R. W. PHENDLER, P. Eng., GEOLOGICAL CONSULTANT, EXPLORATION AND MINING 7360 DECOURCY CRES., RICHMOND, B.C. V7C 4ED (604) 271-2588



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REPORT

on the

RIDLEY LAKE PROPERTY

PORCUPINE MINING DIVISION
ONTARIO

for

CARLSON MINES LTD.

Бу

R. W. PHENDLER, P. ENG. (B.C.)

OM83-5-C-247

Vancouver, Canada

October 25, 1982

TiAska/ والم AL BERTA! SASK ATCHEWAN MAHITOEA Timmins UNITED STATES LOCATION MAP RIDLEY LAKE PROPERTY CANADA SCALE: 1": 350 MILES

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ILLUSTRATIONS:

Fig. 1 - Location Map 1" = 350 miles

Fig. 2 - Property Map 1" = 1320 feet

SUMMARY AND CONCLUSIONS

Lying within a rather favourable northeast striking gold bearing belt in metavolcanics, the Ridley Lake property has the possibility of containing narrow vein gold deposits.

The property is located in the Porcupine Mining Division of north central Ontario about 60 miles southwest of Timmins and 12 miles west of the Orofino gold property. The Orofino gold property has known reserves of 750,000 tons averaging 0.15 oz. Au/ton⁽¹⁾ and has been under further intensive exploration over the past several years by Northgate Explorations. Other significant former gold producing properties in the area are the Tionaga gold mine in Horwood Township, the Rundle gold mine in Newton Township and the Kenty gold mine in Swayze Township. ⁽²⁾Dome Explorations is presently carrying out an extensive exploration program over the three townships: Coppell, Newton and Dale, directly east of the Ridley Lake property. ⁽³⁾

Mineralization on the Ridley Lake property consists of a number of east, northeasterly striking quartz veins, (some associated with shear zones), which were discovered and trenched in 1932-1933 as reported in the Ontario Geological Survey's Gold Deposits of Ontario, Part 2, 1979.

The northern showing on the property is known as the Cyril Knight

Occurrence and was reported as a gold-bearing quartz vein with an indicated length of 800 feet and a maximum width of ten feet. (4) Samples taken by the writer average 0.05 oz. Au/ton across 3.9 feet over a length of 350 feet with the best sample assaying 0.130 oz. Au/ton across 2.7 feet. Additional prospecting along strike is required to fully explore the vein.

The southern showing on the property is reported as the Agaura

Occurrence⁽⁵⁾, and only one of the two reported showings has been located to date. This consists of a northerly dipping shear zone with associated lenses of quartz. Old trenches have been partially cleaned out over a strike length of 450 feet, and sampling carried out by the writer indicate the presence of gold values over this length with the best sample assaying 0.478 oz. Au/ton across 1.5 feet.

With the present price of gold, the favourable geological setting of the property and the presence of gold bearing shear zones and quartz veins, it is felt that the Ridley Lake claims warrant a considerable amount of exploration.

RECOMMENDATIONS

It is recommended that: :: Phase I

- A grid be established over the claim group with lines spaced at
 200 foot centres and run in a northwesterly direction.
- 2) Systematic prospecting be carried out.
- Geochemical sampling be carried out on 200 ft. centres on the whole property and 50 ft. centres around the veins to check for extensions of existing veins along strike. Samples should be taken from the B2 horizon about 8" 10" below the surface. A mattock should be used and samples should be placed in waterproof Kraft heavy paper bags (4"x10") and should be analyzed for gold content.
- 4) An electromagnetic survey, a magnetometer survey and an I.P. survey be carried out.
- 5) Trenching and stripping be carried out.
- 6) Diamond drilling be carried out.

Phase II

Additional diamond drilling be carried out.

COST ESTIMATE

Phase I

	••				
1)	Line Cutting - 30 miles @ \$300./mile			\$	9,000.
2)	Geochemical survey and analysis				8,000.
3)	EM and Magnetometer Survey @ \$300./mi	le			9,000.
4)	IP Survey - 20 miles @ \$1,000./mile				20,000.
5)	Geological Mapping and Prospecting				5,000.
6)	Trenching, stripping and sampling				7,000.
7)	Engineering and Geology				7,000.
8)	Travel and Camp costs				10,000.
9)	Diamond Drilling - 1,000 ft. @ \$25./f	t		•	25,000.
			Total	\$1	00,000.
٠	**	15% Cont	ingencies		15,000.
		Total -	Phase I	\$1	15,000.
Pha	se II				
1)	Diamond Drilling - 3,000 ft. @ \$25./f	t.		\$	75,000.
2)	Engineering, Geology and Assays		•		12,000.
	•		Total	\$	87,000.
		15% Cont	ingencies		13,050.
		Total -	Phase II	\$1	00,050.

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The sum of \$115,000 should be made available at this time to carry out Phase I of the above program. Favourable results may warrant proceeding to Phase II.

Respectfully submitted,

R.W. Pheniler A. Eng.

R.W. PHENDLER

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INTRODUCTION

At the request of Mr. R. Platt, President of Carlson Mines Ltd., the writer examined the Ridley Lake property on September 5, 1980. He was accompanied and guided by Mr. M. Hibbard of Connaught, Ontario, who was instrumental in bringing the property to the attention of Carlson Mines Ltd.

During the examination the writer examined all known trenches and pits and took sixteen chip and dump samples. These samples were assayed at Acme Analytical Laboratories, Vancouver.

LOCATION, ACCESS AND DESCRIPTION

The Ridley Lake property is located about 100 miles due north of Sudbury, 60 miles southwest of Timmins and 320 miles northwest of Toronto in north central Ontario. The property is most easily reached by pontoon equipped aircraft landing on Ridley Lake at the north end of the claim group. There is presently no road access directly to the property but existing timber roads come to within five miles of the claim group. A link-up to these existing timber roads would thus give access to Highway 101 west at Foleyet, Ontario, which is 60 miles west of Timmins on Highway 101.

Ample water and timber is available nearby for an exploration or mining venture. Local vegetation consists of hard and soft wood trees of moderate growth.

No buildings exist on the property although a two-tent camp has been established at the north end of the property on the shores of Ridley Lake.

PROPERTY AND OWNERSHIP

The Ridley Lake property consists of the following mineral claims:

Claim Record Number	Recording Date	No. of Claims
636282 - 636286	Mar. 30, 1982	5
634397 - 634400	Mar. 11, 1982	4
633567 - 633570	Mar. 11, 1982	4
619084 - 619085	Mar. 30, 1982	· 2
633592 - 633596	Mar. 25, 1982	5
•		20

All claims were staked for Ingamar Explorations Limited and were subsequently purchased outright by Carlson Mines Ltd. on June 4, 1982.

HISTORY

It appears that both the Cyril Knight and the Agaura showings were discovered in 1932-1933 and were trenched, prospected and sampled by separate organizations.

The Cyril Knight Prospecting Co. Ltd. carried out extensive trenching and sampling in 1932, exposing a gold-bearing quartz vein with an indicated length of 800 feet. (4) These trenches are located a few tens of feet from Ridley Lake and extend intermittently in a northeasterly direction.

Nothing more appears to have been done until 1980 when the trenches were located and partially cleared out. This work was in the process of being done at the time of the writer's examination.

Surface prospecting, trenching and channel sampling was carried out on the Agaura showings soon after discovery in 1933 by Agaura Explorations Ltd. The Agaura showing consists of two parallel zones, (about 500 ft. apart), both of which are reported to have been trenched in a number of locations and to have an indicated strike length of 900 feet (south zone) and 500 feet (north zone). (5)

Prospecting carried out in 1980, which is believed to be the first work done on the property since 1933, has located five trenches on a shear zone with associated quartz. This appears to be the north Agaura showing, and some trenches have been cleared of vegetation. This showing was examined and sampled by the writer but the south zone has not been located to date.

GEOLOGY AND MINERALIZATION

The area in which the Ridley Lake property is located is underlain by metavolcanics and metasediments of Archean or Early Precambrian age and lies within the Superior Structural Province.

The greater part of the Superior Province consists of granitic rocks divided by narrow linear belts of metavolcanics and/or metasediments into subprovinces. The area under discussion lies within the Abitibi subprovince and here the "greenstone" or meta volcanic belt strikes east-west and is about twenty miles wide. The Ridley Lake property lies close to the northern edge of the greenstone belt near the west end of the Swayze gold belt. This belt strikes N70°E. and can be traced for at least forty miles. Within this belt are numerous gold occurrences.

