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GEOLOGICAL REPORT

ON THE

CLINE LAKE PROPERTY

OF

ROK ENGINEERING CONSTRUCTION

SEPTEMBER - DECEMBER 1982

L.D.S. Winter B.A.Sc., M.Sc., F.G.A.C. January 4, 1983

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Two Tables Six Maps Nine Figures Appendix of surface assay results

1. INTRODUCTION

In September 1982 Rok Engineering Construction started an exploration program on 6 claims held under a licence of exploration in Jacobson Township, District of Algoma, Ontario, approximately 30 miles (50 km) northeast of Wawa. During the following three month period to mid-December 1982 the following exploration work was undertaken on the property.

- 1. Line-cutting: A base line and north-south picket lines at 200 ft. intervals were cut.
- 2. Magnetometer survey.
- 3. Geological mapping of the western part of the property and the stripped area adjacent to the adit.
- 4. Power stripping with a backhoe and bulldozer.
- 5. Percussion drilling of mineralized zones.
- 6. Sampling of mineralized zones.

This report summarizes the geological aspects of this work and proposes some further work based on the results to date.

2. SUMMARY AND RECOMMENDATIONS

- 2.1 The property lies on the north limits of a major regional anticline and consists of a sequence of dominantly mafic metavolcanic flows striking approximately east-west and dipping north which are intruded by gabbro sills and felsite dikes. There are two major structural trends, one being westnorthwest and the other east-northeast.
- 2.2 The gold mineralization appears to be associated with the west-northwest trending faults and zones of silicification and carbonate and pyrite alteration.

2.3 Within the mineralized zones the gold values are erratically distributed and appear to show a significant nugget effect. At this point it is not known if there is any surface enrichment occuring in the zones and thus the high surface values must be viewed with caution.

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- 2.4 Exploration work to date by Rok has identified four zones on surface, which to a depth of 50 feet would give 2500 tons averaging 0.318 oz. Au/T. before dilution. The grade could be increased and the tonnage reduced by eliminating some lower grade material from this calculation.
- 2.5 Previous work by Pick Mines Limited outlined an additional surface zone in the adit area and to the west, and a second zone underground, which may be the down dip projection of one of the surface zones.
- 2.6 It is considered that the #10 vein has considerable potential for the development of gold deposits and it could be stripped further to the east and/or drilled off at 25 ft. centres towards the east with the hydromatic drill.
- 2.7 The geological mapping done to date plus the magnetometer survey indicates a number of potentially interesting geological targets along west-northwest trending structures.

It is recommended that an exploration program of soil geochemistry, IP surveys and mapping be undertaken to better outline areas of gold mineralization. The estimated cost of this work is \$25,000. Stripping drilling, sampling etc. would follow in areas of interest.

3. PROPERTY

3.1 CLAIM GROUP AND OWNERSHIP

The property consists of 6 claims SSM 2185, SSM 2186, SSM 2188, SSM 2189, SSM 2190 and SSM 2271.held under an exploratory licence of occupation from the Ontario Ministry of Natural Resources. The licence of occupation is for a 3 year period with renewal on a yearly basis being dependent on the expenditure of \$71,500 in the first year, \$125,000 in the second year and \$240,000 in the third year. After the expenditure of \$436,500 Rok Engineering Construction will have the right to convert to a 21 year lease.

3.2 LOCATION AND ACCESS

The property is located in central Jacobson Township, Michipicten Area, District of Algoma at lat. 48° -20'N: long. 84° -22'W., approximately 30 miles (50 km) northeast of Wawa, and 6 miles (10 km) west of Lochalsh on the main line of the C.P.R.

Access is from highway #17 east, approximately 24 miles (40 km) north of Wawa, to the village of Dubreuilville and then by forest access road east and south to the Lochalsh-Goudreau road which leads to the mine property.

4. PREVIOUS WORK

Gold was first discovered on claim SSM 2188 by James Cline in May 1918. In 1924 the property was optioned by Cline Canadian Gold Mines Limited, buildings were ere cted and the #1 shaft was sunk to a cepth of 140 ft. on claim SSM 2186. At a depth of 80 feet there was 80 feet of drifting to the east and 20 feet to the west. #2 shaft on claim SSM 2185 was sunk during the summer of 1925 to a depth of 215 feet on an incline of 70 degrees. At the 100 foot level crosscuts were driven 19 feet north and 20 feet south and at the 200 foot horizon 40 feet of crosscutting was done. Work was discontinued in May 1926 and the property reverted to the owner. In 1927 Cline Mines Limited, was formed and the #3 shaft on SSM 2185 was sunk to 115 feet.

Cline Lake Gold Mines Limited was formed in 1932 and a new vein was discovered on SSM 2271 in 1933. O'Brien Gold Mines Limited took control of the property in 1936 and began development with the #4 shaft on claim SSM 2271. This shaft was originally sunk to 522 feet with levels at 125, 250, 400, and 500 feet. Later this shaft was deepened to 1,196 feet. A 200 TPD mill began operation in July 1938 and operated until 1942. The property was reopened in 1947 but closed again in 1948. Over this 10 year period the mill treated 331,842 tons of ore with an average recovered grade of 0.191 oz Au/T

In the early to mid-1960's Pick Mines Limited gained control of the property and did considerable exploration work in the area east of the #3 shaft. This work consisted of driving an adit on the #3 zone, (30 vein of Rok) drifting and cross-cutting on the 100 foot level from the #3 shaft, plus surface and underground drilling. It is reported that a few tens of tons of ore were milled at this time.

The mill was removed from the property in the late 1970's by E. J. Blanchard of Sudbury.

5. GEOPHYSICS-MAGNETOMETER SURVEY

5.1 FIELD WORK

The property was surveyed using a Scintrex-MF-1 Fluxgate magnetometer during mid-October 1982 on north-south picket lines 200 foot apart and with readings being taken along the lines at 50 foot

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intervals. A base station of 320nT. was established at L17E at the base line and all readings were tied into this base. This was accomplished by surveying the baseline and establishing secondary base stations where each picket line intersected the base line. The readings on each picket line were then tied into these secondary base stations.

The results are presented in map CL-002, Magnetometer Survey, with the values being contoured.

5.2 RESULTS

The general trends as indicated by the magnetic patterns are;

- approximately east-west which is considered to represent the trend of the volcanics in the area,
- a west-northwest trend which appears to coincide with zones of faulting, and shearing and felsic dike intrusion and,
- an east-northeast trend which in part coincides with a quartz-carbonate shear zone reported in #4 shaft area.

The volcanics are represented by the lower values in the magnetics (<+500nT) with the higher values representing magnetite rich gabbro sills and/or magnetite rich portions of mafic metavolcanic flows. Some of the smaller more isolated magnetic highs may represent local concentrations of pyrrhotite. The lower values (<-1000nT) are considered to be due to felsic metavolcanics, felsic sills and zones of carbonatization and silicification of mafic metavolcanics.

