volcanic rocks, accompanied by local occurrences of massive sulphide stringers and lenses suggest that this part of the claim block should be carefully evaluated.

The only other type of anomaly that may have economic significance as delineated by this survey is an extensive zinc anomaly that extends accross the north margin of the Southern Volcanic Sequence. The highest value within this anomaly is 1672

ppm Zn, at 1350 South on Line 1 West (West Grid, Map 2B). This value overlies a sphalerite bearing quartz lens exposed in the riverbank near this location. A thorough prospecting program may be warranted along this trend, especially since it is appproximately coincident with a deformation zone identified by Reid, 1987.

CONCLUSIONS & RECOMMENDATIONS

A Soil Geochemical Program has detected anomalous gold values in soil samples collected over a band of sedimentary rocks in the Mishibishu Lake Greenstone Belt. A number of rock samples collected from the same general area have also been found to contain encouraging anomalous gold values. A program consisting of detailed soil sampling, prospecting and rock sampling, detailed geological mapping, stripping and trenching followed by a modest drill phase should be carried out in this area. The remainder of the 234 claim block should be covered by a similar reconnaissance style exploration program during the next field season.

Respectfully submitted,

Seymon San

Seymour M. Sears, B.A., B.Sc. Geologist

Wawa, Ontario January, 1988

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Miscellaneous Assessment Files of the Wawa Office of the Ontario Geological Survey.

STATEMENT OF QUALIFICATIONS

- I, Seymour M. Sears, of Wawa, Ontario do certify that:
- I am a consulting geologist for Sears, Barry and Associates, P. O. box 2058, Wawa, Ontario.
- I am a B.Sc. Graduate in Geology and a B.A. Graduate in Psychology from Mount Allison University, Sackville, New Brunswick.
- 3. 1 have been practicing my profession continuously since 1972.
- 4. I am a Fellow of the Geological Association of Canada.
- 5. I have not received nor do I expect to receive any interest, direct or indirect in the Claims of Caribbean Resources Ltd., Exmar Resources Ltd., Red Barn Distribution Centres Ltd., or any affiliated companies.

Respectfully submitted,

Somon Sean

22 Caverhill Street P.O. Box 2058 Wawa, Ontario POS 1K0 January, 1988 Seymour M. Sears, B. A., B. Sc. Geologist

APPENDIX I

ROCK DESCRIPTIONS

		volcanic
AD-1200 12		
16440	15 4 00 10	
10442	15 + 20 W	sheared conglomerate with
	2 7 45 5	minor by in matrix
AP-2308.2		
16443	15 W 12 +	sheared weakly chloritic
	12 + 90 S	mafic unit with gtz stringers
		py and cpy, close to felsic
		diabase dykes to north
AP-2308.3		
16444	15 W 17 +	subarkosic wacke with minor
	10 S	ру
AP-2308.4		•
16445	14 + 85 W	subarkosic wacke with minor
	18 + 65 S	py and quartz stringers
VD-2300 E	1	
16446	14 + 95 W	mefic volcenic unit with
10110	11 + 75 g	minor by and cut along
	11 750	atrike by felgic dyke
		buine by terbic dyne
AP-2308.6		
16447	13 W. 3 +	large angular quartz boulder
	35 S	with py sitting on and around
		greywacke oc on cliff, qtz is
		sucrosic, grey with minor
		black colour
44 6 5 - 16 -16 -16		
SP-103		
16448	075W, 1150N	Quartz stringers in sheared
		metasediment; minor pyrite
SP-104		
16449	100W 1150N	Silicified rome in felgia
*****	1004/ 11000	duka: trong nurita

strike in an intermediate

٥C

SP-36 16351	1375 S. L-100 W	chin sample accross 0.8m
	(Grid #2)	wide silicifed hanging wall to quartz vein (16350)
SP-37		
16352	1340 S, L-100 W (Grid #2)	silicified zone containing quartz stringers and pyrite; 5m north of quartz vein (16350)
SP-38		$\left \left(\frac{1}{2} \right) - \frac{1}{2} \right = \left \left(\frac{1}{2} \right) - \frac{1}{2} \right$
16353	1340 S, L-100 W (Grid #2)	gassanous interflow sediment with pyrite; 35m north of quartz vein (16350)
TL		
16356	2125 S, L-100 W (Grid #2)	black, siliceous rock (rhyolite); 3% fine disseminated pyrite
JG		
16357	550 W, 900 S (Grid #2)	quartz stringers in meta- sedimentary rocks (smokey to hematite stained)
JG		
16358	(Grid #2)	5-10 % pyrite in a moderately silicified and sheared mafic volcanic
JG		
16359	500 W, 350 S (Grid #2)	massive arsenopyrite lens in narrow quartz stringers cutting an arkosic meta- sediment

AP-1008-10		
16249	1615 S, L-400 W (Grid #2)	felsic dyke with minor disseminated pyrite
16299	L-5 W, 900 N (Grid # 2)	sheared mafic volcanic with qtz stringer and pyrite and carbonate
16302	175 W, 725 N (Grid # 2)	qtz stringer cutting sheared mafic volcanic minor carbonate and pyrite
16309	L-1 W, 0+10 S (Grid # 2)	quartz stringer in sheared greywacke, minor pyrite
16311	L-1 W, 420 N (Grid # 2)	sheared, chloritized greywacke, minor pyrite, carbonate; weakly folded
16317	L-1 W, 295 N (Grid # 2)	sheared conglomerate with minor pyrite in matrix
16323	L-12 W, 900 N (Grid # 2)	quartz stringer and veins in sheared mafic volcanic (2% pyrite)
16324	L-12 W,, 900 N (Grit # 2)	quartz stringer in sheared mafic volcanic, 2% pyrite
16325	L-12 W, 900 N (Gru # 2)	quartz stringer and wall rock, <5% pyrite (mafic volcanic)
SP-33		
16348	1375 S, L-100 W (Grid #2)	0.8m chip sample accross silicified zone on south side of quartz vein
GD-24		
16349	1375 S, L-100 W (Grid #2)	chip sample accross 0.8m silicified footwall to spholente bearing quartz vein (16350)
SP-25		
16350	1375 S, L-100 W (Grid #2)	chip sample accross 0.6m wide section of quartz vein containing pyrite, sphalerite, and cholcopyrite

SP-47		
16238	490 N, L-1000 ₩ (Grid #2)	silicified, amphibolitized mafic volcanic with 2-5% pyrite
SD-48		
16239	165 N, L-1700 W (Grid #2)	quartz lenses and boudins in silicified and sheared metasediment; minor pyrite
RR-9		
16240	165 N. L-1300 W	chloritized mafic volcanic
	(North grid)	with 2-3 % pyrite
RR-10		
16241	1020 N, L-2000 E (North grid)	guartz cobble from conglo- merate; cobble contains 2-5% dissminated pyrite
RR-11		
16242	350 N, L-2620 W (Grid #2)	silicified breccia with 2-5% pyrite, trace copy
16243	375 S, L-1600 W (Grid #2)	guartz stringers in silici- fied metasediment rusty stained
AP-1008-1		
16244	315 W. 020 S	siliceous zone in grevwacke
	(Grid #2)	with up to 2% pyrite, trace copy
AP-1008-3		
16245	315 W. 385 S	quartz stringers (2-4mm wide)
	(Grid #2)	in greywacke, minor pyrite
AP-1008-4		
16246	300 W, 420 S	ankeritized biotite schist
	(Grid #2)	
AP-1008-7	•	
16247	300 W. 1095 S	silicified zone in felsic
	(Grid #2)	sell containing 2-5% pyrite, scarce cholcopyrite and arsenopyrite
AP-1008-8		
16248	305 W. 1790 S	intermediate volcanic:
	(Grid #2)	brecciated; contains
		scattered pyrite

RR#7		
16227	922 W, 010 N (Grid #2)	sheared chloritic meta- sediment or mafic volcanic with quartz stringers and 2-5% cubic pyrite
RR#8		
16228	615 W, 040 N (Grid #2)	conglomerate with quartz cobbles and 2-5% pyrite; flont but close to in place
SD-39		
16229	1455 S, L-900 W (Grid #2)	felsic dyke with py and Aspy as coating along fracture
SP-40		
16230	950 W, 1760 S (Grid #2)	silicified mafic to interme- diate volcanic; sheared; 3- 5 % pyrite
SP-41		
16231	1355 S, L-800 W (Grid #2)	grey quartz stringer in felsic dyke; minor pyrite
SP-43		
16232	785 S, L-900 W (Grid #2)	grey quartz stringer in boulder; contains tourmaline chlorite and rusty staining
16233	2750 W, 2200 S (Grid #2) shore of lake	chips from quartz vein in excess of 2' wide; smokey quartz
SP-44	· · ·	
16235	220 N, L-900 W (Grid #2)	chloritic metasediment with <2% pyrite
SP-45		
16236	890 W, 935 N (Grid #2)	quartz lens in chloritic metasediment or metavolcanic rock, minor pyrite
SP-46		
16237	1020 W, 790 N (Grid #2)	quartz carbonate stringer in sheared mafic volcanic; < 2% pvrite