The mineralization at the Cyril Knight showing consists of a gold bearing quartz vein in schistose andesite with an indicated length of 800 feet and a reported maximum width of ten feet. (4) It strikes N65°E and dips 80°-85° SE. The quartz is badly fractured in a direction parallel to the strike of the vein and carries small amounts of pyrite and native gold.

During the property examination, the writer observed the vein along a strike length of 550 feet, but additional prospecting and the clearing of old trenches remains to be done.

Chip samples taken by the writer are as follows:

Sample No.	Width	Oz. Au/ton	Oz. Ag/ton	Loc	atio	on_				
1632	0.8	0.038	0.01	25'	NE	of	SW	end	of	trench
1633	2.0	0.130	0.03	651	11	••	Ħ	••	11	**
1634	2.7'	0.013	0.03	951	11	*1	**	**	11	11
1635	5.51	0.064	0.01	140'	11	#1	•	11	**	11
1636	5.21	0.015	0.01	170'	11	11	11	H	11	17
1637	5.01	0.001	0.01	205'	**	n	**	77	11	
1638	3.01	0.092	0.02	380'	Ħ	11	**	10	11	11
1639	3.51	0.003	0.01	430'	11	Ħ	11	**	**	
1640	0.71	0.001	0.01	5201	11	**	11	11 -	11	11

Samples 1633 to 1638 average 0.05 oz. Au/ton (uncut) across an average width of 3.9' over a length of 350', although the samples were taken at 30 foot intervals and 120 feet remains untrenched. It is proposed that more trenching by back-hoe be carried out to permit the drilling and blasting (and sampling) of the vein at 5 foot intervals.

One mile south of Ridley Lake are the two Agaura showings. The north zone consists of a band of strongly schistose tuffaceous andesite striking N80°E with associated lenses of quartz. It was traced in 1933 by trenches for a strike length of 500 feet, but only 300 feet was seen by the writer due to heavy vegetation and caving of trenches on the east limits. Dip varies between 50° and 75° northwest.

Chip and dump samples taken by the writer are as follows:

Sample No.	Width	Dz. Au/ton	Location
1625	dump	0.021	selected pyrite - trench G
1626	dump	0.011	selected quartz - trench G
1627	1.0'	0.037	trench G
1628	1.0'	0.001	trench H
1629	8.01	0.008	trench H
1630	4.01	0.012	trench J - pyrite
1631	1.5'	0.478	trench J - quartz

Sample locations are shown on figure 2.

As reported in the Ontario Geological Survey's <u>Gold Deposits of</u>
<u>Ontario, Part 2, 1979</u>, there is a carbonatized quartz porphyry dyke
(up to 12' wide) located 50 feet south of the shear zone and parallel to it.

The south zone, which has not been located as yet, is reported in the Ontario Geological Survey's Gold Deposits of Ontario, Part 2, 1979, to consist of three short quartz carbonate veins that strike N70°E and are explosed in trenches for a total distance of 900 feet. The centre vein has a reported length of 70 feet and width of 1.1 feet and is reported to contain galena and some visible gold. Additional prospecting is required to relocate these showings. Government published aeromagnetic maps show a north-easterly trending zone with moderate to high magnetic response extending through the Ridley Lake property.

There are no reports nor is there any evidence on the property that either the Agaura or Cyril Knight showings have been diamond drilled.

In May, 1982, the property was examined by the exploration manager of Newmont Explorations and grab samples were taken that assayed 0.242 and 0.252 oz. Au/ton (see fig. 2). (6)

COMMENT

Sampling carried out by the writer from old trenches indicate the presence of modest assays of gold in both the Cyril Knight and the Agaura showings. The area is considered to have medium to high mineral potential by engineers of the Ontario Geological Survey, taking into account the geological environment and relationship with known deposits. Although distance from a property with a proven reserve has little or no bearing on whether a property has potential, the location on the same northeasterly striking gold-bearing belt is important.

The number of gold prospects within a 20 mile radius of the Ridley Lake property is impressive (at least 20) as are the reserves developed on the nearby Orofino property. Recent exploration activity in the area includes the optioning of 66,000 acres covering three townships immediately east of Carlson Mines' ground by Dome Explorations Limited and Inco's exploration program covering about 25,000 acres in Denyes and Swayze Townships to the south. Hollinger Explorations and Lacana Mines have also acquired claims adjoining the Carlson property to the south and the west.

Sufficient encouragement has been received on the Ridley Lake property to warrant further exploration.

Respectfully submitted,

R R PALNOLEA P. Eng.

R.W. PHENDLER

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CERTIFICATION

I, R:W. Phendler, of 7360 Decourcy Crescent, Richmond, in the Province of British Columbia, hereby certify as follows:

- 1) THAT I am a registered member of the Association of Professional Engineers of British Columbia No. 4421 1963.
- 2) THAT I am a graduate of McGill University, Montreal, with a Bachelor of Science degree in geology.
- 3) THAT I have practiced my profession continually as mine, exploration and consultant geologist for the past 27 years in all parts of Canada, U.S.A., Mexico, Peru, Columbia and Chile.
- 4) THAT I have no interest directly or indirectly in the Ridley Lake claims nor do I own directly or indirectly, any shares of Carlson Mines Ltd., nor do I expect to.
- 5) THAT the information contained in this report was compiled as a result of my examination of the Ridley Lake claims on September 5, 1980.
- 6) THAT I hereby consent to the publication of my report entitled "Report on the Ridley Lake Property, Porcupine Mining Division, Ontario", dated October 25, 1982, in a prospectus or statement of material facts.

R.W. STENOLER P. Eng

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BIBLIOGRAPHY

- (1) The Northern Miner, September 4, 1980, front page
- (2) Gold Deposits of Ontario, Part 2, 1979, Ontario Geological
 Survey; Gordon, Lovell, deGris and Davie, page 69, 78, & 86
- (3) The Northern Miner, September 30, 1982, page 11
- (4) <u>Gold Deposits of Ontario, Part 2, 1979</u>, Ontario Geological Survey; Gordon, Lovell, deGris and Davie, page 116
- (5) Gold Deposits of Ontario, Part 2, 1979, Ontario Geological
 Survey; Gordon, Lovell, deGris and Davie, page 116
- (6) Letter from Newmont Explorations of Canada Limited to Carlson
 Mines Ltd. dated October 1, 1982.

See corresponding Addendum number for above references.

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SEPTEMBER 4 1980

VOL. 66 NO. 26

FOUNDED 1915

Two drills at work

Asarco confirms gold find under deep overburden

By M. R. Brown
What appears to be a significant

spring on the east side of the lake. Drilling has been under way all

Planning for 26,000 ft.

Northgate stepping up drill program on Cons. Orofino's gold property

Encouraged with its findings on the Horwood Lake gold property of Cons. Orofino Resources (VSE), Northgate Exploration is going to expand its drill program there. This year's expenditures will now exceed \$700.000.

Under the original agreement Northgate was committed to spend \$250,000 in the first of a three-stage planned expenditure of \$1.3 million to earn at least a 60% interest in the joint venture properties which include the 27-claim Orofino mine group, 65 miles southwest of Timmins. The scheduled 10,000-ft. drill program is now to be expanded to 26,000 ft., with a second machine to be added, a Northgate official tells The Northern Miner. It is expected that at least 22,000 ft. will be completed at the mine site by year end.

Drilling commenced in May in a program initially designed to confirm and extend the known gold deposit with previously estimated reverses of 757,960 tons to a depth of

D ft. averaging 0.15 oz. gold per ton, including 343,745 tons with a cut grade of 0.23 oz. gold per ton

within the first two levels developed in earlier underground work.

Drilling has now confirmed, within the area tested, previous assay values, and in several instances new veins and sulphide zones have been encountered. The tenor of values intersected in the current program range between 0.123 oz. gold per ton over 1.5 ft. to 0.279 oz. over a core length of 17.9 ft. Holes are vertical with the deepest intersection at 992 ft.

Crews have been working on the property since last November, doing geological mapping, geophysical surveying, detailed trenching and sampling throughout many areas within the 80-claim continuous block extending approximately 5.5 miles east-west and about one mile north-south that constitutes the original joint venture property. Recently, 57 additional claims have been staked to the north and north-sast of the original block and also surround the Tionaga patented ground. The latter was a former gold producer in the 1930s.