6. GEOLOGY

6.1 REGIONAL GEOLOGY

The Cline Lake property lies within an approximately

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east-west trending steeply dipping band of intermediate to mafic metavolcanics. Regional geological studies place the property approximately mid-way between the Centre Lake anticline to the south and the North Range syncline along the northern boundary of Jacobson Township (Twp 48). This band of intermediate to mafic metavolcanics is underlain by felsic metavolcanics to the south and sediments to the north. About 3 miles (5 km) to the west in central Township 49 is a stock of granite.

6.2 PROPERTY GEOLOGY

During October and early-November 1982 the western part of the property was mapped, being mainly claims SSM 2185 and SSM 2186, as well as the area that had been stripped in the adit area between lines 15E and 19E. The results of the mapping of claims SSM 2185 and SSM 2186 is presented in map CL003 and the geology of the stripped area in map CL004.

6.2.1

ROCK TYPES

The dominant metavolcanic is mafic in composition, fine grained dark green, chloritized and foliated and usually contains a small amount of disseminated pyrite.

The intermediate metavolcanics are much less abundant than the mafic ones. They are generally green-grey in colour, very fine grained and usually show a well developed foliation.

There are two rock types grouped under felsic metavolcanics. The first is a medium-grained rock labelled quartz-eye phorphyry. This unit is light coloured and consists of white feldspar, some sericite and grey to blue quartz eyes up to 3-4 mm. in diameter. This rock shows an east-west foliation and is best exposed south of #2 and #3 shafts and east of Cline Lake on L29E at 12N.and at L11E at the base line. At this time it appears to be conformable with the volcanics but whether it is intrusive or of volcanic origin is not known.

The second felsic metavolcanic is a fine grained, light coloured, generally slightly foliated rock. It appears to be silica rich, may contain quartz eyes, usually contains iron carbonate, varying amounts of pyrite, and weathers to limonite. In the area of the old open stope this rock was called granodiorite by the workers in the 1930's. This rock can also be seen in the stripped area near the adit and here this rock appears to coincide with a zone of shearing in the mafic metavolcanics adjacent to the gabbro to the north. Similarly on the south shore of Cline Lake on lines 17E and 19E this rock is present and appears to grade northeastward into sheared mafic metavolcanics. Although this rock has been called a granodiorite by earlier workers the author suggests that this rock may be an alteration product representing silicification and carbonatization of mafic metavolcanics. Further work could resolve this problem. It is considered that this differentiation is important since the gold mineralization appears to be related, at least in part, to this rock type.

On L3E at 1N and also in L17E at 5N on the edge of the stripped area a chert-carbonate sedimentary unit is exposed. This unit which is 10 feet thick in the first location and at least 30 feet thick in the second, is interbedded with the volcanic flows, strikes approximately east-west and dips about 60° north.

A common rock type on the property is the felsic dikes. To date they have been noted in all parts of the property and are typically associated with west-northwest trending structures. They are particularly well developed in the area about the adit which has been stripped. (see map CL-004)

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There appears to be at least three types of felsite dikes; quartz porphyry, felsite and feldspar porphyry. They are all very similar and so at this point in time are grouped under the one term of felsite dikes.

The quartz porphyry is light-buff to grey in colour and shows quartz and feldspar phenocrysts in a finer grained matrix. The felsite is very fine grained and grey to greenish-grey in colour. The feldspar porphyry contains phenocrysts of white to grey feldspar in a fine grained grey groundmass.

The felsite dikes have intruded west-northwest trending faults, and are in turn cut by these faults. suggesting a continuous period of intrusion and faulting.

6.2.2 STRUCTURE

As indicated above the property lies on the northern limits of a east-west trending anticline with the dip of the volcanicsbeing steeply north.

The east-northeast trending and north dipping quartzcarbonate zone lying just north of the #4 shaft appears to represent one structural trend. The magnetics suggest there may be other zones on the property with this same trend.

The dominant structural feature is considered to be the west-northwest trending and north dipping faults crosscutting the volcanics. This trend shows up very well in the magnetics map CL-002, and is well illustrated by the geology in map CL-003 and CL-004. It is this structural trend that appears to have the silification and carbonate and pyrite alteration associated with it as well as the gold mineralization.

Other fault directions are also indicated. In the adit area the mapping has shown a fault striking northsouth and dipping about 50° east. This fault displaces

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the mineralized zones in this area but the direction of movement is not known at this time. Another direction of faulting, northeast, is interpreted from the magnetics. Here the movement appears to be left-handed ,i.e., west side has moved southwest.

7. ECONOMIC GEOLOGY

The mineralization in the #4 shaft area mined by Cline Lake Gold Mines Limited is described by Bruce (1940).

"The vein systems of the Cline Lake mine are apparently the result of disturbances related to the development of the great shear zone that lies south of the shaft. This zone contains sheared, silicified, and carbonated rocks of various types. The ore bodies at present being worked lie in subsidiary zones, which branch off from this main shear zone or lie roughly parallel to it.

The ore bodies vary in character depending upon the kind of rock in which they occur. In the greenstone they are definite and easily recognized, lenticular quartz veins. In the granodiorite and quartz porphyry they are zones of shearing that have been impregnated by quartz. Usually these zones are narrower in quartz porphyry than they are in granodiorite. In both these rocks ore is not easily distinguished from material below ore grade, and the walls are assay walls. Widths normally range from 4 to 8 feet; in rare cases they are even greater. In general.individual shoots are short, the lengths depending upon the distance for which the fault has granodiorite or quartz porphyry as one or both walls.

The "A vein is the most important vein yet found in the mine. It had material of ore grade in it for a length of 500 feet on the surface and has continued to the deepest levels yet opened in the mine. It is actually a series of veins lying in a zone along the "A" fault, which forms the footwall. The hanging wall is an assay wall. In the vein zone, granodiorite and quartz porphyry have been sheared and silicified. Into this material narrow quartz veins, which carry considerable gold, have been introduced. The ore shoot ends irregularly at both ends where the "A" fault passes out into andesite."

From the available information it appears that mining only took place to a depth of about 500 feet but development was done to lower levels. Bruce (1948) states that little ore was found below the fifth level.

In the adit area, work by Pick Mines Limited produced a number of ore grade intersections in surface and underground drill holes and drifting. Stripping by Rok Engineering Construction has exposed 4 zones in this area on surface (Map CL-005). The mineralization is of three types. The first type is illustrated by Vein Zone #10. This zone has given mineralization grading 0.160 oz. Au/T over an average width of 10.25 ft. for a strike length of 31 feet and consists of two parallel zones separated by a narrow low grade section. The narrower higher grade sections give an average of 0.183 oz Au/T over 42" on the northern edge of the zone and 0.269 oz Au/T over 38" in the southern edge. This structure continues to the east on an azimuth of $110^{\circ}-115^{\circ}$ and is considered to be very favourable for mineralization. It appears to consist of a shear zone with associated silicification and carbonate and pyrite alteration of mafic metavolcanics. The western end of zone #10 appears to be cut off by a north-south striking and east dipping fault. The displaced portion of this zone should lie west of the north-south fault.