16089	240 N, 0+25 W (North grid)	chips from small o/c of conglomerate with scarce sulphides
16090	220 N, L-85 E (North grid)	chips from small o/c of conglomerate with abundant pyrite (5%) in matrix and in cobbles
16091	200 N, L-125 E (North grid)	conglomerate with pyrite and blue guartz eyes in cobbles and pyrite in matrix, 2-3% pyrite
16092	200 N, L-125 E (North grid)	same as 16091 except from a boulder 2-3% pyrite
16093	1590 S, L-600 W	chlorite-carbonate schist
16094	1565 S, L-700 W (Grid #2)	sheared mafic volcanic, amphibolitized, quartz stringers, pyrite (< 3%) and carbonate
16095	815 S, L-600 W	sheared greywacke, slightly silicified, minor pyrite
16096	220 S, L-600 W (Grid #2)	qtz stringers in sheared greywacke with pyrite and carbonate
16097	1545 S, L-500 W	amphibolitized mafic volcanic with pyrite (< 2%) and quartz sweats
16098	1410 S, L-500 W	five grained felsic dyke, minor desseminated pyrite
16099	1590 S, L-500 W	amphibolitized-chloritic mafic volcanic with minor pyrite
RR#6		
16226	400 N, L-500 E (Grid #2)	vertical guartz vein up to 0.2m wide containing 2-3% scattered pyrite in wall margins

	· · · ·	
16031	340 S, L-300 W	12cm wide quartz vein parallel to schistosity, minor pyrite
16032	635 S, L-300 W	siliceous zone with narrow smokey qtz stringer and minor pyrite, near contact with felsic dyke in metasediment
16033	645 N, L-300 W	sheared mafic volcanic with chlorite, carbonate and minor pyrite
16034	125 N, L-300 W	sheared and chloritized greywacke
16035	570 N, L-400 W	mafic volcanic unit with qtz stringers, carbonate and minor pyrite
16036	1900 S, L-500 W	narrow intermediate tuff with carbonate, and qtz stringers, minor pyrite
16082	500 N, L-12 W (Grid #2)	felsic to int. dyke, strange looking rock, minor pyrite
16083	875 N, L-27 W	brotite schist, minor pyrite
16084	1735 S, L~16 W (Grid # 2)	quartz vein, 0.3m wide in sheared metasediment, scarce pyrite, hematite streaks
16085	1570 S, L-17 W (Grid #2)	narrow (0.1m) qtz stringers in felsic dyke, stained but no visible sulphide
16086	1430 S, L-1760 W (Grid #2)	2% sulphide in guartz stringers associated with a narrow felsic dyke
16087	365 N, L-1140 E (Grid #2)	scarce sulphide in altered sediments adjacent to felsic dykes
16088	Baseline, 1815 E (North grid)	conglomerate with blue quartz eyes and pyrite in cobbles, and pyrite in matrix (< 2% overall)

MAR - PUK

SAMPLE#	GRID LOCATION	DESCRIPTION
16019	045 N, L-300 W	smokey quartz vein cutting metasediments, sulphide staining
16020	LOO, 755 W	sheared conglomerate with blue quartz eyes and pyrite (< 2%) in matrix
16021	260 N, L-700 W	greywacke with minor pyrite
16022	L00, 845 W	sheared conglomerate with minor pyrite in matrix (<2%)
16023	675 N, L-700 W	sheared, pillowed mafic volcanics with quartz stringers and minor pyrite
16024	640 N, L-700 W	sheared intermediate volcanic with minor pyrite
16025	425 S, L-600 W	sheared greywacke including smokey quartz stringer and minor pyrite
16026	1115 S, L-600 W	quartz stringer in greywacke with pyrite (< 2%)
16027	795 S, L-700 W	greywacke with smokey quartz stringers and minor quartz
16028	730 S, L-400	Four (4) font wide felsic dyke containing < 2% pyrite/ arsenopyrite
16029	TL-25 S, 290 W	narrow quartz stringers in mafic volcanic with minor pyrite
16030	675 S, L-300 W	slightly silicified arkose/

\$ 16307	L-0, 215 N	narrow silicified zone in greywacke with minor pyrite
16308	Baseline, 490 E	quartz stringers in sheared greywacke, minor pyrite
16310	L-0, 140 N	quartz vein from 6"-12" wide with minor pyrite
16312	L-1 W, 420 N	sheared, intermediate volcanic with minor pyrite
16313	L-2 E, 860 N	sheared intermediate volcanic with minor pyrite
16314	L-3 E, 1080 N	sheared mafic volcanic with carbonate with minor pyrite
16315	L-0, 445 S	smokey quartz vein (2"-8" wide) with minor pyrite
16316	L-0, 375 S	felsic dyke (15" wide) with minor pyrite
16318	L-2 E, 860 N	small stained quartz stringer (iron) in intermediate volcanic
16319	L-6 E, 920 N	sheared mafic volcanic with 2-3% pyrite
16320	River, 400 N (West Grid)	quartz stringers in altered metasediments, up to 5% arsenopyrite, abundant tourmaline patches
16321 m	L-8 E, 1085 N	silicified stringers in sheared mafic volcanics
16322	River, 0+50 S	pyrite and golena in quartz stringers from deformed meta- sediments below falls

APPENDIX II

ROCK ANALYSIS



Date

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis 852 E. Hastings St., Vancouver, B.C. V6A 1R6 Telephone: 253-3158

Jan. 4 1988

STATEMENT

Harold M. Jones & Associates Inc, 605 - 602 W. Hastings St. Vancouver, BC

Date	<u>File #</u>	Amount
July 15 1987	NO NUMBER Supplies.	\$ 650.00
	87-2483	213.75
	87-2717	6963.50
	87-2800	4329.00
	87-3205	8978.50
	87-3013	371.25
	87-3603	3804.75
	87-3648	263.25
	87-3763	7390.75
	87-3763 A	224.25
	87-3845	5429.75
	87-3931	4162.25
	87-4144	5203.75
	87-4193	536.50
	87-4264	2405.00
	87-4553	1628.00
	87-4553 A	. 292.50
	87-4824	214.50
	87-5011	1933.25
	87-5069	217.50
	Тс	stal \$ 55212.00

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ACME ANALYTICAL LABO	RATORIES LTD.	DATE RECEI	VED SEPT 15 1987
PH: 04)253-3158 COM	PUTER LINE: 251-	1011 DATE REPOR	rs MAILED (125/87
GEOCHEM	ICAL ASS	AY CERTIP	ICATE
SAMPLE TYPE : R Aut - 10 GM, IGN	OCK - CRUSHED AND PULVERIZE IITED, HOT AQUA REGIA LEACHE	D TO -100 MESH. D, MIBK EXTRACTION, AA ANALYS	15.
ASSAYER	44DEAN TOYE	, CERTIFIED B.C.	ABSAYER
HAROLD	M. JONES FILE	# 87-4193	PAGE# 1
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ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: OCT 21 1987 B52 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE (604) 253-3158 FAX (604) 253-1716 DATE REPORT MAILED:

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU++ BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER:

N. All DEAN TOYE, CERTIFIED B.C. ASSAYER

HAROLD M. JONES File # 87-4193 R

SAMPLE# AU** oz/t 16069 .478 16070 .344

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For each additional survey:	- Radiometric			753917	6.5	<u>}</u>	753956	6.5	
using the same grid: Enter 20 days (for each)	- Other	R		75391B	6.5 1		753957	6.5	
	Geological	Deres		753919	20	縲計	752052	6.5	
	Geochemicat			75204A	20		7 5 5 100	6.0	
Man Days	Geophysical	Days per	616 ×	753120	20		733137 Drag(A	615	
Complete reverse side	Figure	Claim		70 3701	20		755760	617	
and enter total(s) here	• Electromagnetic			753922	20		753961	6.5	
	Magnetometer		-	753923	20		753962	6.5	
	HE- Radiometric		Carto dalla	753924	20		753963	6.5-	
116061	C. Qther			753925	20		953964	20	
	Geological			753926	20		753965	20	
AM	Geochemical		to a financia da financia. Antesta da financia da finan	753927	20		753966	20-	
Airbo 718 010 11 12 1	18141519	Days per Claim		753928	20		753969	6.5	
Note: Special provisions	Electromagnetic		1	753929	20		953968	6.5 -	
credits do nilt apply to Airborne Surveys.	Magnetometer			253930	20		252969	20	
	Radiometric			757921	20	-	Mr-2 902	20	
Expenditures (excludes pow	er stripping)			202020			732175	1.0	
Type of Work Performed	- / ``		-	7-2022		+	777407		
HSSays (G Performed on Claim(s)	even)		-	133753	6.2	-	777110		
SSM 753 B	52 et al			755734	6.5	-	479111	20	
			-	753935	6.5		779112	20	
Calculation of Expenditure Day	s Credits	Total		753952	6.5		779113	20	
Total Expenditures	Daγ	s Credits		<u> 753 953</u>	6.5		779114	20-	
\$ 51,000.	÷ 15 = 3	400				Totàl numt	per of mining	34 ¥	
Instructions				•		report of w	ork.		
choice. Enter number of day	s credits per claim select	ed	Total Days	For Office Use O	nly	Mining Ber	nt. On ney	+ Page	
	<u>.</u>		Recorded						
Date II	corded Holder or Agent (Signature)	.	Date Approved	as Recorded	Branch Dire	ctor		
Nov-19/8/	Deynon ?	Som	L			<u> </u>	······ •·· •·		
I hereby certify that I have a	personal and intimate k	nowledge of t	he facts set fo	orth in the Report (of Work anne:	ked hereto, h	aving performed th	e work	
or witnessed same during and	d/or after its completion	and the anne	xed report is t	irue.					
Name and Postal Address of Per	son Certifying	for so	58 1	Vana	0.1	POSI	to	Ĩ	
			<u> </u>	Date Certified	<u>~~ [.</u>	Certified by	(Signature)	-,	
				Mon	19187	Dey	mon De	m	

