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REPORT ON
DIAMOND DRILL PROGRAM ON LOTUS PROSPECT
ESSO RESOURCES CANADA LTD.

R.S. HALL

OCTOBER 20, 1980

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Illustrations

LOTUS PROSPECT

A. Summary and Recommendations

The Lotus prospect is a gold bearing quartz vein system located in northeastern Manitoba. The prospect was channel sampled in the spring of 1979.

The drilling indicates the presence of at least four gold bearing "shoots" along the 1200 ft. (365 metres) strike length of the vein system. These shoots are up to 150 feet (46m) long, appear to pitch steeply NE, and two have been tested to a depth of 130 feet, (40m). The average uncut grade of these shoots is approximately 0.60oz Au/Ton (approximately 0.20oz Au/Ton cut). The vein system is truncated to the northwest and southeast by major east-west striking shear zones severely limiting tonnage potential.

No further work is recommended at this time but the property should be retained until Esso Minerals Canada has finished working in the district. It may prove profitable to ship ore from the property if a mill were set up nearby. A small company might also be able to mine this property profitably as a small scale operation, thus it would be beneficial to deal the property out.

B INTRODUCTION

The Lotus prospect is located approximately 95 miles northeast of Winnipeg, Manitoba and 8 miles east of Manigotagan, Manitoba. The property was relocated by prospectors in the summer of 1978, and, after examination of the old trenches, the property was staked for Esso Minerals Canada (CB 8344).

A preliminary channel sampling and mapping program was conducted during the fall of 1978, and was followed up by a more extensive sampling program in June, 1979. The channel sampling results gave an average of 0.29oz Au/ton in three exposed zones over a projected strike length of 900 feet. These results were sufficiently encouraging to warrant drilling to test continuity of mineralization along strike and at depth.

A total of 22 holes have been drilled on this property for a total of 3850 feet.

C GEOLOGY

The diamond drilling in conjunction with detailed surface mapping indicates the shear zone and quartz vein system contains single shear zone up to 21.0 feet in width which contains a gold bearing quartz vein up to 6 feet in width. The shear zone is a highly carbonated chlorite schist which grades out into the relatively unsheared quartz-hornblende gneiss countryrock and dips 43-65° to the northeast. The shear zone also contains zones of silicification which are usually adjacent of the quartz vein. There is a minor amount of disseminated pyrite in the shear, along with trace chalcopyrite, pyrrhotite and magnetite.

The gold is found in association with tellurides along fine fractures in the milky white quartz vein. This vein has an average width of 1.5 feet (46cm) but widens to 6.0 feet (1.8m) in the Wow shoot, and the grade of mineralization generally appears to be directly related to the width of the quartz vein. The gold occurs as fine flakes and needles of visible gold in the telluride-bearing fractures. The telluride minerals themselves, however, have a very low gold content.

An examination of polished sections of the ore shows the gold occurs as discrete fine grains within both the quartz and the telluride minerals adjacent to the fracture, and the gold mineralization itself postdates in the quartz veining.

There are many other smaller vein systems in the immediate vicinity of the Lotus vein, but are at differing attitudes, and have generally a low gold content. Two narrow (1-3") quartz veins to the west of the Lotus were located during mapping, and both contain visible gold and tellurides (one assayed 0.59 oz across 2"). Tnis indicates that the Lotus vein is not a unique feature and further work will undoubtely reveal more vein systems in the same area.

A narrow (8") telluride-bearing quartz vein was intersected in LO-20 (0.02oz Au/Ton over 1.0 feet). This vein system occurs at the margin of a major east-west striking shear zone immediately north of the Lotus vein. This lineament has a strike length in excess of 4000 feet and will be extensively prospected in the next field season.

D DRILL RESULTS

The drilling program has indicated the presence of four shoots of gold mineralization which occur at warps in the shear zone. These zones have been labeled the Southeast zone, the Wow shoot; the Main shoot; and the northwest zone. (Figure 1 & Table 1).

The southeast zone does not outcrop and occurs immediately north of the southerly east-west shear zone. It was intersected in hole LO-21 and contained abundant fine visible gold (3.5loz Au/Ton across 2.5 feet). The length of the zone is unknown but limited to less than 200 feet.

The Wow zone has a length of at least 60 feet and has been tested of a depth of 120 feet, with an uncut average grade of 0.50oz Au/Ton.

The MAIN zone has a length of 80 feet and has been tested to a depth of 90 feet. This zone has an average uncut grade of 0.64oz Au/Ton.

The northwest zone has a length in excess of 70 feet with an average grade of about 0.27oz Au/Ton, and is cut-off to the north by the east-west striking shear zone. There is a minor amount of molybdenite adjacent to the mineralized vein system.

All the shoots appear to be subparallel, plunging to the north-east at 65° in the plane of the vein.

The zone between the Wow and MAIN zones also contains gold mineralization, but has an average grade of only 0.08oz Au along a 180 foot length (uncut).

E TONNAGE AND GRADE

There is always a problem sampling and analyzing material containing discrete grains of visible gold, due to the fact that one or two 1X1mm flakes of gold on a 1 foot section of drill core will make the difference between ore and non-ore. If the gold does not become uniformly distributed when the sample is pulverized, assaying problems result. Because of this, certain core samples known to contain a small amount of visible gold have had extremely low assays. The other half of the split core has been reassayed for selected samples, and there is a significant difference in values for some of the samples. This improves the overall grade of the vein somewhat but the prospect still remains subeconomic.

There are many possible ways to calculate the grade of a gold-vein system, the variability due to the erratic nature of gold mineralization. In many mining camps, assay results in drill holes are "cut" to some lower value, due to the fact they have found the gold recovered is somewhat less than indicated by the actual drill results.

Similarly, when calculating tonnage and grade of a gold deposit, it is dangerous to extrapolate over any great distance between adjacent holes.

The tonnage and grades quoted are all based on uncut assay results except LO-21 which has been cut to 1.0 oz since it was a highgrade intersection without any adjacent drill information.

TONNAGE AND GRADE CALCULATIONS

CASE 1 Ore Shoots (Southeast Wow, Main and Northwest) 18,900 tons
@ 0.602 oz Au/Ton

CASE 2 South Zone (0.+30NW to 1+60SE: Main Shoot to south shear zone)
Weighted Calculation (to depth of 220')
53,000 tons @ 0.224 oz Au/Ton

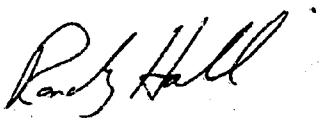
CASE 3 South Zone and NW Zone (0+30NW to 1+60SE plus 1+20NW to 2+10NW)
Weighted Calculation (to depth of 220')
71,500 tons @ 0.190 oz Au/Ton.

CONCLUSIONS

The drill results indicates an inferred tonnage of 71,500 tons of ore averaging 0.19 oz Au/Ton over a total strike length of 930 feet. The shoots alone average 0.60 oz Au/Ton for a total of 18,900 tons.

The final two holes drilled in 1979 have outlined the limits of the vein system with the shear zones on both boundaries.

Respectfully submitted,



Randy Hall
October 20, 1980

FIGURE 1

DIAMOND DRILL PLAN

LOTUS VEIN SYSTEM

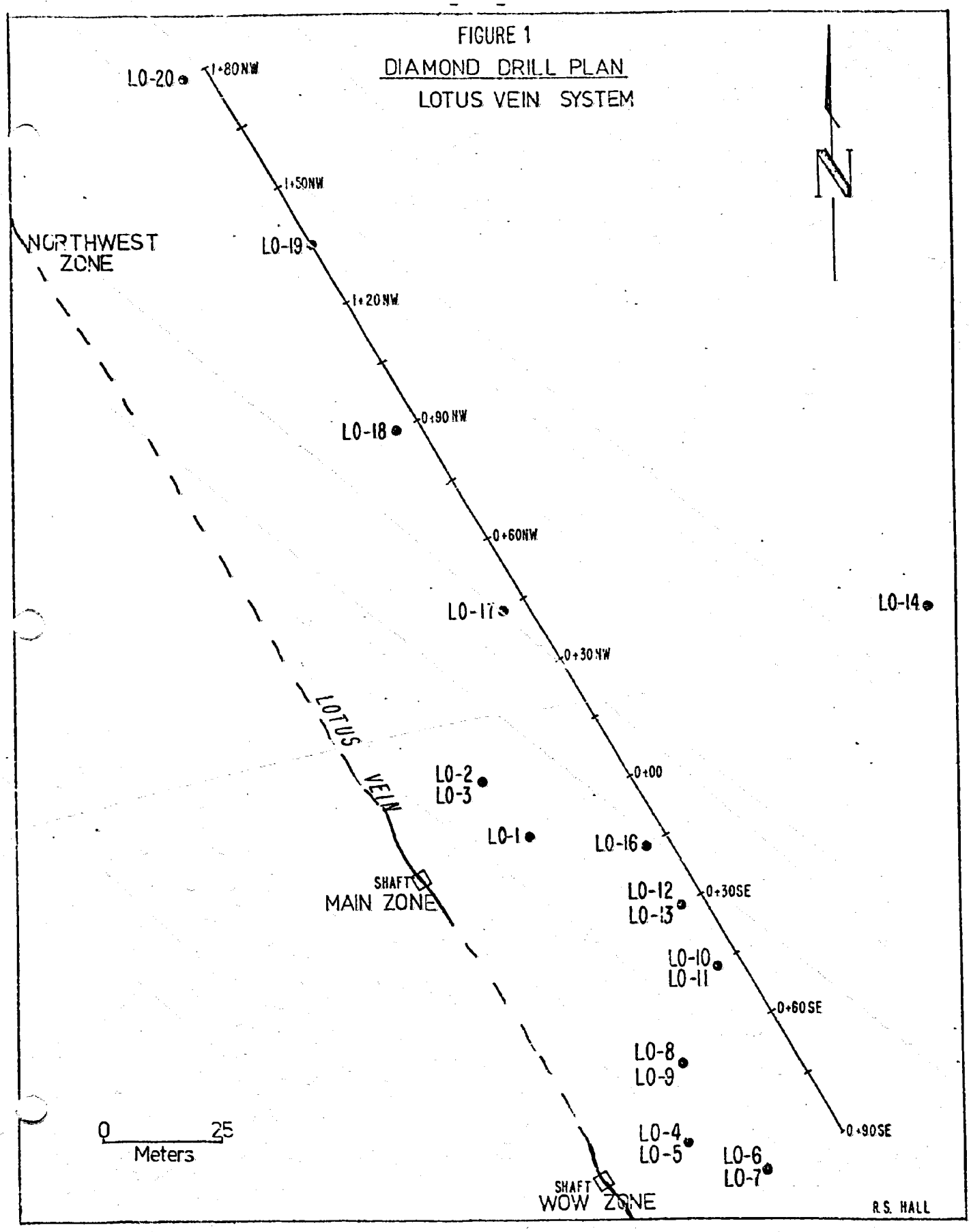


TABLE 1

	Diamond Drill Results Original Sample		Resample		Average across 1.52m(5.0ft) Uncut		Averag (UNCUT
	Assay (ozAu/T)	Width (ft)	Assay (ozAu/T)	Width (ft)	Original	Resample	
LO-1	7.51	1.0	-	-	1.52	-	1.52
LO-2	0.46	2.0	1.15	1.5	0.19	0.35	0.27
LO-3	0.11	0.8	0.005	1.5	0.03	0.001	0.02
LO-4	5.25	1.1	-	-	1.24	-	1.24
LO-5	0.29	1.1	0.37	2.8	0.07	0.21	0.14
LO-6	0.24	1.0	-	-	0.08	-	0.08
LO-7	0.01	1.0	0.015	2.0	.002	0.003	0.003
LO-8	0.26	2.0	-	-	0.11	-	0.11
LO-9	1.36	1.0	-	-	0.27	-	0.27
LO-10	0.45	0.7	0.31	1.7	0.07	0.11	0.09
LO-11	0.89	1.0	-	-	0.20	-	0.20
LO-12	0.36	1.1	0.27	2.1	0.08	0.11	0.095
LO-13	0.005	1.3	0.005	1.3	0.001	0.001	0.001
LO-14	0.26	0.7	0.32	0.7	0.04	0.05	0.045
LO-15	0.005	0.5	-	-	0.001	-	0.001
LO-16	0.41	0.8	-	-	0.07	-	0.07
LO-17	0.01	1.0	-	-	0.002	-	0.002
LO-18	0.002	1.0	0.002	1.2	0.001	0.001	0.001
LO-19	0.29	1.1	0.24	1.1	0.06	0.05	0.055
LO-20	0.04	0.9	0.19	1.9	0.02	0.07	0.045
LO-21	3.51	2.5	-	-	1.76	-	1.76

G Cost breakdown

Lotus drill program

Line cutting	$ 2200.00
Geology	450.00
Transpartation	700.00
Diamond Drilling (and assaying)	82,775.00
Supervision	8,000.00
	$94,125.00

Timetable

Linecutting July 4-5 September 5-10, 1979
Diamond drilling August 15 - September 30, 1979
October 29 - November 6, 1979

H Report written and worked supervised by

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HBSc (Geology) Lakehead University 1978
Project Geologist, Esso Minerals Canada March 1979

APPENDIX I

ESSO MINERALS CANADA - DIAMOND DRILL HOLE LOG

PROPERTY ... Lotus ..... LOCATION .....

NTS CODE ... 62P-1 ..... HOLE NO. ... Lo-1 .....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP ... -45° ..... STARTED .....

ELEVATION ..... CORE ... AQ ..... COMPLETED .....

SECTION ..... LOGGED BY . R. Hall ..

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		39.01		-50°					

HOLE NO. 40-1
PAGE 1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au(oz/t)	Ag(oz/t)			AVERAGES
0.0	1.22	CASING									
1.22	5.52	Qtz - hornblende - Kspar gneiss minor qtz. stringers - 3mm sugary qtz. -trace cpy in fine qtz. veins. - gneissosity at 23° to c/a									
5.52	6.43	Qtz - hornblende - biotite - Kspar gneiss - finely diss. pyrrhotite - qtz. conc. along gneissosity, not veiny - minor shearing									
6.43	6.46	Sugary qtz vein and minor shearing in gneiss - fine vein of calcopyrite and pyrrhotite along fracture.	3585	5.94	6.25	0.31	nil				
6.46	7.01	Qtz. - hornblende gneiss, numerous fine qtz. veinlets - highly fractured & qtz along fractures - finely dissem. pyrrhotite throughout - veins ~ 38° to core axis	3586 3587	6.46 6.77	6.77 7.01	0.31 0.24	.002 nil				
7.01	7.68	- Qtz. vein - white zoned qtz. - Alternate white and smokey cherty qtz. - Abundant platey pyrite along fractures - minor tellurides - vein @ 15° to c/a - fracture in vein ∥ to c/a	3588 3589	7.01 7.32	7.32 7.68	0.31 0.36	nil nil	.01			
7.68	8.84	- Gneiss - hornblende - qtz gneiss - fine grained, sheared? - fine qtz grains - dissem. pyrrhotite throughout	3590 3591 3592	7.68 7.99 8.29	7.99 8.29 8.60	0.31 0.30 0.31	nil nil nil				
8.84	10.30	Qtz - feldspar hornblende gneiss - good gneissosity of hornblende and feldspar - layering - few narrow fractures of fine sugary qtz + trace pyrite - gneissosity @ 19° to c/a									

RG 1657-75

HOLE NO. 40-1
PAGE 1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/t)	Ag (oz/t)			AVERAGES
0.0	1.22	CASING									
1.22	5.52	Qtz - hornblende - K-spar gneiss minor qtz. stringers - 3mm sugary qtz. - trace cpy in fine qtz. veins. - gneissosity at 23° cc c/a									
5.52	6.43	Qtz - hornblende - biotite - K-spar gneiss - finely diss. pyrrhotite - qtz. conc. along gneissosity, not veiny - minor shearing									
6.43	6.46	Sugary qtz vein and minor shearing in gneiss - fine vein of calcopyrite and pyrrhotite along fracture.	3585	5.94	6.25	0.31	nil				
6.46	7.01	Qtz. - hornblende gneiss, numerous fine qtz. veinlets - highly fractured & qtz along fractures - finely dissem. pyrrhotite throughout - veins ~ 35° to core axis	3586 3587	6.46 6.77	6.77 7.01	0.31 0.24	.002 nil				
7.01	7.68	- Qtz. vein - white zoned qtz. - Alternate white and smokey cherty qtz. - Abundant platey pyrite along fractures - minor tellurides - vein @ 15° to c/a - fracture in vein ll to c/a	3588 3589	7.01 7.32	7.32 7.68	0.31 0.36	nil nil	.01			
7.68	8.94	- Gneiss - hornblende - qtz gneiss - fine grained, sheared? - fine qtz grains - dissem. pyrrhotite throughout	3590 3591 3592	7.68 7.99 8.29	7.99 8.29 8.60	0.31 0.30 0.31	nil nil nil				
8.84	10.30	Qtz - feldspar hornblende gneiss - good gneissosity of hornblende and feldspar. - layering - few narrow fractures of fine sugary qtz + trace pyrite - gneissosity @ 19° to c/a									

RG 1657-75

HOLE NO. LO-1
PAGE 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/t)				AVERAGES
10.30	10.36	Qtz feldspar - hornablende gneiss, abundant qtz -not true veining -trace pyrrhotite									
10.36	13.66	Qtz feldspar - hornblende gneiss -med. grained -very minor sugary qtz veining ~ 12° to c/a									
13.66	14.84	Qtz hornblende feldspar gneiss - sheared feldspars appear to be stretched and oriented to ~ 30° to c/a - very f gr. hornblende mtx. - numerous sugary qtz veinlets 2mm - 4mm wide at various angles to c/a - "bleached" appearance to feldspars (saussaritized) - poor developed gneissosity.									
14.84	17.53	Hornblende qtz feldspar gneiss - lesser amt of feldspar and more qtz. - minor sugary qtz veining (1mm - 3mm) - gneissosity 27° to c/a - trace pyrrhotite in fractures									
17.53	17.98	Sheared matic gneiss - fine grained highly foliated and abundant fine qtz. stringers + blebs - very minor pyrite along fractures - foliated @ 69° to c/a	3593	17.53	17.83	0.30	nil				
17.98	18.18	-Qtz vein and series of qtz. stringers in foliated gneiss - erratic qtz. lenses and veins -trace pyrite -trace telluride in qtz.	3594	17.83	18.14	0.31	.005				
18.14	18.35	-Sheared gneiss - numerous qtz stringers and lenses - Foliated @ 73° to c/a -trace pyrite	3595	18.14	18.35	0.21	nil				