See Page 2

Agnico-Eagle to sink new 4,000-ft. shaft at its gold mine

Agnico-Eagle Mines, fast developing into one of this country's leading gold producers, is going to sink a brand new 4.000-ft. shaft from surface at its main Eagle mine in the Joutel area of Northwestern Quebec. To cost an estimated 46 million, it will provide more ready access to the company's adjoining Telbel property on which it is now developing the depth extension of the main orebody with excellent results, Paul Penna, president and managing director, tells The Northern Miner.

Northgate

From Page I

While the concentration of activity has been in the shaft area, three showings have been investigated during the summer, the most important of these being the Gifford prospect where a sulphide-bearing shear zone is exposed over a length of 2,000 ft. and ranges in width from a few feet to over 100 ft. This showing has now been exposed in 10 new trenches, measures approximately 770 ft. by 15 ft. and extensively sampled, showing encouraging and erratic gold assays. A program of exploratory drilling totalling 4.000 feet is scheduled to commence early in September in a series of holes criss-crossing the trenches. The Gifford Prospect is located approximately four miles east of the Orofino shaft and a road is being constructed to the area for this proNote

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Alberta wait fo

By Nicholas C CALGARY — TI "dramatic" reduction i \$6 million cost to Cana ing foreign oil lies in to orderly, development oil sands, an internati conference was told in week.

Brahm D. Prassad. Alberta Energy Reson vation Board's mining: that the province's oilits represent one-thirds known potential of isources.

He suggested that, the billions of dollars spent annually on oil the rapid development and other energy sour would be creating a muble economic climate.

Planning for 26,1

Northgate on Cons. (

Encouraged with its e Horwood Lake gold ons. Orofino Resour orthgate Exploration pand its drill program ar's expenditures will on oro

00,000. Under the original rthgate was committ 50.000 in the first of a nned expenditure of earn at least a 60% in: nt venture propertie de the 27-claim On up. 65 miles southw ns. The scheduled 10 gram is now to be e 000 ft., with a second added, a Northgate (e Northern Miner. It at least 22,000 ft. w ed at the mine site h rilling commenced i gram initially design and extend the know it with previously es

ADDENDUM- 2

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Corporation Files, Mineral Resources Branch, Ontario Ministry of Natural Resources, Hardiman Bay Mines Limited.

ODM 1937, Vol.48, pt.2, p.23.

ODM 1978, Report 169, p.46 (Hardiman Bay Mines Limited).

Tionaga (Smith-Thorne) Mine (Past Producer)

MAIN METALS: Au, Ag

LOCATION: Approximately 21 miles south-southeast of Foleyet, on the east shore of Horwood Lake, south of Hardiman Bay, in south-central Horwood Township. Shaft in patented claim \$25425. Latitude 47.95°, Longitude 82.32°.

Map reference: ODM 2329, Horwood Lake (Le-

fever, Mrs. F. and J. Jr.).

GEOLOGY: Northeast-trending, folded, Early Precambrian mafic lava is the dominant rock type underlying the area. Intrusive into the volcanic rocks are Early Precambrian metagabbro and porphyritic diorite, the felsic Hardiman Lake Pluton and quartz-feldspar porphyry dikes of Kenoran age, and late northeast- and northwest-trending diabase dikes. The Horwood Lake Fault and the Hardiman Bay Fault trend, respectively, north and northeast through the area.

On the property, the rocks are mainly andesite and basalt which strike northeast and dip 50°NW. They are cut by quartz-feldspar porphyry dikes which, for the most part, have a strike parallel to

the lavas.

ECONOMIC FEATURES: The main showing is a gold-bearing, quartz-carbonate vein which cuts the basic lavas and the quartz-feldspar porphyry. Mineralization consists of visible gold, pyrite, chalcopyrite, pyrrhotite, galena, sphalerite, stibnite, and tourmaline. The vein strikes N80°E, and dips 45°N at surface and 58°N at the 230-foot level. On the 400-foot level it is 300 feet long and has widths ranging from 2.5 to 6 feet. The vein has been developed to a depth of 700 feet.

OWNERSHIP: J.E. Lefever

HISTORY: 1933-1935: Property staked, and trenching and diamond-drilling operations carried out under the direction of G.A. Thorne and W. Smith.

1935-1936: Two-compartment shaft, inclined at 45 degrees, sunk by Hollinger Consolidated Gold Mines Limited to a vertical depth of 434 feet. Levels established at 140, 230, and 400 feet.

1937-1939: Shaft dewatered and deepened to 520 feet with additional levels established at 320 and 500 feet. In 1938 a 50-ton amalgamation mill was

installed. The following table is a summary of underground development:

	Dr	ifts	Cros	scuts	Raises			
Lavel	(1	eet)	(fe	et }	410	(feet)		
(feet)	1939	Total	1939	Total	1939	Total		
140	74	650	-	90	95	91		
230	-	136	-	75	-	•		
320	-	284	-	39	125	125		
400	48	827	20	380	48	6 3		
500	_	272	-	169	101	141		

Some diamond-drilling done from underground in 1939. Mining and milling operations, being carried out by Tionaga Gold Mines Limited, ceased in May, 1939 when ore reserves were exhausted.

PRODUCTION:

Gold Silver Ore Milled Recovered Grade
Year (ounces) (ounces) (tons) (ounce of Au per ton)
1938, 1939 2299 404 6653 0.35
REFERENCES: DEMR Ottawa Mineral Development

REFERENCES: DEMR Ottawa, Mineral Development Sector Files.

ODM 1935, Vol.44, pt.7, p.34, 35 (G.A. Thorne).

ODM 1937, Vol.46, pt.2, p.17, 18.

ODM 1940, Vol.49, pt.1, p.17, 207.

ODM 1978, Report 169, p.46, 47 (Mrs. F. Lefever and J. Lefever Jr. (Smith-Thorne Mine)).

KEITH TOWNSHIP (NTS 42B/1)

Hoodoo Prospect

MAIN METALS: Au

LOCATION: Approximately 12 miles southeast of Foleyet, in east-central Keith Township, Latitude 48.14°, Longitude 82.26°.

Map reference: ODM 1950-4, Parts of Keith and

Muskego Townships.

GEOLOGY: Early Precambrian rocks, consisting mainly of mafic metavolcanics, with lesser amounts of felsic metavolcanics, metasediments and iron formation, are tightly folded and trend easterly. Intrusive into these rocks are Early Precambrian mafic and ultramafic sills, granitic rocks of Kenoran age, and late north-trending diabase dikes. Strike faults mainly parallel to the regional trend, and northeast cross-faults are prominent.

The rocks underlying the property are mainly andesitic and rhyolitic lavas. Serpentinite occurs as a sill-like body in andesite. A large mass of granite, the Kukatush Pluton, is intrusive into the southern margin of the metavolcanics.

The main showing consists of quartz veins and quartz-carbonate stringers, 1 foot to 3.5 feet wide, in sheared and crenulated dacite. Some encouraging gold values have been obtained from surface sam-

ADDENDUM- 2

Township, Technical Survey File 63.1817 and Diamond-Drilling Report 19,

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Gold Silver Ore Milled Recovered Grade Year (ounces) (ounces) (tons) (ounce of Au per ton) 1938, 1939 2299 404 6653 0.35 REFERENCES: DEMR Ottawa, Mineral Development:

Sector Files.

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Map reference: ODM 1950-4, Parts of Keith and

Muskego Townships.

GEOLOGY: Early Precambrian rocks, consisting mainly of mafic metavolcanics, with lesser amounts of felsic metavolcanics, metasediments and iron formation, are tightly folded and trend easterly, intrusive into these rocks are Early Precambrian mafic and ultramafic sills, granitic rocks of Kanoran age, and late north-trending diabase dikes. Strike faults, mainly parallel to the regional trend, and northeast: cross-faults are prominent.

The rocks underlying the property are mainly andesitic and rhyolitic lavas. Serpentinite occurs as a sill-like body in andesite. A large mass of granite, the Kukatush Pluton, is intrusive into the southern. margin of the metavolcanics.