·Ministry of	Benart of We	ork		• Ins	tructions: -	Please typ	Pag	e 3 d
Northern Developme	nt (Carabusicat (-	If number	of mining claims	traversed
Optario ano mines	(Geophysical, C	seological, ad Expendi	tures)		Note: -	Only day	ace on this form, at s credits calculate	ttach a list.
	Geochennicar a		(ures)			"Expendit	ures" section may	be entered
	-119-		Mining A	Act	-	Do not use	shaded areas below	l.
Type of Survey(s)	911				Township o	or Area		
Claim Holder(s)	Coacherente	yeld	Assay.	<u> </u>	Da	vid La	kes Area	
Dur	H DITTO					Λ 4	(909	
Address	IT DITIO		<u></u>					
1030-609 Granu	ille St. P.O.	Box 103	39 Pac	This Center	Vanc	ouver	BC. VIYI	65
Survey Company	· ·			Date of Survey	(from & to)		Total Miles of line (Cut
Dears Ba	rry & iltss	ociate	5	Day Mo.	Yr. Day	Mo. Yr.		
Service and Address of Author (o			~~~~ (1	to see a	0 + 0	DAG	1+n	1
Credits Requested per Each (Claim in Columns at r	iaht	Mining Clai	ims Traversed (1		rical seque		
Special Provisions	Geophysical	Days per	Min	ing Claim	Expend.		ining Claim	Expend.
For first survey:		Claim	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
Enter 40 days. (This	- Electromagnetic		SSM	779115	6.5	-17:3-6	779 138	6.5
includes line cutting)	- Magnetometer			779116	6.5	-data and	779139	6.5
For each additional survey	- Radiometric		and the second	779117	6.5		729140	6.0
using the same grid:	- Other		an and an art of an	779110	10	Constant and a second s	779141	
Enter 20 days (for each)	Geological	90°		TTILLD	612		7777-11	20
		890		777114	6.5		+17142	20
Also Davis	Geochemical			779120	6.5		779/43	20
	Geophysical	Days per Claim		979121	6.5	57.55	779144	20
Complete reverse side and enter total(s) here	- Electromagnetic		100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	779122	20		779145	20
	Magnetometer			779123	20		779146	20
	- Radiometric			799124	20		779147 -	.20
	OTher			779175	20		729100	20
RECLE				471223	20		FF/170	20
	Geological			779126	20		779149	20
NOV 2.01	Geochemic			779127	20		779150	20
Arror A.M. A.M. 7.0.0.10.11.19.1	P.M. 1	Days per Claim		779128	20 -		779151	20
Not	Ciectromagnetic			749129	6.5		779152	6.5
to Airborne Shrveys	Magnetometer			029130	6.5		729/52	6.5
	Badiometric	 		111200			70100	10.0
Expenditures (excludes nous	er stripping)	<u></u>		777151	6.5		117134	612
Type of Work Performed		——————————————————————————————————————		779132	6.5		779155	6.5
Assa	ys Geocher	\sim		779133	6.5		779156	6.5
Performed on Claim(s)				779134	6.5		779157	6.5
Som 1753852	h stal			779125	6.5		779211	6.5
;				<u>11133</u>	65		TIGOD	1 6
Calculation of Expenditure Day	s Credits	Total		2010	1-	Series -	770010	6.3
iotal Expenditures			L	11157	0.0	L	TTINOD	16.3
5, 51,000,"	$1 \div 15 = 3$	400				Total nur claims co	nber of mining	234 ¥
Instructions Total Days Credits may be a	portioned at the claim t	older's				report of	work.	
choice. Enter number of day	s credits per claim select	ed	F Total Dave (or Office Use O	nly	Mining Be	NT. ON Ney	T Vage
in colonins at right.			Recorded					
Date Ala 16/ca Re	corded Holder or Agent (Signature)	•	Date Approved	as Recorded	Branch Di	rector	
100017181	Doymon =	Sedi	<u> </u>					
L berehv certify that I have	OPTE OT WORK	nowledge of	the facts set fo	rth in the Report	of Work anne	ked hereto	having performed +	hework
or witnessed same during and	d/or after its completion	and the anne	exed report is to	rue.				
Name and Postal Address of Per	son Certifying	/	2	(me) /.]_		A	lar 12	
Deymour	- Mi Sear	· s / 4	Der 20;	Date Certified	ma UI	Certified	by (Signature)	<u>v · </u>
				Nov19	2/87	Sã	mour 5	ean

1362 (85/12)

Ministry of	Report of Wo	ork		Ins	tructions: •	–. Please type	or print. Page	e <u>4</u> of 1
and Mines	(Geophysical, C	Geological,			•	 If number exceeds spin 	of mining claims ace on this form, at	traversed tach a list.
Ontario	Geochemical a	nd Expend	itures)		Note: -	 Only days "Expenditu 	credits calculate	d in the be entered
		רצווה	Mining	Act		in the "E — Do not use	xpend. Days Cr." shaded areas below	columns.
Type of Survey(s)		AV			Townshi	p or Area	· .]
Claim Holder(s)	Careabconst	yus f	fssays		1 Da	uid Lak	es Area	
P.,	+L Ditta					A. 4	- (-909	
Address				<u> </u>				
1030-609 Granu	ille St., P.O.B	07 10339	Youtit	Conter, Va	ncouve	r B.C.	V7Y/65	
Survey Company	+ Associat	×		24 06 Survey		09 87	Total Miles of line C	Cut
Name and Address of Author (o	f Geo-Technical report)	:>		Day Mo.	Yr. Day	Mo. Yr.		
Seymour #	1. Sears P.O.	Box:	2058	Wawa, 1	On tor	<u>rio, P</u>	os Ito.	
Credits Requested per Each (Claim in Columns at r	ight	Mining Cl	aims Traversed (L	ist in nun	nerical seque	nce)	
	Geophysical	Claim	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
For first survey: Enter 40 days (This	- Electromagnetic		SSM	800922	.20	SSM	801325	20
includes line cutting)	 Magnetometer 			800923	20		AM1326	20
For each additional automa	- Radiometric			800924	20		00/322	20
using the same grid:	• Other	0		001001			- COUISET	20
Enter 20 days (for each)	- Other	gus .		801306	20		80/328	20
	Geological	280		801307	20	17495	80/336	20
	Geochemical			80/308	20		B0/337	20
Man Days	Geophysical	Days per Claim		801309	20		80/338	20
Complete reverse side	- Electromagnetic			B01310	6.5	All and the second	80/339	20
	Magnetometer			B0/3/1	10		B0/340	20
	Degliberratio			00/2/2	6.5		<u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	~~
	- Hadipmetric			- BUISIA	6.5		801341	20
I A ROLIV	Ciher			80/3/3	20		B01342	20
	Geological			801314	20-	and the second	80/343	20
NUV 2 0 100	Geochemical			601315	20		801344	20
Airborna Credits 7181:10:11:12:1:21	P.M. BIAIKA	Days per Claim		801316	20		80/345	20
Note: Special provisions	Electromagnetic			BOIZIZ	20		DA/ZAL	20
credits do not apply	Magnetometer			00/2/0	20	1.500	<u>601348</u>	00
to Airborne Surveys.				80/5/8	20		80/347	20
	Radiometric			801319	20		80/348	6.5
Expenditures (excludes pow Type of Work Performed	er stripping)			B0/320	20		801349	6.5
Assay	15 (geochem)			601321	20		B0/350	6.5
Performed on Claim(s)				80/322	20	and the second sec	80/351	20
<u>55m 75385</u>	sa et al			80/323	20		B0/257	20
				ROIZOA	20		A . 707	20
Celculation of Expenditure Day	's Credits	Fotal	الملائقات والم		av	- Briene	80/353	
Total Expenditures		s Credits			<u> </u>		801554	1201
\$ 51,000,"	+ [15] = [<u>3</u>	400				Total nun claims co	hber of mining vered by this	124
Instructions Total Dave Credits	portioned at the states 4	older's			· · · · · · · · · · · · · · · · · · ·	report of	work.	
choice. Enter number of day	s credits per claim select	ed	Total Dave	For Office Use O	nly	Y Co	AT. ON Ney	+ Vag
in columns at right.			Recorded			ivitaing rie		
Date AA. 10 (a. Re	corded Holder or Agent (Signature)	•	Date Approved	as Recorde	d Branch Di	rector	
100-19/87	Daymou	Som				<u> </u>		
Certification Verifying Repo	ort of Work			and to sta P	- 2 1471]
I hereby certify that I have a or witnessed same during and) personal and intimate k d/or after its completion	nowledge of and the ann	the facts set f exed report is	orth in the Report (true.	of Work and	nexed hereto,	naving performed th	e work
Name and Postal Address of Per	rson Certifying		_		<u>~</u>		2-2-1	
Scymour	M. Sears	<u>, bo</u>	+ 205	B, Wan	<u>a, 0</u>	A Tarib	ros 120	· .
j		-		Man	9/8-		eman_	204
1362 (85/12)								