RG 1057-75

HOLE NO. 80-1
PAGE 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES (1.5m)
18.35	20.94	Hornblende qtz. feldspar gneiss - mafic gneiss - poor developed gneissosity - minor qtz veining and trace pyrite - foliated at ~320 to c/a									
20.94	21.52	- Sheared mafic gneiss - numerous lenses and stringers of sugary qtz. throughout - trace pyrite and K spar @ 60-80° to c/a	3596	20.94	21.24	0.30	nil				
			3597	21.24	21.52	0.28	nil				
21.52	21.67	Highly sheared matic gneiss - Feldspars saussaritized and abundant qtz - minor hematitic staining and trace pyrite @ 62° to c/a	3598	21.52	21.67	0.15	.002				
21.67	21.95	Sheared matic gneiss - Abundant fine sugary qtz veins and lenses - trace pyrite	3599	21.67	21.95	0.28	.002				
21.95	22.19	Quartz - fine grained mottled qtz. with abundant vein gold and telluride in clots throughout	3600	21.95	22.25	0.30	7.51	0.22			1.52
22.19	22.62	Qtz. - fine grained white, fairly dissem. tellurides	3601	22.25	22.56	0.31	0.03	0.02			
22.62	22.68	Sheared gneiss, highly foliated of abundant qtz. lenses and veinlets @ 58° to c/a - abundant platey pyrite along fractures.	3602	22.56	22.77	0.21	0.04	0.02			
22.68	22.92	Qtz. K spar vein. - Zoned vein K spar - qtz. - K spar. with minor tellurides and trace pyrite - K spar zone @ 73° to c/a (II to contact of wallrock)	3603	22.77	22.92	0.15	0.04	0.01			
22.92	23.20	Sheared matic gneiss - sheared zone - olive green discolouration - abundant fine sugary qtz stringers throughout with trace pyrite @ 80° to c/a	3604	22.92	23.20	0.28	nil				

RG 1657-75

HOLE NO. LO-1
PAGE 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
23.20	23.77	Sheared mafic gneiss - foliated with numerous fine qtz. stringers and lenses @ 60-75° to c/a - trace pyrrhotite	3605 3606	23.20 23.47	23.47 23.77	0.27 0.30	nil .005				
23.77	24.48	Qtz hornblende gneiss - minor gneissosity @ 20° to c/a									
24.48	24.66	Sheared gneiss - qtz feldspar hornblende - 7mm wide sugary qtz vein with hematite staining and trace pyrite @ 45° to c/a	3607	24.48	24.66	0.18	nil				
24.66	26.55	Qtz hornblende gneiss with minor qtz. lenses - glassy white qtz - erratic orientation.									
26.55	29.54	Qtz - feldspar - hornblende - gneiss - minor hematite staining of feldspars - minor fracturing - narrow qtz stringers and minor hematitic staining of wallrock - gneissosity @ 30° to c/a									
29.54	30.11	Fractured gneiss, minor Fe staining - qtz feldspar hornblende gneiss - carbonate vein @ 30° to c/a									
30.11	30.51	Qtz. hornblende gneiss									
30.51	30.69	Sheared gneiss - chlorite qtz. rich zone in gneiss - trace pyrite along fracture surface - shear @ 50° to c/a	3608	30.51	30.69	0.18	nil				
30.69	30.91	Qtz feldspar hornblende gneiss									

RS 1857-75

HOLE NO. LO-1
PAGE 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au				AVERAGES
30.91	31.12	Sheared gneiss - qtz. hornblende with numerous narrow qtz. - carbonate veins and minor dissem. pyrite - vein @ 65° to c/a	9609	30.91	31.12	0.21	nil				
31.12	39.01	Qtz hornblende gneiss - minor fracturing and fine qtz. veining - minor Fe staining along a few fractures - gneissosity @ 20° to c/a.									
		END OF HOLE									

RG 1857-75

ESSO MINERALS CANADA - DIAMOND DRILL HOLE LOG

PROPERTY ....Lotus..... LOCATION .....

NTS CODE ....62P-1..... HOLE NO. ....LO-2.....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP .....-50°..... STARTED .....

ELEVATION ..... CORE .....AQ..... COMPLETED .....

SECTION ..... LOGGED BY .R. Hall...

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		29.87		-53°					

HOLE NO. Lo-2
PAGE 1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
0.00	1.22	Casing									
1.22	3.47	Qtz hornblende gneiss - ∠ gneissosity @ 33° to c/a - variable grain size - fine to medium - trace pyrite and pyrrhotite									
3.47	3.63	Qtz - feldspar - hornblende gneiss - fracture zone - minor sericite and Fe staining	3610	3.47	3.63	0.16	nil				
3.63	5.30	Qtz - hornblende gneiss - ∠ gneissosity @ 35° to c/a									
5.30	5.49	Qtz - hornblende gneiss - minor shearing of narrow quartz veining @ 35° to c/a									
5.49	5.85	Qtz - hornblende gneiss									
5.85	7.74	Qtz hornblende gneiss with narrow fractures parallel to drill axis - qtz vein ~ 5mm with minor pyrite and trace chalcopyrite	3611 3612	6.10 6.40	6.40 6.71	0.30 0.31	nil nil				
7.74	8.14	Qtz feldspar hornblende gneiss with shearing - minor disseminated pyrite and trace chalcopyrite and qtz veining	3613	7.74	8.08	0.34	nil				
8.14	10.70	Qtz-hornblende gneiss - minor qtz veining throughout - fractures @ 45° to c/a									
10.70	11.06	Qtz - feldspar - hornblende - numerous fractures throughout - minor Fe staining along fractures	3614	10.70	11.06	0.36	nil				
11.06	11.61	Qtz - hornblende gneiss									
11.61	11.80	Qtz - feldspar - hornblende gneiss									
11.80	12.01	Qtz - hornblende gneiss									
12.01	12.22	fracture in qtz - hornblende gneiss - chlorite - pyrite - chalcopyrite fracture @ 10° to c/a	3615	12.01	12.22	0.21	.002				
12.22	12.59	Qtz - feldspar - hornblende gneiss with minor fracturing and Fe staining along fractures									

HOLE NO. La:2
PAGE 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
12.59	14.32	hornblende gneiss - fine grained slate - hornblende possibly sheared and metamorphosed mafic gneiss with qtz stringers	3616	12.80	13.11	0.31	nil				
14.32	15.73	Qtz hornblende gneiss -poorly developed gneissosity									
15.73	16.73	sheared fine grained qtz-hornblende gneiss -chlorite with numerous fine qtz stringers -trace pyrite									
16.73	16.98	highly sheared qtz-hornblende gneiss -numerous qtz veinlets -abundant pyrite in veins -veins at 78° to c/a	3617	16.73	16.98	0.25	.002				
16.98	17.22	-shear zone -highly brecciated -chlorite, amphibole, qtz -highly silicified zone with qtz veins 5.08cm wide with disseminated pyrite and trace chalcopyrite -foliated at 79° to c/a.	3618	16.98	17.22	0.24	.002				
17.22	18.56	-sheared qtz-hornblende gneiss -numerous fine qtz stringers -trace pyrite, chalcopyrite	3619 3620 3621	17.22 18.10 18.41	17.53 18.41 18.56	0.31 0.31 0.14	nil .005 .002				
18.56	18.99	Qtz with abundant disseminated amphibole -fine qtz stringers -qtz has Fe staining	3622	1856	1899	0.43	nil				

HOLE NO. LG-2
PAGE 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au oz/ton	AVERAGES
18.99	21.37	Sheared qtz-hornblende gneiss -numerous fine qtz stringers thru disseminated pyrite and chalcopyrite	3623	19.66	19.96	0.30	nil	
			3624	19.96	20.27	0.31	nil	
			3625	20.27	20.57	0.30	nil	
			3626	20.57	20.88	0.31	nil	
			3627	20.88	21.18	0.30	nil	
			3628	21.18	21.37	0.19	nil	
21.37	21.46	-Highly sheared zone -qtz-hornblende-sericite -qtz has Fe staining	3629	21.37	21.46	0.09	.02	
21.46	22.37	White glassy qtz -fine tellurides along fractures -trace V.G. -minor sericite along fractures -22.28 → 22.34 -Heavy concentration of tellurides along fractures and V.G. throughout -fractures at 58° to c/a	3630	21.46	21.76	0.30	.02	0.19
			3631	21.76	22.07	0.31	.24	
			3632	22.07	22.37	0.30	.68	
22.37	22.71	Sheared hornblende-quartz gneiss -numerous fine qtz stringers	3633	22.37	22.71	0.34	.002	
22.71	23.26	Qtz vein and highly silicified wallrock -abundant pyrite on fractured surfaces throughout -qtz veins up to 12.7 cm wide, erratic -minor chalcopyrite -veining at 63° to c/a	3634	22.71	23.01	0.30	nil	
			3635	23.01	23.26	0.25	nil	
23.26	24.66	Highly sheared qtz-hornblende gneiss -fine qtz veinlets throughout -minor disseminated pyrite	3636	23.26	23.56	0.30	.005	
			3637	23.56	23.87	0.31	nil	
			3638	23.87	24.17	0.30	nil	
			3639	24.17	24.66	0.49	nil	

HOLE NO. 4a:2
PAGE 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au				AVERAGES
24.66	25.70	Qtz-hornblende gneiss -minor qtz veining									
25.70	26.55	Sheared hornblende gneiss -minor qtz veining throughout with minor pyrite	3640 3641 3642	25.70 26.00 26.30	26.00 26.30 26.55	0.30 0.30 0.25	nil nil nil				
26.55	29.87	Qtz-feldspar-hornblende gneiss									
		End of Hole									

ESSO MINERALS CANADA - DIAMOND DRILL HOLE LOG

PROPERTY ..... Lotus ..... LOCATION .....

NTS CODE ..... 62P-1 ..... HOLE NO. .... LO-3 .....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP ..... -65° ..... STARTED .....

ELEVATION ..... CORE ..... AQ ..... COMPLETED .....

SECTION ..... LOGGED BY .. ..

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		36.68		70°					

HOLE NO. LO-3
PAGE 1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au				AVERAGES
0.00	0.91	Casing									
0.91	11.86	Qtz - hornblende gneiss - gneissosity @ 41° to c/a - minor fracturing throughout and Fe staining adjacent to fractures - few fractures ⊥ to c/a									
11.86	11.98	Qtz. - feldspar hornblende gneiss - Iron staining of feldspar and minor fracturing @ 38° to c/a									
11.98	12.95	Qtz. hornblende gneiss									
12.95	13.11	Sheared qtz. - hornblende gneiss - more qtz veining @ 42° to c/a - minor pyrite and trace chalcopyrite									
13.11	18.62	Qtz. hornblende gneiss - Gneissosity @ 38° to c/a - Minor fracturing throughout with minor zones of iron stain adjacent to fractures - minor qtz. and qtz. carbonates in fractures									
18.62	19.11	Sheared qtz. hornblende feldspar gneiss - Fe staining of feldspars. Minor qtz. carbonate veining at 21° c/a. - trace pyrite.	3644 3645	18.62 18.81	18.81 19.11	0.19 0.30	nil nil				
19.11	19.42	Sheared qtz. hornblende gneiss - minor qtz veining at 65° to c/a	3646	19.11	19.42	0.31	nil				

RG 1657-75

HOLE NO. 40-3
PAGE 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/t)				AVERAGES
19.42	19.60	Qtz pyrite vein, sheared gneiss, - erratic veining; abundant dissem. pyrite at 47° to c/a	3647	19.42	19.60	0.18	.03				
19.60	20.51	Sheared qtz. hornblende gneiss Q 50° to c/a - numerous qtz. lenses and stringers throughout. - finely dissem. pyrite	3648 3649 3650	19.60 19.90 20.21	19.90 20.21 20.51	0.30 0.31 0.30	nil nil nil				
20.51	20.70	Calcite qtz vein in sheared qtz hornblende gneiss - trace pyrite.	3651	20.51	20.70	0.19	nil				
20.70	20.88	Sheared qtz hornblende gneiss at 61° to c/a	3652	20.70	20.88	0.18	nil				
20.88	21.37	Qtz vein - mottled appearance w/ abundant dissem. hornblende - minor pyrite along fractures - vein 45° to c/a - minor iron staining	3653 3654	20.88 21.12	21.12 21.37	0.24 0.25	nil nil				
21.37	21.67	Sheared qtz hornblende gneiss - minor qtz. lenses with trace pyrite.	3655	21.37	21.67	0.30	nil				
21.67	21.85	Sheared qtz hornblende gneiss in 15 cm white qtz vein. trace pyrite	3656	21.67	21.85	0.18	nil				
21.85	22.37	White qtz vein, minor sheared qtz. hornblende gneiss. Main vein .35 m wide - minor pyrite along fractures - tellurites? - minor disseminated chalcopyrite	3657 3658	21.85 22.16	22.16 22.37	0.31 0.21	nil nil				

RG 1857-75

HOLE NO. 40-3
PAGE 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/t)				AVERAGES
22.37	23.41	Sheared qtz. hornblende gneiss - numerous qtz. veinlets and lenses - fine pyrite in quartz - shearing 64° to c/a	3659	22.37	22.68	0.31	nil				
			3660	22.68	22.98	0.30	.002				
			3661	22.98	23.41	0.43	.002				
23.41	24.57	Qtz vein - white milky qtz. w/ numerous fractures - fine veneer of pyrite along fractures - vein gold and tellurides along fractures at 78.2' (23.84 m) minor tellurides elsewhere - tellurides fracture at 52° to c/a. - trace pyr at contact.	3662	23.41	23.71	0.30	nil				0.03
			3663	23.71	24.02	0.31	nil				
			3664	24.02	24.32	0.30	.04				
			3665	24.32	24.57	0.25	.11				
24.57	24.81	Qtz. - grey, black, clerty - iron staining present - minor pyrite dissem. along fractures.	3666	24.57	24.81	0.24	.03				
24.81	25.27	Qtz - sugary, iron stained - minor and trace pyrite. - white qtz veinlets at 52° to c/a	3667	24.81	25.12	0.31	.002				
			3668	25.12	25.27	0.15	.002				
25.27	26.82	Gneiss - folicted and sheared - minor qtz throughout, minor carbonate throughout - minor dissociated pyrite throughout - veining and foliating @ 59° to c/a	3669	25.27	25.57	0.30	.002				
			3670	25.57	25.88	0.29	nil				
			3671	25.88	26.18	0.30	.002				
			3672	26.18	26.82	0.64	nil				
26.82	27.58	Qtz. hornblende gneiss.									
27.58	27.74	Qtz Kspar vein cut by qtz veining - regular attitude.	3673	27.58	27.74	0.16	nil				
27.74	29.11	Qtz. hornblende gneiss.									

RG 1657-75

HOLE NO. LO-3
PAGE 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
29.11	29.16	Qtz veinlet 5 mm wide @ 25° to c/a -trace pyrite.									
29.16	35.05	Qtz hornblende gneiss - qtz vein @ 50° to c/a - 10 mm dislocation along qtz vein fracture									
35.05	36.58	Qtz hornblende gneiss, minor fracturing throughout w/ chlorite and qtz. stringers.									
		END OF HOLE.									

RG 1657-75

ESSO MINERALS CANADA - DIAMOND DRILL HOLE LOG

PROPERTY .... Lotus ..... LOCATION .....

NTS CODE .... 62P-1 ..... HOLE NO. ..... Lo-4 .....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP ..... -45° ..... STARTED .....

ELEVATION ..... CORE ..... BQ ..... COMPLETED .....

SECTION ..... LOGGED BY . R. Hall ..

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		42.06		-52°					

HOLE NO. LO-[redacted]
PAGE 1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (ppb)				AVERAGES
0.00	2.44	Casing									
2.44	4.42	Qtz. hornblende gneiss, poorly developed gneissosity, abundant fractures throughout									
4.42	4.85	Qtz. vein, sugary @ 53° to c/a									
4.85	7.68	Qtz hornblende gneiss - numerous fractures with hornblende.									
7.68	7.71	Hornblende zone - trace pyrrhotite @ 24° to c/a.									
7.71	9.75	Qtz hornblende gneiss - gneissosity @ 12° to c/a									
9.75	10.30	Qtz hornblende gneiss w/ qtz hornblende veins - veins @ 30° to c/a									
10.30	10.94	Hornblende gneiss f. gr., hornblende w/ numerous calcite veinlets along fractures - very minor disseminated subhedral pyrite.	3691 3692	10.30 10.61	10.61 10.94	0.31 0.33	nil nil				
10.94	11.12	Qtz vein - glassy white qtz w/ clots and fractures full of amphibole veins @ 41° to c/a	3693	10.94	11.12	0.18	nil				
11.12	13.26	Qtz feldspar hornblende gneiss - good gneissosity, minor fracturing + fine qtz veinlets, gneissosity @ 29° to c/a									
13.26	13.72	Qtz. hornblende gneiss, clots of qtz along gneissosity - Minor qtz veining (1mm) w/ minor pyrrhotite and chalcopyrite. - Minor calcite @ 80° to c/a	3694	13.26	13.72	0.46	nil				

RG 1657-75

HOLE NO. L-0[redacted]
PAGE 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
13.72	17.98	QHG, numerous talcite veins (1-2 mm) throughout and minor qtz veining - abundant finely diss. po. and trace cpy. - gneissosity @ 35° to c/a - 16.34 shear zone - very narrow shear @ 53° to c/a - minor silicification and qtz. vein.	3695	14.94	15.24	0.30	.002				
			3696	15.24	15.54	0.30	nil				
			3697	15.54	16.15	0.61	.002				
			3698	16.15	16.50	0.35	nil				
17.98	18.23	QFHG w/ qtz along gneissosity - minor finely disseminated pyrite. - few calcite stringers along fractures									
18.23	19.51	QHG, fine gr. and poorly developed gneissosity, minor calcite veining (1-2 mm) throughout.									
19.51	19.63	QHG fractured, minor pyr and trace cpy in calcite. - Qtz. infilling of fractures - fractures @ 32-48° to c/a									
19.63	20.54	QHG w/ minor fine calcite veins at erratic angles to c/a - poorly developed foliations.									
20.54	20.88	QHG w/ minor shearing and a few erratic blue qtz veins and trace cpy - minor calcite veining.	3699	20.54	20.88	0.34	nil				
20.88	23.13	sheared QHG, f gr. and foliated 21.00 - qtz vein 10 mm wide, minor pyr. - finely diss pyr. in erratic qtz str. and lenses - trace cpy. - minor calcite throughout - foliate @ 70° to c/a	3700	20.88	21.18	0.30	.002				
			3701	21.18	21.49	0.31	nil				
			3702	21.49	21.79	0.30	nil				
			3703	21.79	22.04	0.25	.002				
			3704	22.04	22.34	0.30	.01				
			3705	22.34	22.65	0.31	.005				
			3676	22.65	22.95	0.30	.002				
			3677	22.95	23.13	0.18	.01				