The main showing consists of quartz veins and quartz-carbonate stringers, 1 foot to 3.5 feet wide, in sheared and crenulated dacite. Some encouraging gold values have been obtained from surface sam-

ADDENDUM #2

1959-1963: Geological and geophysical surveys, trenching, and four diamond-drill holes (1,300 feet) by Dayjon Explorers Limited,

PRODUCTION:

Gold Silver Ore Milled Recovered Grade
Year (ounces) (ounces) (tons) (ounce of Au per ton)
1934-1937 10,593 378 60,139 0.18
REFERENCES: GSC 1936, Memoir 192, p.93-98.
ODM 1929, Vol.38, pt.7, p.39-48.
ODM 1935, Vol.44, pt.7, p.57-60.
ODM 1976, GR131, p.53-55 (Dayjon Explorations and Holdings Limited (McMillan Mine)).

NEWTON TOWNSHIP (NTS 410/16W)

Rundle No.1 Prospect

MAIN METALS: Au

LOCATION: Approximately 33 miles west-northwest of Gogama, in southeastern Newton Township. Shaft in claim LO261. Latitude 47.82°, Longitude 82.37°. Map reference: ODM P.675, Opeepeesway-Rocky Island Lakes Sheet.

GEOLOGY: In the mine area, east-trending Early Precambrian mafic to felsic metavolcanics are intruded by Kenoran feldspar porphyry, part of which may be extrusive. The metavolcanics include andesite, rhyolite, and bedded tuff. Some iron formation is interbedded with the metavolcanics.

A lenticular body of pink feldspar porphyry, 2,300 feet long, up to 400 feet wide, and containing large remnants of altered mafic lavas, is host to the gold-bearing mineralized zone. Both the porphyry and lavas have been extensively carbonatized and sericitized. The mineralized zone comprises quartz veins, stockworks of quartz stringers, and silicification of the feldspar porphyry and lavas. Mineralization consists of pyrite and minor chalcopyrite. The zone, a pipe-like structure 120 feet long and up to 55 feet wide, plunges roughly 75°NE. It has been explored by underground development and diamond-drilling to a depth of 360 feet.

ECONOMIC FEATURES: Hollinger Consolidated Gold Mines Limited estimated that underground work had outlined 100,000 tons of ore with an average grade of 0.29 ounce of Au per ton. However, the pipe-shaped zone of mineralization may provide large tonnages of low-grade ore capable of being mined by cheaper openpit or block-caving methods.

HISTORY: 1936-1941: Property developed under option by Hollinger Consolidated Gold Mines Limited. 1941-1942: Extensive trenching and 35 diamond-drill holes (3,960 feet). Vertical two-compartment shaft to 375 feet with 1,536 feet of lateral devel-

opment on levels at 150 and 300 feet. A total of 4,384 tons of one was hoisted.

REFERENCES: ODM 1942, Vol.51, pt.1, p.114, 185. ODM 1943, Vol.52, pt.1, p.118, 180.

Resident Geologist's Files, Ontario Ministry of Natural Resources, Sudbury: Newton Township, Rundle Gold Mines Limited.

Rundle No.2 (Miguelon) Prospect

MAIN METALS: Au

LOCATION: Approximately 37 miles west-northwest of Gogama, in central Newton Township. Latitude 47.91°, Longitude 82.39°.

Map reference: ODM P.673, Horwood Lake Sheet

(prospect not shown on map).

GEOLOGY: The vein is in andesitic, spherulitic pillow lava, at a point where the lava has a change in strike. Where pillow lava can be seen at the north end of the stripping, it strikes N50°E and dips southeast. Approximately 100 feet south of the vein, and also west of the vein, the lava strikes N85°W and dips south. Approximately 300 feet south of the vein there is a yellow quartz porphyry dike striking N80°E.

The vein is drag-folded and has been exposed for a distance of 270 feet. The northern portion, 100 feet long and striking N40°E, consists of closely-spaced quartz stringers in chloritized, carbonatized, and sericitized lava. Visible gold was found in one of these stringers. The central drag-folded portion, about 50 feet long and striking east, contains little mineralization. The southern portion strikes N60°E and has been exposed for 120 feet. Sulphide mineralization is best in this southern part, which consists of stringers of blue and white quartz in sheared lava. The vein on surface reportedly averaged 0.30 ounce of Au per ton over a width of 4 feet and a length of 350 feet.

HISTORY: Circa 1945: 370 feet of trenching and six diamond-drill holes by Hollinger Consolidated Gold Mines Limited under option from Rundle Gold Mines Limited.

REFERENCES: Resident Geologist's Files, Ontario Ministry of Natural Resources, Sudbury: Newton Township, Rundle Gold Mines Limited.

OSWAY TOWNSHIP (NTS 410/9)

Bi-Ore Prospect

MAIN METALS: Au

LOCATION: Approximately 24 miles west-southwest of

ADDENDUM "Z

foot vein structure assayed from 0.40 ounce to 20.7 ounces of Au per ton and from 0.32 ounce to 4.54 ounces of Ag per ton over widths ranging from 1.0 foot to 1.5 feet.

HISTORY: 1933-1934: Surface work and some diamond-drilling by Buffalo Canadian Gold Mines Limited. No.2 Vein stripped for 500 feet.

1961-1963: Resampling of old trenches and 34 diamond-drill holes (each 200 to 400 feet deep) by Flint Rock Mines Limited.

REFERENCES: Assessment Files Research Office, Ontario Geological Survey, Toronto: Swayze Township, Diamond-Drilling Reports 10, 11, 13 and 14. ODM 1934, Vol.43, pt.3, p.26.

ODM 1965, GR33, p.22 (Flint Rock Mines Limited).

Kenty Prospect

MAIN METALS: Au

LOCATION: Approximately 37 miles east of Chapleau, 1 mile northeast of the east end of Brett Lake, in northeastern Swayze Township. Patented claims S20702-S20713. No.1 Shaft in claim S20706; No. 2 Shaft in claim S20713. Latitude 47.83°, Longitude 82.61°.

Map reference: ODM 2070, Swayze and Dore Townships (W.G. Atkins).

GEOLOGY: The area is underlain by an east-striking belt of folded Early Precambrian mafic and felsic metavolcanics, with small interbedded lenticular bodies of clastic metasediments. The principal occurrences lie within massive andesite and schistose felsic metavolcanics close to a large body of feldspar porphyry. The porphyry is considered by Donovan (ODM 1965, GR33, p.6) to be a phase of the felsic volcanic suite.

The deposit consists of a series of parallel fracture-filling quartz-carbonate veins in an altered host rock which can be mafic or felsic lava, or feldspar porphyry. The average strike of the veins is N60°E, and dips range from 40-80°SE. The veins average 4 to 5 feet in width; the maximum width is 10 feet. Each consists of a main quartz leader with subsidiary parallel veinlets on either side.

Mineralization consists of pyrite and minor galena, chalcopyrite, sphalerite, specularite, and graphite. Coarse visible gold occurs in fractures in the vein quartz. Development work indicated that the best values occur where the host rock is 'greenstone'. Two grab samples of mineralized vein material from a muck pile near Shaft No.1 assayed 0.16 and 0.19 ounce of Au per ton (Geoscience Laboratories, Ontario Geological Survey, Toronto).

ECONOMIC FEATURES: Channel sampling on surface

Indicated that an ore shoot on the No.1 Vein, measuring 6.3 feet in width and 50 feet in length, averaged 0.39 ounce of Au per ton. A second oreshoot, located to the east of the first and measuring 3.7 feet in width by 72 feet in length, averaged 0.67 ounce of Au per ton.

Possible reserves of undetermined grade were reported (Financial Post Survey of Mines 1948, p.141):

HISTORY: 1931-1934: Surface and underground work by Kenty Gold Mines Limited. Underground workings consisted of two vertical two-compartment shafts with the following lateral development:

Drifting Crosscutting No. 1 Shaft (510 feet deep): 250-foot 74 375-foot 840 518 500-foot 160 202 No. 2 Shaft (534 feet deep): 290-foot 1.277 525-foot 554 705

In addition, 7,410 feet of diamond-drilling was done, 6,298 feet of this from underground.

1936: 5-ton test mill installed and operated for three months by Brett Tretheway Mines Limited. 1947-1949: No. 1 shaft dewatered to the second level and a small amount of raising done. 100-ton mill installed. 1,250 tons of ore hoisted. 1,634 feet of diamond-drilling. All work by Erndale Mines Limited.

1950: Small amount of work by Elancra Mines Limited.

REFERENCES: DEMR Ottawa, Mineral Development Sector Files: Au 2, 410/15, Kenty, February, 1964; MR-Au-301.00, Swayze Area.