Ministry of Northern Developme	Report of W	ork	,	Ins	structions:	Please typ If number	e or print. of mining claims	2 <u>5</u> みん traversed	
Ontario and Mines	(Geophysical, Geochemical a	Geological, nd Expendi	tures)		Note: –	exceeds sp Only day	ace on this form, at s credits calculate	tach a list. d in the	
					•	"Expenditures" section may be entered in the "Expend, Days Cr." columns.			
Type of Survey(s)	w ^g		winning #	Township or Area					
Claim Holder(s)	Eccobersto	yrets A	-ssays		Pa	vid Lakes Area			
Ruth	Ditto					A-4	6909		
Address		0	~ 0	1	~				
1030-609 Gran	ulle Sr, Boy 10	339 Ya	<u>citic (en</u>	Pate of Survey	(from & to)	<u>., v7</u>	Total Miles of line (201	
Spars Barry	& Associates			24 06 2 Day Mo.	87 08	09 87			
Name and Address of Author (o	f Geo-Technical report)]]				
Credite Requested are Each	L. Sears, Bo	¥ 2.05-8	<u>Aliping Chail</u>	a, Ontar	io Po	<u>5 /k 0</u>	1		
Special Provisions	Geophysical	Days per	Min Min	ing Claim	Expend.	M	lining Claim	Expend.	
For first survey:	Geophysical	Claim	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.	
Enter 40 days. (This	Electromagnetic		22m	801355	6.5	SSM	822/55	20	
includes line cutting)	- Magnetometer			B01356	6.5	1979 and an	822156	20	
For each additional survey:	- Radiometric			B01357	6.5	an a si	822157	20	
Enter 20 days (for each)	- Other			822055	20	and the second sec	822158	20	
	Geological 8 ^M	00		822056	20		822159	20	
	Geochemical		100 million (100 m	822097	20		822/60	20	
Man Days	Geophysical	Days per Claim	and an indication of the second se	822098	20	antan Angangan an	822161	20	
Complete reverse side and enter total(s) here	- Electromagnetic			B22099	20	• • • • •	822/62	20	
	Magnetometer			B22100	20		822163	20	
350	Radiometric			822101	20		822164	20 -	
	- Other			822102	20		824323	6.5	
NUA 5	Gagiomal			B22/03	20		824324	- 6.5	
A.N.	Geochemic P.M.		17 2. 18 18 2. 19	822/04	20		824325	6.5	
Airborne Creater 1911	11 11 15.5	Days per Claim	l f	822145	20		827255	6.5	
Note: Special provisions	Electromagnetic			822/46	20		827256	6.5	
credits do not apply	Magnetometer			827/42	24		827757	4.5	
	Badiometric			827146	20		827758	15	
Expenditures (excludes pow	er stripping)	/		0-2110			617250	6.5	
Type of Work Performed	- (()		-	022147	20		027207	6.0	
Performed on Claim(s)	5 (beachen)			822150	20		827260	615	
55M 753852 at	al			822121	20		827261	20	
				822152	20		829262	20	
Calculation of Expenditure Day	s Credits	Total		822153	20	Surger in a	827263	20	
Total Expenditures	Day	/s Credits		B22154	20			0 -	
\$ 51,000.00	+ 15 = 3	400				Total nur claims co	mber of mining vered by this	774	
Instructions Total Days Credits may be a	poortioned at the claim	holder's	,			report of	work.		
choice. Enter number of day in columns at right.	s credits per claim select	ted	Total Days (or Office Use C Cr. Date Recorded	Dnly	Mining Ro	ONT. Next (ecorder	rage	
			Recorded		···				
Date Nov 19/87 Re	Some Some	(Signature)	· .	Date Approved	as Recorded	Branch D	irector		
Certification Verifying Repo	ort of Work								
I hereby certify that I have a or witnessed same during an	personal and intimate k d/or after its completion	nowledge of and the anne	the facts set fo exed report is t	rth in the Report rue.	of Work anne	xed hereto,	having performed th	ne work	
Name and Postal Address of Per	son Certifying	~		(1).	A: +-	n (n)	Par ILA		
Deymour	M. Sears	, Cox	2058	Date Certified	, un ia	Certified	by (Signature)		
				Non	9/87	5	ézmon S	èan	

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Ministry of	Report of Work	ζ		. Ins	structions: –	Please type or pri	1445 0 -1
Northern Developmer	IGeophysical Geo	logical			-	 If number of mi exceeds space on t 	ning claims traversed
Ontario	Geochemical and	Expendit	ures)		Note:	 Only days credit 	ts calculated in the
	Geochennear and	experience				"Expenditures" se	ction may be entered
(🛑	105		Mining A	ct		Do not use shaded	areas below.
Type of Survey(s)				· · · · · · · · · · · · · · · · · · ·	Township	or Area	······
Bestas	willebetter	istra	Asso	av s	D	avid Lake	s Area
Claim Holder(s)						Prospector's Licen	ce No.
l Ru	th Ditto					A-4690	9
Address /030-609	Gaanville S	+. 6	200.0	and Part	r.C.t.	11-	RC NOW LAST
Survey Company		<u> </u>	1.0.004 /0	Data of Surrow	the Cente	r Vancouver	DC. V/9/65
Survey Company	d Arconitta			24 06 E	87 08	09 87	iles of line Cut
Dears Darry	2 HSSOCIALES			Day Mo.	Yr. Day	Mo. Yr.	-
Address of Author (b)					• •	0 11 0	
- Osemour	m. Sears P	0100	x 2058,	wawa	$\frac{Ont}{}$	YOS IKU	
Credits Requested per Each C	laim in Columns at righ	T	Mining Clair	ms I raversed (I	List in num	erical sequence)	
Special Provisions	Geophysical	ays per Claim	Prefix	Number	Expend, Days Cr.	Prefix Ni	aim Expend. Umber Days Cr.
For first survey:	- Electromagnetic		SC 1	8070/4			
Enter 40 days. (This	· Electromagnetic		22W	827264	20	and the product of	
includes line cutting) ²	- Magnetometer			827265	20		
For each additional survey:	 Radiometric 			827266	20	and the second	
using the same grid:	Other		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>			
Enter 20 days (for each)	· Other			827267	6.5	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997	
	Geological	a de		827268	6.51	「読む」	
	Geochemical	<u> </u>		00000	0	100 - 100 - 100 - 100 100 - 100 100 100 - 100 100 -	
	Geochemical			827269	7.0		
Man Days	Geophysical · D	ays per Claim				1.1	
Complete reverse side	F 1		a an	· · · · · · · · · · · · · · · · · · ·	1		
and enter total(s) here	- Electromagnetic			······			
	- Magnetometer	·					-
RECENT			Service State				
	• Other						
	-						
MOV 2 04007	Geological						
A.M.	Geochemical		and a second			and the set of a set	
Arthana C1001411211-2121		avs per	-	· · · · · · · · · · · · · · · · · · ·			
	1915	Claim					
Note: Special provisions	Electromagnetic						
credits do not apply							
to Airborne Surveys.	Magnetometer						
	Badiometric			······································			
			-				
Experial lures (excludes powe	er stripping)					•	
Ace-	us (Gooden)	ļ					
Performed on Claim(a)	ys (unochern)						
her 2 A	. + _						
1) 2025	era						
		ļ			<u> </u>]		
Calculation of Europed's and	Cradite						
Tanculation of Expenditure Days	Tot	al I		·····	1		
Total Expenditures			L	· · · · · · · · · · · · · · · · · · ·	J	·	
\$ 51,000.~	+ 15 = 34	00				Total number of	mining 034
Instructions						report of work.	/ ······ ~ 54
Total Days Credits may be ap	portioned at the claim hold	ier's		or Office Line C			
choice. Enter number of days	s credits per claim selected		Total Davs C	r. Date Recorded	///γ	Mining Recorder	
			Recorded				
Date	corded Holder or Acent (Sin	nature		Date Approved	as Recorded	Branch Director	
Nov-19/87	50	àm	· ·				
Cartification Marifulan Dana	rt of Work		L				
Certification verifying Repo		ulania - * -	ha faata aat fa	eh in ehe Desar	of Most	avad harasa haular -	arformed the west
or witnessed same during and	personal and intimate know I/or after its completion and	viedge of t i the anne	ne lacts set for xed report is tr	ue.	OF WORK SUN	even meleto, usving t	ACTORINED THE MOLK
Name and Postal Address of Pere	son Certifving			<u></u>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	·····
	N. Sonn	Ray	2058	Warra	, 10n t	ario Po	s 1ko
	miscuis			Date Certified	1	Certified by (Sign	ature)
				1 Non-19	187	Sema	-un Saa
1362 (85/12)							



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Ministry of Northern Development and Mines

Geophysical-Geological-Geochemical Technical Data Statement

File_

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TO BE AT FACTS S TECHNICAL REPO	TACHED AS AN APPENDIX TO TECHNI HOWN HERE NEED NOT BE REPEATED DRT MUST CONTAIN INTERPRETATION	CAL REPORT IN REPORT , CONCLUSIONS ETC.
Type of Survey(s) <u>Geological</u> Township or Area <u>David Lake</u>	<u>Geochemical & Assays</u> Area	MINING CLAIMS TRAVERSED
Survey Company <u>Sears</u> , Barr Author of Report <u>Seymour</u> M.	cy & Associates	List numerically
Address of Author <u>22</u> Caverhi Covering Dates of Survey <u>June</u> Total Miles of Line Cut	11 Street, Wawa, Ont. 24, 1987 - Sept 08, 1987 (linecutting to office)	
SPECIAL PROVISIONS CREDITS REQUESTED	DAYS Geophysical Electromagnetic	
ENTER 40 days (includes line cutting) for first survey. ENTER 20 days for each	Magnetometer Radiometric	
additional survey using same grid.	Geological 20 Geochemical 34.8	
Magnetometer Electromagn (enter de	etic Radiometric	
DATE: Von (8/80) SIGNA	TURE:Author of Report or Agent	
Res. Geol Qualif <u>Previous Surveys</u> File No. Type Date	Claim Holder	
		TOTAL CLAIMS

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

Nu	umber of Stations	Number of Readings
Sta	ation interval	Line spacing
Pro	ofile scale	
Co	ontour interval	
-	Instrument	
	Accuracy - Scale constant	
	Diurnal correction method	·
	Base Station check-in interval (hours)	
	Base Station location and value	
긹	Instrument	······································
121	Coil configuration	
5	Coil separation	
	Accuracy	
	Method:	□ Shoot back □ In line □ Parallel line
	Frequency	(specify V.L.F. station)
리	Parameters measured	(
	Instrument	
	Scale constant	
	Corrections made	
3	Base station value and location	
	Elevation accuracy	
	Instrument	
	Method 🔲 Time Domain	Frequency Domain
	Parameters - On time	Frequency
M	- Off time	Range
EN N	– Delay time	
IIS	— Integration time	
ESI	Power	
24	Electrode array	
	Electrode spacing	