RG 1687-75

HOLE NO. LO-4
PAGE 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES
23.13	23.44	sheared QHG with numerous fine qtz. lenses and stringers - minor vein gold in stringer @ 23.40	3678	23.13	23.44	0.31	.42	.06			
23.44	23.77	Qtz vein, mottled grey to milky qtz chlorite clots, abundant fine gr. vein gold and tellurides - abundant platy pyrite along fractures	3679	23.44	23.77	0.33	5.25	0.16			1.24
23.77	24.32	silicified and sheared QHG, highly silicified zones - abundant fine pyr. and numerous qtz stringers - trace tellurides	3680 3681	23.77 24.08	24.08 24.32	0.31 0.24	.005	tr			
24.32	24.57	silicified and Fe stained, minor fine Kspar. - numerous qtz stringers - fine pyr. and minor cpy.	3682	24.32	24.57	0.25	.01				
24.57	25.30	sheared QHG - very fine gr. with numerous calcite veinlets throughout. - minor fracturing, trace pyrite.	3704	24.57	24.87	0.30	.002				
25.30	26.36	HFG, minor qtz., abundant finely dissem. pyr. and minor pyrite along fractures.	3705	25.39	25.85		nil				
26.36	27.28	QFHG (granitic gneiss) - blue qtz. zones in gneiss - minor fracturing									
27.28	28.59	Quartz hornblende gneiss - poorly developed gneissosity - minor quartz veining w/ pyrite and chalcopyrite at 27.3 @ 90° to c/a - numerous calcite veins up to 8mm @ 59° to c/a - trace pyr. on calcite veins									

RG 1657-75

HOLE NO. LO- [redacted]
PAGE 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au(oz/ton)				AVERAGES
28.59	29.69	Sheared Quartz hornblende gneiss, fine grained, hornblende rich - disseminated subhedral pyrite and trace cpy. - fine white milky qtz. veins 10 mm wide w/ minor pyrite along contact @ 50° to c/a	3706 3707 3708	28.59 28.90 29.20	28.90 29.20 29.50	0.31 0.30 0.30	nil .002 nil				
29.69	30.94	Quartz hornblende gneiss - medium grained qtz. hornblende w/ numerous calcite veins and minor qtz. veining -trace pyrite -gneissosity @ 39° to c/a									
30.94	31.33	Qtz feldspar hornblende gneiss -minor fine fracturing									
31.33	32.61	Qtz feldspar hornblende gneiss -minor fracture and minor shearing @ 21° to c/a -finely dissem. pyr. and cpy along fractures -fine pyrite along fractures and trace cpy. -minor calcite and pyrite veining.									
32.61	32.98	Sheared hornblende qtz. feldspar gneiss -finer grained and elongated feldspar. -narrow calcite - pyrite - chalcopyrite vein (4mm) @ 32° to c/a	3709	32.61	32.92	0.31	nil				
32.98	33.83	Hornblende qtz. feldspar gneiss - minor pyrite and calcite in fractures -gneissosity @ 32° to c/a									

RG 1057-75

HOLE NO. LO-[redacted]
PAGE 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au(oz/ton)				AVERAGES
33.83	34.44	Sheared hornblende qtz. feldspar gneiss, very fine grained w/ banded fine calcite - pyr - cpy. veins @ 37° to c/a - 10mm vein @ 34.4 m of cpy, pyr - calcite, qtz @ 44° to c/a	37.10 3711	33.83 34.14	34.14 34.44	0.31 0.30	.002 .002				
34.44	37.89	Hornblende qtz gneiss - Abundant pyrite along fractures, trace cpy. @ 10-40° to c/a	3712 3713	34.44 36.58	34.75 36.91	0.31 0.33	.002 nil				
37.89	38.95	Sheared Quartz hornblende gneiss - very fine grained and minor foliation - abundant narrow (up to 8mm) calcite veins @ 50-60° to c/a - minor pyrite. - numerous qtz veins, erratic but average 70° to c/a - glassy quartz w/ chloritic blebs - trace pyr.	3714 3715	38.04 38.34	38.34 38.74	0.30 0.40	.002 nil				
38.95	42.06	Hornblende - qtz gneiss - minor calcite and qtz veining throughout - minor pyrite									
		END OF HOLE.									

RG 1857-75

ESSO MINERALS CANADA - DIAMOND DRILL HOLE LOG

PROPERTY ..Lotus..... LOCATION .....

NTS CODE ...62P-1..... HOLE NO. .....LO-5.....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP .....-60°..... STARTED .....

ELEVATION ..... CORE .....AQ..... COMPLETED .....

SECTION ..... LOGGED BY .....

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		33.22m		-65°					

HOLE NO. La-5
PAGE 1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (g/ton)				AVERAGES
0.00	1.83	Casing									
1.83	8.05	Qtz-feldspar-hornblende gneiss -numerous fine fractures - trace calcite -gneissosity @ 24° to C/a									
8.05	8.17	Qtz-feldspar-hornblende-fractured -minor Fe staining									
8.17	9.36	Qtz-hornblende-feldspar gneiss -minor banding -numerous fine fractures									
9.36	9.66	Shear zone - minor qtz veining -highly foliated quartz hornblende gneiss (QHG) @ 38° to C/a	3716	9.36	9.66	0.30	nil				
9.66	9.78	Qtz.vein - glassy white qtz [illegible] with minor chlorite along fractures -trace pyrite	3717	9.66	9.78	0.12	nil				
9.78	10.15	Sheared QHG - hornblende rich fine grained and highly foliated -minor qtz lenses and veining - minor pyrite and trace chalcopyrite	3718	9.78	10.15	0.37	nil				
10.15	11.86	Qtz - Feldspar-hornblende gneiss -medium to fine grained -minor calcite veining @ 54° to C/a									
11.86	11.92	Shear zone - highly silicified QFHG and minor Fe staining -zone @ 45° to C/a									
11.92	16.55	QHG - very fine grained with minor qtz in gneiss -abundant fine calcite veining @ 72° to C/a -minor qtz veining (up to 1(mm)) -trace pyrite in calcite and qtz veins									

HOLE NO. 40-5
PAGE 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Zn (oz/ton)			AVERAGES (Fr. 5 m)
16.55	16.58	Silicified QHG - minor foliation - trace pyrite @ 90° to S/a									
16.58	17.86	QHG - minor calcite veining - fine grained - minor qtz rich segregation - trace pyrite and chalcopyrite									
17.86	20.36	hornblende - feldspar gneiss - minor calcite veining - minor qtz veining - "speckled" appearance - fractures @ 56° to S/a									
20.36	20.27	Sheared hornblende feldspar gneiss - qtz vein - medium grained qtz crystals along erratic fracture - sheared @ 44° to S/a - trace pyrite									
20.27	21.82	QHG - poorly developed gneissosity - calcite veins throughout 4-5 mm									
21.82	24.11	Hornblende gneiss sheared - very fine grained hornblende - rich with numerous calcite veins - minor subhedral pyrite in vein and disseminated in wallrock - trace pyrite - sheared zones - indistinct due to fine grains									
24.11	25.30	Highly sheared QHG - silicified zones qtz lenses and stringers throughout - minor pyrites along fractures foliated @ 69° to S/a - qtz veining at 24.93 - 24.99 m.	3719 3683 3684 3685	24.11 24.41 24.72 25.02	24.41 24.72 25.02 25.30	0.30 0.31 0.30 0.28	nil .005 nil 0.29				0.07

HOLE NO. 80-5
PAGE 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES
25.30	25.91	Qtz vein - white mottled milky qtz vein -pyrite veneer along fractures	3686	25.30	26.57	0.27	.005	.03			
			3687	25.57	25.91	0.34	.005	nil			
25.91	26.82	Sheared QHG - silicified zone -abundant qtz lenses and stringers -abundant disseminated pyrite and pyrite along fractures in silicified zones -foliated @ 66° to C/a	3688	25.91	26.21	0.30	.01				
			3689	26.21	26.52	0.31	.002				
			3690	26.52	26.82	0.30	.01				
26.82	28.26	Fine grained sheared FHG -abundant calcite veining -pyrite-calcite veining at 27.07m - becomes medium grained to bottom -less sheared - very minor qtz -foliated @ 49° to C/a	3720	2207	27.40	0.33	.002				
			3721	27.68	27.98	0.30	nil				
28.26	29.96	QHG - medium grained with abundant calcite veins and fractures at 44° to C/a									
29.96	33.22	QFHG - granitic gneiss -minor fractures and trace pyrite -gneissosity @ 36° to C/a -minor qtz lenses - trace pyrite in lenses									
		End of Hole									

ESSO MINERALS CANADA - DIAMOND DRILL HOLE LOG

PROPERTY ..... Lotus ..... LOCATION .....

NTS CODE ..... 62P-1 ..... HOLE NO. ..... LO-4 .....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP ..... 50° ..... STARTED .....

ELEVATION ..... CORE ..... BQ ..... COMPLETED .....

SECTION ..... LOGGED BY . R. Hall. . .

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		42.06m		50°					

HOLE NO. L0-6
PAGE 1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH				AVERAGES
0.00	2.44	Casing								
2.44	9.36	Feldspar - hornblende gneiss speckled' texture - minor fracturing - calcite veining @ 10° to S/a								
9.36	13.32	QFHG - minor fracturing of quartz and calcite veining - medium grained - narrow fractures/epidote @ 40° to S/a								
13.32	13.44	Sheared QFHG - very fine grained and abundant fine calcite veinlets - trace pyrite - veins @ 28° to S/a								
13.44	14.66	QHG - medium grained with minor fracturing parallel to S/a with minor subhedral pyrite - calcite								
14.66	15.00	Sheared QHG - fine grained & highly contorted - minor calcite lenses - abundant disseminated pyrite & trace chalcopyrite								
15.00	20.76	hornblende - feldspar - gneiss - fine grained - very minor calcite veining - trace pyrite gneissosity @ 27° to S/a								
20.76	21.64	HFG - medium grained with 'speckled' appearance - poorly developed gneissosity - trace pyrite								
21.64	21.79	Sheared HFG (& shear zone) with qtz vein - subhedral qtz crystals - trace pyrite - shear @ 63° to S/a								
21.79	23.99	QHG - medium grained - very minor fracturing - gneissosity @ 25° to S/a								

HOLE NO. L.O.-6
PAGE 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au(oz/t)				AVERAGES
23.99	25.36	QFHG to QHG - well developed gneissosity - minor white qtz veining									
25.36	25.85	QHG - well developed gneissosity - increasingly less qtz toward bottom and more H + chlorite									
25.85	27.86	FHG - very fine grained → sheared? - finely disseminated pyrite - very minor calcite veining @ 28° to C/a									
27.86	31.33	FHG - well developed gneissosity - trace pyrite - minor quartz along fractures and thin veneer of pyrite									
31.33	31.76	Sheared HFG - highly sheared with erratic calcite lensing - trace disseminated pyrite - shear ~ 90° to C/a									
31.76	32.58	Sheared HFG - highly silicified with abundant qtz lenses + veins - zones of Fe staining - minor finely disseminated pyrite with thin pyrite along fracture surfaces - @ 80° to C/a	3722 3723 3724	31.76 31.97 32.28	31.97 32.28 32.58	0.21 0.31 0.30	.002 .13 .24				0.08
32.58	32.86	Sheared HFG - abundant pyrite - calcite along fractures - @ erratic attitudes	3725	32.58	32.86	0.28	.02				
32.86	33.80	Sheared HFG - qtz lenses and abundant calcite veining - minor pyrite in calcite veins - trace chalcopyrite - foliated @ 75° to C/a	3726 3727 3728	32.86 33.16 33.47	33.16 33.47 33.80	0.30 0.31 0.33	.002 .02 .002				
33.80	36.21	QHG - fine grained with indistinct qtz grains due to minor shearing - minor calcite veining throughout with pyrite									
36.21	42.06	QFHG - medium grained + good gneissosity @ 23° to C/a - numerous calcite fractures with minor pyrite - veins up to 10 mm with abundant calcite and pyrite	3729 3730	37.70 38.59	38.07 39.20	0.37 0.61	.002 .01				
		End of Hole									

RG 803-14

ESSO MINERALS CANADA – DIAMOND DRILL HOLE LOG

PROPERTY ..... Lotus ..... LOCATION ..... 4 .....

NTS CODE ..... 62P-1 ..... HOLE NO. ..... Lo-7 .....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP ..... -60° ..... STARTED .....

ELEVATION ..... CORE ..... AQ ..... COMPLETED .....

SECTION ..... LOGGED BY ..... R. Hill .....

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR		CUM.		CUM.
		43.59m		62°					

HOLE NO. ...LQ-7.....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH				AVERAGES
0	2.13	Casing								
2.13	8.78	Hornblende feldspar gneiss -speckled texture - gabbroic appearance -no gneissosity -minor shearing and trace pyrite								
8.78	8.99	Quartz hornblende gneiss -gneissosity @ 14° to c/a								
8.99	10.15	Hornblende feldspar gneiss -speckled texture -trace pyrite								
10.15	10.61	Quartz feldspar hornblende gneiss -minor quartz veins -well developed foliation @ 22° to c/a								
10.61	10.79	sheared Quartz feldspar hornblende gneiss -highly contorted -trace pyrite -shear @ 18° to c/a								
10.79	20.57	Quartz hornblende gneiss -very minor calcite-pyrite veining -minor narrow shear zones (4-10 mm) @ 52° to c/a @ 14.75 -well developed gneissosity -minor quartz veining								

HOLE NO. ....[illegible]....
PAGE .....2.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
20.57	20.85	Quartz feldspar hornblende gneiss - medium grained - gneissority @ 19° to c/a									
20.85	20.88	Shear zone - sheared Quartz hornblende gneiss - minor calcite - foliation @ 60° to c/a									
20.88	22.74	Quartz feldspar hornblende gneiss + Quartz hornblende gneiss - variable composition to gneiss grading from F bearing to F poor gneiss - minor calcite veining									
22.74	22.86	Sheared Quartz hornblende gneiss - minor disseminated pyrite. - narrow Fe stain Quartz vein @ 33° to c/a - trace pyrite									
22.86	25.66	Quartz hornblende gneiss - poorly developed gneissosity - minor fracturing and calcite veining @ 70° to c/a									
25.66	27.28	Quartz hornblende gneiss - very fined grained with minor gneissosity - erratic calcite veining throughout @ 15-18° to c/a									

HOLE NO. ....C-7.....
PAGE .....2.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
27.28	28.93	Hornblende gneiss - very fine grained - abundant fine calcite veins with minor pyrite and Trace chalcopyrite @ 22° to c/a									
28.93	31.64	Hornblende gneiss - very fine grained - calcite vein parallel to core axis - subhedral calcite variable amounts of pyrite and trace chalcopyrite -minor chlorite in HG									
31.64	32.13	Sheared Hornblende gneiss - silicified with numerous fine quartz stringers and lenses -abundant calcite in shear	3731 3732	31.64 31.82	31.82 32.13	0.18 0.31	nil .002				
32.13	32.43	Quartz vein and highly silicified host -cherty quartz with abundant disseminated pyrite and minor calcite @ 72° to c/a -Fe staining of calcite and silicified host	3733	32.13	32.43	0.30	.01				
32.43	34.38	Sheared hornblende gneiss - minor silicified -abundant calcite veining throughout and minor quartz veins and lenses. -trace pyrite -foliation @ 70° to c/a	3734 3735 3736 3737 3738	32.43 32.74 33.04 33.65 33.96	32.74 33.04 33.65 33.96 34.38	0.31 0.30 0.61 0.31 0.42	.002 .002 .002 nil nil				

RG 1657-75

HOLE NO. ....47.....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH				AVERAGES
34.38	42.15	Quartz feldspar hornblende gneiss - abundant - quartz rich lamination - blue quartz - minor calcite veining throughout @ 50-56° to c/a - gneissosity @ 26° to c/a - trace pyrite in fractures								
42.15	-	Quartz vein 0.5" wide (20 mm) - minor pyrite @ 46° to c/a								
42.15	43.43	Quartz feldspar hornblende gneiss - quartz rich zones and minor Kspar								
43.43	-	Quartz vein - 20 mm - trace pyrite								
43.43	43.59	Quartz feldspar hornblende gneiss								

RG 1857-75

ESSO MINERALS CANADA - DIAMOND DRILL HOLE LOG

PROPERTY ... Lotus ..... LOCATION .....

NTS CODE ... 62P/1 ..... HOLE NO. ..... Lo-8 .....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP ..... -45° ..... STARTED .....

ELEVATION ..... CORE ..... AQ ..... COMPLETED .....

SECTION ..... LOGGED BY . R. Hall ...

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		35·97m		-50°					

HOLE NO. LO-9
PAGE 1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH				AVERAGES
0.00	3.66	CASING								
3.66	4.97	Hornblende gneiss - fine grained hornblende epidote - gneissosity ? - trace pyrite - abundant fine calcite veins								
4.97	6.10	Qtz hornblende gneiss - abundant fine calcite veins @ 42° to c/a - trace pyrite in veins.								
6.10	6.74	Qtz hornblende gneiss - Fe staining of qtz along fractures - blocky - trace pyrite								
6.74	6.83	Sheared Qtz hornblende gneiss - minor qtz leases 8mm wide - shear @ 45° to c/a.								
6.83	8.75	Qtz feldspar hornblende gneiss, minor epidote along fractures and iron staining of feldspars. - gneissosity @ 20° to c/a								
8.75	9.14	Qtz - calcite vein - fracture zone - trace pyrite @ 14° to c/a								
9.14	13.87	Qtz hornblende epidote gneiss - well developed gneissosity @ 21° to c/a - minor calcite veining - trace pyrite.								