Financial Post Survey of Mines 1948, p.141 (Erndale Mines Limited,

ODM 1934, Vol.43, pt.3, p.21-25.

ODM 1965, GR33, p.20-22 (W.G. Atkins).

McNeely-McCullogh Prospect

MAIN METALS: Au

LOCATION: Approximately 37 miles east of Chapleau, % mile north of the east end of Brett Lake, in north-eastern Swayze Township. Latitude 47.82°, Longitude 82.62°.

Map reference: ODM 43b, Swayze Gold Area.

GEOLOGY: The area is undertain by an east-striking fold belt consisting of Early Precambrian mafic to felsic metavolcanics and small amounts of interbedded metasediments. The showings consist main-

Name	has	1 000	4100

References

Metal

Remerk

Kalbrook (Boulder) Occurrence: Southeast corner of Reeves Tp. Lat. 48.19°, Long. 82.02°,

Assessment Files Research Office, Ontario Geological Survey, Toronto: Reeves Tp., Technical Survey File 63.107. ODMNA 1972, GR97, p.91 (Kalbrook Mining Company

REEVES TOWNSHIP (NTS 42B/1E, 42B/BE)

Limited).
ODMNA Map 2230, Reeves
and Sewell Townships.

Αu

The showing consists of rusty quarts rubble with visible gold. This is believed to be float, since no quarts veining was found in situ. A grab sample of quartz from the float trench assayed 0.13 oz. Au/ton; 10 other samples registered nil or trace Au.

1935: Geological examination and sampling of trench material by D. Burke.

1946: 13 diamond-drill holes by Kalbrook Mining Co. Ltd.

1947: Magnetic survey by McIntyre Porcupine Mines Ltd.

ADDENDUM '

ROLLO TOWNSHIP (NTS 410/15E)

Agaura Occurrence: Approximately 1 mile south of Ridley Lake, in western Rollo Tp. Lat. 47.87°, Long. 82.71°.

ODM 1934, Vol.43, pt.3, p.35. Au ODM Map 43b, Swayze Gold Pb Area.

The main showing consists of two zones in arkose which contain quartz veins mineralized with pyrite, The south zone has three short veins which strike N70°E and are exposed in trenches for a distance of 900 feet. The centre vein has a length of 70 feet and a width of 1.1 feet. It is composed of quartz-carbonate mineralized with pyrite, a little galena, and some visible gold. A channel sample taken across an 8-inch width assayed 0.70 oz. Au/ ton. A strongly-schistose zone, having a strike of N80°E, widths of up to 12 feet and a length of 500 feet, lies 500 feet to the north in 'greenstone'. It is mineralized with pyrite and lenses of quartz. Parallel to it and 50 feet to the south, there is a carbonatized quartz porphyry dike, with a maximum width of 12 feet, which yielded low gold values from surface sampling.

Circa 1933: Surface prospecting and channel sampling by Agaura Ex-

plorations Ltd.

A gold-bearing quartz vein in schistose andesite has an indicated length of 800 feet and maximum width of 10 feet. It strikes N65°E and dips 80°SE. The quartz is badly fractured in a direction parallel to the strike of the vein and carries small amounts of pyrite and native gold. Channel sampling reportedly yielded low gold values.

1932: Trenching and sampling by the Cyril Knight Prospecting Co.

ADDENDUM "4

Cyril Knight Occurrence: Southeast end of Ridley Lake, in western Rollo Tp. Claim S22721, Lat. 47.88°, Long. 82.71°. ODM 1934, Vol.43, pt.3, p.35. Au ODM Map 43b, Swayze Gold Area.

ADDEROUM "6

Telephone (706) 264-4708 Telex 067-81612

NEWMONT EXPLORATION OF CANADA LIMITED

Hollinger Office Building
P.O. Box 1430
TIMMINS, ONTARIO PAR 742

October 1, 1982

Mr. Robert J. Platt Carlson Mines SOUTH PORCUPINE, Ontario

Dear Sir:

re: Ontario - Rollo Township

I am writing to clarify some points about a property inspection which was carried out by the writer on behalf of Newmont Exploration 7.td. Samples were taken from Agaura pits on May 23, 1982 which assayed .25 oz Au and .24 oz Au. The .25 oz sample was taken over a 6 foot width from the same pit sampled by Phendler (his sample 1631). The .24 oz sample was a grab sample from an adjoining pit. Both samples consisted of quartz and 10% cubic pyrite.

On July 7 to 9, 1982, a second visit to the property was made to test the induced polarization method as a means of tracing the type of mineralization that occurs in the two (2) showings. Two (2) profiles were run on north 20°W trending lines that crossed the Aguara showing. In both cases, a chargeability anomaly of 26-28 ms was found to occur with the showing in a background of 5-7 ms. The northern Cyril Knight showing had chargeabilities up to 52 ms associated with it. These anomalies are caused by pyrite which is associated with the showings.

ADDENDUM "& (con't)

A dipole dipole array was used with a 50° as spacing n = 1, 2. A

Newmont type Crone receiver was used with a 250 watt battery powered

transmitter. Therefore, the IP method could be considered as a

method to trace the extension of mineralized zones beneath overburden

and would be an excellent tool for verifying and correlating with any

geochemical soil sampling work that might be planned.

We are willing to make the profile data available to your consulting engineer if it would be helpful for your company to plan its exploration program.

Please fell free to contact us if you have any further questions.

Yours sincerely,

~ Middleson

R. Middleton, P. Eng. Exploration Manager

RSM/sd

To: Mr. Roy Phendler, Carlson Mines, 7360 Decourcy Cres., Richmond, B.C. V7C 4E9

Attaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

Telephone: 253 - 3158

File Na __ 80-1064

ASSAY CERTIFICATE

(20)

Rock Type of Samples ___ Disposition _ _

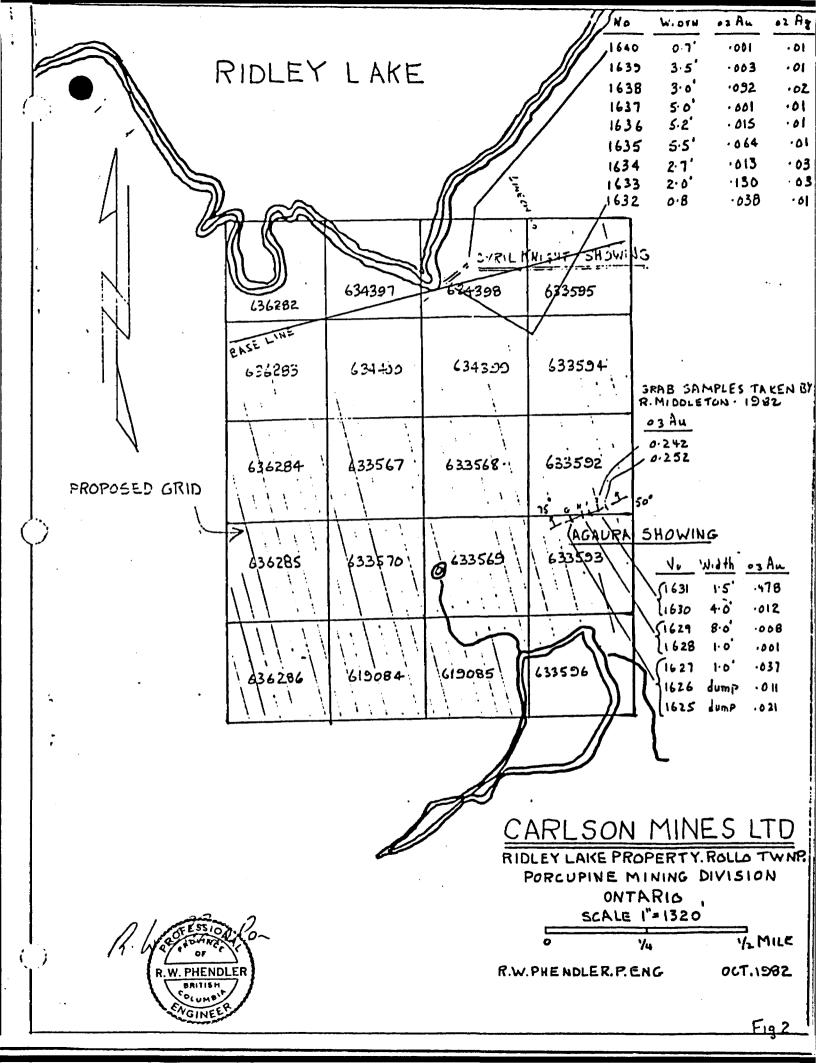
						 nisbo	osition	
No.	Sample ·	Ag oz/ton	Aù oz/ton					No
1	1625		.021					1
2	1626		.011					2
3	1627		.037	·				3
4	1628		.007		٠.			4
5	1629		.008	•				5
6	1630		.012				•	6
7	1631		.478 `					7
8	1632	.01	.038		·			8
9	1633	.03	.130					9
10	1634	.03	.013					10
11	1635	.01	.064					11
12	1636	.01	.015					12
13	1637	.01	.001					13
14	1638	.02	.092	•				14
15	1639	.01	.003					15
16	1640	.01	.001					16
17								17
18								18
19								19
20								20

All reports are the confidential property of clients.