***Note : Geological and Geochemical Sampling Completed Upon These Claims

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Ms. Ruth Ditto - CLAIMS - David Lakes Area

SSM 753852 et al

SSM 753852 SSM 753921 SSM 753853 SSM 753922 SSM 753854 SSM 753923	SSM 779127 SSM 779128 SSM 779129	SSM 801321 SSM 801322 SSM 801323	SSM 822157 SSM 822158 SSM 822159
SSM 753855 SSM 753924	SSM 779130	SSM 801324	SSM 822160
SSM 753857 SSM 753925	5 SSM 779131	SSM 801325 SSM 801326	SSM 822162
SSM 753858 SSM 753927	SSM 779133	SSM 801327	SSM 822163
SSM 753859 SSM 753928	SSM 779134	SSM 801328	SSM 822164
SSM 753861 SSM 753929) SSM 779139	SSM 801330 SSM 801337	SSM 824324
SSM 753862 SSM 753931	\$SM 779137	SSM 801338	SSM 824325
SSM 753863 SSM 753932	SSM 779138	SSM 801339	SSM 827255
SSM 753865 SSM 753933	SSM 779139	SSM 801340 SSM 801341	SSM 827257
SSM 753866 SSM 753935	SSM 779141	SSM 801342	SSM 827258
SSM 753867 SSM 753952	SSM 779142	SSM 801343	SSM 827259
SSM 753868 - SSM 753953 SSM 753869 - SSM 753954	SSM 779143	SSM 801344	SSM 827260 SSM 827261
SSM 753870 SSM 753955	SSM 779145	SSM 801345	SSM 827262
SSM 753871 SSM 753956	SSM 779146	SSM 801347	SSM 827263
SSM 753872 SSM 753957	7 SSM 779147 2 SSM 779148	SSM 801348	SSM 827264 SSM 827265
SSM 753874 SSM 753959	SSM 779140	SSM 801349	SSM 827266
SSM 753875 SSM 753960) SSM 779150	SSM 801351	SSM 827267
SSM 753876 SSM 753961	SSM 779151	SSM 801352	SSM 827268
SSM 753878 SSM 753963	SSM 779152	SSM 801353	55H 027207
SSM 753879 SSM 753964	SSM 779154	SSM 801355	
SSM 753880 SSM 753965	SSM 779155	SSM 801356	
SSM 753882 SSM 753967	5 55M 779150 7 55M 779157	SSM 801357 SSM 822055	
SSM 753883 SSM 753968	SSM 779266	SSM 822056	
SSM 753884 SSM 753969	SSM 779267	SSM 822097	
SSM 753886 SSM 753972	SSM 779200	SSM 822098 SSM 822099	
SSM 753887 SSM 779110	SSM 800923	SSM 822100	
SSM 753888 SSM 779111	SSM 800924	SSM 822101	
SSM 753900 SSM 779112 SSM 753907 SSM 779113	SSM 801300 SSM 801307	SSM 822102 SSM 822103	
SSM 753908 SSM 779114	SSM 801308	SSM 822104	
SSM 753909 SSM 779115	5 SSM 801309	SSM 822145	
SSM 753910 SSM 779110 SSM 753911 SSM 779111	D SSM 801310 7 SSM 801311	SSM 822146 SSM 822147	
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SSM 753913 SSM 779119	SSM 801313	SSM 822149	
SSM /53914 SSM //9120) SSM 801314	SSM 822150	
SSM 753916 SSM 779122	2 SSM 801316	SSM 822152	
SSM 753917 SSM 779123	3 SSM 801317	SSM 822153	
SSM 753918 SSM 779124	4 SSM 801318	SSM 822154	
SSM 753920 SSM 77912	5 SSM 801319	SSM 822155	

Ms. Ruth Ditto - CLAIMS - David Lakes Area

SSM 753852 et al

SSM	753852	SSM	753921	SSM	779127	SSM	801321	SSM	822157
SSM	753853	SSM	753922	SSM	779128	SSM	801322	SSM	822158
SSM	753854	SSM	753923	SSM	779129	SSM	801323	SSM	822159
SSM	753855	SSM	753924	SSM	779130	M22	801324	SSM	822160
SSM	753856	M22	753925	M22	779131	C C M	801325	SSM	822161
M22	753857	CCM	753025	00M	770122	COM	001323	M22	822162
00H	753050	DOM DOM	753920	0.01	770132	22M	001320	00M	822102
COM	753050	22M	753927	55M	779133	SSM	801327	D C M	022103
0.01	753039	SSM	753928	SSM	779134	SSM	801328	22M	022104
224	753000	SSM	753929	SSM	//9135	SSM	801336	22M	024323
SSM	753861	SSM	753930	SSM	779136	SSM	801337	SSM	824324
SSM	753862	SSM	753931	SSM	779137	SSM	801338	SSM	824325
SSM	753863	SSM	753932	SSM	779138	SSM	801339	SSM	827255
SSM	753864	SSM	753933	SSM	779139	SSM	801340	SSM	827256
SSM	753865	SSM	753934	SSM	779140	SSM	801341	SSM	827257
SSM	753866	SSM	753935	SSM	779141	SSM	801342	SSM	827258
SSM	753867	SSM	753952	SSM	779142	SSM	801343	SSM	827259
SSM	753868	SSM	753953	SSM	779143	SSM	801344	SSM	827260
SSM	753869	SSM	753954	SSM	779144	SSM	801345	SSM	827261
SSM	753870	SSM	753955	SSM	779145	SSM	801346	SSM	827262
SSM	753871	SSM	753956	SSM	779146	SSM	801347	SSM	827263
SSM	753872	SSM	753957	SSM	779147	SSM	801348	SSM	827264
SSM	753873	SSM	753958	M22	7791/8	N22	801340	SSM	827265
SSM	753874	SSM	753959	M22	779149	N22	801350	SSM	827266
SSM	753875	M22	753960	M22	770150	00M	801350	SSM	827267
SSM	753876	M22	753961	C C M	770151	COM	001331	SSM	827268
N22	753877	00M	753063	COM	770150	00M	001332	M22	827269
N22	753878	SON SON	752062	D C C M	770152	55M	801333	001	027207
SON SCM	752070	224	753963	55M	779100	SSM	801354		
C C M	7530079	50M	753964	22M	779104	SSM	801355		
COM	753000	55M	753965	SSM	779100	SSM	801356		
COM	755001	SSM	753966	SSM	779150	SSM	801357		
29M	753002	SSM	/5396/	SSM	//915/	SSM	822055		
SSM	/23883	SSM	/53968	SSM	//9266	SSM	822056		
SSM	753884	SSM	753969	SSM	//926/	SSM	822097		
SSM	/53885	SSM	753972	SSM	779268	SSM	822098		
SSM	/53886	SSM	779109	SSM	800922	SSM	822099		:
SSM	753887	SSM	779110	SSM	800923	SSM	822100		
SSM	753888	SSM	779111	SSM	800924	SSM	822101		
SSM	753906	SSM	779112	SSM	801306	SSM	822102		
SSM	753907	SSM	779113	SSM	801307	SSM	822103		
SSM	753908	SSM	779114	SSM	801308	SSM	822104		
SSM	753909	SSM	779115	SSM	801309	SSM	822145		
SSM	753910	SSM	779116	SSM	801310	SSM	822146		
SSM	753911	SSM	779117	SSM	801311	SSM	822147		
SSM	753912	SSM	779118	SSM	801312	SSM	822148		
SSM	753913	SSM	779119	SSM	801313	M22	822149		
SSM	753914	SSM	779120	SSM	801314	M22	822150		
SSM	753915	SSM	779121	M22	801315	00M	822150		
SSM	753916	M22	779122	00M 00	801315	noo Noo	822121		
SSM	753917	M22	770122	N99	801210	UCC N D D	022102		
SSM	753918	CCM	77010%	001 00M	801210	00M	0221JJ 8994EL		
00M	752010	DOM	770405	0011	001310	99W	022104		
92W	123919	SSM	119125	SSM	801319	SSM	822155		
55M	753920	SSM	119126	SSM	801320	SSM	822156		

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SELF POTENTIAL	
Instrument	Range
Survey Method	
Corrections made	
<u></u>	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	-
Overburden	
(type	e, depth — include outcrop map)
OTHERS (SEISMIC DRILL WELL LOGGING	FETC)
$\frac{1}{2}$	
Instrument	
Parameters measured	
Additional information (for understanding resu	
Additional information (for understanding resu	1105)
AIDDODAIE CUDWEVS	
Turne of survey(a)	
type of survey(s)	· · · · · · · · · · · · · · · · · · ·
(spec	cify for each type of survey)
Accuracy	cify for each type of survey)
Aircraft used	
Sensor altitude	
Navigation and flight path recovery method	
Aircraft altitude	Line Spacing
Miles flown over total area	Over claims only
miles nown over total area	Over claims only

GEOCHEMICAL SURVEY - PROCEDURE RECORD

N.