RG 1657-75

HOLE NO. LO-9
PAGE 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDT				AVERAGES
13.87		Qtz. vein (12 mm), minor chlorite and pyrite @ 28° to c/a								
13.87	15.85	Qtz. hornblende gneiss - trace pyrite - gneissosity @ 13° to c/a								
15.85	16.28	Qtz hornblende feldspar gneiss - vein 11 to c/a w/ calcite - epidote and trace pyrite. - Fe staining - abundant calcite fractures								
16.28	16.61	Qtz feldspar hornblende gneiss - minor calcite veining trace pyrite.								
16.61	17.95	Qtz hornblende gneiss, well developed gneissosity of integrated qtz. and hornblende - trace dissem. pyrite. - minor calcite veining								
17.95	18.65	Hornblende gneiss - minor foliate - erratic calcite stringers - minor pyrite in fractures								
18.65	18.74	Qtz K spar vein, erratic veining - Hornblende gneiss matrix								
18.74	22.59	Qtz hornblende gneiss - numerous calcite fractures @ erratic angles - trace pyrite along fractures								

RG 1657-75

HOLE NO. 49-.....
PAGE ...3.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
22.59	23.44	Sheared hornblende gneiss - platy pyrite along fractures - fine calcite veining @ 62° to c/a - minor qtz. stringers	3739	22.59	22.89	0.30	nil				
			3740	22.89	23.20	0.31	nil				
			3741	23.20	23.44	0.24	nil				
23.44	24.05	Quartz veins w/ interlaminate schistose leases, abundant pyrite in qtz. and schistose zones. - minor platy pyrite - trace chalcopyrite. - veins up to 9 cm wide, erratic with vein @ 84° to c/a	3742	23.44	23.74	0.30	nil				
			3743	23.74	24.05	0.31	.005				
24.05	24.41	- silicified zone w/ abundant qtz and minor calcite veins. - trace pyrite	3744	24.05	24.41	0.36	.002				
24.41	25.45	Qtz vein - milky qtz w/ telluride and vein gold on fractures 24.65 - v. gold and telluride on fracture 24.96 - v. gold and telluride on fracture - trace pyrite.	3745	24.41	24.72	0.31	.39				0.11
			3746	24.72	25.02	0.30	.13				
			3747	25.02	25.45	0.43	.002				
25.45	25.60	Carbonated and silicified zone - highly sheared, minor calcite veining - minor trace tourmaline - green discolouration - trace pyrite - foliation @ 72° to c/a	3748	25.45	25.60	0.15	.01				

RG 1857-75

HOLE NO. LO-8
PAGE 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES
25.60	26.33	Sheared hornblende gneiss - abundant calcite throughout - trace pyrite.	3749	25.60	25.94	0.34	nil				
			3750	25.94	26.24	0.30	.002				
26.33	26.46	Sheared hornblende gneiss - qtz lenses and stringers - 3.0 cm - minor tellurides - clots and dissem. pyrite and pyrrhotite - minor calcite vein.	3751	26.24	26.55	0.31	.07	.02			
26.46	27.40	Sheared hornblende gneiss - minor calcite veins and trace pyrrhotite.	3752	26.56	26.85	0.50	nil				
			3753	26.85	27.40	0.75	.002				
27.40	27.74	Qtz vein and sheared zone 15cm qtz vein and shear zone of abundant calcite stringers and minor qtz. stringers - pyrite and pyrrhotite along fractures and trace chalcopyrite.	3754	27.40	27.74	0.34	.002				
27.74	28.10	Sheared hornblende gneiss - fine grained minor foliation - narrow calcite veining	3755	27.74	28.10	0.36	nil				
28.10	33.32	QHG to QFHG - minor calcite veining - gneissosity @ 16° to c/a - trace pyrite in fractures									
33.32	33.50	Sheared qtz hornblende gneiss, 2 narrow qtz veins - minor pyrite and pyrrhotite - trace telluride @ 58° to c/a	3756	33.32	33.50	0.18	.002				

RG 1657-75

HOLE NO. LO-7
PAGE 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
33.50	34.23	Hornblende gneiss, fine grained w/ minor fracturing - trace pyrite.									
34.23	35.97	Hornblende feldspar gneiss - speckled appearance w/ minor calcite vein @ 360 to c/a									
		END OF HOLE.									

RG 1657-75

ESSO MINERALS CANADA - DIAMOND DRILL HOLE LOG

PROPERTY ... Lotus ... LOCATION .....

NTS CODE .. 62 P/ ... HOLE NO. ... LO-9 .....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP .... 60° ..... STARTED .. Sept. 2/79 ...

ELEVATION ..... CORE .... BQ ..... COMPLETED .. Sept. 3/79 ..

SECTION .....

LOGGED BY .. R. Hall ...

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		35.97m		-62°					

HOLE NO. LO-9
PAGE 1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH				AVERAGES
0.00	3.05	Casing								
3.05	7.65	Quartz - Feldspar - Hornblende - Gneiss - Fe staining of feldspar - minor calcite veinlets throughout @ 49° to C/a - narrow qtz veining with trace pyrite								
7.65	8.11	fractured QFHG - abundant Fe staining of feldspar - minor shearing @ 42° to C/a								
8.11	9.24	QFHG - calcite fractures throughout - minor Fe staining - gneiss @ 26° to C/a								
9.24	11.83	QHG - fracturing @ 44° to C/a with minor calcite and epidote with trace tourmoline								
	11.83	calcite - tourmaline vein 4mm wide @ 21° to C/a - trace pyrite - minor Fe stain adjacent to vein								
11.83	12.47	fractured QHG - numerous fractures throughout - calcite veinlets								
	12.47	Qtz - calcite vein with pyrite - 8mm wide @ 44° to C/a								
12.47	16.00	QHG - minor calcite stringers throughout								
16.00	16.22	Qtz - calcite - Kspar - Hornblende vein abundant calcite in fractures - vein @ 12° to C/a								
16.22	17.16	Qtz - hornblende gneiss - fine calcite along fractures with trace pyrite								
17.16	18.01	Qtz - hornblende vein - fine grained white-pink qtz with clots of hornblende throughout - mobilizate from gneiss - trace chalcopyrite @ 9° to C/a								
18.01	19.08	Hornblende to QHG - minor fracturing throughout - very fine grained								

HOLE NO. L0-9
PAGE 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES (Au over 1.5m)
9.08	19.48	QFH vein or felsic mobilizate - trace pyrite and chalcopyrite									
9.48	25.02	Hornblende - qtz to qtz feldspar hornblende - highly fractured with abundant calcite stringers - trace pyrite along fractures - portions sheared and silicified up to 10mm - minor quartz veining									
25.02	26.27	Silicified hornblende gneiss - highly altered - numerous fine calcite stringers - minor disseminated pyrite and trace chalcopyrite.	3757 3758 3759	25.36 25.66 25.97	25.66 25.97 26.27	0.30 0.31 0.30	.002 nil .002	nil			
26.27	27.89	Quartz vein - milky white qtz - minor pyrite along fractures 26.43 - clot of V.G. and telluride 26.52 - ground core - green telluride along fractures - minor tourmaline 58° to 62° to C/A	3760 3761 3762 3763 3764	26.27 26.58 26.88 27.19 27.49	26.58 26.88 27.19 27.49 27.89	0.31 0.30 0.31 0.30 0.40	1.36 nil nil nil .01	0.11 .03 .01 nil .05			0.27
27.89	28.50	highly sheared hornblende gneiss - silicified - abundant erratic carbonate lenses and stringers - qtz lenses and veins at 49° to C/A	3765	27.89	28.50	0.61	nil				
28.50	28.65	Qtz vein - white milky qtz - minor carborate - fuchsite along contact - minor pyrite veneer in fractures in qtz	3766	28.50	28.65	0.15	.005				
28.65	29.63	Sheared mafic gneiss - abundant fine grained calcite 64° to C/A - minor qtz stringers	3767 3768	28.45 29.02	29.02 29.63	0.37 0.61	nil nil				
29.63	30.05	Silicified gneiss - Fe stained - trace pyrite and trace chalcopyrite	3769	29.63	29.93	0.30	.002				
30.05	30.24	Qtz vein and silicified gneiss - erratic qtz veins at 53° to C/A	3770	29.93	30.24	0.31	nil				

HOLE NO. 40-9
PAGE 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
30.24	30.82	Sheared mafic gneiss - QHG - abundant fine calcite veinlets - minor pyrite and trace chalcopyrite	3771	30.24	30.54	0.30	nil				
30.82	31.70	HFG - speckled appearance - minor calcite veining									
	31.70	Calcite vein and fractures - 4mm at 13° to									
31.70	36.97	Hornblende - feldspar gneiss - minor chlorite - minor pyrite along fractures - narrow calcite bearing fractures									
		End of Hole									

ESSO MINERALS CANADA - DIAMOND DRILL HOLE LOG

PROPERTY ... Lotus ..... LOCATION .....

NTS CODE .... 62P-1 ..... HOLE NO. ... LO-10 .....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP .... 50° ..... STARTED ... Sept 3/79 ..

ELEVATION ..... CORE ... AQ ..... COMPLETED . Sept 3/79 ..

SECTION ..... LOGGED BY . R. Hall ...

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		54.25m			50°				

HOLE NO. ...L[redacted]2.....
PAGE .....1.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
0	1.22	Casing									
1.22	4.57	Quartz hornblende gneiss - minor epidote									
4.57	4.63	Quartz vein - glassy quartz with chlorite and trace pyrite @ 39° to c/a									
4.63	6.68	Quartz hornblende gneiss - minor epidote and calcite veining									
6.68	12.95	Hornblende feldspar gneiss - speckled appearence - minor epidote and chlorite - minor fracturing - narrow quartz veining									
12.95	13.75	fractures and minor shear hornblenie feldspar gneiss - epidote - carbonate along fractures @ 46°									
13.75	15.24	feldspar hornblende gneiss - minor epidote on fractures									
15.24	15.27	Quartz vein - glassy quartz @ 44° with trace pyrite - minor shearing adjacent to vein									

RG 1657-75

HOLE NO. ...[illegible]0.....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
15.27	20.27	Quartz hornblende gneiss to feldspar hornblende gneiss - minor chlorite - trace calcite									
20.27	20.36	Quartz - Kspar vein - 20° to c/a									
20.36	21.37	Quartz hornblende gneiss - gneiss @ 21° to c/a									
21.37	23.32	Hornblende gneiss - fine grained - possibly sheared with abundant calcite veining									
23.32	23.50	Quartz Kspar vein - medium grained qtz. + felds. - minor calcite along contact @ 12° to c/a									
23.50	27.55	Sheared hornblende gneiss - fine grained hornblende and abundant fine calcite throughout and also calcite veining - minor quartz - Kspar veinlets and trace pyrite @ 27° to c/a									
27.55	30.91	Hornblende feldspar gneiss - medium to fine grained with few narrow quartz veins @ 48° to c/a - gneiss @ 42° to c/a - minor epidote on fractures									

RG 1667-75

HOLE NO. ....[illegible]10.....
PAGE .....2.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES
30.91	33.22	Quartz hornblende gneiss -medium to fine grained - sheared appearence -minor calcite veining -minor Kspar									
33.22	33.41	Sheared Kspar quartz hornblende gneiss -Fe stain of Kspar -minor calcite									
33.41	35.97	Hornblende - Kspar gneiss -medium to fine grained with narrow calcite and epidote vein									
35.97	37.55	Silicified and sheared mafic gneiss -abundant fine calcite throughout -minor Fe staining -shear @ 80° to c/a	3772 3773 3774	36.42 37.03 37.31	37.03 37.31 37.55	0.61 0.28 0.24	nil .002 .005				
37.55	37.76	Quartz vein - milky mottled quartz -fine telluride and v.g. -fine disseminated pyrite adjacent to wall rock @ 82° to c/a	3775	37.55	37.76	0.21	0.45	.04			0.07
37.76	39.17	Silicified and sheared -abundant fine calcite -minor quartz lenses -trace pyrite	3776 3777	37.76 38.07	38.07 38.68	0.31 0.61	.02 .002				

RG 1667-75

HOLE NO. ...[redacted]0.....
PAGE .....7.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH				AVERAGES
39.17	42.31	Quartz hornblende gneiss -minor fracturing - calcite veinlets 60-90° to c/a								
42.31	44.01	Hornblende feldspar gneiss -numerous calcite veins @ 38° to c/a								
44.01	44.41	Quartz feldspar hornblende gneiss -trace pyrite -calcite veining								
44.41	45.99	Quartz hornblende gneiss @ 40° to c/a -minor calcite vein								
45.99	47.67	Feldspar hornblende gneiss -medium to fine grained -minor calcite veining								
47.67	47.73	Quartz vein - glassy quartz with calcite along contact of wallrock -minor chlorite -@ 41° to c/a								
47.73	49.93	Quartz hornblende to hornblende gneiss -some very fine grained portions -minor calcite veining throughout								

RG 1857-75

HOLE NO. ..... 92-10 .....
PAGE ..... 5 .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH				AVERAGES
49.93	51.12	Quartz feldspar hornblende gneiss - trace calcite - minor chlorite								
51.12	51.21	Quartz vein - glassy quartz @ 38° to c/a - trace pyrite								
51.21	54.25	Feldspar hornblende gneiss - speckled appearance - feldspars are altered to Kaolinite - very minor calcite veining END OF HOLE								

RG 1857-75

ESSO MINERALS CANADA - DIAMOND DRILL HOLE LOG

PROPERTY ....Lotus..... LOCATION .....

NTS CODE ....62P-1..... HOLE NO. .....LO-11.....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP .....-60°..... STARTED ...Sept 4/79.

ELEVATION ..... CORE ..... COMPLETED ..Sept 5/79..

SECTION ..... LOGGED BY .....

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		45.72m		-63°					

HOLE NO. LO-[redacted]
PAGE 1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
0.00	1.83	CASING									
1.83	4.24	Qtz. hornblende gneiss to qtz feldspar hornblende gneiss @ 42° to c/a Minor calcite veining @ 47° to c/a (⊥ to gneiss)									
4.24	4.27	Qtz. vein - glassy white qtz. @ 40° to c/a - trace pyrite. - minor iron staining at wall rock									
4.27	8.90	Qtz. feldspar hornblende gneiss, med. grain - minor calcite veining - some zones of speckled appearance									
8.90	10.03	Feldspar hornblende and minor qtz. - very fine grain to fine grain - minor epidote along fractures									
10.03	10.42	Sheared qtz. feldspar gneiss @ 18° to c/a - Fe stained feldspar - calcite vein.									
10.42	10.94	Qtz. hornblende gneiss - trace calcite									
10.94	11.64	Sheared hornblende gneiss - abundant dissem. and veinlets of calcite - minor chlorite - minor K spar quartz veining									

RG 1857-75

HOLE NO. LO- [redacted]
PAGE 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH				AVERAGES
11.64	14.75	Qtz. hornblende gneiss -calcite vein @ 30° to c/a								
14.75	14.78	Qtz. vein -glassy qtz. @ 20° to c/a (⊥ to gneiss) w/ minor dissem. chlorite. -trace pyrite.								
14.78	15.18	Qtz. hornblende gneiss								
15.18	15.79	Sheared hornblende gneiss - fine grained chlorite and abundant calcite and epidote shear @ 52° to c/a								
15.79	15.82	Qtz. vein -glassy qtz. w/ trace pyrite								
15.82	20.45	Qtz. hornblende gneiss - minor epidote along fracture.								
20.45	20.51	Qtz. feldspar vein @ 28° to c/a - minor Fe stained feldspar. -trace pyrite.								
20.51	26.73	Qtz hornblende gneiss -minor calcite veining @ 47° to c/a -trace pyrite and chalcopyrite in calcite -medium grain w/ fine grain zones								
26.73	27.13	Qtz feldspar hornblende gneiss -minor shearing and epidote in shear								

RG 1657-75

HOLE NO. LO-[redacted]
PAGE 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
27.13	29.44	Qtz. hornblende gneiss - fine grain w/ minor chlorite - abundant calcite - epidote vein @ 45° to c/a 29.44 - qtz vein @ 48° to c/a - glassy qtz. 10 mm.									
29.44	32.00	Qtz.- feldspar hornblende gneiss - medium grain - minor fracturing.									
32.00	32.03	Qtz. vein - white glassy qtz @ 33° to c/a w/ minor chlorite - trace pyrite in vein and in adjacent wall rock.									
32.03	33.10	Qtz. hornblende gneiss - numerous calcite fracture - abundant finely dissem pyrite - minor qtz. lens and veins	3778	32.03	33.10	1.07	nil				
33.10	38.16	Qtz. hornblende gneiss - epidote veining and discoloration along fracture. - trace pyrite. 38.16 - qtz. vein - 6 mm - glassy white qtz @ 12° to c/a									

RG 1857-75

HOLE NO. LO-[redacted]
PAGE 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES
38.16	39.96	Qtz hornblende gneiss - minor feldspar - epidote along fractures - trace calcite									
39.96	41.00	Sheared hornblende gneiss - Abundant finely dissem. calcite and calcite veins - trace dissem. pyrite. - shear @ 71° to c/a	3779 3780	40.39 40.69	40.69 41.00	0.30 0.31	nil .002				
41.00	41.48	Qtz. vein - 5.5cm milky qtz. -trace telluride @ 41.00 - Schistose w/ grey qtz. vein -minor pyrite and K spar. - minor calcite	3781 3782	41.00 41.30	41.30 41.48	0.30 0.18	.89 .13	.05 .09			0.20
41.48	42.31	Sheared hornblende gneiss - abundant calcite dissem. and on fracture - shear @ 65° to c/a	[redacted] 3783	[redacted] 41.48	" 41.88	0.40	.01				
42.31	43.04	Qtz hornblende gneiss - minor shearing and minor calcite throughout.									
43.04	43.40	Fractured and sheared qtz hornblende gneiss - abundant calcite along fractures - trace pyrite - shear @ 45° to c/a									
43.40	45.72	Qtz. hornblende to qtz. hornblende feldspar gneiss - minor calcite veining in fractures									

RG 1657-75

ESSO MINERALS CANADA - DIAMOND DRILL HOLE LOG

PROPERTY .... Lotus ..... LOCATION .....

NTS CODE .... 62P/1 ..... HOLE NO. ..... La-12 .....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP .... -45° ..... STARTED ... Sept 5/79 ..

ELEVATION ..... CORE .... AQ ..... COMPLETED .. Sept 6/79 ..

SECTION ..... LOGGED BY . R. Hall ...