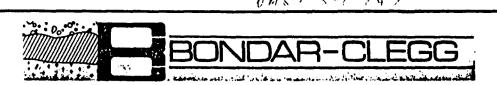
DATE SAMPLES RECEIVED_Sept_13, 1981 Sept. 19, 1980 DATE REPORTS MAILED

ASSAYER

DEAN TOYE, B.Sc.



Bender-Cireg & Company Ltd. 130 Pemberson Ave. North Vancouver, B.C. Canada V7P 2B5 Phone: (604) 985-0681 Telex: 04



Geochemical Lab Report

CARLSON MINES LTD.

REPORT: 12	4-0718							PROJECT: ROLLO	PAGE 1
Sample Number	ELEHENT UNITS	Cu PPM	Ph PPM	Zn PPM	Ag PPM	As PPH	Au PPB		NOTES
R GFM-001		39	3	88	0.3	4	225		
R GFN-002	•	55	<2	105	0.6	6	60		
R GFH-003		55	. 3	100	2.0	10	230		
R GFH-004		125	⟨2	100	0.4	9	50		
R GFN-005		30	3	30	1.4	3	535		
R GFH-006		52	3	64	0.8	2	1510	# 1 - 1 - 1 - 1 - 2 -	
R GFH-007		33	<2	28	0.8	3	1290		
R GFH-008		40	₹2	76	0.7	5	360		
R GFN-009		165	<2	98	2.0	10	1870		
R GFH-010		62	⟨2	79	2.0	12	1920	r there are an experimental and the contract of the contract o	
R GFH-011		130	⟨2	96	1,2	6	480	- TTT I TO TO THE BY IT IN THE STANGED THE THE SALE AST STATE I HAVE ANALYZING MENTAL AND SALE AS A STANGED THE SALE AS A STANGED TH	t alamana arrow and and the target afficialization physician arrives agree from the
R GFN-012		108	<2	90	0.4	4	130		
🥂 R GFM-013	***	90	(2	70	1.2	2	280		
R GFH-014		48	3	15	0.4	2	455		
R GFH-015	a Tabandan da "Allahaman ayan maga ayan sa	8	15	16	0.4	4	115		
R GFH-016		68	3	45	1.0	3	1000	erini ungang ngang-tang ngan disamatang paga sagan sagan disamban dan pagalan dinang mangkili banan agan dibid	
R GFM-017		13	⟨2	64	(0.2	2	10		
R GFM-018		40	10	72	0.2	31	25		
R GEN-019		25	2	12	<0.2	3	10		
R GEN-020		40	2	8	<0.2	2	⟨5	ne. Yn entremaan et readeadaa er tradt en de arth teamhone and blindingsmegh tradic septemblike de trades de s	
R GFN-021		60	2	16	(0.2	2	⟨5	THE COLUMN TO A REPORT OF THE PARTY OF THE P	na ya yang gan biga sang panga atan yan nga maga panih nay ayan yang bib Mistilia sana d ^{a ba} lan man
R GFM-022		22	. 2	13	(9.2	2	10		
R GFN-023		29	2	6	<0.3	2	15		
R GEH-024		45	3	16	<0.2	3	40		

TABLE I

ROLLO TOWNSHIP, ONTARIO
GEOCHEMICAL ANALYSIS
FROM COMPOSITE SAMPLES

Sample #	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn <u>ppm</u>	Description
GFM 001	225	0.3	4	39	3	88	Aguara showing, north end of clearing.
002	60	0.6	6	55	2	105	Aguara, 5 m ave., south of 001.
003	230	2.0	10	55	3	100	Aguara, coarse pyrite, south of 002.
004	50	0.4	9	125	2	100	Aguara, shear zone, south of 003.
005	535	1.4	3	30	3	30	Aguara, shear zone, south of 004.
006	1510	0.8	2	52	3	64	Aguara, north side of shear zone.
007	1290	0.8	3	38	2	28	Aguara, shear zone, 4 m south of 006.
800	360	0.7	5	40	2	76	Aguara, north side of carbonate zone.
009	1870	2.0	10	165	2	98	Aguara, carbonate zone.
010	1920	2.0	12	62	2	79	Aguara, carbonate zone, 3 m south of 009.
011	480	0.4	6	130	2	96	Aguara, south side of carbonate zone.
012	130	1.2	4	108	2	90	Aguara, 5 m east of 011.
013	280	1.2	2	90	2	70	Aguara, porphyry, south of carbonate zone.
014	455	0.4	2	48	3	15	Aguara, 10 m south of 012.
015	115	0.4	4	8	15	16	Aguara, trench 30 m east of clearing, porphyry.
016	1000	1.0	3	68	3	45	Aguara, trench, carbonate zone, 3 m composite.
017	10	0.2	2	13	2	64	Agaura, trench, felsic schist, south of carbonate zone.
018	25	0.2	31	40	10	72	Graphitic unit.
019	10	0.2	3	25	2 2	12	Cyril Knight quartz vein.
020	5	0.2	2	40	2	8	Cyril Knight vein.
021	5	0.2	2	60	2	16	Cyril Knight vein.
022	10	0.2	2	22	2 2	13	Cyril Knight vein.
023	15	0.2	2	29	2	6	Cyril Knight vein.
024	40	0.2	2	45	3	16	Cyril Knight vein.



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1TO TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate	No	5	6474		<u> </u>	I	Date:		November	r 9,	1983	
Received_	Octobe	r 28,	1983	23	Sample	es of			Ore_	.Ca	lam Mines	Roll
Submitted by	by	hevron	Canada	Resources	Limited,	Timmins,	Ont	ari	0			Tup
						Attn	Mr	t	Tibor			

SAMPLE NO.	GOLD Oz./ton	SILVER PPM	SAMPLE NO.	GOLD Oz./ton	SILVER PPM
15247	0.003	0.2			
15248	0.016	2.6			
15249	0.036	0.5			
15250	0.106 0.100	0.9			
15251	0.001	0.2		,	
15252	0.028	0.5		•	
15253	0.003	0.2		•	
15254	0.018	0.3			
15255	0.021	0.5			
15256	0.024	0.9			
15257	0.011	0.7			
15258	0.206 0.200	3.8			
15259	0.050 0.054	4.2			
15260	0.001	0.8			

er _____

G. Lebel - Manager

Server Server



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS ◆ ASSAYERS ◆ CONSULTANTS

Certificate of Analysis

Certificate No	56528	_	Date:	: November 10 1983				
Received Nov.8/83		6	Samples of	Ore	-Carlon	ben Mines, F		Tup
Submitted by _	Chevron Canada	Resources				Att'n: N		

SAMPLE NO.	GOLD Oz./ton
45288	0.011
45289	0.001
45290	0.002
45291	Nil
45292	0.013 0.012
45293	0.003

Per_

G. Lebel - Manager





SWASTIKA LABORATORIES LIWITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1TO TELEPHONE: (705) 642-3244 ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certific	cate No. <u>56606</u>		Date:Nov. 22, 1983					
Receive	ed <u>Nov. 8, 1983</u>	26	Samples of	Ore - Can	lam Mines, Rol	6		
Submit	ted by <u>Chevron Canad</u>	la Resources I	Ltd., Timmins, Ont	ario				
			Samples Per: Mr	. G. Chabot	•	_		
	SAMPLE NO.	GOLD Oz./ton	SAMPLE NO.	GOLD Oz./ton	SILVER PPM			
		,						
	45294	Nil						
	45295	0.002 0.002			•			

Per_

G. Lebel - Manager



ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

LEPHONE (705) 264-4246 (705) 264-4247 P.O. BOX 1637 TIMMINS, ONTARIO P4N 7W8

May 8, 1984 RECEIVED

JUL 5 - 1984

Carlson Mines Ltd.
2 Civic Centre Court
Suite 407
Toronto, Ontario M9C 5A3

THE DIRECTOR
MINIMUS TAXATION AND
OMEP OFFICE

Dear Sirs:

RE: Carlson Mines - Rollo Twp. Property

Bulldozer trenching was carried out between September 30 and November 8, 1983 in 3 areas on the Carlson property in Rollo Township. The purpose was to expose two known gold showings and an IP anomaly.