The second type of mineralization occurs in vein or zone #30. This zone consists of a shear zone containing felsite dikes. The mineralization occurs in a strongly chloritized shear on the southern edge of this zone often characterized by a fine yellowish mica (?). Sampling has indicated a strike length of 63 feet of material grading 0.529 oz Au/T across an average width of 14 inches. This vein strikes 100° and dips 75°-80°N.

The third type of mineralization occurs in zones or veins #20 and #40.

These veins are narrow, generally contain some quartz veining and trend at 120° and dip north at $60^{\circ}-80^{\circ}$. #20 vein assays 0.587 oz Au/T over 13 inches for a strike length of 123 feet and vein #40 gives 0.297 oz Au/T over 12 inches for a strike length of 102 feet. Other zones of mineralization have been indicated by previous owners but available information does not permit one to calculate tonnages and grades. A summary of the various zones of mineralization is presented in Table 1.

In considering these results one must be aware of some potential problems.

- 1. The surface samples may show some surface enrichment.
- The values appear to be erratically distributed within the vein and show a significant nugget effect.

The first problem could be resolved by blasting a trench along the vein and thus sampling the fresh rock. A better appreciation of the second could be obtained by taking a bulk sample from some or all of the zones.

In summary the property appears to have potential for mineralization of the following types:

- High grade, narrow veins or zones such as the #20, #30, and #40 zones.
- Wider zones showing silicification and carbonate alteration plus disseminated pyrite. It is considered that these zones could average in the 0.15⁺ oz Au/T range.
- 3. Mineralization similar to 2, above but with a grade less than 0.10 oz Au/T., possibly in the order of 0.05 oz Au/T. If these zones are at least 10 feet wide and if the mineralization was amenable to leaching either a pad or in a silo, they could be economically viable with a gold price of CAN \$500+

It is suggested that the objectives of the exploration program should be to outline zones of the above types of mineralization.

SUMMAR	Y OF MINE	RALIZI	ED ZONES -	CLINE LA	KE PROPER	RTY	
ZONE #10	LOCA Surface:		area	LENGTH (ft.) 31	WIDTH (in.) 123 10.25 ft	GRADE oz Au/T 0.160 t	tons ⁺ 1288 [*]
#20	Surface:	adit	area	123	13	0.587	540 [*]
#30	Surface:	adit	area	63	14	0.529	322*
#40	Surface:	adit	area	102	12	0.297	437*

TABLE 1

Zone from caved area in adit through adit portal and to west. The sampling by Pick Mines Limited indicates a zone similar to #30 vein (Pick Mines #3 Vein). This zone has also been developed on the 100 foot level drift from #3 shaft. No tonnage or grade calculations are available.

Possible mineralized zones in the #1 and #2 shaft areas.

Mineralized zone at #3 shaft on 100 foot level.

Partially developed stopes on the Q zone of Pick Mines Limited above 400 foot level drift from #4 shaft. This would require dewatering 4 shaft to below the 400 foot level.

NOTES: **+** All assays over 1 oz cut to 1 oz for calculations.

* Tonnage calculated to 50 feet below surface.

+ No factor for dilution included.

8. DRILLING

A number of $2\frac{1}{2}$ " and 3" diameter percussion holes were drilled using the Gardner-Denver.hydromatic dustcollector equipped drill. The location of the holes is shown on map CL-006 and in Table 2 and a cross-section of each hole showing the assays on the drill cuttings is presented in Figures 1 to 9. The assays represent the values from cuttings from 2 or 3 foot sections in the holes.

To date no ore grade intersections have been obtained using the drill. The possible reason for this are presented below.

- No ore grade sections have been intersected in the drilling even though mineralized structures have been drilled. The holes could have penetrated low grade sections within the structures.
- 2. The gold is being trapped in the dust filter. The filter from holes #1,2 and 3 was ashed and assayed and the results were 0.002 oz Au/T. This would suggest that gold is not being removed in this way.
- 3. Mixing of cuttings is taking place in the hole so that high grade values are being diluted by cuttings from lower grade sections. This appears to be the case when water is encountered since the sample size appears to vary under these circumstances. In dry holes there appears to be less of a problem in the variation of sample size.

Perhaps the drilling of a number of holes through a known zone should be done to test the validity of the samples obtained by this method.

9. EXPLORATION POTENTIAL

The work to date indicates that the gold mineralization is occurring in structures trending west-northwest and steeply dipping. The mineralization is associated with shearing and zones of alteration, particularly

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CLINE LAKE PROPERTY-PERCUSSION DRILL HOLES								
Hole	Location	Azimuth	Inclination	lèngth				
R1	6+35N:16+50E	200	-48 ⁰	69				
R2	6+55N:16+30E	200	-45 ⁰	97				
R3	5+80N:16+00E	200	-50 ⁰	39				
R4	5+90N:17+70E	014	-50 ⁰	49				
r5	5+90N:17+70E	205	-55 ⁰	39				
RG	0+50N:31+85E	215	-50 ⁰	49				
R7	0+50N:31+85E	035	-50 ⁰	10				
R8	0+70N:30-20E	016	-42 ⁰	49				
R9	7+50N:24+50E(?)	200(?)	-50 ⁰ (?)	52				

carbonatization and silicification with disseminated pyrite. It is considered that these structures and favourable areas are indicated by magnetic lows and the mapping and magnetics indicate a number of westnorthwest trending zones or structures which are considered to have the potential for gold mineralization. These structures and areas of interest are indicated on map. CL-003.

To outline these potential areas of interest the following exploration program is proposed.

- Geochemical exploration program. Sampling of surface materials for gold and probably copper and arsenic as pathfinder elements. It is suggested that an orientation survey be done to test the validity of the method.
- 2. Induced Polarization (IP) survey to locate areas of disseminated sulphides. To date, gold mineralization appears to be associated with disseminated pyrite.
- 3. Complete the geological mapping of the property.
- 4. Stripping of areas of interest as indicated by the geochemical and/or IP work.
- 5. Mapping and sampling of the stripped area.