Fotal Number of Samples 5220 Fype of Sample Soit (Nature of Material) Average Sample Weight / ll Method of Collection Grub Hoe Soil Horizon Sampled B-Horyon Horizon Development Well Development	ANALYTICAL METHODS Values expressed in: per cent p. p. m. p. p. b. Cu Pb, Zn Ni, Co, Ag, Mo, As, (circle) Others
Sample Depth Terrain Uarrahle	Extraction Method Analytical Method Reagents Used
Drainage Development <u>Well 40 Post</u> Estimated Range of Overburden Thickness Variable 0 - 50 ft	Field Laboratory Analysis No. (
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing) Mesh size of fraction used for analysis -80 mesh	Commercial Laboratory (<u>S220</u> tests) Name of Laboratory <u>Acme</u> Extraction Method <u>See Report Tax</u> Analytical Method <u>()</u> Reagents Used
Genieral Dryed & cruched -to - & mehatlat	General
	-



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Technical Assessment Northern Development **Work Credits**

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			File 2,10763
February 3,	1988	Mining Re Work No.	corder's Report of 212/87

Ministry of

and Mines

Recorded Holder TREES REAL Area

Ruth Ditto David Lake

Type of survey and number of	Mining Olations Accounted
Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic	days SSM - 753852 to 56 inclusive
Magnetometer	days 753859 to 62 inclusive 753867-68
Radiometric	days 753885 to 88 inclusive 753906 to 18 inclusive
Induced polarization	days 753933 to 35 inclusive 753952 to 63 inclusive
Other	days 753967-68 779109
Section 77 (19) See "Mining Claims Assessed" colu	mn 779115 to 21 inclusive 779129 to 40 inclusive
Geological	days 779152 to 57 inclusive 779266 to 68 inclusive
Geochemical34.8	days 801310 to 12 inclusive 801348 to 50 inclusive 801255 to 57 inclusive
Man days 🔀 Airborn	$8 \square$ 824323 to 25 inclusive 827255 to 60 inclusive
Special provision	827267 to 69 inclusive
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of correctio to work dates and figures of applica.it.	ns
Special credits under section 77 (16) for the follo	owing mining claims
No credits have been allowed for the following n	nining 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; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Ministry of Technical Assessment Northern Development Work Credits

	Tile
	2.10763
Date	Mining Recorder's Report of Work No.
February 3, 1988	212/87

1.00

Recorded Holder Ruth Ditto	
TEXAKIZZr Area David Lake	
Type of survey and number of	Mining Claims Assessed
Geophysical	
Electromagnetic days	
Magnetometer days	SSM - 753852-53 753855-56
Radiometric days	753859 to 62 inclusive 753867-68
Induced polarization days	753885 to 88 inclusive 753906 to 18 inclusive
Other days	753933 to 35 inclusive 753952 to 63 inclusive
Section 77 (19) See "Mining Claims Assessed" column	753967-68 779109
Geological days	779115 779117 to 21 inclusive
Geochemical days	779129 to 39 inclusive 779152 to 57 inclusive
Man days 🗋 Airborne 🗌	779266 to 68 inclusive 801310 to 12 inclusive
Special provision 🗶 Ground 💽	801348 to 50 inclusive 801355 to 57 inclusive
Credits have been reduced because of partial coverage of claims.	824323 to 25 inclusive 827255 to 60 inclusive
Credits have been reduced because of corrections to work dates and figures of applicant.	827267 to 69 inclusive
Special credits under section 77 (16) for the following n	nining claims
10 days Geological	5 Days Geological
SSM - 779116 779140	SSM - 753854
No credits have been allowed for the following mining c	laims
not sufficiently covered by the survey	insufficient technical data filed

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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; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Northern Development	sment File 2.1076:
antario Work Credits	Pete February 3, 1988 Mining Recorder's Repo 213/87
corded Holder Ruth Ditto	
RXXXXXX Area	
Type of survey and number of	
Assessment days credit per claim	Mining Claims Assessed
Electromagnetic days	\$51,000.00 SPENT ON SAMPLE ASSAYS TAKEN FROM
magnetomoter days	MINING CLAIMS:
Radiometric days	SSM - 753852 to 56 inclusive
Induced polarization days	753859 to 62 inclusive 753867-68 752005 to 00 doclarate
Other days	753885 to 88 inclusive 753906 to 18 inclusive 752022 to 25 inclusive
Section 77 (19) See "Mining Claims Assessed" column	753952 to 55 inclusive 753952 to 63 inclusive 753967-68
days	779109 779115 to 21 inclusive
Althorne D	779129 to 40 inclusive 779152 to 57 inclusive
	779266 to 68 inclusive 801310 to 12 inclusive
Special provision Ground	801348 to 50 inclusive
Credits have been reduced because of partial coverage of claims.	801355 to 57 inclusive 824323 to 25 inclusive
Credits have been reduced because of corrections to work dates and figures of applicant.	827255 to 60 inclusive 827267 to 69 inclusive
	3,400 DAYS CREDIT ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT R.S.O. 1980.
ecial credits under section 77 (16) for the following m	ining claims
credits have been allowed for the following mining cl	aims
not sufficiently covered by the survey] insufficient technical data filed
· .	
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626 (65/12)



Dntario

Ministry of Northern Development and Mines

February 18, 1988

Your File: 212/87 & 213/87 Our file: 2.10763

Mining Recorder Ministry of Northern Development and Mines 875 Queen Street East Box 669 Sault Ste. Marie, Ontario P6A 2B3 RECEIVED

Dear Madam:

RE: Notice of Intent dated February 3, 1988 Geological, Geochemical Survey and Data for Assaying submitted on Mining Claims SSM 753852 et al in the Area of David Lake

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

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

Yours sincerely,

you

W.R. Cowan, Manager Mining Lands Section Mines and Minerals Division

Whitney Block, Room 6610 Queen's Park Toronto, Ontario M7A 1W3

Telephone: (416) 965-4888

QHOK:p1

Enclosure: Technical Assessment Work Credits

cc: Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario Resident Geologist Wawa, Ontario

Ms Ruth Ditto 609 Granville Street Suite 1030 Box 10339 Pacific Center Vancouver, B.C. V7Y 165

	Ministry of	Depart of M	aute est	2.1	2.54	t Llaime	Lisled	on Yage	196
(V)	Northern Developmer	nt (Geophysical (Drik W.	K.# 213	187 ^{Ins}	tructions: -	If number	of mining claims	traversed
Or .ario	4 .	Geochemical a	nd Expendi	tures)		Note: -	Only days	credits calculate	d in the
1			$\overline{}$	Mining	Act		in the "Expenditor	es" section may t pend. Days Cr."	columns.
Type of	Survey(s)		Nel	winning	AU	Township	Do not use s or Area	haded areas below.]
	Bana konica	et Geolog	aciebo	Ass Ass	TAY S	DAI	VID LA	KES ARE	A
Claim H	RUTH DIT	τ0 •					Prospector's	Licence No. -6989	
Address	Address								
Survey (SO-609 Grani	n/le 57., r.o.	Box/03.	39 Pacit	ic Center, V	a ncouve	r, BC.	V7Y IG	5
S	ears Barr	Y & Associa	tes		24 06 8 Day Mo. 1	7 08 (r. Day	09 87 Mo. Yr. 1		
Name at	Senmous N	f Geo-Technical report)	Bay 20	FA (A)		.		1	
Credits	Requested per Each (Claim in Columns at r	ight	Mining Cla	aims Traversed (L	ist in nume	rical sequen	ce)	·
Special	Provisions	Geophysical	Days per	Mi	ning Claim	Expend.	Min	ing Claim	Expend.
Fort	first survey:	- Electromagnetic		SCW	753957	0 ave Cr.	Semi	DC20HC	20
E ir	nter 40 days. (This includes line cutting)	Magnetometer			755052	615	3311	733073	20
		Badiometria		-	723853	6.5	-	753876	20
For a	each additional survey:) the same grid:	Coto		Contraction of the second	753854	615	-	753877	20
E	nter 20 days (for each)	- Other	WE		753855	6.5	懲1	753878	20
	· RECEI	VËD	Q		753856	6.5		753879	20
		Geochemical			753857	20		753880	20
Man Da	JAN OF	4988vsical	Days per Claim	1.000	753858	20 /	alterna alterna del	753881	20
Com	plete reverse side	Electromagnetic			753859	6.5		253880	20
	MINING LAND	S SECTION		- And And	70305	6.5	1	70000	20
		Badiometric		and the second	703060	10		<u></u>	20
	Saul in C D	Austie			<u>f5506</u>	613		753884	20
	RECEI	V. E.D		· · · · · · · · · · · · · · · · · · ·	753862	6.5	-	753885	6.5
		Geological			753863	20		753886	6.5
Airborn	1:07 2 0	13007hemical			753864	20		753887	6.5
	7.8.9.10.11.12	P.M.]	Claim		753865	20		753888	6.5
Note		- Ciretromagneric			753866	20-		753906	6.5
	to Airborne Surgleys.	Magnetometer			753867	6.5		753907	6.5
		Radiometric			753868	6.5		253909	6.5
Expend	litures (excludes pow	er stripping)			77 (29,19	20		202909	6.5
Type of	Work Performed	ave (Good	~ 1			20		700101	10
Perform	ned on Claim(s)	115 (Geroken	J		752070	20	深 -	755710	6.5
SSM	753852 e	tal			+53871	au	1.5.	753711	6.5
					753872	20	-	753912	6.5
Calcula	tion of Expenditure Day	s Credits	Total		753873	20		753913	6.5
Tot	al Expenditures	Day	s Credits		753874	20		753914	6.5
\$	51,000,"	+ 15 = 3	3400	·			Total num claims cove	per of mining red by this	24 7
Instruct	lions	noortioned at the claim	holder's	p			report of w	ork.	<u>~~</u> ,
choi in cr	choice. Enter number of days credits per claim selected				For Office Use O	Inly	Mining Rec	LONT. ON order (ACTING	next ha
L				Recorded	1/11. 0	olan	160	Kenula	-
Date	Re	corded Holder or Agent (Signature)	3,400	Date Approved	as Recorded	Branch Dire	ector	
L No	V-17/8/	Degnour 2	eare		مريو ديور ديوري ومرويو			-	
I her	reby certify that I have a	personal and intimate k	nowledge of	the facts set f	orth in the Report	of Work anne	xed hereto. h	aving performed th	e work
orw	itnessed same during and	d/or after its completion	and the anne	exed report is	true.				
Name a	nd Postal Address of Per	rson Certifying		C (1)	lave Da	tarin	Por I	60	
	stymout MI	Jears 5	107 ×0	<u>00, 00</u>	Date Certified	/	Certified by	(Signature)	
1			•		Nor 19	187	Sar	moun Sea	~ I