Equipment

A caterpillar D-7 operated by Luk Cool of Timmins was used to clear the outcrop areas. Detailed trenching was done using a backhoe mounted in a muskeg tractor with a second tractor used for servicing. These two units were operated by All-terrain Track Sales and Service of Timmins (A. Boudreau and staff). Follow-up washing using high pressure pumps was done to clean off any remaining debris.

Trenches

The Aguara zone trenching was done to create maximum exposure and keep the original 1934 pits and trenches in tact. Approximately 21,000 square feet was exposed. (see attached sketch)

On the Cyril knight zone, approximately 10,000 square feet was exposed on the eastern end of the original trenches.

A third trench was attempted northwest of the Aguara to test an IP anomaly. A narrow shear zone in basalt was exposed.

Respectfully Submitted,

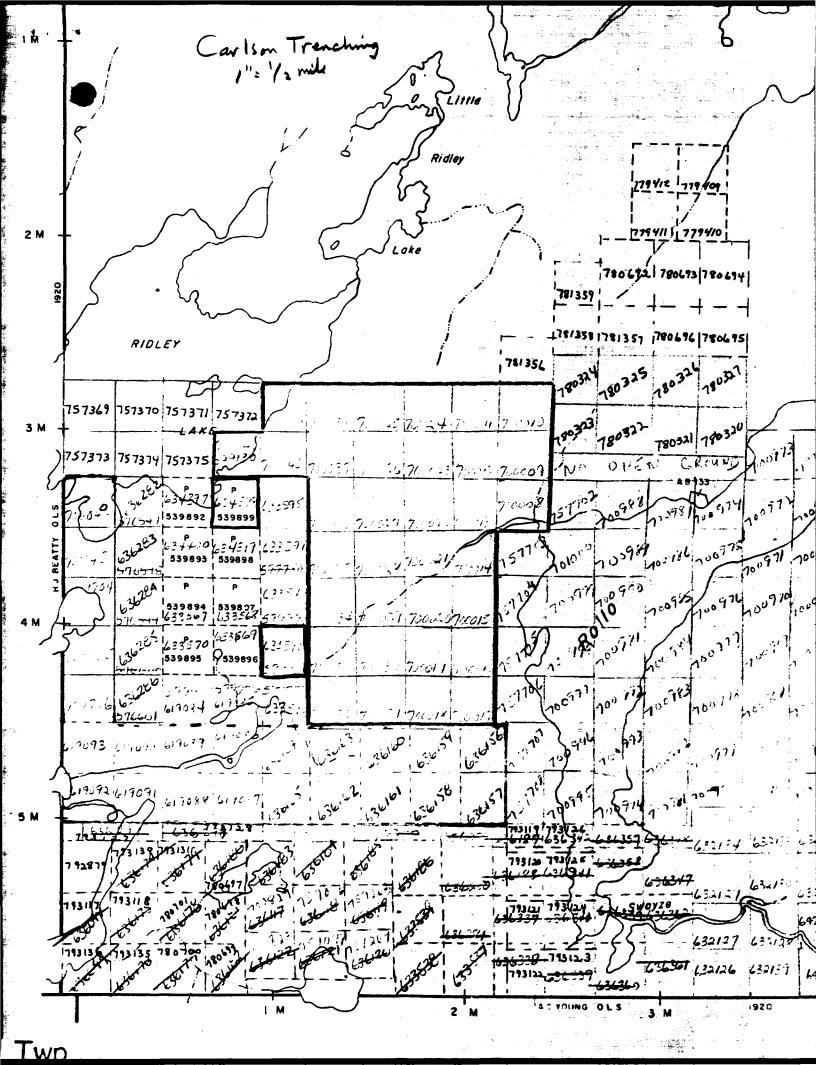
R. C. MIDDLETON

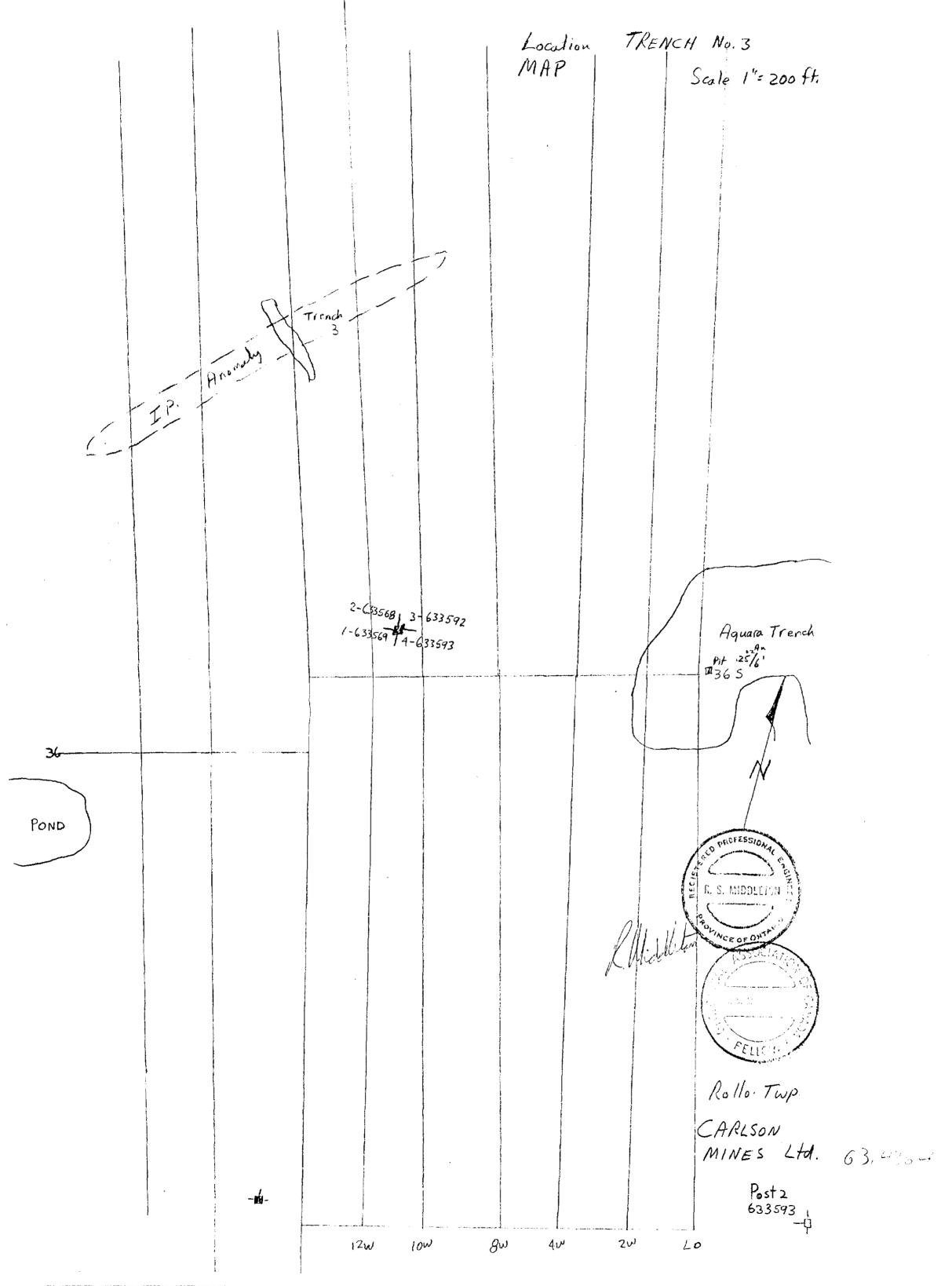
RSM/mt

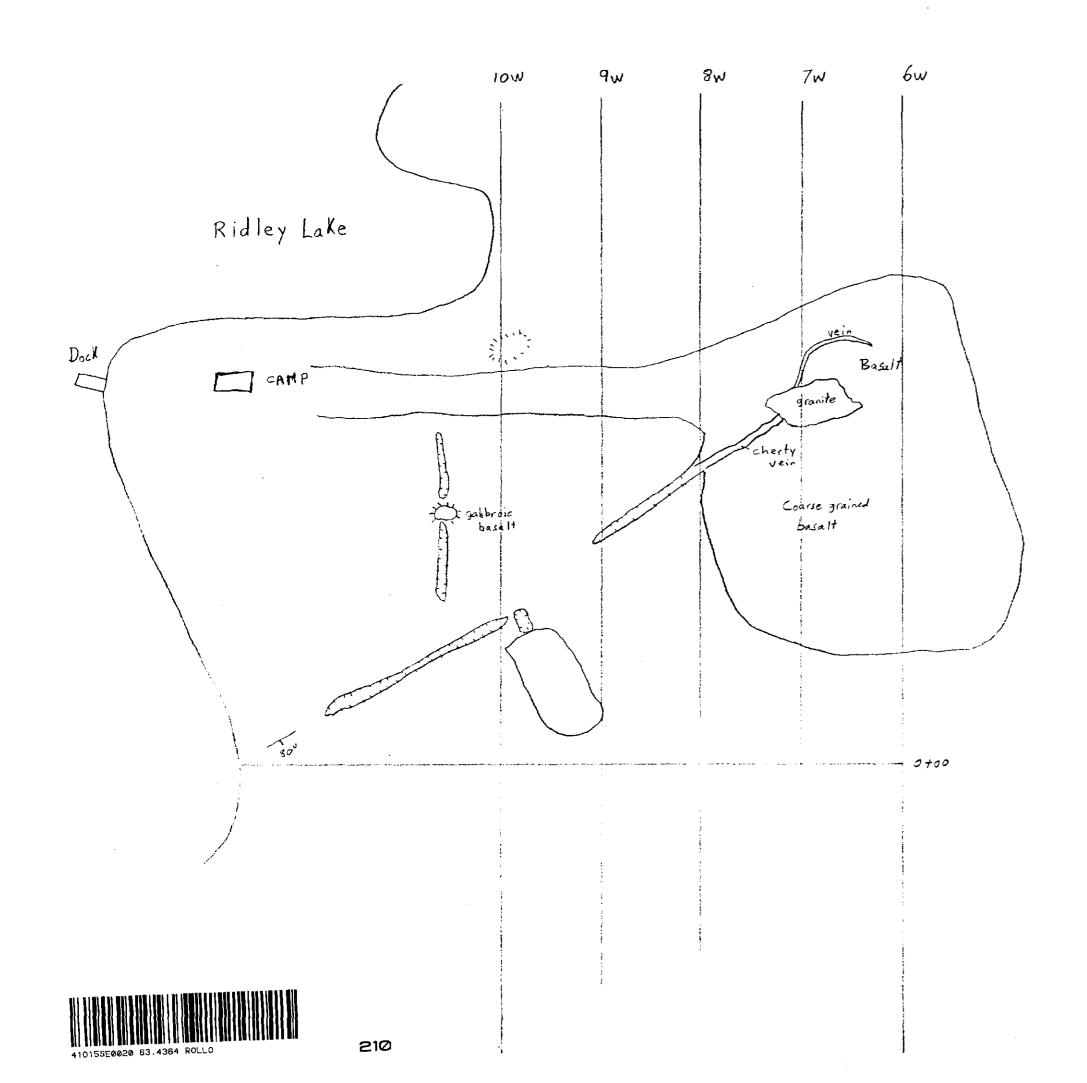
Robert S. Middletons 90

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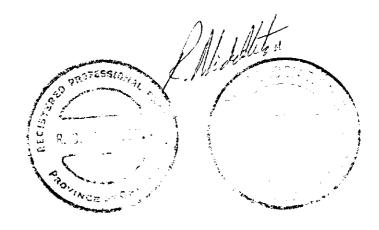








Surface 10,000 ft = Exposed



Cyril Knight Showing

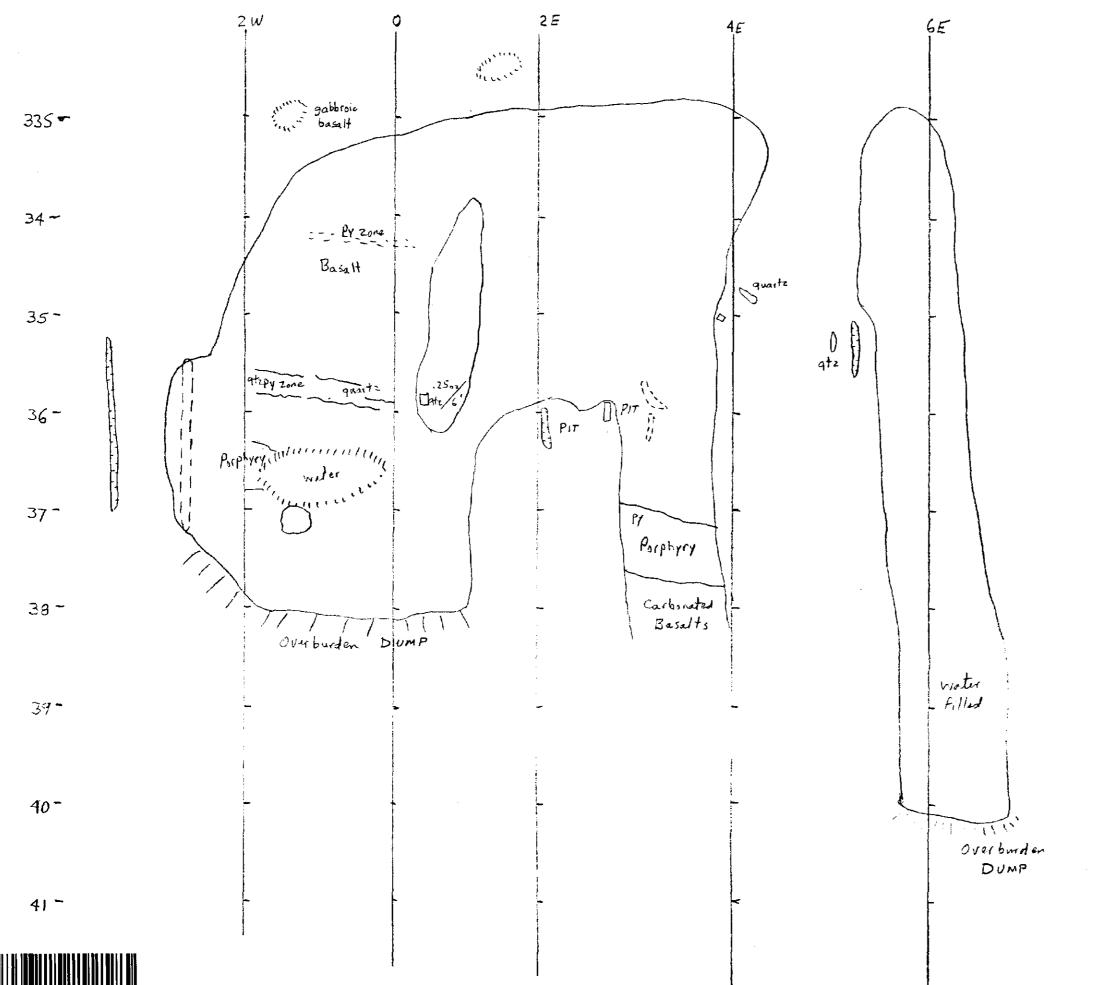
Rollo Twp Claim 634398

CARLSON MINES

Scale 1"=100 ft.

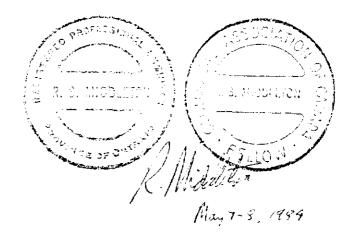
MAY 7-8, 1984

63, 4364





Exposed 21,000 ft. 2



ROLLO TWP.

CLAIM 633593

CARLSON MINES

AGUARA ZONE

Scale 1"=100 ft.

53,4364

41015550020 63 4364 ROLLO

220