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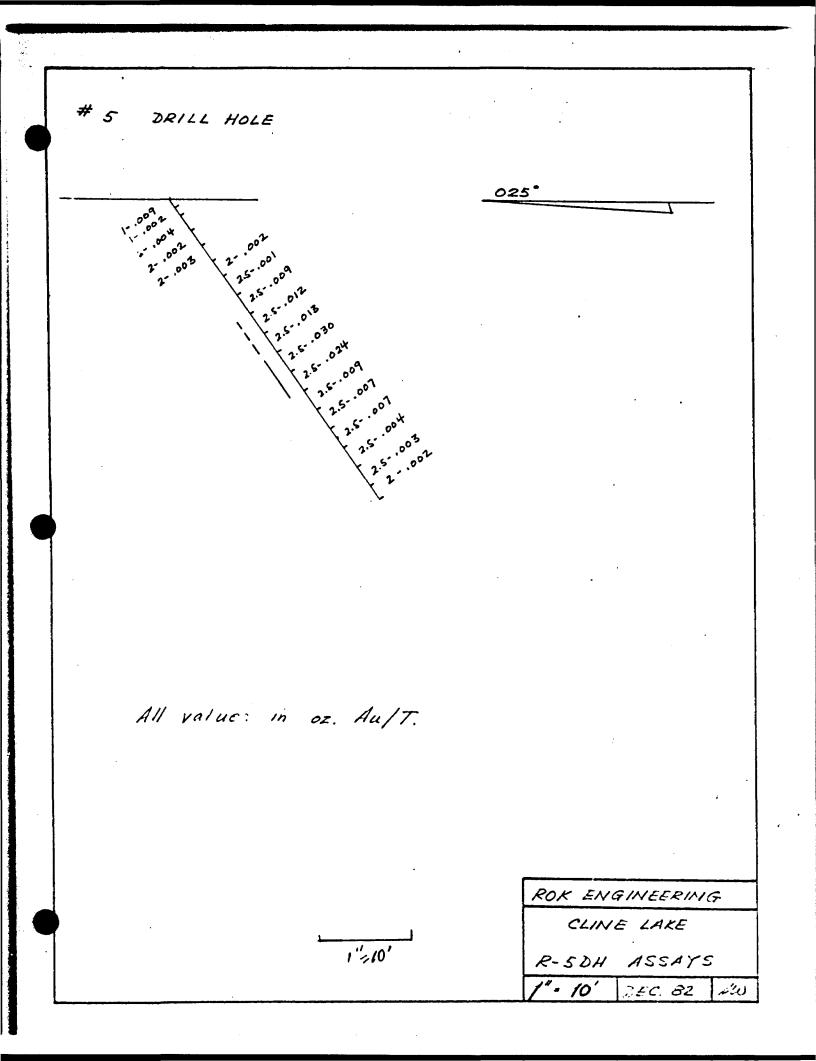
TABLE 2

016° 7-#1 DRILL HOLE 00 All values in oz Au/T. ROP ENGINEER MIL CLINE LAKE R-1DH- ASSAYS 1"= 10' 1": 10' 007 52 520

#2 DRILL HOLE 016* 33. cuttings from hole collor. 0.005 All values in or Au/T ROK ENGINEERING 1'= 10' CLINE LAKE R-2 DH- ASSAYS 1" = 10' CCT. 32 203

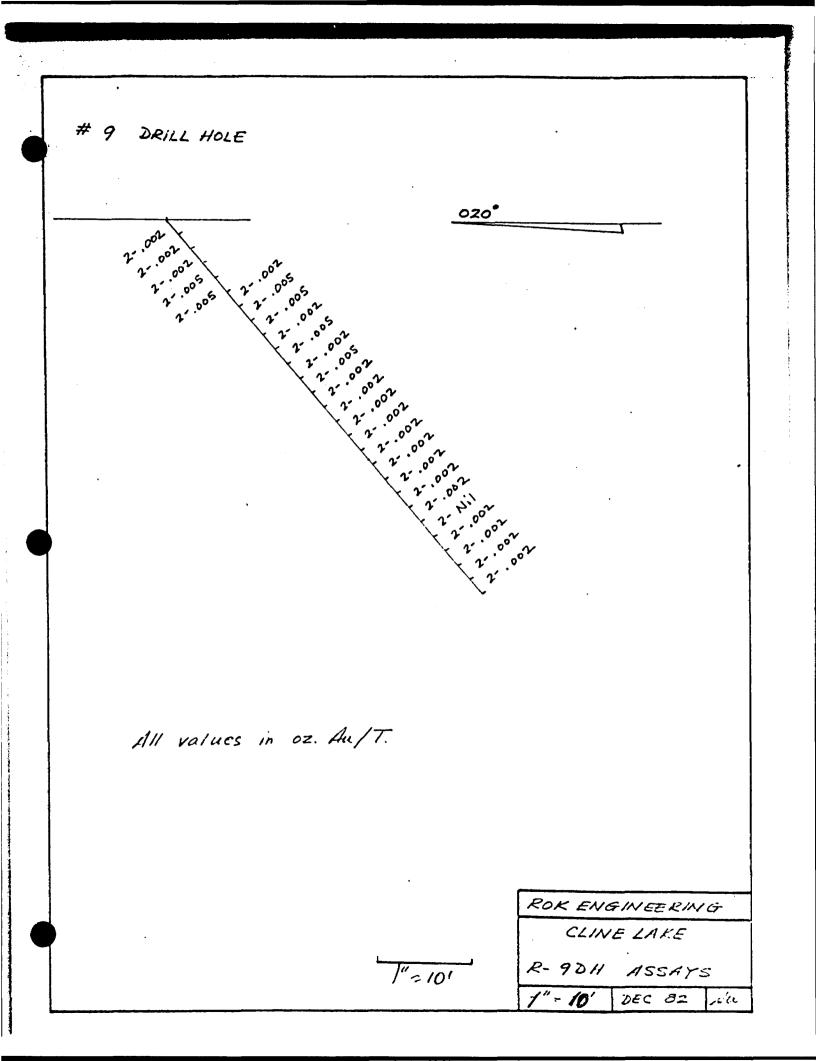
. # 3 DRILL HOLE 016° JEH2. 3-.016 * 30 5.010 3.001 3^{.00} 5-.055 3^{-.008} .00⁰ ಿ 00⁰ .00° 00 か 005 .º`⁰ All values in oz Au/T. ROK ENGINEERING 1'=10' CLINE LAKE R-3 DH ASSAYS 1" - 10' 20 DEC. 52

4 DRILL HOLE 014 3^{.,001} on 4 00 -2 2 All values in oz. Au/T. ROK ENGINEER MG 1= 10' CLINE LAKE R-4DH ASSAYS DEC. 82 1" = 10' 510



6 DRILL HOLE 035* 2.010 2- 002 5 2.00 2.5- Hil hiy 2 °'a 001 002 007 .00 *。* c3³ 0°` 002 All values in oz. Au/T. ROK ENGINEERING CLINE LAKE 1"-10' R-6DH ASSAYS 1" = 10' 1.20 DEC. 82

DRILL HOLE 035° 2- .004 .005 .005 2.003 ŕ 2-.00* 2 All values in oz. Au/T. ROK ENGINEERING CLINE LAKE 1"=10' R-7DH ASSAYS 1" - 10' DEC BZ 100



The estimated costs of this program are;

Geochemical survey	. \$9000
IP survey	\$9000
Mapping	\$3000
Sampling and assaying	<u>\$4000</u>
Total	\$25,000

At present a number of areas can be picked out as interesting geological targets but it is suggested that the geochemical and IP work would better define potential targets for stripping, sampling, drilling etc. thus making further work more efficient.

The #10 vein could be stripped for a short distance to the west of the fault that appears to cut it off in the pit just east of L15E at 6+75N. The #10 vein could also be stripped and drilled east of its presently exposed location. An alternative might be to drill this zone off with hydromatic drill on 25 foot centres east from where it is presently exposed at about L18E.

