



42C08SW0071 JACOBSON68 JACOBSON

DIAMOND DRILLING

010

TOWNSHIP: Jacobson

REPORT No.:

WORK PERFORMED BY: Cline Dev Corp

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
SSM 2271	84-1	300	Dec 1/84	1
"	84-2	298	Jan 4/85	1
"	84-3	277	Dec 20/84	1
"	84-4	229	Jan 12/85	1
"	84-5	269	Jan 18/85	1
Total	5 DH	1373 FT		

NOTES: 1 refers to LO 14893

LO 14893

CLINE DEVELOPMENT CORPORATION

CLINE LAKE PROPERTY

LICENCE OF OCCUPATION #14893

JACOBSON, TOWNSHIP

ONTARIO

DRILLING PROGRAM

NOVEMBER 1984- JANUARY 1985

L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.
February 25, 1985

INTRODUCTION

From late November 1984 through mid-January 1985 a preliminary drilling program of 1,373 feet of BQ drilling was completed on claim SSM2271 of the group held under Exploration Licence of Occupation No. 14893 in Jacobson township, District of Algoma, Ontario, by Cline Development Corporation. This program was designed to test the G zone - a combined IP, magnetic and geochemical anomaly-outlined by surface exploration work in the summer of 1983. This zone was described by previous workers on the property as a quartz-carbonate shear zone and a trench across this zone on L31E at 1+50S gave an assay of 0.32 ounces gold per ton across 12 feet.

The following report outlines the work done and the results obtained during this drilling program.

2. PROPERTY

The Exploratory Licence of Occupation claims are located in central Jacobson township, District of Algoma, Ontario at 48°-20' N latitude, 84°-20' W longitude, approximately 290 km north of Sault Ste. Marie, Ontario and 48 km northeast of Wawa. The property is illustrated in Figure 1.

3. DRILL PROGRAM

The drill program consisted of 5 short drill holes 84-1 to 84-5 inclusive designed to test the G zone structure (Figure 2). Three holes, 84-1, -2, and -3 were drilled to intersect the G zone anomaly in the region of the trench (0.32 oz gold per ton across 12 ft) on L31E which is approximately 200 feet east of the old #4 shaft. Hole 84-1 was drilled under the trench, 84-2 approximately 100 west of 84-1 and 84-3 about 125 ft. east of 84-1.

Holes 84-4 and 84-5 were located at 19+00E and 20+40E respectively, approximately 1000 ft. west of the

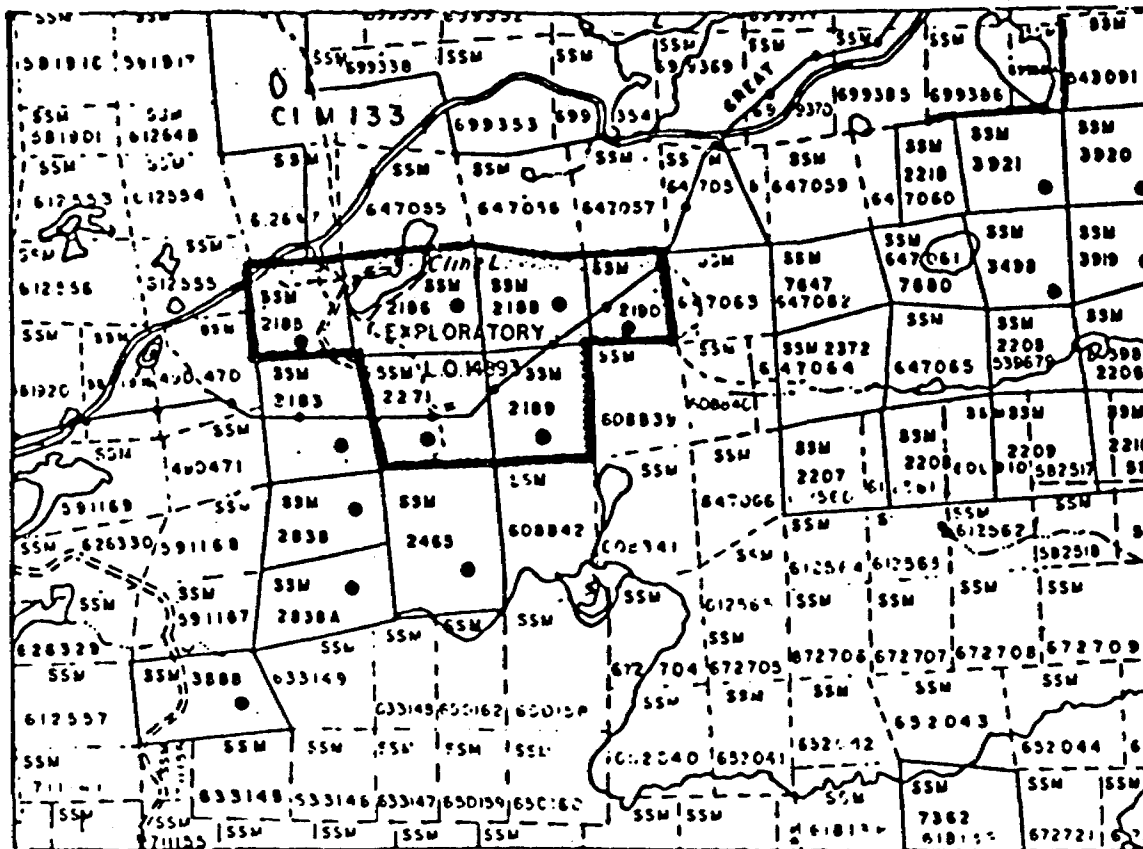


FIGURE 1

CLAIM MAP

From Plan M.1583 JACOBSON TOWNSHIP
Ministry of Natural Resources of Ontario
Surveys and Mapping Branch

SCALE: 1" to 1/2 MILE

To accompany the report for
CLINE DEVELOPMENT CORPORATION



BLOCK I

6 claims under Exploratory License of Occupation

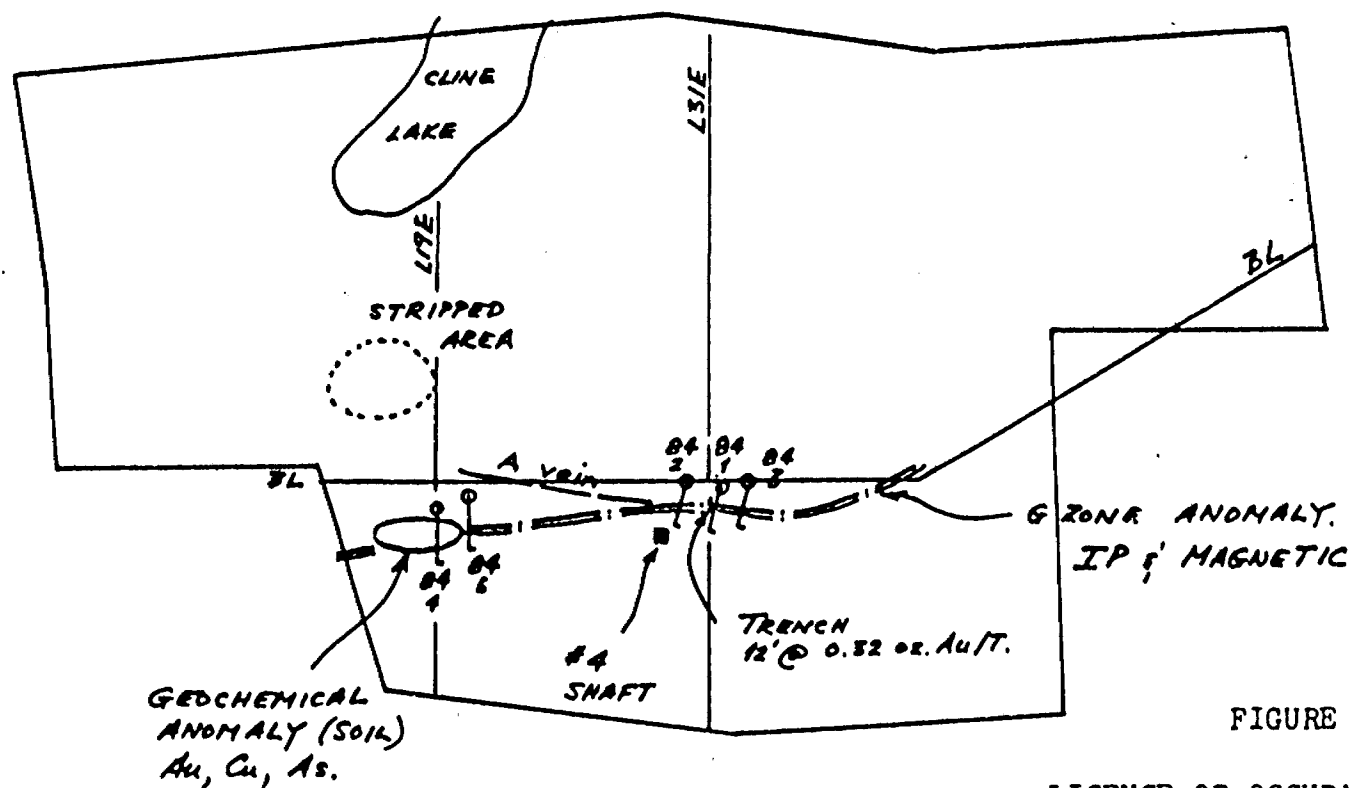


FIGURE 2

LICENCE OF OCCUPATION CLAIMS

G ZONE ANOMALY DRILLING

DRILL HOLES - 84-1 TO 84-5

Scale: 1" = 800'

CLINE DEVELOPMENT CORPORATION

February 15, 1985

● #4 shaft to, explore the G zone IP anomaly and coincident gold, copper and arsenic soil geochemical anomalies (Figure 2).