1362 (85/12)

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Or ario	nt (Geophysical, Geochemical a	ork W.K. Geological, nd Expenditu	?# [,] ?13, res) Mining /	Lo Ins Act	t C/a ims tructions: _ Note:	Listed Please type If number exceeds spac Only days "Expenditur in the "E> Do not use s	on lage or print. of mining/clattis. ce on thic form, at credits calculate res" section may t (pend. Days Cr." ihaded areas below.	1 of 6 there a list. d in the be entered columns.	
Type of Survey(s)	at Early				Township	or Area			
Claim Holder(s)	ci createg	racebe	<u>H 55</u>	ANS	n	Prospector's	Licence No.		
RUTH DITTO A 46909									
1030-609 Gran	ille 57., P.O.	Box 1033	9 Pacif	ic Center, Vi	ancouve	er, B.C.	V7YIG	5	
Sears Barn Name and Address of Author (or	Survey Company Sears Barry & Associates Name and Address of Author (of Geo. Technical report) Date of Survey (from & to) 24 06 87 08 09 87 Day Mo. Yr. Day Mo. Yr. Day Mo. Yr. Day Mo. Yr.								
Seymour M. Sears, Box 2058, Wawa, Ontario									
Special Provisions	Geophyrical	Days per	Mining Cla Mir	ims I raversed (L	ist in nume Expend.	erical sequer	ice) ning Claim	Expend,	
For first survey:	Geophysical	Claim	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.	
Enter 40 days. (This	+ Electromagnetic	 	SSM	753852	6.5	SSM	95387 <i>5</i>	_20	
includes line cutting)	 Magnetometer 			753853	6.5		753876	20	
For each additional survey: using the same grid:	- Radiometric		1	753854	6.5	-	753877	20	
Enter 20 days (for each)	- Other	we	ار به و میتر محمد معنی میتر ا	753855	6.5		753878	20	
DECEI	VED	A		753856	6.5		753879	20	
	Geochemical		and the	753857	20		753880	20	
Man Days	4088vsical	Days per Claim	and the	753858	20 1	and the second second	753881	20	
Complete reverse side and enter total(s) here	- Electromagnetic		an a	753859	6.5		753882	20	
MINING LAND	S SECTION Maghetometer			7.53860	6.5		202043	20	
	Radiometric		- 63612	753861	6.5	and the second	Append C	20 .	
Sandy ACD	Neiselle V Other	· · · · ·		752001	15		733009	15	
Arcri	V Li juj			753002	013	1.0	13 3000	6.5	
	4007hemical			793003	20		753006	615	
Airborne Argins	P.M.	Days per	-	733064	20		753887	615	
71819110111121	1 3 3 4 5 6	Claim	-	753865	20		753888	6.5	
credits do not apply				753866	20-1		753906	615	
to Airborne Surtleys.	Magnetometer		-	753867	6.5		753907	6.5	
Eunonditures (avaludes nov	Radiometric			753868	6.5		753908	6.5	
Type of Work Performed	er stripping/		-	753869	20		753909	6.5	
Asse	tys (Geochem	·)		753870	20		753910	6.5	
SSM 753 RS2 D	tal			753871	20		753911	6.5	
				753872	20		753912	6.5	
Calculation of Expenditure Day	s Credits			753873	20		753913	6.5	
Total Expanditures	Day	Total /s Credits		753874	20		753914	6.5	
\$ 51,000,~	+ 15 = 3	3400				Total num claims cove report of w	ber of mining ered by this vork.	234 *	
Total Days Credits may be an choice. Enter number of day	portioned at the claim	holder's		For Office Use O	nly		Cont. on	next Pac	
in columns at right.			Total Days Recorded	Cr. Date Recorded	. /	Mining Rec	order (CTING	,	
Date Re Nov-19/87	corded Holder or Agent	(Signature)	3,400	Date Approved	o/8-7 as Recorded	Branch Dire	ector gla		
Certification Verifying Repo	ort of Work								
I hereby certify that I have a or witnessed same during and Name and Postal Address of Par	personal and intimate k d/or after its completion	nowledge of th and the annexe	e facts set fo ad report is t	orth in the Report o true.	of Work anne	exed hereto, h	aving performed th	ne work	
Saymour M.	Sears P	504 205	-8, W	awa , Oni	tarío	Pos I.	K0		
//	1			Date Certified	187	Certified b	y (Signature)		
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Ontario Ministry of Northern Development And Mines	nt (Geophysical, C Geochemical ar	ork Geological, ad Expendit	ures)	In	structions: – – Note: –	Please type If number exceeds spa Only days	or print. of mining claims ice on this form, at credits calculate	e Z 7 4 traversed tach a list. d in the	
	Coordination of the		Minina	Act	_	"Expenditu in the "E	res" section may t xpend. Days Cr." shaded areas below	columns.	
Type of Survey(s)		• 1. 1			Township o	r Area			
Claim Holder(s)	4 GBBClash	cab O	A-350	ry S	Da	Prospector	LICENCE NO.		
RUT	H DITTO	>			·····	Aq	-6909		
10307609 Granuille St., Box/0339 Pacific Conter, Vancouver, BL. V7Y 165 Survey Company (from & to) Total Miles of line Cut							ut		
Scars Barry & Associates Bay Mo. Yr. Day Mo. Yr. Day Mo. Yr.									
Seymonr Mi Sears									
Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)									
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For first survey: Enter 40 days, (This	- Electromagnetic		SSM	753915	6.5	SSM	753954	6.5	
includes line cutting)	Magnetometer	·	100 (11)(11) 100 11(10)(11)	753916	6.5		753955	6.5	
For each additional survey:	- Radiometric			753917	6.5		753956	6.5	
using the same grid: Enter 20 days (for each)	- Other	B		753918	6.5 -		753957	6.5	
	Geological -	0000		753919	20		753958	6.5	
	Geochemical			753920	20		753959	6.5	
Man Days	Geophysical	Days per Claim	and a second	753921	20	The second	753960	6.5	
Complete reverse side and enter total(s) here	- Electromagnetic			753922	20	and a second s	753961	6.5	
	- Magnetometer			753923	20		753962	6.5	
Sault of Dy	· 비트 - Radiometric			753924	20		753963	6.5	
RECEIN	L. Other		11. 11.5- 	752925	20		P53964	20	
	Geological			753926	20	7	753965	20	
A.M. 110V 2 0 10	Geochemical		The second second	753927	20		753966	20-	
Airbo 7,819/10/11/12/1	181415,9	Days per Claim		752928	20		753969	6.5	
Note: Special provisions	Electromagnetic			753929	20		753968	6.5	
credits do n # t apply to Airborne Surveys.	Magnetometer			753930	20		753969	20	
	Radiometric			753931	20		753972	20.	
Expenditures (excludes pow	er stripping)		1	\$ 53932	20		709109	6.5	
Type of Work Performed				753923	6.5		771201	20	
Performed on Claim(s)				952934	15		229111	20	
<u>SSM 753 B</u>	isa etal				6.5		7712-2	20	
				755150	16		771220	20	
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\$ 51,000.	\div 15 = 3	400	L	100 100		Totàl nun claims cov	ber of mining vered by this	134 7	
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Date Recorded Holder or Agent (Signature)			Data Approved as Recorded Breach Director			rector			
Nov 19/87	. Date Approved as necoldar Disector								
Certification Verifying Report of Work									
or witnessed same during and/or after its completion and the annexed report is true.									
Name and Postal Address of Person Certifying Schemeric Mc Sanna Pre 2058 Warra D. + PASILA									
(ne Suar) for -			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	Date Certified	Date Certified				
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Northern Developmen	nt (Combusies)	ork Coolesiaal		Ins	-	If number	of mining claims	traversed
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	0	·	Mining	A at .		"Expenditu in the "E	ures" section may l xpend. Days Cr."	columns.
Type of Survey(s)	G[N7			401	Township	Do not use or Area	shaded areas below	·
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Claim Holder(s)						Prospector	Licence No.	
Address A 46909								
1030-609 Granu	ille St. P.O.	Box 103	39 Pac	ific Centor	. Vanc	ouver	BC, VIY /	65
Survey Company	ς Δ -	·+	-	Date of Survey	(from & to)	09 87.	Total Miles of line C	Cut
Name and Address of Author (of Geo. Technical report)								
Seymour M.	Sears, 6	× 205	58, U	Jawa (Dat.	Pos	iko.	
Credits Requested per Each C	Claim in Columns at r	ight	Mining Cla	ims Traversed (L	ist in nume	rical seque	nce)	
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For first survey: Enter 40 days, (This	- Electromagnetic		SSM	779115	6.5		779 138	6.5
includes line cutting)	 Magnetometer 		a star a star	779116	6.5		779139	6.5
For each additional survey:	- Radiometric		a grand ar a	779112	6.5		729140	6.5
using the same grid:	- Other	1AS	5	779110	10	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	779141	20
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	Geochemicel	- Bro		777117	6.5		770142	20
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and enter total(s) here	 Electromagnetic 		· · · · · · · · · · · · · · · · · · ·	779122	20		779145	20
	 Magnetometer 			779123	20	- 41 - 11 - 41 - 11	779146	20
	• Radiometric			799124	20		779147-	.20
	- Other			779125	20		779148	20
	Geological			229126	20		779149	20
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credits do not apply				997121	6.5		77/132	6.5
to Airborne Strveys.	magnetometer		-	477130	6.5		77753	6.5
Expanditures (avaludes now	Radiometric			799131	6.5		779154	6.5
Type of Work Performed	er stripping/		_	779132	6.5		779155	6.5
Assa	ys Geocher	~)		779133	6.5		779156	6.5
Performed on Claim(s)				779134	6.5		779157	6.5 -
201 12202	+ et al			779125	6.5		779266	6.5
				779121	65		729267	4.5
Calculation of Expenditure Day	s Credits	Total		779127	65		779768	6.5
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Total Days Credits may be a	portioned at the claim I	holder's		or Office Lite C	nly		nt. On Nev	+ Page
in columns at right.	s credits per claim select	eđ	Total Days	Cr. Date Recorded		Mining Re	corder	10-290
			111601060	Recorded				
Non 9/87 Recorded Holder or Agent (Signature) Soman Soa				Date Approved	as necorded	Branch D	rector	
Certification Verifying Report of Work								
I 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								
Name and Postal Address of Person Certifying								
Seymour M. Sears, Box 2058 Warra Ontario POS/kO.								
/		Date Certified	2/02	Certified	by (Signature)			
1362 (85/12)				1 Non !!	//0/		mour D	ear-