In general, it is considered that there is considerable potential for the localization of gold mineralization on the property and that the proposed program should be able to locate those areas with the highest economic potential.

Respectfully submitted, \angle D. S. Winter L. D. S. Winter B.A.Sc., M.Sc., F.G.A.C. Fllow January 4, 1983.

REFERENCES

Bruce, E.L.,(1940); Geology of the Goudreau-Lochalsh Area, Ontario Dept. of Mines, Vol. 49, pt. 3, p. 33-41.

Bruce, E.L.,(1948); Cline Lake Mine; Structural Geology of Canadian Ore Deposits, CIM Jubilee Volume, p. 433-435.

CERTIFICATE OF QUALIFICATION

- I, Lionel Donald Stewart Winter do hereby certify
- 1. that I am a geologist and reside at 1849 Oriole Drive, Sudbury, Ontario,
- 2. that I am a Fellow of the Geological Association of Canada,
- 3. that I graduated from the University of Toronto in Mining Engineering in 1957 with a Bachelor of Applied Science and from McGill University, Montreal in 1961 with a Master of Science(Applied) in geology,
- 4. that I have practised my profession continuously since 1961,
- 5. that my report on the Cline Lake Property of Rok Enginhering Construction is based on field work carried out and/or supervised by me and on published and unpublished reports on the property.

t. D. S. Winter

LIOW

L.D.S. Winter B.A.Sc., M.Sc., F.G.A.C. January 4, 1983.

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SURFACE CHIP SAMPLES

ASSAY RESULTS

APPENDIX

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Nov. 12, 1982.

CLINE LAKE PROPERTY

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SURFACE SAMPLES - #3 ZONE - ADIT AREA.

1. 2.	501 502 503 504	12 7 12	. <i>0</i> 03 . 370	Note: See last page for position of cack
2	503		. 370	position of cach
2		12		Sample in each
2	504		. 003	Sample in each channel sample.
\sim	507	12	. 008	
	505	9	. 120	
	506	8	.010	
	507	10	.017	
	208	12.	.007	
3.	509	12	. 001	
	510	4	. 00 /	
	511	12.	.00/	
4.	512	12	.001	
-	5/3	30	NIL	
	514	12.	.001	
5.	515	12	.008	
	516	7	./30	
	517	12	.006	
6.	518	12	.002	
_	519	21	. 120	
	520	/3	.005	
	521	12	.004	
7.	522	17	.005	
	523	16	.012	
	524	12	.002	
• <i>8</i> .	525	12	.001	N.
	526	17	. 600	
	527	19	.004	
	528	10	. 005	
	529	12	.002	

		•	
SAMPLE NO.	ASSAY NO	LENGTH (IN.)	oz. Au/T.
9.	530	12	.001
	53/	9	.052
	532	/2.	.011
10.	533	/2	.011
	534	/2	. 840
	535	36	.014
	536	24	.032
	537	48	.025
11.	538	36	·002
	539	18	.026
	540	12.	.041
12.	541	12	.019
-	542	24	.040
	543	12.	.012.
13.	5#4	12	. 00 /
	545	10	1.06
	546	24	.006
	547	36	.019
14.	551	12	.009
	552	14	.00 g
	553	12.	.008
15	554	30	. 006
	555	22	. 490
	556	36	.018
18	548	12	.005
	549	6	.004
	550	12.	.005

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1.71

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SAMPLE NO.	ASSAY NO.	LENGTH (IN.)	oz. Au/T.
			//-//.
19.	561	12	.014
	562	14	.008
	563	15	.050
	564	12	.151
	565	57	.075
20.	566	/2	• 007
	567	8	.084
	568	12	.007
21.	569	/2	.001
	570	8	.014
	571	40	.002
	572	4	.014
	573	/2	.002
22.	574	/2	.002
	575	24	1.210
	576	/2	.009
23.	577	/2	.014
	578	24	012
	579	12	.002
24.	580	12	·00Z
	581	30	. 625
:	582	12	.024
	583	12	·02Z
25.	584	12	. 007
-	585	16	- 600
	586	16	.096
• •	587	/2	.048

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			·
SAMPLE NO	ASSAY NO	LENGTH (IN.)	oz. Au/T.
26.	588	12	. 007
	594	/2.	2.410
·	595	17	.026
• • 	596	12	.010
27.	589	/2	.002
	590	6	.014
	591	38 .	.001
	592	9	.017
	593	12	.063
28.	597	12	.002
	598	17	.004
	599	6	. 375
	600	10	.003
•	601	17	.002
	602	Ş	.034
	603	12.	-002
29.	694	12	.003
	695	8	.010
	696	60	.004
	697	15	.094
	698	22	.016
	699	12	1.310
	700	12.	.016
30.	604	12	.040
	605	16	. 2.40
	606	/2.	.003
3 1.	607	12	.00/
	608	12	.004
	609	12_	.004

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SAMPLE NO.	ASSAY NO.	. LENGTH (IN.)	oz. Au/T.
32.	610	12	. <i>0</i> 0Z
	611	15	.204
	612	/2	.008
33.	613	/2	.005
	614	8	.019
	615	33	.003
	616	9	.100
	617	12	.0/2
34.	618	12	.001
	619	/3	.007
	620	24	.00/
	621	3/	.020
	622	12.	.002
35.	623	2*	.00/
36.	624	12	.001
	625	18	.002
	626	12	.001
37.	627	12	.004
·	628	12	.005
	629	12	.002
38.	630	12	.012
	631	11	.034
	632	21	.004
	633	/2.	.002
3 9.	634	12.	.002
	635	38	.026
	636	/2.	.008
	637	12.	.025

· ·			
SAMPLE NO	ASSAY NO.	LENGTH (IN.)	oz. Au/T.
40.	638	20	. 325
	639	24	. 220
	. 640	14	. 003
	641	48	.115
42	642	42	. 003
	643	24	.070
	644	32	.270
	645	24	.0/2
	646	48	.060
	647	36	.275
	648	12	.017
<i>4</i> 3.	691	12	. 007
	692	6	.435
	693	12.	.039
44.	649	14	.00/
	650	24	NIL
	651	12	NIL
45.	652	12	.00/
	653	10	.006
	654	12	. 001
46.	655	18	. 00 /
	656	11	.002
	657	12	.00/
47.	658	12	.00/
	659	11	.002
	660	15	.00/
	661	/2	NIL