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		42.06m		-48°					

HOLE NO. ....12-12.....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
0	2.44	Casing									
2.44	4.63	Quartz hornblende gneiss									
4.63	4.66	Sheared quartz hornblende gneiss @ 47° to c/a -minor epidote and calcite									
4.66	12.16	Quartz hornblende gneiss to QFHG -minor Fe staining of feldspars -minor calcite veining									
12.16	12.19	Sheared QFHG -minor epidote -@ 32° to c/a									
12.19	21.31	Quartz hornblende gneiss -medium grained -minor epidote along fracture -minor calcite veining									
21.31	22.13	Quartz feldspar hornblende gneiss -medium to coarse grained -minor epidote -calcite veining									
22.13	-	Quartz vein @ 45° to c/a -6 mm wide									

RG 1857-75

HOLE NO. ..... 12 .....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
22.13	24.41	Quartz feldspar hornblende -medium grained -minor Fe staining along fractures -blue quartz along gneissosity -minor calcite									
24.41	25.36	Quartz hornblende gneiss -minor fracturing									
25.36	25.57	Sheared Quartz hornblende gneiss -minor chlorite and Fe staining -shear @ 51° to c/a									
25.57	27.32	Quartz hornblende gneiss -minor calcite veining									
27.32		Quartz -calcite vein @ 32° to c/a -15 mm wide									
27.32	33.98	Quartz hornblende with minor QFH zones -minor calcite veining throughout @ 44° to c/a -epidote along fractures									
33.98	34.93	Quartz hornblende gneiss - fine grained -poorly developed gneissosity -minor shearing -minor calcite vein // to c/a and at erratic angles									

RG 1657-75

HOLE NO. ....LG-12.....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES (Lisa)
34.93	35.81	Sheared hornblende gneiss -abundant disseminated and veinlets of calcite -very minor quartz lensing -shear 70-80° to c/a	3784	35.20	35.81	0.61	nil				
35.81	36.24	Quartz vein and narrow chloritic schistose zones -disseminated subhedral pyrite and pyrite plate along fractures.	3785	35.81	36.24	0.43	.005	nil			
36.24	36.73	Silicified wallrock @ 60° to c/a -minor quartz lensing -Fe staining - orange - yellow	3786	36.24	36.73	0.49	.002				
36.73	37.03	Quartz lenses and chloritic schist -lenses up to 10mm @ 61° to c/a -minor subhedral pyrite and pyrite veneer on fractures	3787	36.73	37.03	0.30	.002	.01			
37.03	37.37	Quartz vein -milky quartz with smoky section -abundant disseminated tellurides and fine v.g. in 37.22-37.37	3788	37.03	37.37	0.34	.36	.06			0.08
37.37	-	ground core									
37.37	38.56	Sheared hornblende gneiss -abundant fine calcite disseminated and lenses -trace pyrite	3789	37.37	37.98	0.61	nil				

RG 1657-75

HOLE NO. ..... -12 .....
PAGE ..... 2 .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH				AVERAGES
38.56	42.06	Quartz hornblende gneiss -minor Kspar -minor epidote and calcite veining								
		END OF HOLE								

RG 1657-75

BC 503-78

ESSO MINERALS CANADA - DIAMOND DRILL HOLE LOG

PROPERTY ...Lotus..... LOCATION .....

NTS CODE ....62P-1..... HOLE NO. ....LO-13.....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP .....-60°..... STARTED ..Sept. 6/79...

ELEVATION ..... CORE ....AQ..... COMPLETED ..Sept 7/79...

SECTION ..... LOGGED BY ..R. Hall...

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		48.16m		-64°					

HOLE NO. .... 42-13 .....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
0	1.22	Casing									
1.22	5.15	Quartz hornblende gneiss - abundant calcite veining and fracturing									
5.15	5.42	Sheared hornblende gneiss @ 54° to c/a - trace calcite									
5.42	17.98	Quartz hornblende gneiss - medium to fine grained - numerous calcite veins @ 59° to c/a - minor epidote on fractures - minor Fe stain of feldspar - minor quartz lenses along gneissosity at 26° to c/a									
17.98	-	Quartz vein - 6mm @ 19° to c/a - minor chalcopyrite - trace calcite									
17.98	25.45	Quartz hornblende gneiss - fine grained - minor shearing - abundant fine calcite - 19.54 - quartz vein - tourmaline - 8mm wide @ 11° to c/a									
25.45	25.51	Quartz lense parallel to c/a - minor calcite									

RG 1857-75

HOLE NO. ....[redacted]-13.....
PAGE .....2.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES
25.51	27.04	Quartz hornblende gneiss -minor calcite veining -fracture @ 47° to c/a -epidote									
27.04	27.13	Sheared hornblende with quartz veining @ 64° to c/a -glassy quartz with minor pyrite									
27.13	38.50	Quartz hornblende gneiss to QFH gneiss -trace calcite @ 56° to c/a -medium to fine grained -minor Fe stain along fractures									
38.50	40.72	Shear hornblende gneiss -minor erratic calcite veining @ 40 to c/a -calcite lensing in highly sheared zone	3790 3791	40.11 40.42	40.42 40.72	0.31 0.30	nil .002				
40.72	41.12	vein zone 40.72 - 40.96 - silicified and schistose zone -trace pyrite -erratic quartz lenses 40.96 - 41.03 - quartz vein with pyrite 41.03 - 41.12 - quartz Kspar with trace pyrite @ 68° to c/a	3792	40.72	41.12	0.40	.005	tr			.001
41.12	42.09	Sheared hornblende gneiss -abundant fine disseminated and veinlet calcite -trace pyrite	3793 3794 3795	41.12 41.42 41.73	41.42 41.73 42.03	0.30 0.31 0.30	.002 nil nil				

RG 1857-78

HOLE NO. ....13.....
PAGE .....3.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
42.09	45.26	Quartz feldspar hornblende gneiss - minor shearing - erratic calcite veins - minor Fe stain feldspars									
45.26	46.45	Feldspar hornblende gneiss - minor calcite @ 58 to c/a - trace pyrite									
46.45	46.48	Quartz vein - glassy white - trace pyrite - @ 32° to c/a									
46.48	47.46	Quartz feldspar biotite gneiss									
47.46	47.55	Quartz feldspar vein with abundant subhedral pyrite									
47.55	48.16	Quartz feldspar hornblende gneiss END OF HOLE									

RG 1657-75

ESSO MINERALS CANADA - DIAMOND DRILL HOLE LOG

PROPERTY ... Lotus ..... LOCATION .....

NTS CODE ... 62P/ ..... HOLE NO. ..... LO-14 .....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP ..... -45° ..... STARTED ... Sept 9/79 ..

ELEVATION ..... CORE ..... AQ ..... COMPLETED .. Sept 11/79 ..

SECTION ..... LOGGED BY . R. Hall ...

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		93.88m		49°					
		124.36m		50°					

HOLE NO. LO-14
PAGE 1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
0.00	3.66	CASING									
3.66	4.82	Qtz. hornblende gneiss - very fine grained - poorly developed gneissosity									
4.82	5.18	Sheared qtz. hornblende gneiss - minor qtz. calcite veinlets @ 17° to c/a									
5.18	11.86	Qtz. feldspar hornblende gneiss - erratic qtz. rich gneissose zones - minor calcite veining @ 64° to c/a									
11.86	12.40	Qtz feldspar hornblende gneiss - minor shearing throughout - fine calcite stringers along fractures @ 47° to c/a - minor dissem. pyrite in fracture.									
12.40	15.24	Qtz. feldspar gneiss and feldspar gneiss - minor K-spar and qtz. veinlets - calcite veinlets									
15.24	16.22	Sheared Qtz. hornblende gneiss - very fine grained w/ abundant erratic calcite stringers and veinlets - 15.76, narrow qtz. vein @ 62°, minor pyrite along fractures	3796	15.61	15.91	0.30	Ni/				
16.22	16.82	Hornblende feldspar gneiss - calcite veinlets @ 47° to c/a									

HOLE NO. 40-16
PAGE 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH				AVERAGES
16.82	17.16	Qtz. feldspar hornblende gneiss - silicified and minor Fe staining of feldspar - minor epidote								
17.16	18.44	Feldspar hornblende gneiss, speckled appearance - poorly developed foliation - minor chloritic zones								
18.44	19.11	Qtz. feldspar hornblende gneiss - minor chlorite along fractures - minor shearing.								
19.11	24.44	Hornblende feldspar and qtz. hornblende gneiss - minor chlorite zones along fractures - trace pyrite.								
24.44	24.75	Sheared hornblende gneiss - very fine grained and well foliated @ 44° to c/a								
24.75	24.84	Qtz. feldspar vein - med. to coarse grained w/ trace pyrite @ 50° to c/a								
24.84	26.34	Hornblende feldspar and qtz. hornblende gneiss - trace epidote in fracture.								
26.34	28.50	Hornblende feldspar gneiss - minor shearing and silicification - dissem. calcite and along fractures @ 59° to c/a - trace pyrite.								

HOLE NO. L0-14
PAGE 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH				AVERAGES
28.50	28.53	Qtz. feldspar vein @ 48° to c/a -trace pyrite.								
28.53	31.36	Feldspar hornblende gneiss -minor fracturing and calcite rich zones adjacent to fractures								
31.36	39.81	Qtz. feldspar hornblende gneiss -minor disseminated pyrite. -Fe stained K-spar -chloritic zones along fractures and calcite. -minor qtz. rich zones - trace pyrite.								
39.81	40.90	Qtz. hornblende gneiss -very silicic -minor chlorite -minor fracture @ 38° to c/a -pyrite along fracture, coarse subhedral pyrite in 8mm zone.								
40.90	42.00	Hornblende feldspar gneiss -minor shearing @ 16° to c/a -minor qtz. lenses and veining.								
42.00	42.98	Qtz. hornblende feldspar gneiss								
42.98	43.86	Qtz. feldspar gneiss @ 16° to c/a -narrow zone of abundant pyrrhotite -minor chloritic clots throughout.								

HOLE NO. LO-14
PAGE 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
43.86	45.17	Feldspar hornblende gneiss - minor erratic calcite veining									
45.17	45.99	Qtz. feldspar hornblende gneiss and qtz feldspar gneiss. - trace pyrrhotite - fine veneer of pyrite along fracture.	3797	45.48	45.99	0.51	nil				
45.99	46.94	Hornblende feldspar gneiss. - minor shearing - trace calcite.									
46.94	47.73	Qtz. hornblende gneiss @ 19° to c/a									
47.73	49.65	Hornblende feldspar gneiss - minor qtz. along gneissosity. - erratic calcite veining - minor shearing.									
49.65	51.05	Hornblende feldspar gneiss - minor calcite veining and trace pyrrhotite - minor chlorite									
51.05	51.33	Hornblende feldspar gneiss - minor shearing - abundant chlorite - epidote veining.									
51.33	54.89	Qtz hornblende feldspar gneiss to hornblende feldspar gneiss - gneissosity @ 34° to c/a - narrow calcite ⊥ to c/a									

HOLE NO. LO-14
PAGE 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
54.89	56.08	Sheared and carbonated feldspar hornblende gneiss - minor shearing @ 42° to c/a - abundant dissem. calcite - bleached appearance to wallrock - trace pyrite.									
56.08	56.72	Highly carbonated zone, erratic qtz. lenses and veining throughout. - trace pyrite veneer on fractures - milky qtz.	3798 3799	56.08 56.34	56.34 56.72	0.26 0.38	nil nil				
56.72	57.12	Sheared carbonated qtz. hornblende gneiss - trace pyrite.									
57.12	62.67	Hornblende feldspar gneiss and minor qtz hornblende gneiss - minor calcite veining throughout and narrow qtz. veining.									
62.67	62.79	Qtz. feldspar gneiss - trace pyrrhotite @ 38° to c/a									
62.79	63.25	Hornblende feldspar gneiss - minor epidote along fracture and trace calcite									
63.25	69.95	Hornblende feldspar gneiss - minor shearing @ 30° to c/a - epidote along shear zone - minor qtz. feldspar hornblende gneiss zones									
69.95	70.23	Qtz. hornblende gneiss.									

HOLE NO. 40-14
PAGE 4 of 6

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
70.23	71.63	Qtz. hornblende - minor epidote along fractures - minor calcite veining									
71.63	71.90	Qtz K-spar gneiss - minor clots of hornblende. - trace pyrite along fractures									
71.90	77.91	Hornblende to feldspar hornblende gneiss - fine calcite stringers throughout and trace pyrite @ 45° to c/a 77.75 - minor qtz. vein (6-8 mm) @ 47° to c/a - minor chlorite.									
77.91	79.40	- highly sheared hornblende gneiss - abundant dissem. calcite and calcite along fractures - trace pyrite and chalcopyrite in calcite. - calcite @ 46° to c/a	3900	78.70	79.31	0.61	nil				
79.40	79.46	Qtz. calcite vein - dissem. chlorite - minor pyrite veneer along fracture.	3801	79.31	79.61	0.30	.002				
79.46	79.83	Sheared hornblende gneiss, abundant fine calcite stringers @ 70° to c/a									
79.83	84.34	Qtz. hornblende gneiss - numerous calcite veins - minor shearing @ 80° to c/a - epidote along fractures									
84.34	84.43	Qtz. hornblende gneiss - 2 qtz veins ~ 7mm wide @ 69° to c/a - no shearing									

HOLE NO. 49:14
PAGE ...7.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au				AVERAGES
84.43	87.72	Qtz. hornblende gneiss - minor fracturing - epidote. - minor K-spar bearing zones - qtz. vein @ 20° to c/a									
87.72	92.78	Qtz. hornblende gneiss @ 16° to c/a - minor epidote veining - minor qtz. along gneissosity.									
92.78	96.29	Fractured qtz. feldspar hornblende gneiss - minor shearing - Fe staining of feldspars - minor qtz. lenses - epidote along fractures.									
96.29		- Qtz. vein - minor calcite, trace pyrite. @ 12° to c/a									
96.29	110.34	Qtz. hornblende gneiss - minor epidote along fracture @ 50 to 90° to c/a - trace pyrite. - minor qtz. vein @ 46° to c/a									
110.34	111.22	Highly sheared qtz. hornblende gneiss @ 48° to c/a - abundant fine calcite veins - minor silicification. - numerous erratic qtz lenses	3802 3803	110.34 110.95	110.95 111.22	0.61 0.27	nil. .002				
111.22	111.95	Qtz. vein and highly silicified. - trace pyrite - erratic qtz. lenses in silicified wall rock - minor fracturing.	~~3803~~ 3804 3805	~~111.22~~ 111.22 111.53	~~111.53~~ 111.53 111.95	0.31 0.42	.002 .002				

HOLE NO. LO-14
PAGE 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES (1.3 m)
111.95	112.17	Qtz. vein - milky white qtz. - fine telluride along fractures @ 112.01	3806	111.95	112.17	0.22	.26	.04			0.04
112.17	113.36	Sheared qtz. hornblende gneiss - abundant fine calcite vein and disseminated calcite throughout - trace pyrite. - vein @ 80° to c/a	3807 3808	112.17 112.96	112.96 113.36	0.79 0.40	.002 nil				
113.36	115.03	Qtz. hornblende gneiss - fine grained - minor shearing.									
115.03	115.12	Sheared qtz. hornblende gneiss									
115.12	115.15	Milky to charty grey qtz. vein at 72° to c/a - minor pyrite along fractures	3809	115.03	115.34	0.31	nil				
115.15	115.24	Sheared qtz. hornblende gneiss w/ minor calcite veining.									
115.24	120.06	Hornblende feldspar gneiss - minor shearing - calcite veining throughout - minor shearing									
120.06	121.04	Qtz. feldspar hornblende gneiss - medium grained - minor epidote.									
121.04	124.36	Hornblende feldspar gneiss - fine grained - minor calcite along fracture @ 10° to c/a - trace pyrite.									
		END OF HOLE									

ESSO MINERALS CANADA - DIAMOND DRILL HOLE LOG

PROPERTY ....Lotus..... LOCATION .....

NTS CODE ....62P-1..... HOLE NO. .....LQ-15.....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP .....-45°..... STARTED ..Sept 12/79...

ELEVATION ..... CORE .....NQ..... COMPLETED ..Sept 14/79...

SECTION ..... LOGGED BY ..R.Hill...

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		48.77m		-48°					
		121.31m		-50°					

HOLE NO. ...LC...
PAGE ...1...

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
0	2.44	Casing									
2.44	4.85	QFH Gneiss -minor pyrite veining -minor shearing									
4.85	7.99	FH gneiss - fine grained -sheared portion @ 51° to c/a -minor calcite veining with pyrrhotite at erratic angles to c/a (35-50°)									
7.99	8.26	QH gneiss -med. grained									
8.26	10.27	Hornblende gneiss - fine grained -abundant fine calcite veinlets -trace pyrrhotite -erratic quartz vein at low angle to c/a (57°) -numerous fractures throughout									
10.27	15.64	Hornblende - feldspar gneiss -fine calcite veining -minor shearing @ 24° to c/a									
15.64	16.67	Quartz vein -mottled grey-white cherty to glossy quartz -minor pyrite along fractures (veneer) -at low angle to c/a - 13°	3810 3811	15.64 16.25	16.25 16.67	0.61 0.42	nil nil				

RG 1657-75

HOLE NO. ....15.....
PAGE .....2.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
16.67	17.01	Sheared chloritic with abundant quartz lenses and calcite throughout	3812	16.67	17.01	0.34	.002				
17.01	18.41	Quartz vein · glossy to black fine grained quartz - pyrite disseminated along fractures and as veneer - minor milky quartz zone	3813 3814 3815	17.01 17.50 17.80	17.50 17.80 18.41	0.49 0.30 0.61	nil nil nil				
18.41	25.02	Sheared hornblende gneiss - chloritic - abundant erratic calcite veining throughout and trace pyrrhotite - some viens @ 32° to c/a - 22.06 : quartz vein @ 72° to c/a - trace pyrite									
25.02	27.00	Hornblende - feldspar gneiss - chlorite throughout - minor shearing throughout - abundant calcite veining									
27.00	27.71	Quartz hornblende gneiss - medium grained - abundant calcite veining throughout									
27.71	34.11	Hornblende feldspar gneiss - fine grained - finely sheared zone - abundant calcite veinlets throughout - poorly developed gneissosity - trace pyrite									

RG 1657-75

HOLE NO. ...45.....
PAGE .....2.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
34.11	34.17	Quartz vein -pyrite veneer along fracture -minor calcite along contact with wall rock @ 19° to c/a -trace pyrrhotite									
34.17	37.03	Hornblende gneiss - very fine grained -abundant calcite veins throughout -minor quartz veins throughout ~ parallel to c/a -disseminated pyrrhotite and trace pyrite									
37.03	41.33	Hornblende - feldspar gneiss -minor calcite veining @ 47° to c/a -minor epidote along fracture									
41.33	41.39	Quartz vein -highly carbonated in adjacent wallrock @ 55° to c/a									
41.39	44.07	Hornblende gneiss - fine grained -minor calcite veining									
44.07	46.06	Hornblende feldspar gneiss -minor shearing and calcite veining @ 38° to c/a -medium grained									
46.06	46.88	Hornblende gneiss -very fine grained -minor calcite veining									