4. RESULTS

4.1 HOLES 84-1, 84-2, 84-3

These three holes which intersected the G zone structure east of the #4 shaft showed the zone to vary in width from 40 to 80 feet and to dip steeply north ($75^{\circ}\pm$). The zone is generally sheared to well foliated, chloritized, carbonatized, sericitized and locally silicified. It usually contains about 1% disseminated pyrite which may increase to 5% in some sections. This zone is bounded both to the north and south by generally massive dark green mafic metavolcanic flows locally showing concentrations of magnetite and sulphides up to 10%. The G zone structure may be sheared, altered mafic metavolcanics but some preliminary thin-section work has suggested it could be a sheared interflow sediment-tuff unit. More work is required to clarify this point.

A number of felsite dikes were intersected in all holes with widths ranging from about 1 foot up to +20 feet. These dikes range from very fine grained felsites to porphyritic varieties containing quartz and feldspar as phenocrysts. The dikes may be fresh to sheared and sericitized and they usually contain at least 1% fine disseminated pyrite and/or pyrrhotite.

Gold mineralization encountered in these holes was found in two different situations. One was in a grey, well foliated rock within the main G zone structure showing silicification and containing a few percent of fine pyrite as disseminated grains or in small stringers similar to that in the surface trench. The second type was intersected in hole 84-2 where a sheared felsite dike from 202.5 to 204 ft averaged 0.481 ounces gold per ton. The adjacent foliated rock and part of a second sheared and sericitized felsite dike show an elevated gold content (0.01 ounces gold per ton).

The significant mineralized intersections are listed in Table 1.

4.2 HOLES 84-4 and 84-5

Holes 84-4 and 84-5 also intersected a strongly sheared-foliated zone varying in width from 40 to 50 feet and dipping steeply north. The zone is chloritized and carbonatized and contains quartz-carbonate veining with associated sulphides-pyrite and pyrrhotite in 84-4 and pyrite in 84-5. Hole 84-5 contains a particularly strong zone of quartz-carbonate veining, from 157 to 177 feet, associated with fine disseminated pyrite as veinlets and stringers in the quartz and with coarse pyrite (metacrysts) in the altered wall rock. The total pyrite content is estimated to be 5 to 8%. The wall rock in this zone is grey and slate-like in appearance and is contained within the larger zone of strong chloritization and carbonatization. The 5 ft. interval from 170- to 175 feet assayed 0.118 ounces gold per ton. The section from 113 to 133 in 84-4 is similar to the above description but it contains only minor pyrite and pyrrhotite, far less carbonate veining, and returned 1.5 feet at 0.160 ounces gold per ton, from 128 to 129.5 ft. It is considered that these two mineralized sections represent a zone of gold mineralization within the larger G zone structure.

Both above and below this zone of sheared and altered rocks are mafic metavolcanic flows, similar to the situation encountered in holes 84-1, -2, and -3. One noticeable difference is the presence of an intrusive granodiorite in the upper part of holes 84-4 and -5. This granodiorite is generally altered, contains 1% disseminated sulphides and contains noticeable blue quartz-eyes.

Felsite dikes and quartz, feldspar and quartz-feldspar porphyry dikes up to 39 feet wide are present in both holes.

A quartz, carbonate pyrite vein in the hangingwall of the G zone at approximately 90 feet in hole 84-5 is associated with 9 feet of lost core.

The significant mineralized intersections are listed in Table 1.

TABLE 1

Significant Intersections - Holes 84-1 to 84-5

<u>Hole No.</u>	<u>From</u>	<u>To</u>	<u>Intersection(ft)</u>	<u>Oz Au/T</u>
84-1	155	156.5	1.5	0.052
	160.5	162.5	2	0.114
	155	162.5	7.5	0.053
84-2	123	125	2	0.047
	202.5	204	1.5	0.481
	232	234	2	0.136
84-3	247.7	27.7	3	0.055
84-4	128	129.5	1.5	0.160
	205	207.5	2.5	0.128
84-5	170	175	5	0.118
	171.5	173	1.5	0.217

Further details of these intersections can be found in the attached drill logs.

5. SUMMARY AND CONCLUSIONS

Holes 84-1, -2 and -3, east of the #4 shaft, have indicated gold mineralization associated with the G zone structure but no consistent mineralization has been detected.

Holes 84-4 and 84-5 intersected a strong, well-defined structure approximately 1000 ft. west of the #4 shaft on the G zone anomaly. Due to the intersection of gold mineralization in this structure in these holes it is considered that follow-up work in this area is warranted, particularly along strike to the east and down dip from holes 84-5.

It is considered that the results from holes 84-4 and 84-5 suggest that the soil geochemical anomalies are indicating bedrock mineralization. There are a number

of unexplored areas on the property showing soil gold, copper and arsenic anomalies particularly in the northern and northeastern parts of the claim group. These anomalies are associated with IP anomalies and/or the contact with a quartz-eye porphyry (crystal tuff ?) unit. It is considered that these areas have a high potential for gold mineralization and along with the G zone structure should be further evaluated by a program of surface stripping, geological mapping, sampling and diamond drilling where warranted.

Respectfully submitted,

L.D.S. Winter




L.D.S. Winter,

B.A.Sc., M.Sc., F.G.A.C.

February 25, 1985

DIAMOND DRILL HOLES - 84-1 to 84-5

LEGEND

-  mm mafic metavolcanic flows
-  gd granodiorite
-  shear zone (may be sheared metavolcanic flows
or sheared interflow sediments
and /or tuffs)
- f felsite dike
- qp quartz porphyry dike
- fp feldspar porphyry dike
- qfp quartz-feldspar porphyry dike
- md mafic dike
- sil silicification
- py pyrite
- po pyrrhotite
- ccp chalcopyrite
- Q quartz veining or vein
- C carbonate vein in association with quartz
- ↗ shearing in mafic metavolcanics
- 1.5 @ 0.160 - mineralized intersection; 1.5 feet at
0.160 ounces gold per ton.
- ob overburden
- 90 feet vertically below elevation of
hole collar

DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake
 HOLE NO. 84-1 LENGTH 300 feet
 LOCATION claim SSM 2271
 LATITUDE 0+20S DEPARTURE 31+60E
 ELEVATION - AZIMUTH 195° DIP -45°S
 STARTED Nov. 27 : 84 FINISHED Dec. 1 : 84

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45	195			

HOLE NO. 84-1 SHEET NO. 1

REMARKS _____

LOGGED BY S. WINTER

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SILICA PHOSPH IDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	2	Casing								Au	
2	61	Mafic Metavolcanic Flow fn. gn., dk. green, chl., irreg. patches pale yellow- green carb.-up. alt., scattered carb. and epidate stringers, scattered patches of massive magnetite plus carb. and pyrite up to 8 cm long., carb. stringers generally 30°-45° to core. magnetite present only up to 46 feet.	C28316		28	30	2			0.010	
61	68	Mafic Dike mass., grey-green, fn. gn., 1 mm feld. + mafic (generally chl.) some carb. veining 63.5-64.5 carb. veining at 30°-45°	37114		97.5	98.3	0.8			.004	
			37115		98.3	100	1.7			.003	
			37116		100	101.5	1.5			.002	
68	100.5	Mafic Metavolcanic Flow (as above) 69-72 strong chl., carb. veining 92-100.5 strong chl. alt., carb. veining 30° to core 97.5-98.3 blue-grey silicif. (quartz flooding) rock replaced by network of qtz.	37117		101.5	105	3.5			.007	
			37118		105	110	5			.011	
			37119		110	114.7	4.7			.009	
100.5	114.7	Felsite dike grey, grey quartz + feldspar, 10% mafics alt. to chl., diss. py. and occas. veinlets (1%±) fn. to med. grain in centre of dike, sli. foliation 50° to core 100.5-101.5 blue-grey silicif. (quartz flooding) as above., network of qtz with unreplaced frag. chl. rock up to 5 mm in diam.	37120		114.7	117	2.3			.006	
114.7	147.2	Mafic Metavolcanic Flow (?) dk. green, v. fn. grained, chl., massive in appearance due to alt., occas. grain diss. pyrite, scattered carb. stringers 115.5- 5 cm shrd., strong chl., qtz carb veining at 45°									

LANGRIDGES - TORONTO - 366.1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake

HOLE NO. 84-1

SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON Au	OZ TON
					FROM	TO	TOTAL				
		116.7- 8 cm shrd., strong chl., qtz-carb. veining at 45°	37107		135	137	2			.038	
		119-120 pale yellow-green, epidate-carb alt.	37108		137	140	3			.005	
		128-147.2 rock becomes well foliated to shrd.(?)	37109		140	141	1			.004	
		could be metatuff or metasediment(?)	C28308		141	142.5	1.5			0.018	
		stringers pyrite and carb. parallel to	37110		142.5	145	2.5			.002	
		foliation in places	37111		145	147.2	2.5			.009	
147.2	156.3	Quartz Porphyry Dike	37112		147.2	150	2.5			.004	
		grey, massive, qtz + feldspar matrix, v. fn. grained,	37113		150	153	3			.004	
		10% grey quartz phenocrysts, 2-4 mm diam., sli.	C28317		153	155	2			0.008	
		foliation at 60°	C28309		155	156.5	1.5			0.052	
156.3	188	Metasediment (?) or Metatuff(?)	C28310		156.5	158.5	2			0.020	
		grey to green, fine grained, well foliated to shrd.	C28311		158.5	160.5	2			0.026	
		45° to parallel to core, qtz carb. veining parallel	C28312		160.5	162.5	2.0			0.114	
		to foliation, occas. grain diss. pyrite	C28313		162.5	164.5	2			0.014	
		156.3-157.5 shrd., dk. green, chl., foliation 80° to	C28314		164.5	167.5	3			0.008	
		core, occ. diss. py. grain	C28315		167.5	170	2.5			0.006	
		157.5-160 qtz.-carb.-chl. veining in shrd., chl. rock	37121		180	181	1			.009	
		as above	37122		181	185	4			.002	
		180-181 grey, sericite, carb., qtz-carb veining	37123		185	188	3			.010	
		30°-45° to core	37124		188	193.5	5.5			.003	
		181-188 shrd., strong chl., carb. veining parallel	37125		193.5	197	3.5			.004	
		to foliation 1-5 mm wide, minor qtz.	37126		197	200	3			.003	
		veinlets, occas. diss. pyrite (1%)									
188	193.5	Felsite dike									
		fine grained, grey-blue, quartz-carb.-sericite well									
		foliated to sheared 60° to core, 1% diss. pyrite.									
193.5	298	Mafic Metavolcanic Flow									
		193.5-198 shrd., dk. green, v. fine grained, strong									
		chl. alt., carb. veining, 60°-70° to core, scattered									
		5 mm qtz. veinlets									
		198-207 dk. green, chl., v. fn. grained, carb.,									
		recrystallized and appears massive, scattered									
		carb. stringers parallel to 60° to core.									
		207-132 fine grained, green, chl., carb., scattered									
		carb. veining, short sections shrd. core. with									
		carb. veining and pyrite as noted									
		207-207.7, 208-208.5, 212-212.2 and 217-217.2									

DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake

HOLE NO. 84-1

SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ TON	OZ TON	
					FROM	TO	TOTAL					
300		231-300	med. grained, fine diabasic texture with feldspar up to 3 mm., feld.+ mafics alt. to chl., 5% magnetite in spots where magnetite interstitial to feldspar, rock noticeably magnetic									
		289-298	scattered carb. veining and occas. qtz. veining									
			End of Hole									

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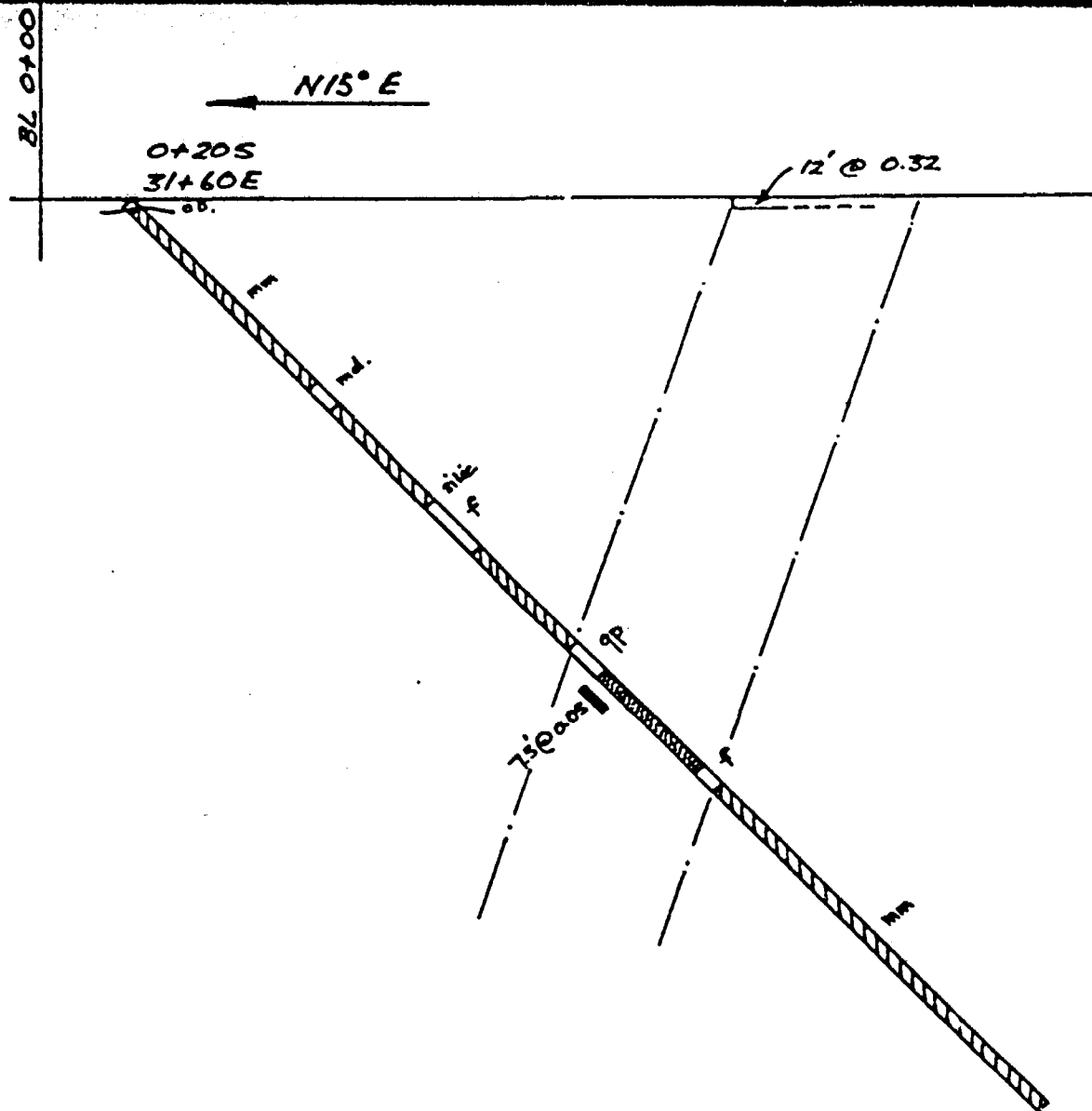


FIGURE 4
G ZONE SECTION 31+60E
HOLE 84-1
Scale: 1" = 40'

February 15:1985

DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake
HOLE NO. 84-2 LENGTH 298 feet
LOCATION Claim SSM 2271
LATITUDE BL-0+00 DEPARTURE 30+50E
ELEVATION - AZIMUTH 195° DIP -45°S
STARTED Dec. 21 : 84 FINISHED Jan. 4 : 85

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	45°	195°			

HOLE NO. 84-2 SHEET NO. 1

REMARKS _____

LOGGED BY S. Winter

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FROM	TO	TOTAL	%	%	OZ/TON	OZ/TON
0	5	Casing									
5	16	Feldspar Porphyry Dike grey, massive, v. fn. gn., white feld. phenocrysts 2-4 mm., 10%; occas. carb. stringers 1-3 mm. 5-9 broken core, lim. on frac. 16 - irregular contact									
16	22.4	Mafic metavolcanic flow mass., fn. grained, dk. green, chl., scattered irreg. carb. stringers									
22.4	30.5	Felsite dike fine med. grained (1 mm±) mass. grey, qtz + feldspar, equigranular, scattered carb. stringers 30.5 - 10 cm black qtz and carb. on contact at 40°									
30.5	108.5	Mafic metavolcanic flow mass., fn. grained, dk. green, chl., carb., generally many carb. stringers from hair line to 3-4 mm wide generally at 45° to core but other variable angles -scattered patches mass. magnetite + diss. pyrite sometimes with assoc. carb. -patches pole-yellow green alt. 93- 15 cm carb. - black chl. veining at 45° 106.5- 108.5 strong chl., pyrite + chl. in small 2-3 cm gash veinlets, also diss. pyrite. 108.5- sharp contact									
108.5	118.25	Quartz Porphyry Dike grey, fine med. grained 1-2 mm., quartz + feld. + chl. with phenocrysts grey qtz up to 5 mm diam. in anhedral grains. -generally foliated at 45° - patches carb. alt. +									

DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake

HOLE NO. 84-2

SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	oz. TON	oz. TON
					FROM	TO	TOTAL			AU	
118.25	123	carb. stringers - variable diss. pyrite (0-3%) Mafic metavolcanic (as above) dk. green, chl., fn. grained, carb., occas. grain diss. pyrite (<1%) carb. stringers 1-3 mm parallel to foliation at 60°	C37199		106.5	108.5	2			.002	
			C37200		108.5	112	3.5			.003	
123	143	Metasediment (??) or metatuff(?) grey, well foliated to shrd., 50° to core, sericite- carb-qtz-chl.-diss. pyrite, variable content. generally 1% - carb. veining and small qtz. - carb. stringers 123-125 silicified, 8% diss. pyrite and occas. stringers parallel foliation 125-143 generally 1% diss. pyrite, fine. clots of a black mineral (chl?) 1 mm in size.	C28394		112	117	5			.005	
			C28395		117	118.5	1.5			.003	
			C28396		118.5	120	1.5			.003	
			C28397		120	122	2			.002	
			B0951		122	123	1			.007	
			B0952		123	125	2			.047	
			B0953		125	127	2			.014	
143	150	Metasediment (?) or Metatuff(?) dk. green, v. fn. grain, chl., carb. sericite, quartz. very well foliated to shrd., carb. stringers 1-5 mm 65° to core.	B0954		127	129	2			.019	
			B0955		129	132	3			.007	
			B0956		132	133	1			.007	
150	153	Felsite dike v. fn. grained, grey, shrd., fine stringers + diss. pyrite 65° to core.	C28398		133	137	4			.002	
			C28399		137	140	3			.007	
			C28400		140	143	3			.020	
153	172.5	Metasediment or Metatuff(?) as above foliated to shrd. at 45°, carb. stringers generally parallel to foliation but some irreg. stringers in patches, occas. diss. pyrite (<1%) 157.5 - 15 cm diss. and stringers pyrite plus carb. parallel to core axis 167.7 - 172.5 grey, silicified(?) 171.2 - 171.5 grey qtz vein 60° to core	B0957		143	144	1			.003	
			B0958		144	146	2			.040	
			B0959		146	147	1			.010	
			B0960		147	148	1			0.011	
			B0961		148	150	2			0.010	
			B0962		150	152	2			0.033	
			B0963		152	153	1			0.022	
			B0964		153	155	2			0.026	
			B0965		155	157	2			0.011	
			B0966		157	158	1			0.027	
			B0967		158	160	2			0.006	

DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake

HOLE NO. 84-2

SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	0Z. TON	0Z. TON
					FROM	TO	TOTAL				
172.5	175.5	Felsite dike v. fn. grained, grey, silic. rich, generally frac. 45° to core with yellow-green alt. along frac. -scattered qtz - carb. stringers at 45° up to 5 mm - 1-2% pyrite diss. and in fine stringers	C37101		170	172.5	2.5			.012	
			C37102		172.5	175.5	3			.002	
			C37103		175.5	180	4.5			.002	
			C37104		180	183	3			.002	
175.5	202.5	Metasediment or Metatuff (?) as above 153-172.5 187 - 10 cm grey-white qtz vein 188.5 - 10 cm grey-white qtz vein 187-200 strongly carb. many qtz-carb. stringers 30°-60° to core 200-201 qtz, carb., chl., black tourmaline (?) 2-3% diss. pyrite 90°-60° to core 201-202.5 strongly shrd., strongly chloritized (dk. green)., carb. stringers 2-3 mm wide 30° to core	C37105		183	187	4			.003	
			B0972		187	188	1			0.005	
			B0973		188	190	2			0.008	
			C37106		190	195	5			.006	
			B0974		195	197	2			0.008	
			B0975		197	199	2			0.008	
			B0976		199	200	1			0.003	
202.5	204	Felsite Dike 202.5 - 3 cm qtz-carb. veining, - 5 cm shrd. felsite dike, - 5 cm shrd. strong chl. + 5% diss. pyrite. - 25 cm shrd. felsite dike 30° to core	C28373		200	201	1			.003	
			C28374		201	202.5	1.5			.002	
			C28375		202.5	204	1.5			.481	
204	210	Shear Zone strongly shrd., chl., carb., + carb. veining., recrystallized, grain size 2-3 mm., occas. diss. pyrite grain (1%±) 209-210 - 3%± diss. pyrite	C28376		204	209	5			.011	
			C28377		209	212	3			.018	
			C28378		212	215	3			.011	
			C28379		215	219	4			.011	
210	234	Felsite Dike v. fn. grained, grey-white, qtz + feldspar, mass. to sli. shrd. at 45° - patches stringers and diss. pyrite 2-5% - many fine black stringers along hair line frac., pale waxy yellow-green alt. (sericite + carb.) along frac. 216-218 qtz-carb. veining and ≈ 1% diss py 30° to core 219-220.1 qtz-carb veining + diss. pyr. 90° to core 2mm wide veinlet black tourmaline(?) 221- 15 cm mass. white qtz. vein 222- 2.5cm grey-white qtz. vein	C28380		219	220	1			.013	
			C37192		220	221	1			.008	
			C37193		221	222	1			.002	
			C37194		222	225	3			.002	
			C37195		225	228	3			.002	
			C37196		228	232	4			.018	
			C37197		232	234	2			.136	
			C37198		234	235	1			.003	

DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake

4 of 4

HOLE NO. 84-2

SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	02. TON	02. TON	
					FROM	TO	TOTAL					
		228-234 rock is pale purple-brown colour v. fn. grained, well foliated at 45°, narrow 2-5 mm qtz veinlets, up to 5% as diss py. and in frac. and stringers										
		234 - contact at 45°, 3 cm shrd. +15% py. in dike.										
234	298	Mafic metavolcanic flow v. fn. grained, green, chl., occas. diss, py. grain ($<1\%$), carb. alt., carb. stringers at 45° 234-240 sli. foliation at 45° 240-298 massive, green, chl. alt. + carb. carb. stringers at 45°-30° up to 281 281-298 carb. stringers at 30° 286-289 shrd. chl., carb. veining 30° 295- qtz. carb. veining, 2-3 cm 30° to core										
298		End of Hole										

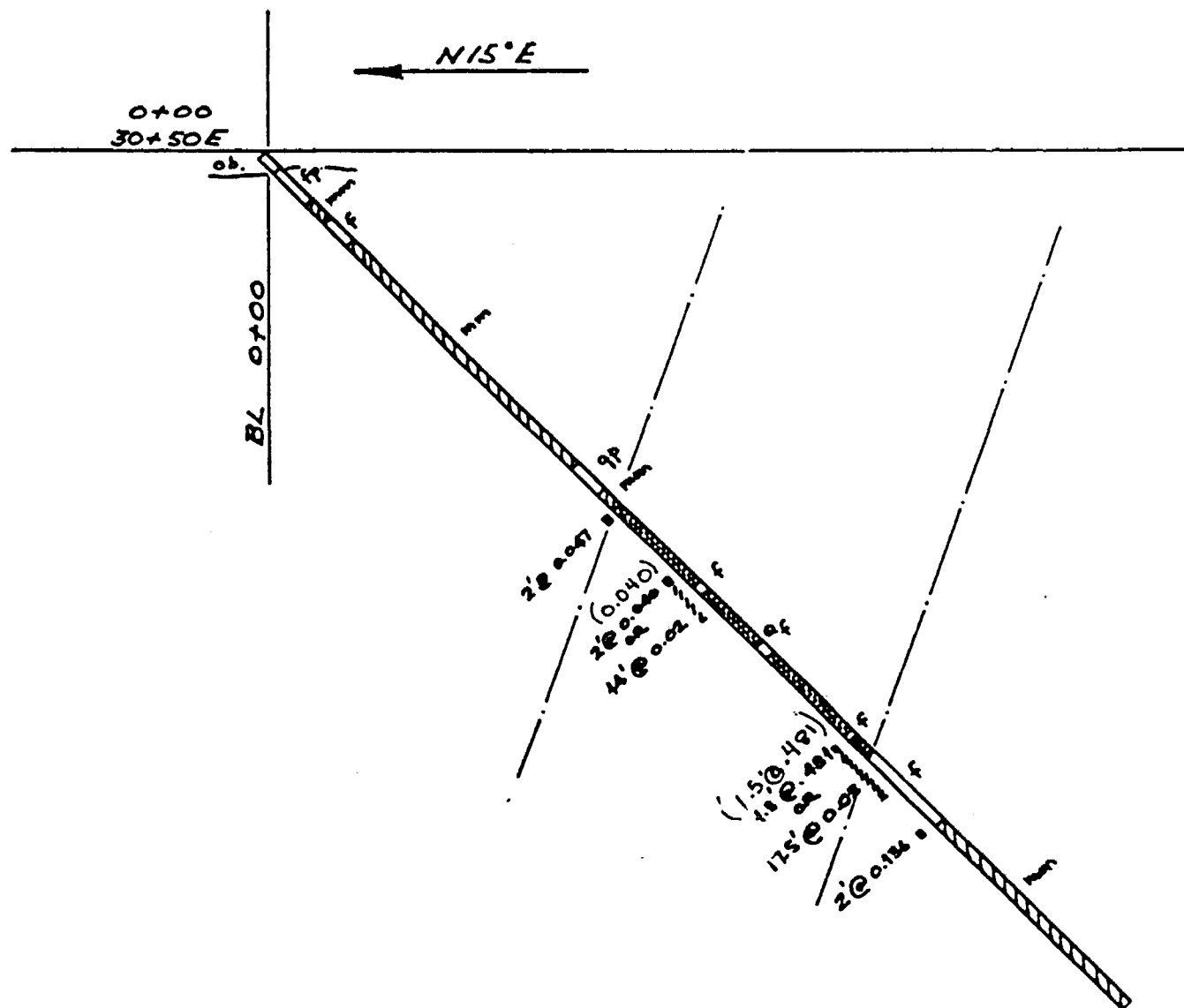


FIGURE 5

G ZONE SECTION 30+50E

HOLE 84-2

Scale: 1" = 40'

February 15, 1985

DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake
HOLE NO. 84-3 LENGTH 277 feet
LOCATION Claim SSM 2271
LATITUDE BL 0+00 DEPARTURE 32+85 E
ELEVATION 180° AZIMUTH 180° DIP 45°
STARTED Dec. 2:84 FINISHED Dec. 20:84

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	45	180			

HOLE NO. 84-3 SHEET NO. 1

REMARKS _____

LOGGED BY S. WINTER

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	2	Casing								Au	
2	98	Mafic metavolcanic flow massive, dk. green chl., fine grained, scattered carb. stringers 1-5 mm wide, 45 - 60° to core 24.7-27.7 shrd., chl., carb. veining diss. py. 5% at 60° to core 95 - 5 cm shrd., carb. veining 60° 96 - 12 mm shrd., carb., veining 60° 98 - 20 cm shrd., carb. veining, 1 mm band py.	C28318		23.7	24.7	1			.008	
			C28319		24.7	27.7	3			.055	
			C28320		27.7	28.7	1			.008	
98	127	Mafic metavolcanic (Altered tuff or metasediment?) v. fine grained, light grey-green colour, sli. folia- tion, chl., carb., scattered carb. stringers, sericite 111 - 112 bleached, silic., diss. and stringers 1-3 mm pyrrhotite (pyrite) 70° to core. 113 - 114 as for 111-112 114 - 119 well foliated, strong. chl. alt., mingr stringers pyrrhotite. 1 mm wide at 60° parallel foliation. 119 - 123 grey, bleached, silic, 5% ⁺ diss. and stringers pyrrhotite (pyrite) 60° to core., v. fine grained 123-127 grey-green, sli. bleached, strong chl., foliation 70°. 1% pyrrhotite as occas. diss. grains.	C28320		110	111	1			.014	
			C28321		111	112	1			.010	
			C28322		112	113	1			.008	
			C28323		113	114	1			.024	
			C28324		114	117	3			.014	
			C28325		117	119	2			.002	
			C28326		119	121	2			.030	
			C28327		121	123	2			.035	
			C28328		123	125	2			.004	
127	129.5	Quartz Porphyry Dike 127 - sharp contact and 129.5 shrd. contact with carb. veining at 60°	C28330		125	127	2			.008	

DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake

HOLE NO. 84-3

SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	oz. TON	oz. TON
					FROM	TO	TOTAL				
129.5	149	- grey, fn. grained to fine med. grained, mass., quartz phenocrysts up to 3 mm grey to blue in colour Mafic metavolcanic (Altered tuff or metasediment?) v. fn. grained, grey-green, sli. shrd. to foliated 60° to core, 1-5 mm wide carb. stringers, chl.,	C28331		127	128	1			.028	
			C28332		128	130	2			.003	
			C28333		130	135	5			.003	
			C28334		135	140	5			.003	
149	172	Felsite dike (possibly felsic metavolcanic?) grey, v. fn. grained, mass. to sli. foliated at 60°-70° rock generally carbonatized - scattered irreg. stringers and patches flesh coloured carb. alt., also white carb. stringers	C28335		140	145	5			.004	
			C28336		145	150	5			.004	
			C28337		150	155	5			.003	
			C28338		155	160	5			.003	
172	173.5	Quartz vein white with carb. and chl. patches esp. on contacts.									
173.5	176.5	Strongly altered, pale yellow-green, sericite, carb. shrd., frac. with carb and pyrite at 45° - 2% - may be altered. quartz porphyry dike esp. 175-176.5	C28369		171	172	1			.002	
			C28370		172	173.5	1.5			.002	
176.5	200	Mafic metavolcanic (Altered tuff?) dk. green, v. fn. grained, strong chl., carb., carb stringers parallel to foliation 60-70° 176.5-180 shrd. Strong chl., carb. 45° to core, qtz.-carb. -veining 178-180° stringers and diss. py. 0-5% py (minor ccp) 199-200 carb alt. increases and carb. veins up to 5mm	C28371		173.5	175	1.5			.003	
			C28372		175	176.5	1.5			.003	
			C28345		176.5	178	1.5			.008	
			C28343		178	179	1			.003	
			C28344		179	180	1			.010	
			C28346		180	181	1			.003	
200	210	Felsite Dike v. fn. grained, grey-white; 200 to 202 strongly sheared, sericite, carb 1% pyrite, shearing decreases gradually to 208. -shrd. at 45° ., scattered stringers and diss. py. 1% -	C28339		181	185	4			.016	
			C28340		185	190	5			.003	
			C28341		190	195	5			.003	
			C28342		195	200	5			.003	
			C28389		200	202	2			.004	
			C28390		202	205	3			.002	
			C28391		205	208.75	3.75			.002	
			B0968		208.75	209.75	1			.004	
			B0969		209.75	211.75	2			.006	
			B0970		211.75	212.75	1			.009	

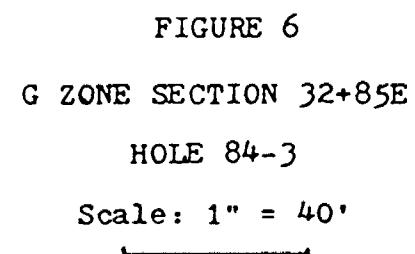
DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake

HOLE NO. 84-3

SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	oz. TON Au	oz. TON	
210	216	Mafic Metavolcanic Flow fn. grained, dk. green, chl., carb., scattered 2-3 mm wide carb. stringers at 45°-70° to core., many fine chl. stringers along fractures, rock appears mass. but recrystallized. 210-216 qtz - carb stringers plus sulphides up to 10%	B0971		212.75	214	1.25			.010		
			C28392		214	218	4			.006		
			C28393		218	220	2			.002		
216	218	Felsite Dike grey, v. fn. grained, qtz + carb. veining, foliation 30° to core, 1% - diss. py.										
218	277	Mafic Metavolcanic Flow (as above 210-216) 219-220 quartz veining, carb., py. 90° to core 220-277 fn. grained, green, chl., carb., occas. section 2-5 cm wide shrd. with strong chl., ep. alt. in places epidate - chl., alt with acicular amphibole (?) crystals up to 5 mm long										
	277	End of Hole.										



1.

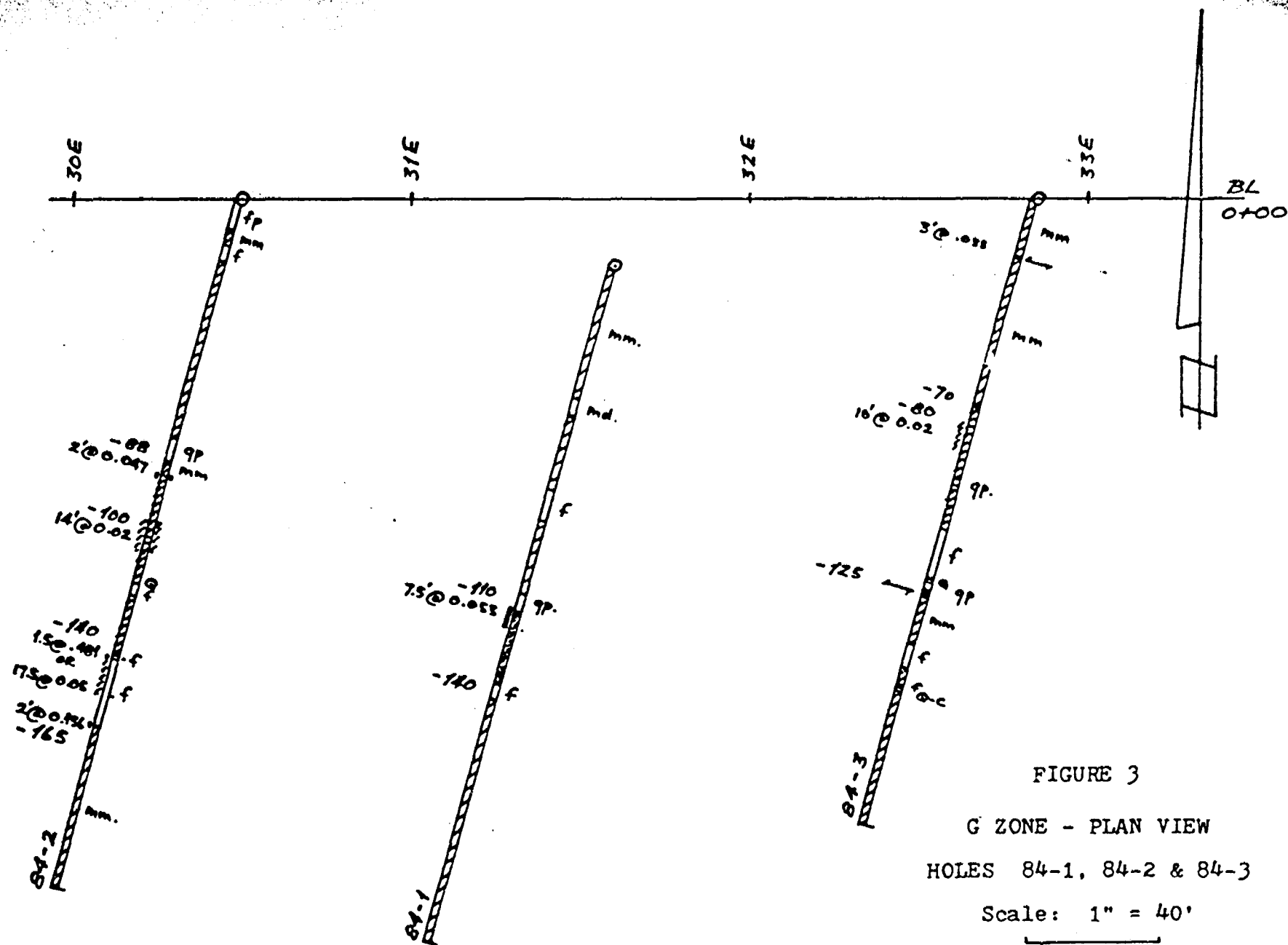


FIGURE 3

G ZONE - PLAN VIEW

HOLES 84-1, 84-2 & 84-3

Scale: 1" = 40'

February 15:85

DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake
HOLE NO. 84-4 LENGTH 229 feet
LOCATION claim SSM 2271
LATITUDE 1+20S DEPARTURE 19+00E
ELEVATION - AZIMUTH 180° DIP -45°S
STARTED Jan. 5 : 85 FINISHED Jan 12 : 85