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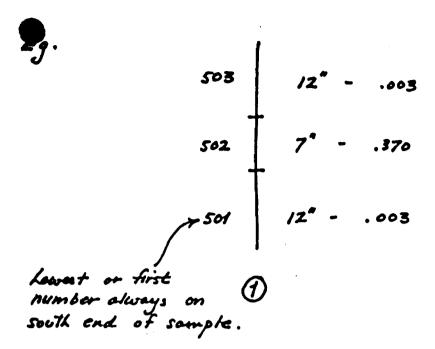
SAMPLE NO	ASSAY NO.	LENGTH (IN.)	oz. Au/T.							
<i>48</i> .	662	12	. 001							
	663	11	.037							
	664	12	. 003							
49 .	665	12.	NIL							
,	666	15	.002							
	667	12	.002							
50.	668	12.	.002							
	669	16	.028							
	670	/2_	NIL							
	67/	12	.002							
51.	672	. 10	.036							
	673	36	.008							
•	674	10	. 885							
	675	12.	.005							
52.	676	/2.	.003							
	677	27	.012.							
	678	12	•775							
	679	12	.012							
53.	680	12	.001							
	681	8	.067							
	682	14	.019							
	683	42	.076							
	684	17	37.59							
	685	/2	.014							
54.	686	12	.092							
	687	18	·007							
-	688	36	.03Z							
	689	14	.600							
	690	12.	.012							

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Ministry of Natural Resources



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Your Ne:

Our file: 3.20

CNTARIO GEOLOGICAL SURVEY AUGEOGMENT FILEO RUGEAPOH OSHOL

APR 15 1043

RECEIVED

Ontario Government Building 199 Larch Street Sudbury, Ontario, P3E 5P9

April 13th, 1983

MEMORANDUM TO:

Assessment Files Research Office 77 Grenville Street Toronto, Ontario M55 1B3

REI ROK ENGINEERING EXPLORATORY LICENCE #14893

Enclosed is a Cuological Report on the Cline Lake property for assessment files.

A second copy of the Report has been forwarded to Gerry Bennett, Resident Geologist, Sault Ste. Marie for his files.

Please enter the Report into your files and indicat by return mail the appropriate file number for our future reterence.

Com. glit

W. G. Cleaveley Regional Director Northeastern Region

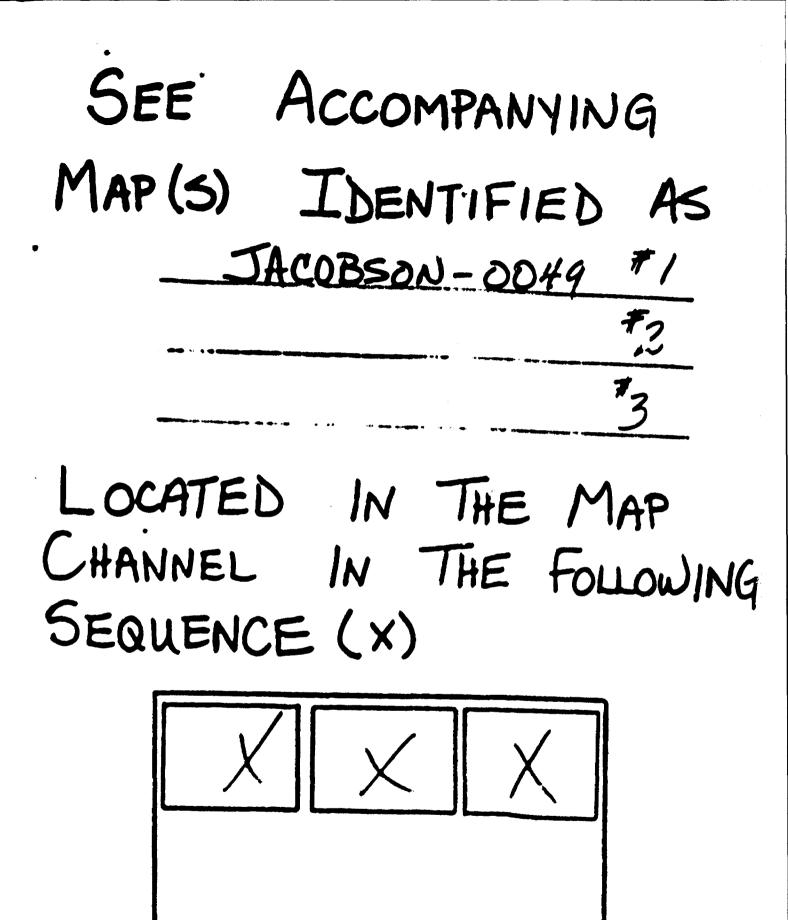
D.T. Pudge/kg

Encl.

c.c. -Gerry Bennett, Resident Geologist, S.S.M.

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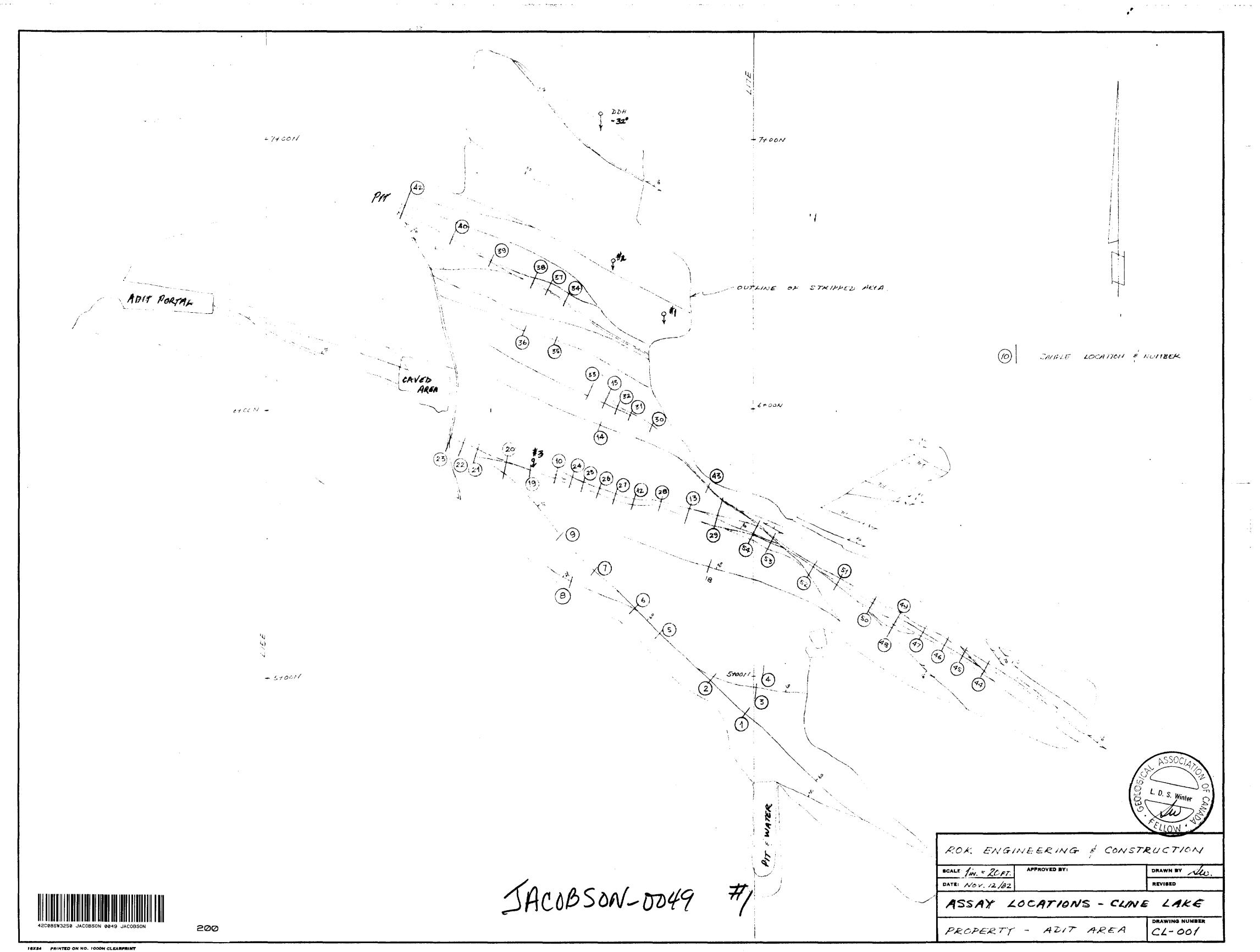