RG 1657-75

HOLE NO. ..... 15 .....
PAGE ..... 4 .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
46.88	49.84	Hornblende feldspar gneiss - medium grained -minor calcite veining and trace quartz veining									
49.84	49.90	Quartz vein - minor calcite at contact @ 46° to c/a									
49.90	58.89	Hornblende feldspar gneiss -medium grained -minor shearing @ 60° to c/a -narrow feldspar - quartz veining parallel to gneissosity									
58.89	59.28	Sheared hornblende gneiss -very fine grained -narrow quartz vein @ 52° to c/a									
59.28	60.23	Quartz feldspar hornblende gneiss -narrow calcite veinlets ~ 60° to c/a									
60.23	63.55	Sheared qtz. hornblende gneiss -very fine grained -fine calcite veining -minor silicification and erratic qtz. blebs.									
63.55	63.67	Sheared - minor epidote - erratic silicificate	3816	63.55	63.67	0.12	.002				
63.67	63.70	Quartz vein -milky quartz @ 69° to c/a -trace chlorite	3817	63.67	64.01	0.34	nil				

RG 1657-75

HOLE NO. ....[redacted]15.....
PAGE .....3.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
63.70	64.62	Silicified QHG - erratic qtz. lenses and silicified zones - disseminated pyrite in silicified zones - minor calcite veining throughout @ 60-80° to c/a	3818 3819	64.01 64.31	64.31 64.62	0.30 0.31	nil .005				
64.62	75.16	Qtz. - feldspar - hornblende gneiss - minor calcite veining throughout @ 85° to c/a - minor fracturing throughout - epidote - 74.74 : calcite vein @ 10° to c/a - pyrite, chlorite									
75.16	75.93	Hornblende gneiss - fine grained with minor calcite veining									
75.93	81.44	Qtz - hornblende gneiss to QFHG - minor pyrite and epidote along fractures @ 30° to c/a									
81.44	82.69	Hornblende gneiss - fine grained with fine calcite veinlets									
82.69	82.72	Quartz vein - 15 mm wide - trace pyrite - @ 12° to c/a									
82.72	83.88	Hornblende gneiss - very fine grained - abundant fine calcite stringers and veinlets @ 65° to c/a									

RG 1657-75

HOLE NO. ....45.....
PAGE .....6.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
83.88	84.31	Quartz vein @ 19° to c/a - milky white mottled quartz - abundant pyrite veneer along fracture - fine clots of chlorite	38220	83.88	84.31	0.43	.002				
84.31	84.70	Sheared and silicified zone - disseminated subhedral pyrite and along fractures	38221	84.31	84.70	0.39	nil				
84.70	87.45	Hornblende gneiss - very fine grained - fine calcite veinlets - 85.28 } Qtz. veins ~10 mm @ 13° to c/a - 86.01 }									
87.45	87.72	Qtz. - feldspar - hornblende gneiss - minor epidote									
87.72	97.81	Qtz. - hornblende gneiss - minor epidote and calcite in fractures 45-70° to c/a - medium to fine grained - erratic narrow quartz veining									
97.81	100.77	Qtz. - hornblende gneiss - medium grained - trace epidote veining									

RG 1857-75

HOLE NO. .....5.....
PAGE .....1.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES
100.77	102.38	Qtz.-hornblende gneiss -medium to fine grained -narrow calcite veinlets -minor quartz veining with pyrrhotite @ 41° to c/a									
102.38	102.69	Highly sheared QHG @ 73° to c/a - abundant fine calcite stringers	3822	102.38	102.69	0.31	nil				
102.69	102.93	Silicified and carbonated -abundant qtz. lenses and stringers with fine pyrrhotite and chalcopyrite along fractures	3823	102.69	102.93	0.24	.002				
102.93	103.08	Calcite - chlorite schist - abundant subhedral pyrite to 4 mm. -minor quartz veining	3824	102.93	103.08	0.15	.002	tr			
103.08	103.33	Quartz -calcite vein - brecciated -sugary texture with abundant fine chlorite -disseminated tellurides and pyrite -@ 52° to c/a	3825	103.08	103.33	0.25	.002	.01			
103.33	103.48	Quartz - erratic brecciated appearance -abundant fine calcite in fractures -minor disseminated pyrite	3826	103.33	103.48	0.15	.005	.01			
103.48	103.94	Sheared and brecciated, silicified and chloritic zone -fine pyrite and trace pyrrhotite -abundant erratic calcite throughout	3827	103.48	103.94	0.46	.002				

RG 1657-75

HOLE NO. ....[redacted]/5.....
PAGE .....9.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
103.94	104.55	Sheared hornblende gneiss - chloritic schist -erratic calcite veinlet and qtz. calcite vein @ 45° to c/a -abundant disseminated pyrite especially in qtz. vein	3828	103.94	104.55	0.61	.002				
104.55	105.64	Sheared hornblende gneiss -abundant disseminated calcite and calcite veinlets -chlorite -trace pyrite in calcite	3829	104.55	105.16	0.61	.002				
105.64	106.31	Hornblende - feldspar gneiss - abundant disseminated calcite and calcite along fractures									
106.31	107.02	Sheared Qtz - hornblende gneiss - 106.47 - 106.53 - fine sugary calcite vein -shear @ 52° to c/a	3830 3831	106.31 106.59	106.59 107.02	0.28 0.43	nil .002				
107.02	110.00	Hornblende feldspar gneiss -minor chlorite throughout -trace disseminated pyrite and pyrite along fracture -minor fracturing									
110.00	112.68	Quartz hornblende to QFH gneiss -fine pyrite in fractures and disseminated									

RG 1657-75

HOLE NO. ....[redacted]15.....
PAGE .....1.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
112.68	-	Quartz epidote vein -pyrite veneer along fractures - 12 mm wide - @ 42° to c/a									
112.68	113.26	QHG - minor fracturing									
113.26	-	Quartz vein - milky quartz @ 61° to c/a - trace pyrite - minor calcite along contact of wall rock									
113.26	114.60	QFHG - minor qtz. rich zones in gneissosity									
114.60	-	Pyrite - calcite vein - abundant fine pyrite in calcite matrix ~ 13 mm wide - @ 50° to c/a									
114.60	117.93	QFHG - minor fracturing throughout - epidote and calcite									
117.93	117.96	Calcite - pyrite vein - medium grained subhedral pyrite in calcite matrix									
117.96	118.90	Qtz. Hornblende Gneiss - minor fracturing throughout									
118.90	119.21	Sheared QHG - abundant calcite vein and stringer and disseminated pyrite @ 56° to c/a	3832	118.90	119.21	0.31	nil				
119.21	121.31	QHG - minor fracture throughout - trace calcite									

RG 1657-75

ESSO MINERALS CANADA - DIAMOND DRILL HOLE LOG

PROPERTY ...Lotus..... LOCATION ...L.15.SE...0+05.SW.....

NTS CODE ...62P-1..... HOLE NO. .....LO-14.....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP .....-50°..... STARTED ...Sept.15/79.

ELEVATION ..... CORE .....AQ..... COMPLETED ..Sept.16/79.

SECTION ..... LOGGED BY ..R. Hall..

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		45.11m		55°					

HOLE NO. 40:16
PAGE 1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
0.00	1.22	Casing									
1.22	2.32	Quartz Hornblende Gneiss - minor fracturing									
2.32	2.38	Qtz vein - trace pyrite									
2.38	12.38	QHG - minor fracturing - trace epidote fractures at 54° to C/a									
12.38	12.74	QFG - trace pyrrhotite in fractures - minor calcite									
12.74	14.30	Hornblende Feldspar Gneiss - fine grained - fine calcite veinlets at 52° to C/a									
14.30	21.76	QFHG - minor epidote in fractures									
21.76	23.38	QFHG - Fe staining of feldspars - erratic calcite clots and veining - minor shearing @ 42° to C/a									
23.38	30.97	QHG @ 12° to C/a - trace epidote along fractures - minor shearing @ 32° to C/a									
30.97	31.36	QFHG - minor shearing - Fe staining of feldspars - minor calcite veining in shears @ 45-60° to C/a									
31.36	32.52	QFHG - abundant fine fracturing with epidote									
32.52	32.58	Shear zone with 15 m.m. qtz vein @ 30° to C/a									
32.58	35.51	FHG - abundant fractures - epidote and calcite and minor qtz on gneissosity									
35.51	36.12	Sheared Hornblende Gneiss - fine calcite along fractures - erratic qtz lenses	3833	35.51	36.12	0.61					
36.12	36.15	Silicified zone - fine pyrite veneer along fractures	3834	36.12	36.42	0.30	.002				
36.15	36.76	Highly sheared mafic chlorite - abundant disseminated calcite and calcite veining - erratic qtz lenses	3835	36.42	36.76	0.34	.005				

RG 1657-75

HOLE NO. 40-16
PAGE 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES (1.5 m)
36.76	36.97	Qtz vein fuchsite schist and silicified wallrock -glassy qtz lensing throughout -trace muscovite -fine crenulations in fuchsite	3836	36.76	36.97	0.21	.01	.01			
36.97	37.22	Qtz vein - black to grey charty quartz of mottled appearance -fine telluride and V.G. in fractures at 37.06m -pyrite veneer in fracturing	3837	36.97	37.22	0.25	.41				.07
37.22	37.34	Highly sheared -Fe staining -minor calcite, disseminated and in veinlets	3838	37.22	37.40	0.18	.002				
37.34	37.40	Qtz - Kspar veins - mottled grains -fine pyrite veneer and along fractures									
37.40	38.40	Highly sheared mafic -abundant fine calcite disseminated and in veinlets throughout -minor silicification -shear @ 66° to SG	3839 3840	37.40 38.01	38.01 38.40	0.61 0.39	.005 .005				
38.40	39.35	Hornblende feldspar - very fine grained and minor shearing -fine calcite veining									
39.35	45.11	QFHG - medium grained -fine epidote on fractures -minor Kspar - qtz veining									
	45.11	End of Hole									

RG 1657-75

ESSO MINERALS CANADA – DIAMOND DRILL HOLE LOG

PROPERTY ... Lotus ..... LOCATION .. 0+45.NW.... 0+05.SW..

NTS CODE ... 62P/1 ..... HOLE NO. ..... LO-17 .....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP ..... -50° ..... STARTED .. Sept/16/79 ..

ELEVATION ..... CORE .... AQ ..... COMPLETED .. Sept/17/79 ..

SECTION ..... LOGGED BY . R. Hall ...

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		48.16m		56°					

HOLE NO. 49:17[redacted]
PAGE 1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
0.00	1.22	Casing									
1.22	1.86	Quartz Hornblende Gneiss									
1.86	1.98	Sheared QHG - minor qtz veins with chalcopyrite and pyrrhotite @ 62° to Sa									
1.98	5.88	QFHG - minor fracturing - epidote and minor calcite									
5.88	6.04	Qtz vein - glassy white qtz with disseminated chlorite - trace calcite @ 59° to Sa									
6.04	9.97	QHG - fine fracturing - trace epidote and calcite at 38° to Sa									
9.97	10.42	Sheared QFHG - Fe staining of feldspars - minor epidote - shear at 24° to Sa									
10.42	11.22	QHG - fine fracturing									
11.22	11.55	Sheared QFHG @ 11° to Sa - Fe staining - fine calcite in fractures - minor epidote and trace chlorite									
11.55	14.60	QFHG - minor fracturing and Fe staining - trace epidote									
14.60	14.66	Sheared QHG - fine qtz vein @ 47° to Sa - trace epidote									
14.66	15.18	QHG - fine fractures - minor qtz - Kspar clots									
15.18	18.29	HFG - speckled appearance - fine calcite									
18.29	18.78	Sheared HFG - Fe stained - fine fracturing at angle to shear									
18.78	19.17	Chlorite schist @ 68° to Sa - fine grained with abundant disseminated subhedral pyrite - fine calcite throughout	3841	18.78	19.17	0.39	.005				

RG 1667-75

HOLE NO. 40-17
PAGE 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES
19.17	19.93	Qtz vein -glassy white qtz with disseminated chlorite and mottled grey-white portions -minor chlorite schist zones @ 46° to Sa	3842	19.17	19.63	0.46	nil				
			3843	19.63	19.93	0.30	nil				
19.93	23.38	Sheared hornblende gneiss ~ 55° to Sa -abundant disseminated calcite and fine calcite veinlets -minor Fe staining -minor zones of silicification -erratic qtz lensing and veinlets	3844	19.93	20.54	0.61	.002				
			3845	20.54	21.15	0.61	nil				
			3846	21.15	21.55	0.40	nil				
			3847	21.55	22.16	0.61	.002				
			3848	22.16	22.77	0.61	.002				
			3849	22.77	23.38	0.61	.002				
23.38	24.08	Qtz vein @ 51° to Sa -mottled grey white qtz - cherty to glassy -fine pyrite veneer along fractures -minor Kspar -minor fuchsite	3850	23.38	23.68	0.30	.002	.02			
			3851	23.68	24.08	0.40	.002	.005			
24.08	25.18	Sheared mafic -abundant fine calcite veins -minor silicification -trace disseminated pyrite	3852	24.08	24.69	0.61	nil				
25.18	31.79	QHG - fine fracturing - minor epidote along fractures									
31.79	32.25	Mafic dyke @ 38° to Sa -chlorite + ? - Fe staining -minor calcite veining									
32.25	35.88	QFHG - abundant fracturing -minor Fe staining of feldspars									
35.88	36.12	Sheared QHG - fine epidote along fractures @ 32° to Sa									
36.12	37.64	Qtz-feldspar gneiss -fine grained sugary texture with disseminated pyrite -sheared? -disseminated chlorite throughout -narrow HG zones 3mm wide @ 08° to Sa									

RG 1657-75

HOLE NO. 40-17
PAGE 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
37.64	38.07	Hornblende dyke @ 32° to Sa - fine grained sugary texture - narrow calcite veins									
38.07	38.59	Qtz-feldspar-chlorite - sugary texture - slightly sheared granite - pyrite veneer on fracture									
38.59	39.41	Chlorite shist and hornblende-feldspar - slightly sheared mafic gneiss - fine calcite veining									
39.41	44.17	QFHG - numerous fractures - narrow qtz veins at 14° to Sa - 12mm at 41.30 m - 15mm at 42.09 m - minor calcite veining									
44.17	44.65	Sheared matic gneiss - abundant disseminated calcite and calcite in fractures - minor silicification	3853	44.17	44.47	0.30	.005				
44.65	44.78	Qtz - calcite vein - sugary textured	3854	44.47	44.78	0.31	.01	.02			
44.78	45.08	Silicified shear - Fe staining - abundant erratic calcite along fractures @ 42° - trace pyrite veneer	3855	44.78	45.08	0.30	nil	.04			
45.08	45.69	Sheared matic @ 61° to Sa - minor Fe stains - abundant calcite along fractures and disseminated	3856	45.08	45.69	0.61	nil				
45.69	48.16	QHG - abundant fine fracturing									
	48.16	End of Hole									

RG 1857-75

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY ... Lotus ..... LOCATION .....

NTS CODE ... 62P/ ..... HOLE NO. ..... LO-18 .....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP ..... -50° ..... STARTED .....

ELEVATION ..... CORE ..... AQ ..... COMPLETED .....

SECTION ..... LOGGED BY . R. H. ...

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		57.2/m		-54°					

HOLE NO. ...LQ-18.....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
0	1.98	Casing									
1.98	12.92	Quartz feldspar hornblende gneiss - medium greined - narrow quartz veining and fracturing throughout @ 62° to c/a - minor pyrite in fractures - minor calcite veining									
12.92	12.98	Sheared Quartz feldspar hornblende gneiss - calcite vein in shear - trace pyrite @ 29° to c/a									
12.98	15.12	QFH gneiss - medium greined - minor shearing @ 55° to c/a - fine calcite - minor epidote along fracture									
15.12	15.18	Calcite - chlorite vein 50 mm - Fe stain and trace pyrite @ 42° to c/a									
15.18	17.07	QFH gneiss - medium greined - minor fracturing throughout - minor shearing @ 18° to c/a									

HOLE NO. ....40-18.....
PAGE .....2.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
17.07	-	Quartz vein -milky qtz. with minor Kspar ~10mm @ 55° to c/a									
17.07	19.36	QFH gneiss -minor fracturing -slight shearing and more abundant fracture over 19.23 - 19.36									
19.36	19.38	Qtz. vein -white glassy quartz -minor tourmaline -very fine grained in veinlet -trace fuchsite @ 35° to c/a	3857	19.23	19.54	0.31	nil				
19.38	20.79	Qtz. feldspar hornblende gneiss -minor fine epidote on fracture -minor Fe stain feldspar									
20.79	20.94	Sheared QFH gneiss -narrow (10 mm) Fe stain qtz. lense -Fe staining throughout -shear @ 73° to c/a									
20.94	22.37	QFH gneiss -minor chlorite -narrow fracture @ 62° to c/a									

HOLE NO. ....LO-18.....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
22.37	22.89	Monzonite to qtz. monzonite @ 47° to c/a -fine grained -trace pyrite in fracture @ 10° to c/a									
22.89	31.24	QFH gneiss -medium grained with minor fracturing throughout -minor shearing @ 72° to c/a -epidote and trace qtz. and fine calcite -minor chlorite									
31.24	31.39	Slightly sheared QFH gneiss -minor narrow qtz. vein 10 mm wide @ 28° to c/a -trace pyrite along edge -minor calcite in fractures									
31.39	35.17	QHG and QFHG -medium grained -minor fract. with fine calcite veinlets and Fe stain of feldspar in adjacent wallrock									
35.17	35.51	Feldspar hornblende gneiss -gabbroic -minor calcite fracture									
35.51	40.23	Qtz-feldspar-horn gneiss -medium grain -trace pyrite in fractures with epidote and calcite -iron staining adjacent to fractures									

HOLE NO. .....[illegible]-78.....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES
40·23	40·36	Sheared Qtz-felds-hbn gneiss @ 63° to c/a - minor calcite and trace cpy in fracture									
40·36	41·48	Sheared and silicified Qtz-felds-hbn gneiss -abundant fine calcite veins and trace pyrite									
41·48	41·76	Intensely sheared and silicified Qtz hbn gneiss @ 61° to c/a - fine calcite stringers and qtz lenses	3858	41·40	41·76	0·28	nil				
41·76	41·85	Brecciated quartz vein -very fine tellurides and calcite veins - abundant disem pyrite	3859	41·76	42·06	0·30	nil	.01			
41·85	43·25	Silicified and sheared gneiss - fine calcite veining -minor qtz lenses with trace pyrite	3860 3861	42·06 42·67	42·67 43·25	0·31 0·58	.002 nil				
43·25	43·31	Quartz lens - abundant calcite on contact with wallrock -minor pyrite and chalcopyrite	3862	43·25	43·56	0·31	nil				
43·31	46·06	Mafic gneiss - sheared -abundant calcite	3863 3864 3865 3866 3867	43·56 43·86 44·17 44·78 45·38	43·86 44·17 44·78 45·38 46·06	0·30 0·31 0·61 0·60 0·68	nil nil nil nil .002				
46·06	48·28	Feldspar hornblende gneiss -minor fracturing									
48·28	48·31	Qtz vein - Kspar and chlorite @ 34° to c/a - trace pyrite									
48·31	57·21	Qtz-feldspar-hornblende gneiss -minor fracturing									

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY ..... Lotos ..... LOCATION .....