Ontario	Report of Wo (Geophysical, Geochemical an	ork Geological, nd Expendit	tures) Mining A	Ins Act	tructions: Note:	Please type If number exceeds spa Only days "Expenditu in the "E Do not use	or print. of mining claims ce on this form, at credits calculate res" section may l xpend. Days Cr." shaded areas below.	$\frac{4}{100} \frac{4}{100} \frac{6}{100}$ traversed tach a list. d in the ce entered columns.		
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Claim Holder(s)		M H	- <u>55ays</u> _		Prospector's Licence No.					
Ru Address	th Ditto			· · · · · · · · · · · · · · · · · · ·		A. 4	6909			
1030-609 Granu	ille St., P.O.B	64 /0339	Pacific	Conter, Va.	ncouver	B.C.	V7Y 165			
Survey Company Sears Barry	Et Associati	es		Date of Survey 24 06 S Day Mo.	(from & to) 7 DB Yr. Day	09 87. Mo. Yr.	Total Miles of line C	Sut		
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Credits Requested per Each	Claim in Columns at r	iaht -	Mining Cla	ims Traversed (L	ist in nume	rical seque	<u>03</u> 7.0.			
Special Provisions	Geophysical	Days per	Min	ning Claim	Expend.	Mi	ning Claim	Expend.		
For first survey:	- Electromagnetic		St m	ROD922	Days Cr.	SCM	PAIZ 75	20		
Enter 40 days. (This includes line cutting)	• Magnetometer		09111	000722	-20	>>111	00/523	20		
	Badiamataia		-	800725	20	2	80/526	20		
For each additional survey: using the same grid:	- nadiometric		-	800924	20-		801327	20		
Enter 20 days (for each)	- Other	GN8		801306	20		80/328	20		
	Geologicat	200		801307	20	· · · · · · · · · · · · · · · · · · ·	801336	20		
	Geochemical		and the second se	80/308	20		80/337	20		
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11	Cther Vie			BOISIS	20		801342	20		
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A ALL TOUY & U ILL	Geochenical			801315	20		801344	20		
181:10,11,12,1:?	81415:3	Days per Claim		B01316	20		801345	20		
Note: Special provisions	Electromagnetic			801317	20		801346	20		
to Airborne Surveys.	Magnetometer			80/3/8	20		B0/347	20/		
	Radiometric			60/319	20		B01348	6.5		
Expenditures (excludes pow	ver stripping)			B0/220	20		DA/249	6.5		
Type of Work Performed				60/221	20		PAIZED	161		
Performed on Claim(s)	15 (grochin)			001200	20		80/350	0.5		
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Calculation of Expenditure Day	ys Credits	Tatal		801324	20	ana an	B01353	20		
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choice. Enter number of days credits per claim selected in columns at right.			Total Days	Cr. Date Recorded	νιγ	Mining Re	corder	<u> </u>		
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Date Nor 19/87 Recorded Holder or Agent (Signature)				Date Approved	as Recorded	Branch Di	rector			
Certification Verifying Rep	ort of Work		L			<u> </u>	•			
I hereby certify that I have	a personal and intimate l	nowledge of	the facts set fo	orth in the Report	of Work anni	exed hereto,	having performed t	he work		
Name and Postal Address of Pe	ison Certifying	and the anne	exea report is t							
Scymour	M. Sears	, Bo	+ 205	8, Wan	a, D.	ntari b	POS 1KO	.		
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Ontario Geochemical and Expenditures) Indus "Expenditures" rection may be entered in the "Expend. Days of children's in the "Expend. Days of children's includent's in								
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in columns at right, Columns at right, Recorded								
Date Becorded Holder or Agent (Signature) Date Approved as Recorded Branch Director								
Nov-19/87 Segmen Sean								
Certification Verifying Report of Work								
I 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 and the annexed report is true.								
Name and Postal Address of Person Certifying								
Date Certified / _ [Certified by (Signature)								
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Ministry of Northern Developmen and Mines	nt (Geophysical, Geological,		Ir	nstructions: - -	fa: Please type or print, If number of mining cla exceeds space on this form	ge <u>6</u> 7 (ims traversed , attach a list.		
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	dib	Mining	Act	- !	Do not use shaded areas be	ow.		
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AREA OF DAVID LAKES 85° 30'00" -48° 07'30 DISTRICT OF THUNDER BAY SAULT STE. MARIE MINING DIVISION SCALE I-INCH = 40 CHAINS LEGEND SATED LAND CRUWN LAND SALI LEASE LOCATED LAND LICENSE OF OCCUPATION MINING RIGHTS - ONLY SURFACE RIGHTS ONLY ROADS. IMPROVED RCADS KING'S HIGHWAYS RAILWAYS POWER MARSH OR MUSKEG MINES NOTES 400' Surface Rights Reservation around & rivers DATE OF ISSUE TAULT STE MARIE Stilling Accorder's Office NATIONAL TOPOGRAPHIC SERIES 42 C 4 Li aarceino. PLAN NO - M-12. Sector and the sector and the sector of the omende en é le montur al r**esour**ce




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17 25 17 33 17 37 12 25 11.49 24 71 7 20 40 183 11.11 3.5 5 16	
$\begin{bmatrix} -1 & -1 & -1 & -1 & -1 & -1 & -1 & -1 $	
B 23 56110 20 46 21 19 31 20 55 9 12	
8-10 11-18 2-20 Aardvark Lake 15-170 26-55 8-13 - 13-105 6-11 9-29 11-18 1	9-38 14-28 11-23 9-24 6-8 12-86 10-44 5-16 14-8 13-28 13-15 8-1 14-25 9-24 - IN
0 20129 13 23 11 30 10 62 30 10 69 6177 18 87 9 12 7 37 0 11 18 18 27 9 25 10 69 (8 77) 18 87 9 12 7 37	
	2+2 13-17 9-22 5-10 B 0.023 16-26 13-19 12-29 67 (10-69) 18-32 18-28 728 32-63 18-68 B 0.0 (No. 2 Grid)
$\frac{14}{16} + 16 + 16 + 12 + 25 + 10 + 12 + 25 + 10 + 13 + 10 + 10 + 10 + 10 + 10 + 10$	2+1 5 9 6 1 5 4 16 36 6 10 17 17 21 34 16 62 12 12 12 1 2 10 8 10 27 12 17 3 4 13 9 19 44 11 20 13 15 13 25 10 1 16 15 10 12 1 13 12 10 8 10 27 12 17
W 26 32 15.36 121110 6 20 8 12 12 18 2 53 2 4 12 19 311 12 43	5 9 5 15 13 14 7 20 13 22 3 23 13 22 ²¹ 55 14 9 13 50 17 26 610 19 30 11 22
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7 22 16 38 6 22 28 57 8 39 17 39 6 12 8 27 9 18 14 24 28 153 7 15 31 10 53	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{12}{13} + 48 = 2 - 8 = \frac{8}{10} = \frac{15}{15} - \frac{15}{15} = \frac{16}{17} = 16$
13 22 7 27 11 45 6 12 21 29 5 19 6 9 26 65 21 55 11 20 5 9 178	16 ⁵⁷ 7 ⁵ 514 714 911 1169 1315 722 17123 20129 1520 1457 19122 1287
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	9-38 12-18 14-11 12-27 <u>7-184</u> 11-11 11-61 15-14 14-17 15-34 14-19 - 10-28 55
ZZ 499 0 12 2 12 17 30 17 14 3 31 17 15 22 61 8 14 8 15 9 24 12 17 16 48 11 17 7 13 13 17 0 14	11 34 11 26 12 14 6 22 8 62 13 41 10 16 12 34 7 25 55 <u>54 122 78 66 23 19</u>
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13:10 19:17 20:19 17:18 7-43 21:33 11-14 7:9 20:19 18:20 19:39 14:22 30:36 18:30 Devil Lake 9:24 18:14 14:47 11:10 18:19 26:52 13:19 20:33 8:39 17:12 18:17 19:32 28:57 19:36 11:33 40:84 9:5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$



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