FOR ADDITIONAL

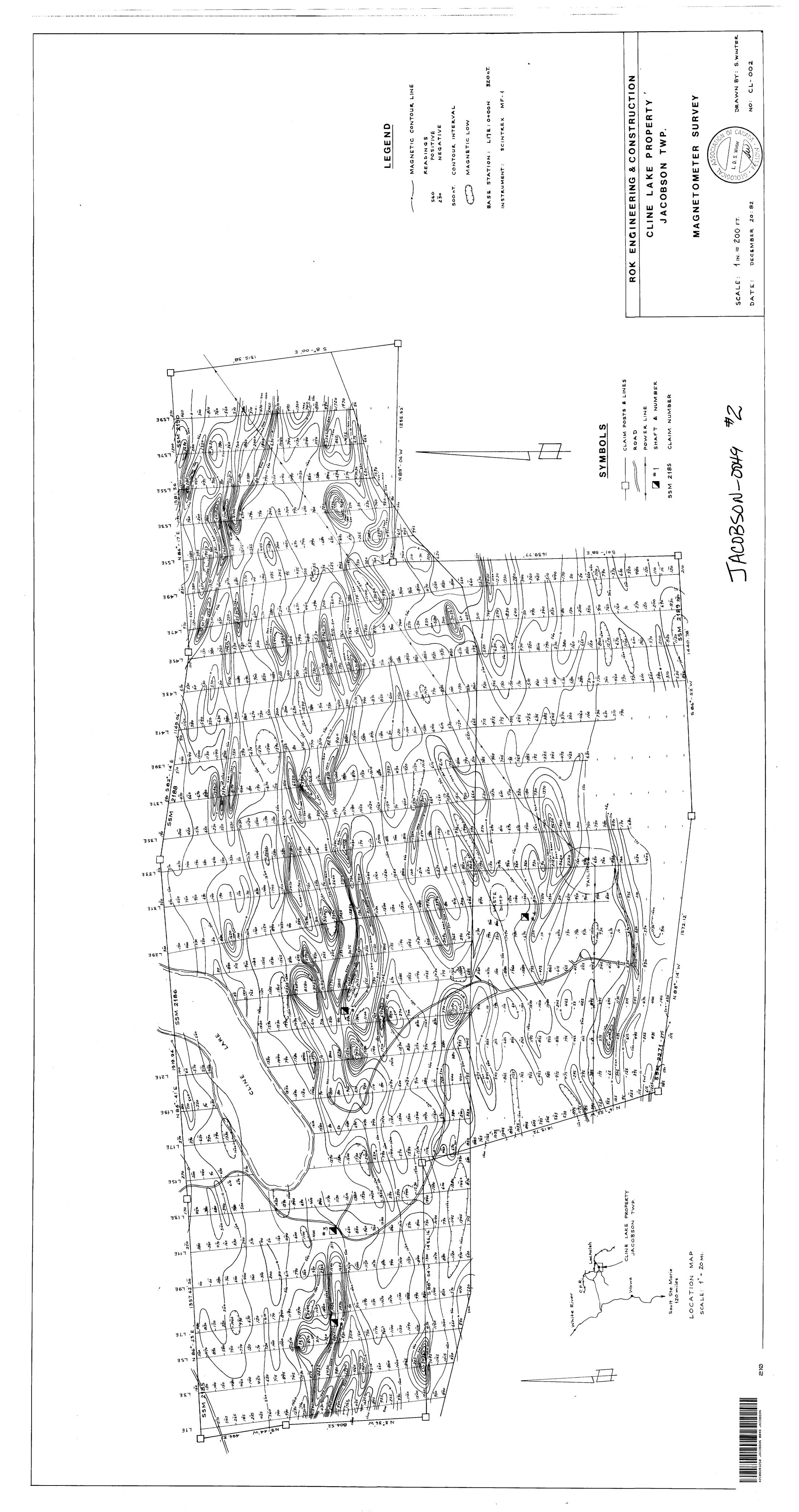
INFORMATION

SEE MAPS:

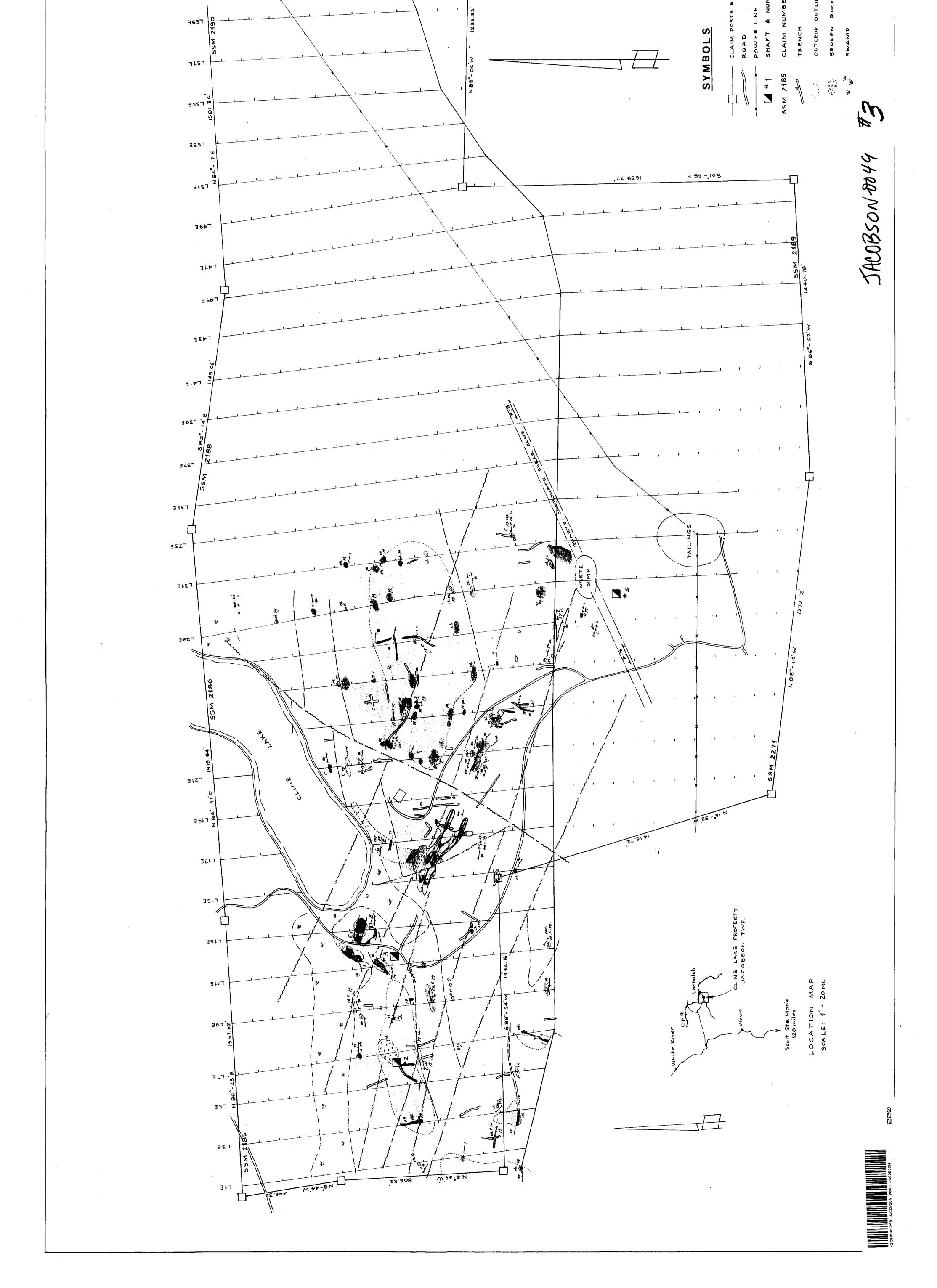
<u>JACOBSON-0049</u> #4 5

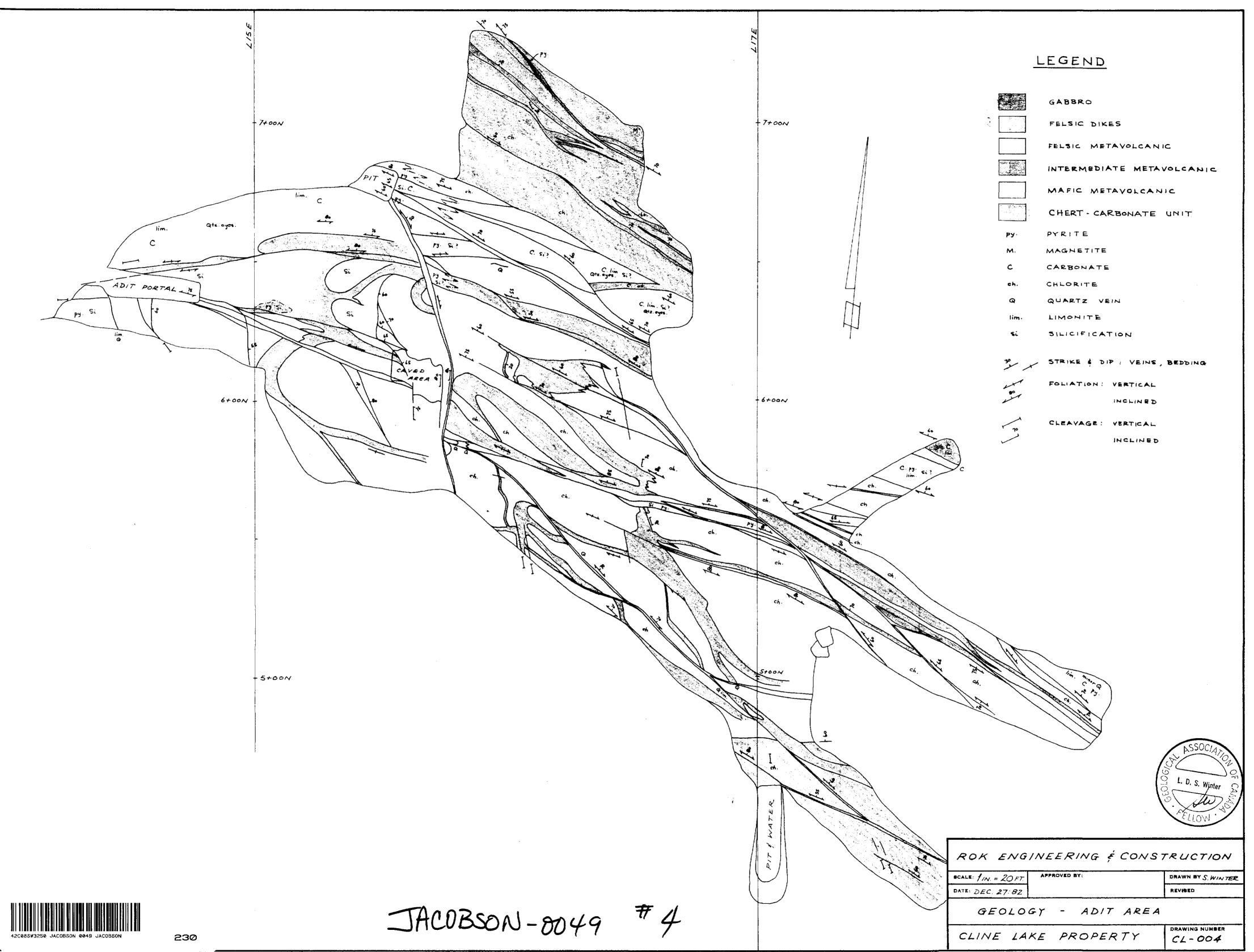


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	LEGEND Gabbro Juarz eye porphyry	. ب	FELSIC METAVOLCANIC INTERMEDIATE METAVOLCANIC MAFIC METAVOLCANIC	CHERT - CARBONATE UNIT	PYRITE CCP. CHALCOPYRITE	PO- PYRZHOTITE M MAGNETITE	C. CARBONATE ch. Chlorite	·	ser. SERICITE shr. SHEARING - SCHISTOBITY	A 30 STRIKE & DID : VEINS, BEDDING. ETC.	FOLIATION : VERTICAL 	CLEAVAGE : VERTICAL 50 : INCLINED	30 SMA	HULT - OBSERVED - INTERPRETED	GEOLOGICAL CONTACT - OBSERVED		ROK ENGINEERING & CONSTRUCTION	CLINE LAKE PROPERTY	JACOBSON TWP.	GEOLOGY	CICLE ASSOCIATION	SCALE : 1 IN. = 200 FT. OC L. D. S. Winter D. DRAWN BY: S.WINTER. DATE: DECEMBER 20:82
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