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	45	180			

HOLE NO. 84-4 SHEET NO. 1

REMARKS _____

LOGGED BY S. WINTER

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	25	Casing								Au	
25	41.5	Mafic metavolcanic flow fn. grained, dk. green, chl., plus carb.; occas. carb. stringer 2-3 mm wide, a few diss. py. grains									
		25-36 badly broken core, lim. coated frac.									
		36-38.7 Mafic metavol. as above and also scattered sections of v. fn. grained material and also irreg. dikes of granodiorite (?) many stringers 45° & 135° to core of carb. and pink, alk (?) feld. stringers 2-5 mm wide - patches very fine diss. pyrite (ccp)	C28381		36	38.7	2.7			.002	
			C28382		38.7	39.7	1			.002	
			C28383		39.7	41.5	1.8			.002	
			C28384		41.5	44	2.5			.002	
		38.7-39.7 Quartz vein, grey to grey - flesh coloured with fine carb. veining, minor diss. py (<1%)	C28385		44	46.5	2.5			.002	
		39.7-40.5 Breccia-grenodiorite dikes and metavolcanic up to 2% diss. sulphides	C28386		46.5	47.25	0.75			.002	
			C28387		47.25	48.75	1.50			.002	
			C28388		48.75	50	1.25			.003	
41.5	80	Granodiorite Generally med. grained with grains up to 5 mm ci-40%; quartz, generally blue, gives rock a blue opalescent appearance (25%), feldspar, chl. and carb., finer grained matrix, occas. scattered patches. sulphides generally ≈ 1%									
		44-46.5 very felsic, ci - 0, quartz-carb. stringers diss. pyrite and chalcopyrite (2-4%)									
		46.5-47.25 20 cm grey-white quartz, carb. breccia with chl + black mineral (tourmaline?) as cement									
		47.25-47.9 felsic granodiorite, stringers plus diss. pyrite									
		47.9-48.75 Felsite dike, v. fn. grained, silic., 1-2% pyrite									
		48.75-80 Granodiorite - as above									

DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake

HOLE NO. 84-4

SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ./TON	OZ./TON	
					FROM	TO	TOTAL			Au		
		scattered qtz - carb. stringers up to 3-4 mm	C28357		60	61	1			.003		
		60° to core										
		60.2-60.8 mafic dike, v. fn. grained, green, chl.,	C28358		61	63.5	2.5			.002		
		contacts 45°, a few thin carb. stringers	C28359		63.5	66	2.5			.010		
		1-2 mm wide, 1-2% v. fine diss. sulphides	C28360		66	67.5	1.5			.002		
		60.8-68 quartz-carb stringers 45°-60° to core as	C28361		67.5	68	0.5			.002		
		noted, generally stringers are a pale										
		yellow colour with assoc. pale yellow										
		(carb-sericite?) alt. of adjacent grano-										
		diorite.										
		61- 5 mm qtz. vein at 30°										
		62.25- 1 cm qtz. -carb. vein 60°										
		63.75- 1 cm grey-quartz veinlet + black tourmaline(?)										
		64- 2.5 cm white, carb-qtz. vein										
		64.5 - 3 cm white, qtz.-carb. vein at 45°										
		65.3 - 2, - 2-3 cm qtz. and carb. veins										
		66- 5cm shrd., qtz-carb. veining										
		67-67.5 grey, quartz vein, 3 mm. carb + black tourm-										
		aline(?), yellow carb-sericite (?) alteration										
		and minor diss. sulphides on contacts										
		67.5-80 scattered, yellowish 1-3 mm carb. veinlets 45°										
		to core										
		75- 2.5 cm wide qtz-carb-black tourmaline (?) vein at										
		45°										
80	113	Quartz Porphyry										
		light grey, v. fn. grained matrix of qtz + feld.,										
		2-4 mm grey, subhedral to anhedral qtz phenocrysts,										
		5-10%; sericite alt. along frac.										
		80- contact at 60°	C28364		103	105	2			.002		
		103-106.5 qtz. veining in porphyry	C28365		105	106.5	1.5			.002		
		104- 30 cm qtz vein										
113	133	Sheared and Mineralized Zone										
		113-121.1 grey, very fn. grained, well foliated 2-3mm.										
		wide layers of qtz, carb. chl., sericite 60°										
		to core, occas. suggestion blue qtz. eye,										
		may be sheared granodiorite, foliation										
		parallel to sub-parallel to core minor qtz.										
		veining.										

DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake

HOLE NO. 84-4

SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	oz. TON	oz. TON
					FROM	TO	TOTAL				
		113.5- broken core, qtz. carb. veining and black tourmaline (?)	C28366		113.5	115	1.5			.002	
		121.1-128 strong chl., alt., shrd., qtz-carb-chl veining	C28367		115	117	2			.002	
		125-126 quartz veining	C28368		117	120	3			.002	
		128-129.5 quartz carb. veining with 10% pyrite-chalcopryrite diss. and stringers	B0977		120	121	1			0.003	
		129.5 - shrd. chl., carb. qtz veining	B0978		121	124	3			0.003	
		pyrrhotite, arsenopyrite, black tourmaline(?), chalcopryrite	B0979		124	126	2			0.003	
		129.5-131.5 sheared, 2-3 mm wide layers at 65°, zone is very dark with alternating black layers (tourmaline? or chl.) and carb., some layers 2-3 mm wide of pyrite, diss. pyrite	B0980		126	128	2			0.004	
		131.5-133 Quartz-carb., black tourmaline (?) veining	B0981		128	129.5	1.5			0.160	
			B0982		129.5	131.5	2			0.011	
			B0983		131.5	133	1.5			0.003	
			B0984		133	134	1			0.005	
133	146.5	Quartz Porphyry as before 80-113									
		141.5-142.7 shrd., grey, 60° to core, quartz-carb.-sericite-chl. in 2-3 mm thick layers,									
146.5	156	Shear Zone	B0985		145.5	146.5	1			0.003	
		shrd., 75-80° to core, grey yellow-green, fn. grain, chl., carb., sericite, minor diss. pyrite-pyrrhotite	B0986		146.5	147.75	1.25			0.009	
		146.5-150 quartz veining	B0987		147.75	149	1.25			0.015	
		147.75-149 stringers plus diss. pyrite and pyrrhotite	B0988		149	150	1			0.004	
		150-151.25 white, quartz-feld. porphyry 3-4 mm grey qtz. phenocrysts. feld. show yellow alt. sli. shrd. 45°	B0989		154	155	1			0.003	
		151.25-154 shrd. v. fn. grain, carb. veinlets and minor qtz. veining parallel to foliation	B0990		155	156	1			0.003	
		155-156 5% diss. pyrite-pyrrhotite	B0991		156	157	1			0.003	
156	163	Quartz Feldspar Porphyry mass. v. fn. grained, grey, minor diss. pyrite and pyrrhotite (<1%) quartz and feld. phenocrysts 2-3 mm diam.									
163	168	Shear Zone sheared, 90° to core, strong chl., carb. diss. pyrite 1-2%									

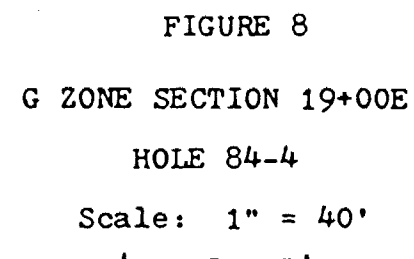
DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake

HOLE NO. 84-4

SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	oz. TON	oz. TON
					FROM	TO	TOTAL				
168	207.5	Feldspar Porphyry mass., grey, v.fn. grained Qtz. + feld. matrix -phenocrysts white feld. 2-4 mm 5-10% approx. 1-2% sulphides as stringers and diss. pyrrhotite, pyrite and occas. chalcopyrite	B0992		163	165	2			0.003	
			B0993		165	167	2			0.004	
			B0994		167	168	1			0.008	
207.5	229	Mafic Metavolcanic Flow (?) green, v.fn. grained, massive to brecciated between 207.5 and 224 in sections- frag. up to 3-4 cm with irregular rounded edges, - rock is intimate intergrowth of v. fn. grained chl., carb., sericite. In thin section shows relict diabasic (?) texture and small microscopic sweat-out Qtz. veinlets- scattered carb. veining, - stringers plus diss. pyrrhotite, pyrite, chalcopyrite 5%±	B0995		168	170	2			0.005	
			B0996		170	175	5			.002	
			B0997		175	180	5			.003	
			B0998		180	185	5			.003	
			B0999		185	190	5			.003	
			B1000		190	195	5			.002	
		224-227 no apparent brecciation, 2-5 mm stringers carb. + sulphides	C28347		195	200	5			.003	
			C28348		200	205	5			.002	
		227-229 mass. altered metavolcanic no sulphides	C28349		205	207.5	2.5			0.128	
229		End of Hole	C28350		207.5	210	2.5			0.020	
			C28351		210	214	4			0.008	
			C28352		214	218	4			0.012	
			C28353		218	220	2			0.006	
			C28354		220	224	4			0.004	
			C28355		224	227	3			0.005	
			C28356		227	228	1			0.007	



February 15:85

DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake
HOLE NO. 84-5 LENGTH 269 feet
LOCATION Claim SSM 2271
LATITUDE 0+70S DEPARTURE 20+40E
ELEVATION - AZIMUTH 180 DIP -45
STARTED Jan. 14 : 85 FINISHED Jan. 19 : 85

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 84-5 SHEET NO. 1

REMARKS _____

LOGGED BY S. WINTER

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ/TON	OZ/TON
0	23.5	Casing								Au	
23.5	31	Mafic metavolcanic flow dk. green, fn. grained, massive, occas. carb. stringers minor diss. py., all core badly broken									
31	40	Mafic Dike v. fn. grained, mass., grey-green, 10% white feld. in phenocrysts 1-3 mm diam. - all core badly broken									
40	44	Mafic metavolcanic flow (as above) 41.5-44 shrd., v. fn. grained, strong chl., carb. and qtz-carb. stringers at 45°-60° to core, some pink in colour at 44; approx. 1% pyrite									
44	62	Granodiorite massive, med. grained 3-4 mm, feld., quartz chl., equigranular, grey-blue colour, fine frac. containing hairline carb. veinlets 30°-60° to core., sericite alt. along frac., occas. grain diss. pyrite 44-44.5 highly silicified scattered quartz veinlets as noted below 52- 1 cm grey qtz vein at 60° 54- 1 cm grey qtz vein at 60° 56.5- 62 regular spacing of qtz veinlets 0.5 -2 cm wide 57.5- 6 cm vein of quartz, carb., chl. 60-62 closely spaced fine quartz-carb. stringers	37127		56	60	4			.002	
			37128		60	62	2			.012	
62	80	Mafic metavolcanic flow dk. green with pepper and salt appearance due to diss. carb. grains approx. 1 mm in diam. - rock is dominantly chl. + carb., appears massive (recrystallized?) - much fine carb. veining as stringers 2-3 mm wide at 60° to core									

DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake

HOLE NO. 84-5

SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ/TON	OZ TON
					FROM	TO	TOTAL			Au	
		62.3 - 2 cm qtz-carb. vein									
		64 - 15 cm grey qtz. vein									
		73-80 2-3 cm wide dikes (?) of v. fn. grained mafic material, dk. green, chl. cut by carb. stringers	37129		78	80	2			.006	
		77.5-80 badly broken core with limonite staining on frac. surfaces	37130		89	94	5			.003	
		79-80 qtz veining + carb. stringers 45° to core	37131		94	97	3			.003	
			37132		97	100	3			.013	
80	89	Lost core	37133		100	101	1			.010	
89	96	Quartz vein	37134		101	106	5			.003	
		Qtz-carb. vein with scattered patches dk. green chl., coarse grain (1cm) - white qtz. glassy, badly broken, frac. surfaces lim. stained, strong. lim. alt. of carb. and sulphides in qtz. vein - 93 to 94 sli. shrd. to frac. with diss. fn. grained pyrite and along frac. being alt. to lim.	37135		106	108.5	2.5			.027	
		94-96 strongly silicified, sericite alt., 2-3% very fine diss. pyrite - rock is grey, fine-grained, massive in appearance., qtz. veining parallel to 60° to core	37136		108.5	113.5	5			.002	
			37137		113.5	115	1.5			.002	
			37138		115	116	1			.004	
			37139		116	117	1			.006	
			37163		117	120	3			.002	
96	138	Mafic Metavolcanic flow (?) dk. green, fn. grained, strong chl., carb., fine carb. stringers 50° to core., shrd. to well foliated at 50°, silicified, 100-101 white to grey qtz-carb. veining 45° to core, 1% diss. pyrite in wall rock 102-117 as above but foliation less prominent; carb. stringers and occas. qtz veinlet up to 2 cm 30°-60° to core - occas. diss. pyrite with qtz veining 108-109 quartz veining 115.5- 15 cm grey qtz. vein + minor pyrite along frac. 117-120 v. fn. grained, dk. green, massive, may be fine grained mafic dike in places 120-138 fn. grained, chl., dk. green, sli. foliation 60° to core, occas. carb. stringers, occas.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake

HOLE NO. 84-5

SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	OZ./TON	OZ. TON	
					FROM	TO	TOTAL					
138	194	diss. pyrite (<1%)									AU	
		123-138 diss. carb. spots (1 mm) in chl. (recrystallized?)										
		125.5-126.5 shrd. strong chl. 60° qtz-carb. veining + diss. pyrite 65° to core										
		126.5-128 granodiorite dike med. grained, grey, massive, contacts 30° minor pink qtz. veining										
		128-138 fn. grained, strong chl., diss. 1 mm diam. carb. spots, occas. carb. stringers at 60°										
		132.5-134.5 2% diss. euhedral pyrite										
		Shear Zone or Sheared and Altered Tuff(?) or Sediment(?)										
		138-141 sheared to well foliated, strong chl., "augens" qtz-carb. in well foliated chl. rich lamination, silicified, foliation 60° to core., fn. grained, banded green-grey and white										
		141-147.5 strongly sheared, 45° to core, quartz carb veining; ribboned by sheared, dark grey, slaty looking rock and qtz-carb. stringers occas. diss. pyrite (1%)										
		143-146 pale yellow-green (sericite), carb. alt. along frac. in quartz stringers										
		147.5-157 sheared, strong. chl. alt. dark green, carb. veining parallel to foliation at 45° and perpendicular to foliation, 1-2 mm wide										
		157-158 quartz-carb. veining, strong chl. becoming black and slate-like at 158										
		45° to core, 5% diss. pyrite										
		158-161 v. fine grained pale grey-green rock, shrd. at 45°, qtz. veining parallel to foliation, altered felsite dike (?) carbonatized and sericitized										
		161-177 sheared, 45° to core, dk. grey to bluish grey, slate-like, ribboned in appearance by alternating sections of quartz-carb. veining and grey, fine grained, slate-										

LANGRIDDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Cline Lake

HOLE NO. 84-5

SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON Au	OZ TON
					FROM	TO	TOTAL				
194	244	like rock - stringers of massive fine grained pyrite up to 1-2 cm in quartz; disseminated, stringers and "augen-like" masses of coarse diss. pyrite, often euhedral up to 5 mm diam. in the slate-like rock, - coarse pyrite associated with carb. - approx. 5-8% pyrite in total; dk. grey colour due to tourmaline (?) 177-178.5 sheared, strong chl., dark green, fine grained, quartz-carb. veining, 1-2% diss. pyrite - 50° to core 178.5-179.5 strongly sheared, contorted, banded 2 mm bands grey-green rock and carb. veining, generally 60° to core; 50% carbonate 179.5-194 shrd. to well foliated, fn. grained, strong chl., dk. green to grey-green, carb. veining 60° to core, occas. diss. pyrite 192.5-194 carb. veining, up to 5% diss. pyrite, 60° to core Mafic Metavolcanic Flow fn. grained, dk. green, massive, chl., carb., occas. carb. stringer and occas. diss. pyrite, 221.5-244 strong chl., high carb. content; network v. fine carb. stringers parallel to 60° to core 225- 45 cm carb. + diss. pyrite 227-229 quartz veining + diss. pyrite + carb. stringers at irregular angles	37140	139	140	1			.003		
			37141	140	143	3			.003		
			37142	143	146.5	3.5			.003		
			37143	146.5	150	3.5			.002		
			37144	150	155	5			.025		
			37145	155	157	2			.003		
			37146	157	161	4			.003		
			37147	161	163	2			.004		
			37148	163	165	2			.011		
			37149	165	166	1			.003		
			37150	166	168	2			.004		
			37151	168	170	2			.002		
			37152	170	171.5	1.5			.045		
			37153	171.5	173	1.5			.217		
			37154	173	175	2			.097		
			37155	175	177	2			.014		
			37156	177	178.5	1.5			.012		
			37157	178.5	179.5	1			.003		
			37158	179.5	180	0.5			.003		
			244	269	Quartz Porphyry massive, light grey, v. fine grained matrix of quartz and feldspar 1% mafics, occas. diss. pyrite (<1%); grey, quartz phenocrysts, generally subhedral to anhedral up to 5 mm X 2 mm (10%)	37159	223.5	224.5	1		
			37160	224.5	227	2.5			.023		
			37161	227	229	2			.022		
269		End of Hole - hole designed for 300' but stopped at 269 due to drill breakdown	37162	229	230	1			.007		

LANGRIDGES - TORONTO - 366.1168

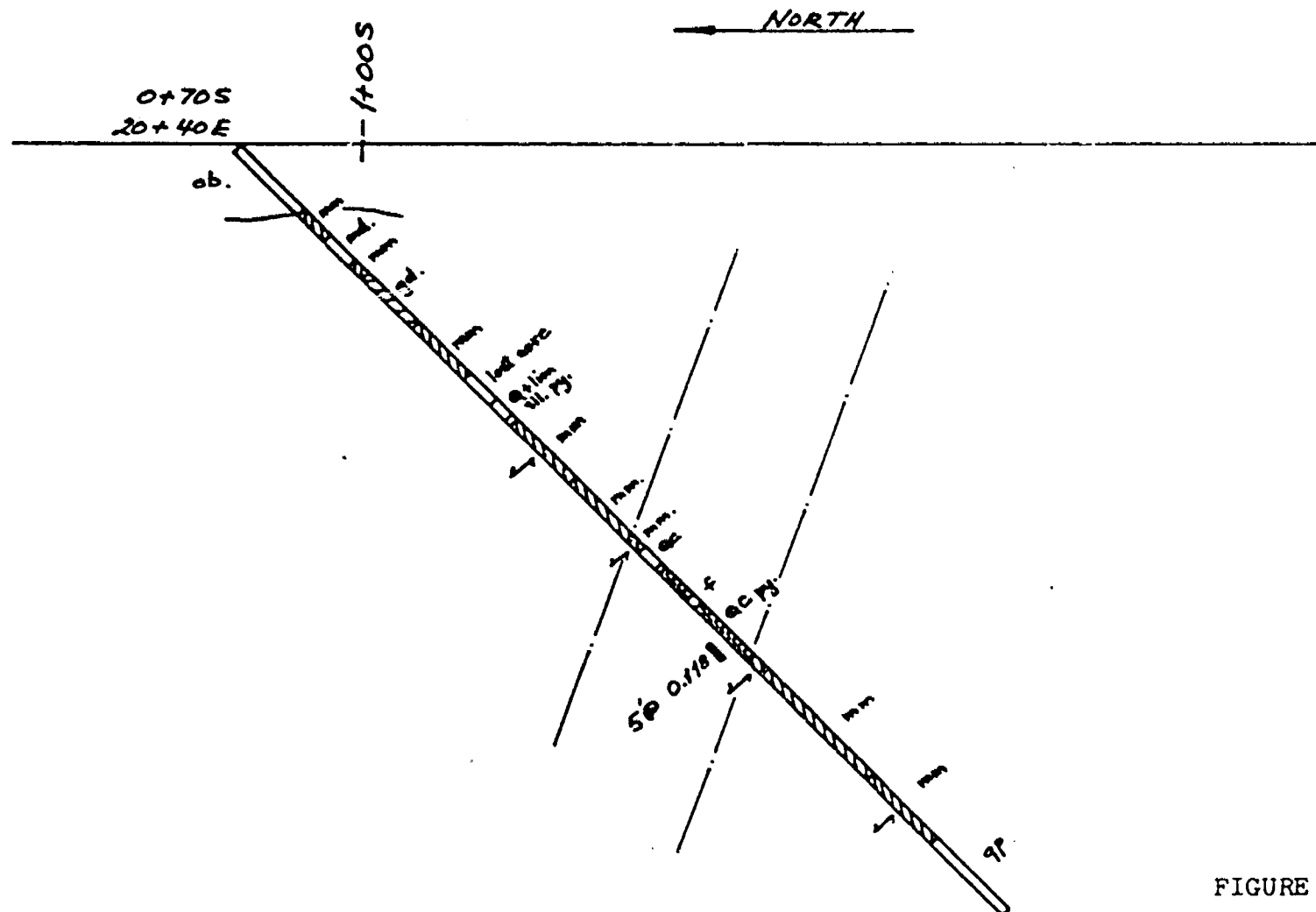


FIGURE 9
G ZONE SECTION 20+40E
HOLE 84-5
Scale: 1" = 40'