NTS CODE ..... 62P-1 ..... HOLE NO. ..... LO-19 .....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP ..... -50° ..... STARTED .....

ELEVATION ..... CORE ..... AQ ..... COMPLETED .....

SECTION ..... LOGGED BY R. Hall

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		54.25m		-54°					

HOLE NO. ... 89-19 .....
PAGE ..... 1 .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)				AVERAGES
0	1.83	Casing									
1.83	8.72	Quartz feldspar hornblende gneiss - minor shearing @ 28° to c/a with quartz and epidote (Box dropped by drillers and core mixed to 7.92)									
8.72	8.75	Quartz vein 15 mm - with abundant pyrite along contact @ 19° to c/a	3869	8.63	8.93	0.30	.002				
8.75	14.97	Quartz feldspar hornblende gneiss - gneiss @ 22° to c/a - minor calcite in fracture - minor fracturing throughout - minor quartz veining 2-4 mm at irregular attitude - minor shearing									
14.97	15.45	Quartz Kspar vein or dyke @ 46° to c/a with minor chloritic clots. - very fine grained - Fe staining throughout									
15.45	16.03	Quartz feldspar Hornblende gneiss - minor shearing - trace pyrite									

HOLE NO. ...KD-19.....
PAGE .....2.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH				AVERAGES
16.03	-	Shear zone - narrow quartz vein with trace pyrite @ 48° to c/a								
16.03	20.79	QFH Gneiss - medium grained with minor shearing - minor epidote along fracture @ 50° to c/a								
20.79	21.64	FH Gneiss - fine grained and partially sheared - minor fracturing								
21.64	-	Quartz vein - 4mm wide - trace pyrite and chlorite along fracture @ 32° to c/a								
21.64	23.62	QH gneiss with QFH gneiss - fine fracturing throughout @ 35° to c/a (average) - ⊥ to gneiss - trace pyrite								
23.62	26.09	QFH gneiss - medium grained - minor Fe stain of feldspar - minor fracturing @ 39° to c/a - epidote-chlorite								

HOLE NO. ...40-19.....
PAGE .....3.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH				AVERAGES
26.09	26.79	Sheared QFH gneiss -highly foliated -Fe stain qtz. lenses in shear -fine calcite stringers throughout -trace pyrite								
26.79	31.21	QFH gneiss -medium grained -minor chlorite -minor fracturing with calcite veinlets								
31.21	31.36	QFH gneiss -Fe stain of feldspars -fractured throughout -fine qtz. vein (1 mm) @ 62° to c/a								
31.36	32.25	QFH gneiss -medium grained - granitic								
32.25	32.34	Qtz. epidote - calcite vein -bleded calcite with fine epidote and interstitial qtz. @ 32° to c/a								
32.34	32.77	QFH gneiss -minor fracturing -calcite veinlets								

HOLE NO. ...40.....
PAGE .....4.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)	Mo (%)		AVERAGES
32.77	32.89	Qtz. calcite vein -bleded calcite 2 mm with qtz. matrix -trace pyrite --minor epidote - lime green @ 50° to c/a									
32.89	34.72	Qtz. feldspar hornblende gneiss									
34.72	34.81	Qtz vein - abundant pyrite as veneer in fracture - vein @ 69° to c/a -minor pyrite	3869	34.66	34.96	0.30	.002				
34.81	36.85	Qtz. feldspar hornblende gneiss - poorly developed gneissosity									
36.85	37.09	Monzonite - qtz. feldspar hornblende -abundant clots of molybdenite	3870	36.85	37.09	0.24	.002		0.09		
37.09	37.92	Feldspar hornblende gneiss to - poorly developed gneissosity									
37.92	38.10	Quartz vein -3 vein ~ 35 mm wide @ 65° to c/a -milky to glassy qtz.	3871	37.92	38.10	0.18	.002				

HOLE NO. ... LO-19 .....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES
38.10	43.25	Granodiorite to QFH Gneiss - poorly developed gneissosity - fine fracturing throughout - minor Qtz. feldspar veinlets - minor calcite in fracture									
43.25	45.57	Highly sheared mafic gneiss - chlorite with abundant disseminated calcite - minor pyrite disseminated and along fracture	3872	43.25	43.86	0.61	nil				
			3873	43.86	44.44	0.60	.002				
			3874	44.44	45.02	0.58	nil				
		abundant disseminated pyrite	3875	45.02	45.32	0.30	.002				
			3876	45.32	45.57	0.25	.002				
45.57	45.90	Quartz vein - trace pyrite veneer - milky mottled qtz. - fine chlorite in fracture	3877	45.57	45.90	0.33	.29	.02			0.06
45.90	46.15	Highly silicified ~~with~~ wallrock and qtz. vein - trace pyrite	3878	45.90	46.15	0.25	.002	.01			
46.15	50.81	Qtz. feldspar hornblende gneiss - abundant fine calcite vein up to 2 mm - minor Fe stain of feldspar									

HOLE NO. .....KQ-11.....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
50.81	50.96	Mafic dyke -fine grained chlorite - amphibole -minor calcite veining @ 53° to c/a									
50.96	51.33	QFH - monzonite - medium to coarse grained.									
51.33	51.97	Mafic dyke - fine grained chlorite - amphibole @ 27° to c/a - trace pyrite									
51.97	54.25	QFH gneiss -minor Fe stain									
		End of Hole									

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY ...Lotus..... LOCATION .....

NTS CODE ...62P/..... HOLE NO. .....20-20.....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP .....-50°..... STARTED ..Sept 21/79...

ELEVATION ..... CORE .....~~BBB~~ AQ..... COMPLETED .Sept 22/79..

SECTION ..... LOGGED BY ..R. Hall..

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		48.16		-53°					

HOLE NO. ....LQ-20.....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES
0	7.32	Casing									
7.32	11.89	Highly sheared mafic gneiss - abundant calcite veinlets // to foliation - variable amount disseminated subhedral pyrite - minor erratic qtz. lenses throughout @ 43° to c/a - 11.25 qtz. vein - 9mm - pyrite - @ 52° to c/a	3879	7.32	7.92	0.60	.002				
			3880	7.92	8.53	0.61	.002				
			3881	8.53	9.17	0.64	.002				
			3882	9.17	9.82	0.65	.001				
			3883	9.82	10.46	0.64	.002	.02			
			3884	10.46	11.10	0.64	.002				
			3885	11.10	11.74	0.64	.002				
11.89	-	Qtz. vein - fine calcite along margin - abundant fine telluride and trace v.g. @ 51° to c/a	3886	11.74	12.13	0.39	.002	.03			
11.89	17.68	Highly sheared mafic gneiss - abundant fine calcite - minor qtz. lenses - zones of abundant pyrite in fracture and trace chalcopyrite 17.22 - qtz. vein @ 32° to c/a	3887	12.13	12.68	0.55	.002	.03			
			3888	12.68	13.29	0.61	.002	.03			
			3889	13.29	14.02	0.73	.002				
			3890	14.02	14.63	0.61	.002				
17.68	17.71	Highly silicified zone - Fe stain - pyrite veneer in fracture 55° to 58° to c/a	3891	17.56	17.86	0.31	.002				

HOLE NO. .....20-20.....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES
17.71	18.32	Highly sheared mafic - abundant disseminated calcite and calcite veins									
18.32	18.38	Heavy sulfides across 10 mm adjacent to qtz. vein. - po, py, trace cpy @ 29 to c/a	3892	17.86	18.47	0.61	.002				
18.38	23.35	Highly sheared mafic - chlorite - calcite - abundant calcite veinlets throughout @ 34° to c/a - py. qtz in fractures - minor zones of silicification - abundant calcite	3893 3894 3895 3896	21.21 21.82 22.43 23.04	21.82 22.43 23.04 23.35	0.61 0.61 0.61 0.31	.002 .002 .002 .002				
23.35	23.56	Quartz vein @ 37° to c/a (17.78 cm) - mottled grey-white qtz. - fine telluride along fractures and minor disseminated	3897	23.35	23.56	0.21	.002	.01			
23.56	23.99	Qtz. feldspar hornblende gneiss - minor fracturing and shearing - abundant fine calcite veinlets	3898	23.56	23.99	0.43	.002				
23.99	27.07	Qtz. feldspar hornblende - medium grained - erratic fine calcite @ 58° to c/a									

HOLE NO. ... LO-20 .....
PAGE ..... 2 .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES (1.5m)
27.07	27.37	Sheared QFH gneiss - fine stringers of py. - minor milky qtz. vein 12 mm. @ 28° to c/a	3899	27.07	27.37	0.30	.002				
27.37	30.82	QFH gneiss - minor shearing @ 46° to c/a - abundant fine calcite veinlets - fine pyrite in fractures									
30.82	30.88	Fracture zone - glassy qtz. clot with subhedral py. and trace Kspar									
30.88	32.77	Kspar - qtz. - hornblende gneiss - minor shearing throughout - fine calcite veining									
32.77	33.83	Highly sheared mafic schist chlorite - calcite - disseminated calcite and calcite stringers	3900 3901	32.77 33.38	33.38 33.83	0.61 0.45	.002 .002				
33.83	35.08	Highly sheared mafic schist { @ 72° to c/a { @ 67° to c/a - abundant calcite - qtz. lenses - abundant disseminated subhedral py. up to 6mm	3902 3903 3904 3905	33.83 34.14 34.44 34.75	34.14 34.44 34.75 35.08	0.31 0.30 0.31 0.33	.005 .01 .02 .04	.05 .06 .01 .05			0.02

HOLE NO. .....40-20.....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES
35.08	35.66	Qtz. vein - milky mottled qtz. - 35.08 - 35.14 abundant dissem. telluride - 35.60 - 35.66 fine dissem. telluride and trace v.g. and abundant calcite	3906 3907	35.08 35.39	35.39 35.66	0.31 0.27	.02 .04	.01 .05			
35.66	35.75	Mafic schist - highly sheared									
35.75	35.78	Qtz. vein - glassy qtz. @ 66° to c/a - 50 cm wide									
35.78	36.03	Sheared mafic schist - abundant fine calcite stringers and veinlets - abundant fracturing	3908	35.66	36.03	0.37	.002				
36.03	48.16	Qtz. feldspar hornblende - minor calcite veining throughout @ 48° to c/a and narrow qtz. vein @ 38° to c/a - medium to fine grained - minor shearing									
48.16	-	End of Hole									

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY ..... Lotus ..... LOCATION .....

NTS CODE .... 62P-1 ..... HOLE NO. ..... LO-21 .....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP .... -45° ..... STARTED . November 5/79 ..

ELEVATION ..... CORE .... AQ ..... COMPLETED . November 6/79 .

SECTION ..... LOGGED BY . R. Hall ...

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		79.25m		-51°					

HOLE NO. ..20-21.....
PAGE .....4.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
0	1.83	Casing									
1.86	6.77	Hornblende gneiss - fine grain hornblende gneiss with numerous fine calcite veinlets @ 29° to c/a									
6.77	7.80	Qtz-felds-hornblende gneiss -blue gtz and Kspar -poorly develop gneissosity -trace calcite									
7.80	19.87	Qtz-hornblende-plagioclase gneiss -"speckled" appearance - minor shearing and calcite @ 42° to c/a - meta diorite									
19.87	23.59	Qtz-horn-plag gneiss - sheared -very fine grain with erratic blue gtz lenses parallel to shear @ 43° to c/a -minor silicification									
23.59	23.84	Highly sheared and silicified zone @ 78° to c/a -iron stain gtz -minor muscovite in fractures									
23.84	26.82	Hornblende-chlorite-calcite gneiss -very fine grain -numerous fine calcite veinlets									
26.82	27.16	Qtz-hornblende-chlorite-calcite gneiss -narrow fractures parallel to c/a -minor pyrrhotite and chalcopyrite (1 mm wide)									
27.16	33.50	Qtz-hornblende gneiss -fine calcite veinlets with minor gtz lenses and blebs -trace pyrite and chalcopyrite in fractures of calcite -very fine grain									

HOLE NO. ...20-21.....
PAGE .....4.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH	Au (oz/ton)	Ag (oz/ton)			AVERAGES
33.50		Quartz vein @ 42° to c/a -15mm wide -trace pyrite									
33.60	45.84	Qtz- hornblende gneiss -very fine grain with sheared appearance -erratic qtz-calcite lenses and stringers parallel to remnant gneissosity -very fine dissem. pyrite -bleached zones with dissem. epidote									
45.84	45.87	Qtz- calcite vein -erratic chloritic blebs @ 68° to c/a									
45.87	51.69	Qtz- hornblende gneiss -fine grain with numerous calcite veinlets and blue qtz blebs and lenses along gneissosity									
51.69	53.52	Qtz- Kspar - hornblende gneiss - sheared granodiorite -erratic sugary calcite lenses @ 44° to c/a -minor cpy and py in qtz lenses									
53.52	56.27	Mafic gneiss- highly sheared -remnant qtz and feldspar phenocrysts -abundant erratic calcite stringers and blebs -minor pyrite throughout									
56.27	56.88	Quartz vein @ 46° to c/a -white massive to milky qtz -narrow mottled grey zone @ 56.27 ~~massive~~ w/ pyrite tellurides and visible gold in fractures	3924	56.24	57.0	0.76	3.51	0.17			
56.88	57.94	Sheared mafic gneiss -dissem. subhedral pyrite -finely dissem. calcite									

HOLE NO. ...Lo-21.....
PAGE .....3.....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH				AVERAGES
57.94	58.16	Quartz vein at 10° to c/a true width approx 4cm wide								
58.16	58.23	Mafic gneiss - highly sheared -trace pyrite								
58.23	58.37	Quartz vein -milky white at 26° to c/a - fine gold and telluride throughout	NOT SAMPLED							
58.37	73.27	Mafic gneiss - fine grain and sheared with disseм. pyrite -abund. calcite stringers - sugary and massive - foliated at 80° to c/a								
73.27	74.83	Mafic schist -silicified chlorite schist -numerous wide calcite veins parallel to c/a -very fine matrix								
74.83	75.32	Mafic gneiss - highly sheared -numerous calcite veinlets -disseм pyrite and along fractures @ 18° to c/a								
75.32	77.82	chlorite schist -very fine grain with abundant calcite stringers								
77.82	79.25	Fault gouge -chlorite-serpentine schist -intensely foliated at 28° to c/a -trace pyrite								
	79.25	END OF HOLE								

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY ... Lotus ..... LOCATION .....

NTS CODE .... 62P-1 ..... HOLE NO. .... LO-22 .....

LATITUDE ..... AZIMUTH ..... PURPOSE .....

DEPARTURE ..... DIP ..... -45° ..... STARTED . Oct. 31/79 . . .

ELEVATION ..... CORE ..... AQ ..... COMPLETED . Nov. 1/79 . . .

SECTION ..... LOGGED BY . R.S. Hall .

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.
		71.93m		-43°					

HOLE NO. ....~~6~~-22.....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
0	14.02	Casing									
14.02	19.60	Chloritic hornblende gneiss -very fine grain with abund calcite bands dark siderite/ankerite throughout minor subhedral pyrite - narrow quartz bands									
19.60	24.72	Chlorite schist -highly sheared and very fine grain -abund. iron stained calcite -irregular foliation but generally subparallel to c/a -fine pyrite throughout									
24.72	25.08	Quartz vein -subparallel to core axis (5-7°) -milky grey cherty quartz -trace pyrite									
25.08	26.40	Chlorite-carbonate schist @ 10° to c/a									
26.40	27.43	Quartz stringers - -erratic quartz lenses in chlorite schist @ 29° to c/a									
27.43	29.90	Chlorite-carbonate schist -very fine grain with abundant carbonate									
29.90	30.44	Quartz vein @ 25° to core axis -cherty grey quartz with minor K-spar -abund calcite in fractures -trace pyrite									

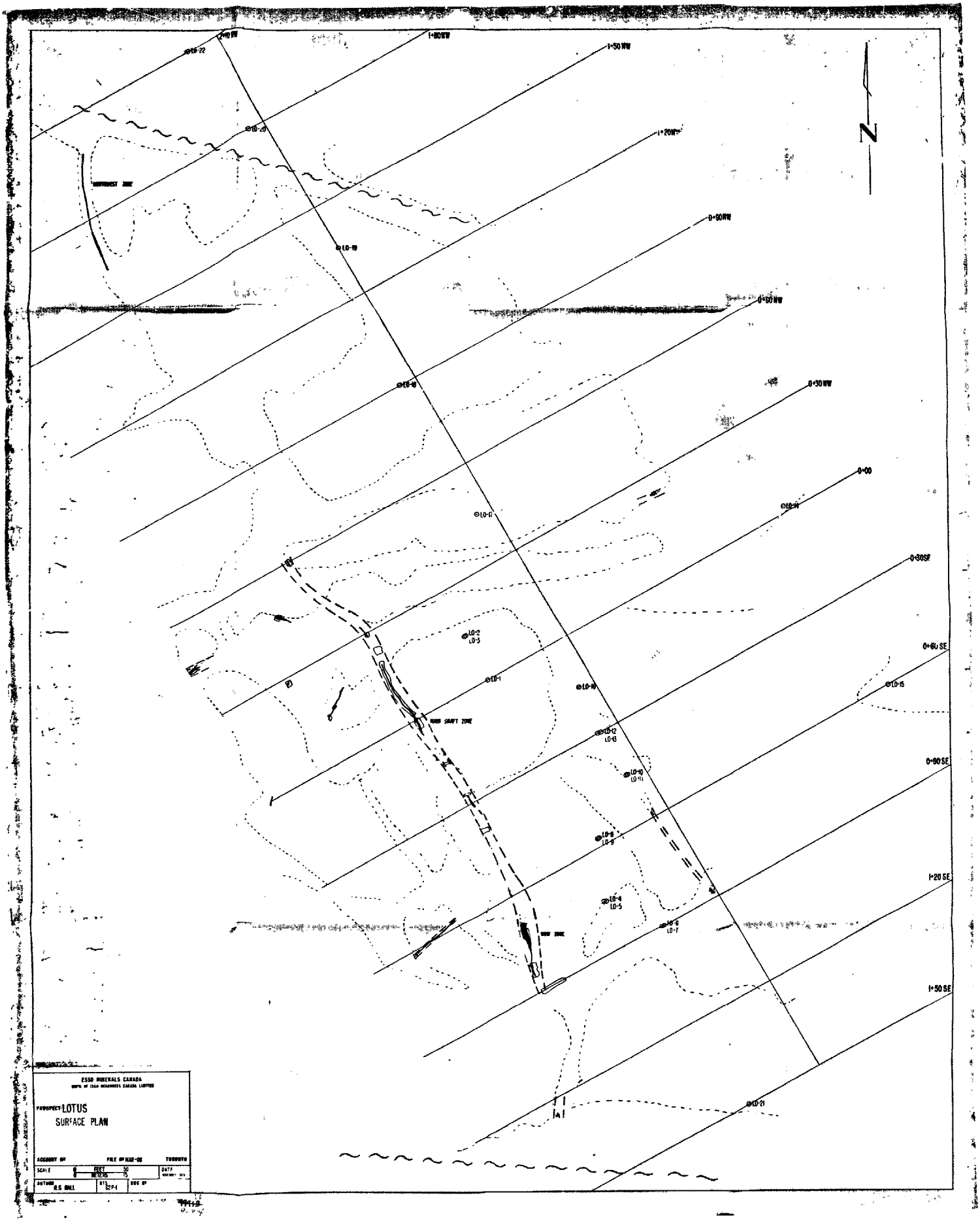
RG 1657-75

HOLE NO. ....40-22.....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
30.44	35.66	Chlorite - carbonate schist e 24° to c/a - zones of Fe stain on fractures									
35.66	36.30	Quartz veining in chlorite schist - irregular silicified quartz veins at 36° to c/a - abund fine calcite adjacent to contact - trace pyrite									
36.30	57.82	Chlorite - carbonate schist - abundant fine calcite throughout - zones of intense Fe stain - granular texture - erratic fine qtz veins throughout									
57.82	55.66	Chlorite gneiss - very fine grain - abundant fine calcite veinlets - erratic qtz - K-spar e 18° to c/a - fine disseminated pyrite									
55.66	63.52	Chlorite - carbonate schist - interlaminated chlorite schist and sugary calcite parallel to core axis - numerous fine quartz leads - trace pyrite - zones of intense Fe staining									
63.52	63.95	Chlorite schist with wide erratic silicified quartz lenses at low angle to core axis trace pyrite - fine calcite on contacts									
63.95	66.23	Chlorite - carbonate schist - abundant Fe staining - granular and ground core									

HOLE NO. ...LQ-22.....
PAGE .....