February 15:85

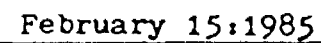


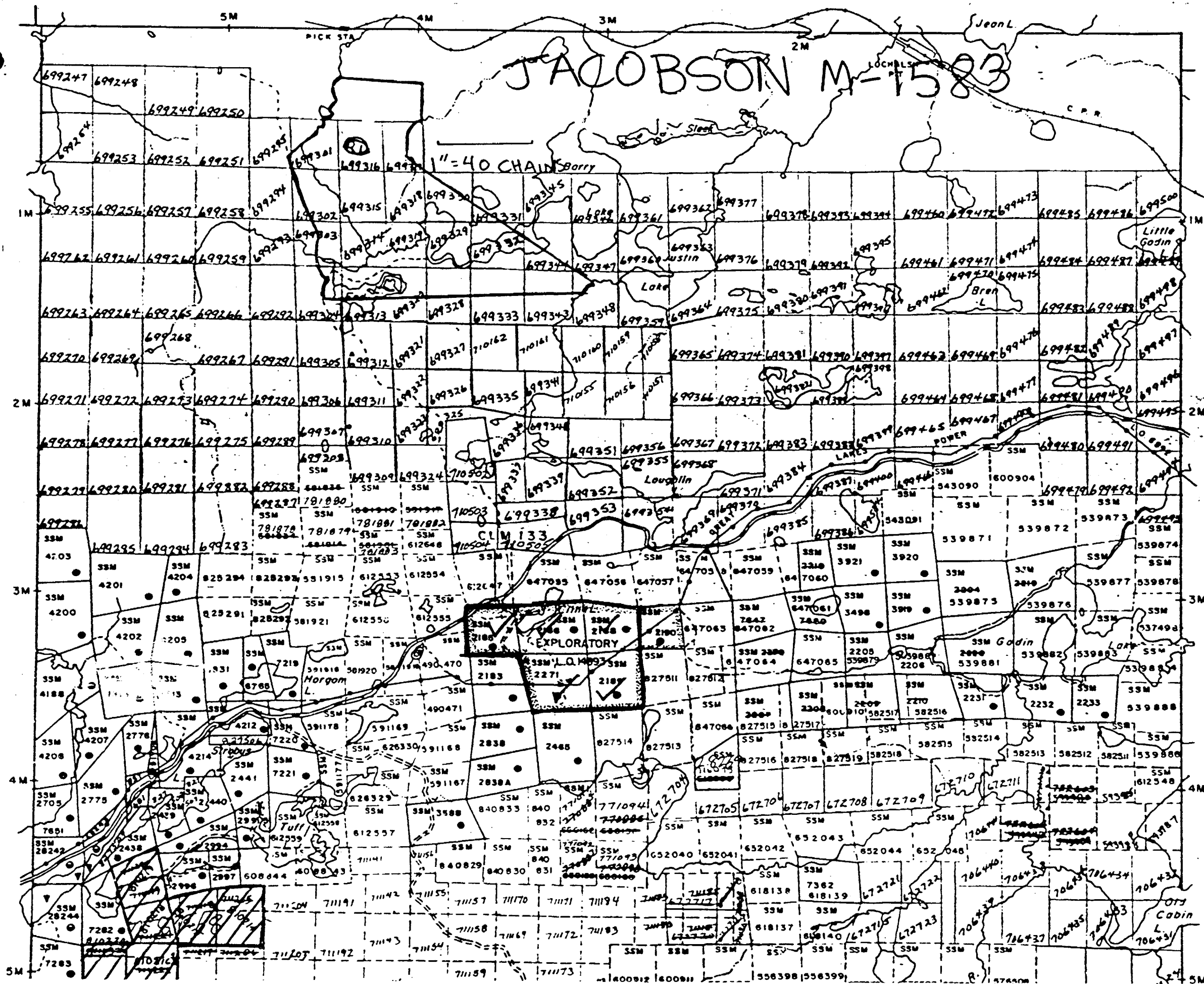
FIGURE 7

G ZONE - PLAN VIEW

HOLES 84-4 & 84-5

Scale: 1" = 40'

FINAN T.P. M. 1584



42C08SW0071 JACOBSON68 JACOBSON

CLINE DEVELOPMENT CORPORATION
EXPLORATORY LICENCE NO: 14893

DECEMBER 1, 1984 TO JANUARY 31, 1985
SURFACE DRILLING PROGRAM

Herbert Funk Diamond Drilling Ltd.		
Drilling		\$ 19,500.00
Winterborne Exploration Limited		
Core logging, reports etc.		2,526.32
Report preparation and maps re: proposed drilling program		1,741.45
L. J. Bardswich		
Drilling supervision		8,500.00
Drilling supervision(expenses)		3,890.84
G&A Logging		
Snowplowing road to drill site		300.00
Chemex Labs Ltd.		
Assaying	\$ 22.30	
"	183.75	
"	649.25	
"	453.25	
"	245.00	
"	820.75	
"	157.50	
"	222.50	
"	142.50	
"	<u>42.75</u>	<u>2,939.55</u>
Sub total		39,398.16
Overhead and administration (10%)		<u>3,939.82</u>
Total Expenditures		<u>\$ 43,337.98</u>

CLINE DEVELOPMENT CORPORATION

320.7

June 5, 1985

Mr. J. G. Sherman
 Ministry of Natural Resources
 Ontario Government Building
 199 Larch Street
 Sudbury, Ontario
 P3E 5P9

Topic	By	Date	Initials
Lands Clerk			
Lands Sec			
Mining Lands Admin	✓		
Mining Recorder			
App. Specialist			
Planning Co-Ord.			
Planning Officer			
Lands Clerk			
Lands Sec			
Districts			
File			

Ministry of Natural Resources
 RECEIVED

JUN 10 1985

Dear Mr. Sherman:

Further to your letter of May 27, 1985, we apologize for the delay in compiling the exploration expenses and results, but we were waiting for some final invoices from suppliers and contractors. We have enclosed a schedule of exploration expenses for the period ended January 31, 1985 and a report thereon.

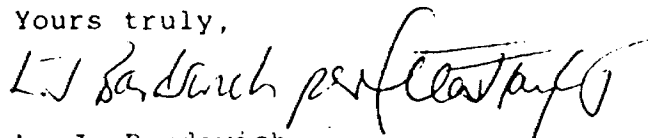
We certainly appreciate Mr. Klugman's willingness to allow for a lenient interpretation to this licence as the problems we encountered in obtaining our public financing made it difficult for us to meet the original commitment of the licence.

I personally have been involved in the exploration on the property since 1983 when ROK Engineering Construction was granted the licence, and to date approximately \$250,000 of qualifying exploration expenditures have been made on the property. It certainly has never been our intention to deliberately avoid our commitments, however, when our original underwriting of \$1,000,000 was reduced to \$125,000 (after underwriting expenses) it made things extremely difficult.

Myself and our geologist Mr. Winter still believe the property has good potential and would be dissappointed if Cline were to lose the property before it could be sufficiently explored. Our recent diamond drilling program has indicated that certain areas require further exploration and we are still endeavoring to arrange for a private placement of the company's shares to complete this work.

Should you have any questions do not hesitate to call .

Yours truly,



L. J. Bardswich
 President
 Cline Development Corporation

LJB/ab

CLINE DEVELOPMENT CORPORATION
EXPOLRATORY LICENCE NO: 14893

ANNUAL EXPLORATION EXPENDITURES
FOR THE PERIOD SEPTEMBER 1, 1984 TO JANUARY 31, 1985

December 1, 1984 to January 31, 1985

Surface drilling, mobilization,
logging core, map and report
preparation and associated costs \$ 43,337.98



Ministry of
Natural
Resources

LO 14893
Jacobson TP.

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

File: 3.20.7

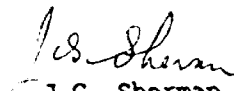
August 15th, 1985

MEMORANDUM TO: Assessment Files Research Office
77 Grenville Street
Toronto, Ontario
M5S 1B3

RE: Cline Development Corporation
Exploratory Licence #14893
Jacobson Township

Enclosed, in duplicate, is a diamond drill program with logs
and sketches on the Cline Lake property for the assessment files.

Please enter these reports into your files.


J.G. Sherman
Regional Mining Lands Administrator
Northeastern Region

JGS/kg

Encls.

PLEASE NOTE:

FOR FURTHER INFORMATION
CONCERNING LO 14893 REFER
TO JACOBSON - 0064.