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES NO.	FROM	TO	WIDTH					AVERAGES
66.23	68.24	Chlorite schist with wide qtz-calcite lenses -trace pyrite -oriented @ 32° to cl'									
68.24	69.43	Quartz vein -sugary grey quartz -abund. fine disseminated calcite									
69.43	71.93	Chlorite carbonate schist -minor fe staining -ground core - very highly foliated -abundant fe stain calcite									
		END OF HOLE									



ESSO MINERALS CANADA

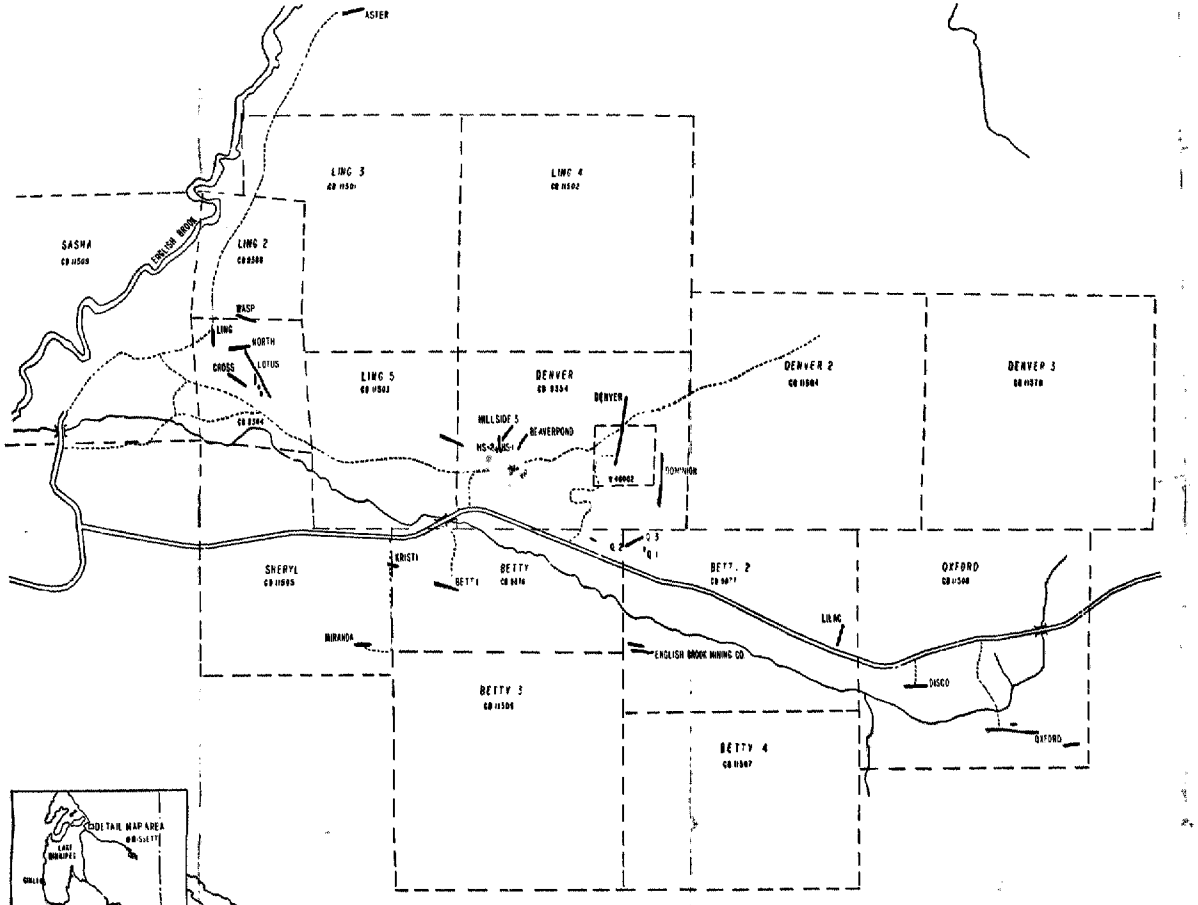
PROSPECT LOTUS

SURFACE PLAN

SCALE 0 FEET 50 / 0 METERS 15

AUTHOR R.S. BULL

DRG. NO. SLP-1



CLAIM LINE - ALL CLAIM BLOCKS STAKED & OWNED BY ESSO MINERALS CANADA

VEIN

ESSO MINERALS CANADA
DIVN. OF ESSO RESOURCES CANADA LIMITED

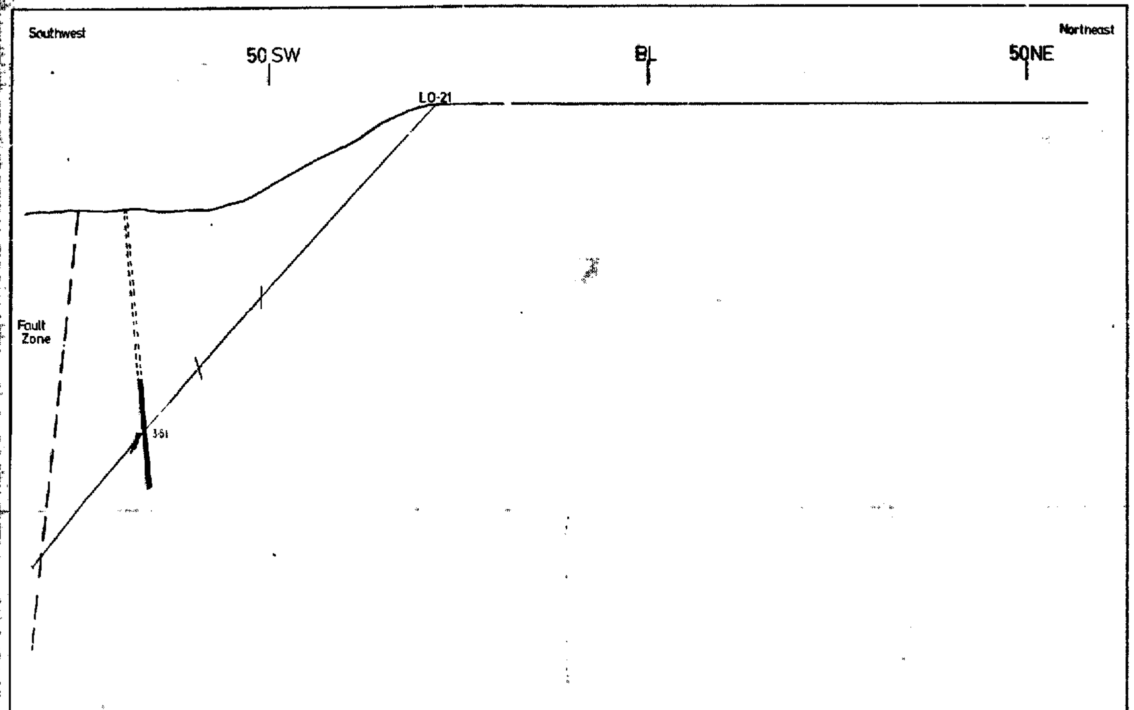
PROSPECT ENGLISH BROOK REGION
GOLD BEARING VEIN SYSTEMS

ACCOUNT Nº M-198 | FILE Nº MAN 08 | TORONTO

SCALE 0 800 M 1/2 MILE | DATE 10/79

AUTHOR R.S. HALL | NTS 62 P/1 | DWG Nº

24X



ESSO MINERALS CANADA
DIVN. OF ESSO RESOURCES CANADA LIMITED

PROSPECT **LOTUS**

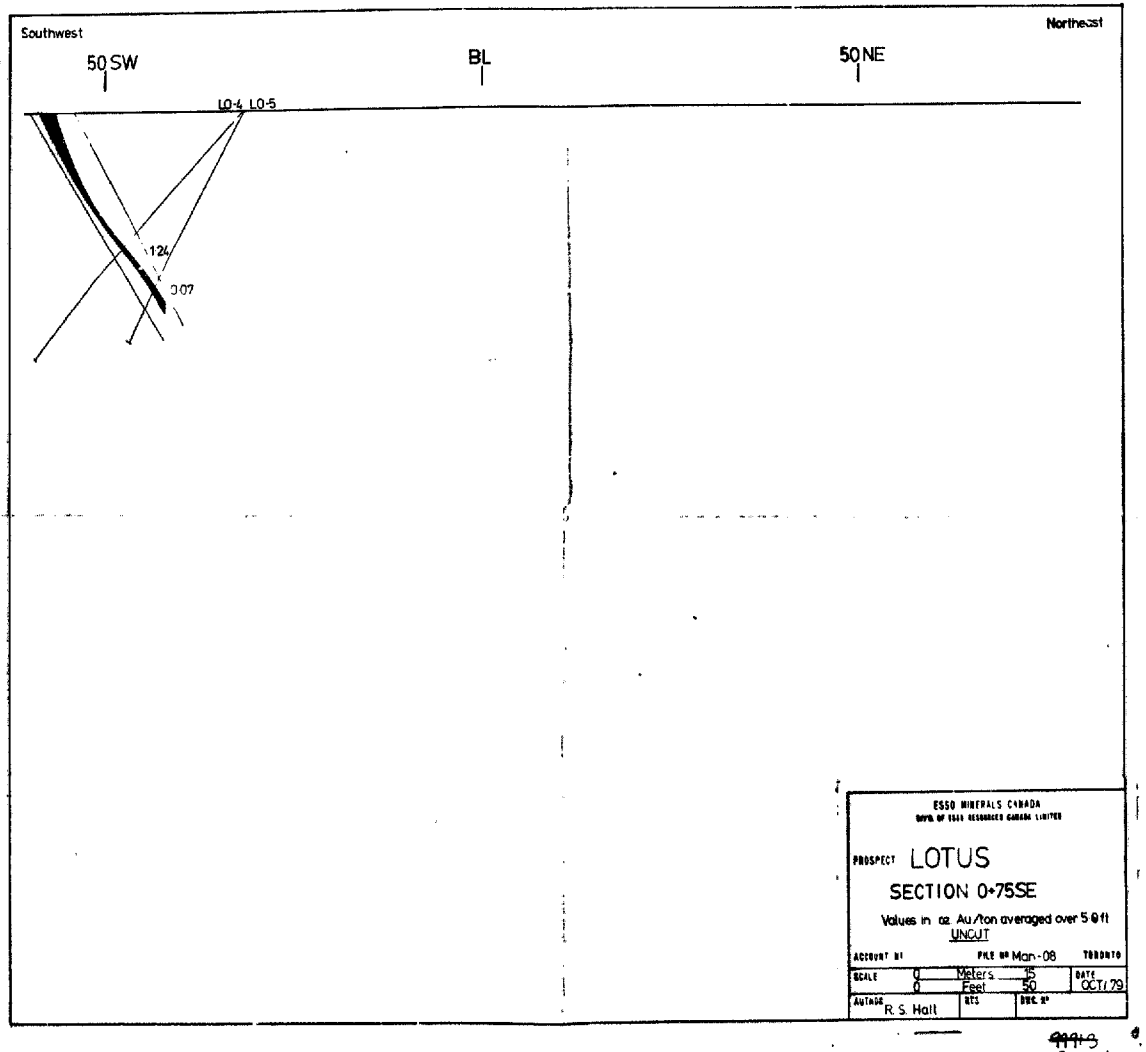
SECTION 1+50 SE

Values in oz. Au/ton averaged over 5·0 ft
UNCUT

ACCOUNT Nº	FILE Nº Man-08	TORONTO	
SCALE	0 Meters 15 / 0 Feet 50	DATE Nov/79	
AUTHOR R. S. Hall	NTS	DWG Nº	

~~99913~~
92914

20X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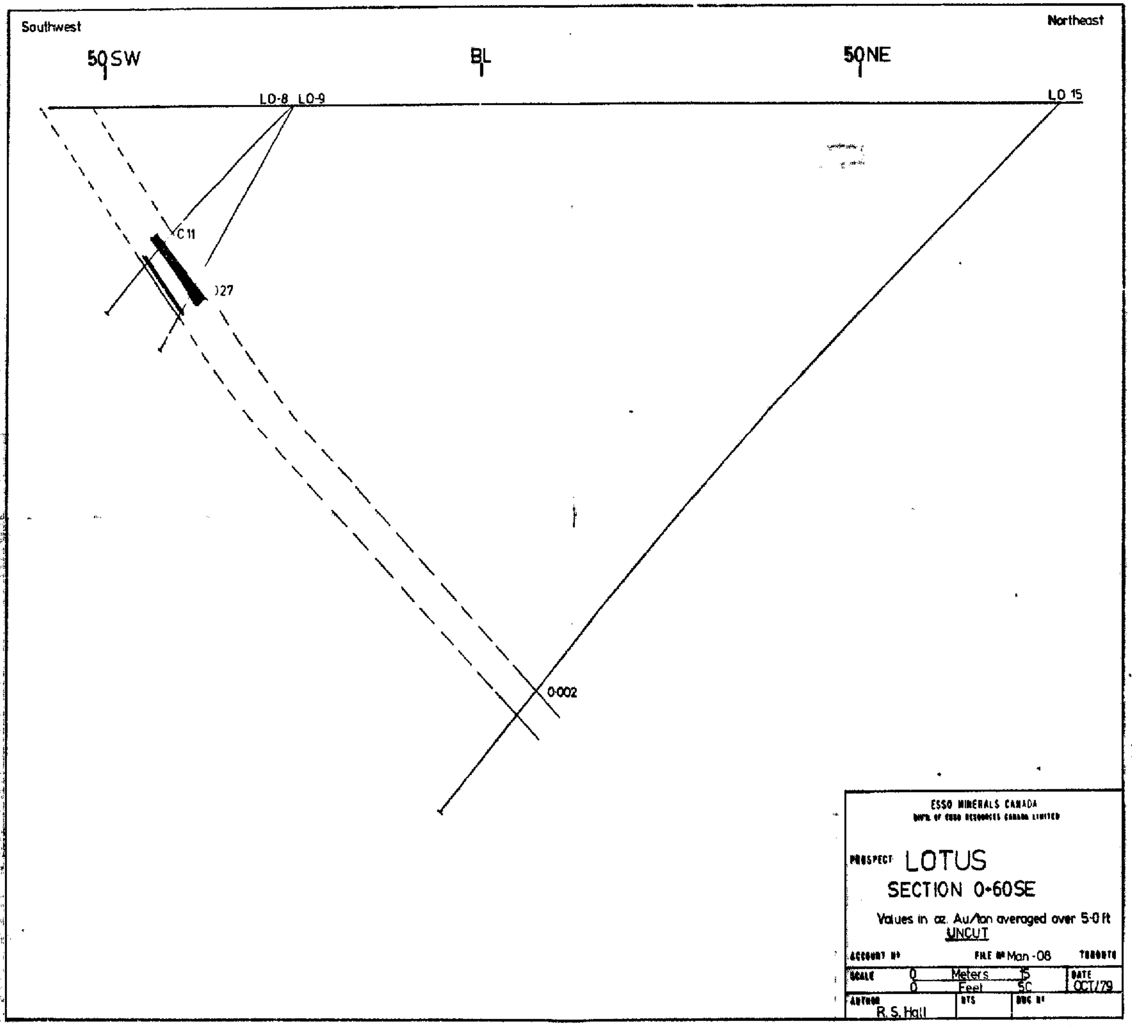
Northeast
50 SW
BL
50 NE
LO-4 LO-5
.124
.007
ESSO MINERALS CANADA
PROSPECT LOTUS
SECTION 0+75SE
Values in oz. Au/ton averaged over 5 @ ft
UNCUT
ACCOUNT #
FILE # Man-08
TORONTO
SCALE 0 Meters 15
0 Feet 50
DATE OCT/79
AUTHOR R. S. Hall
DWG. #

20X



ESSO MINERALS CANADA
DIV'N. OF ESSO RESOURCES CANADA LIMITED

PROSPECT LOTUS

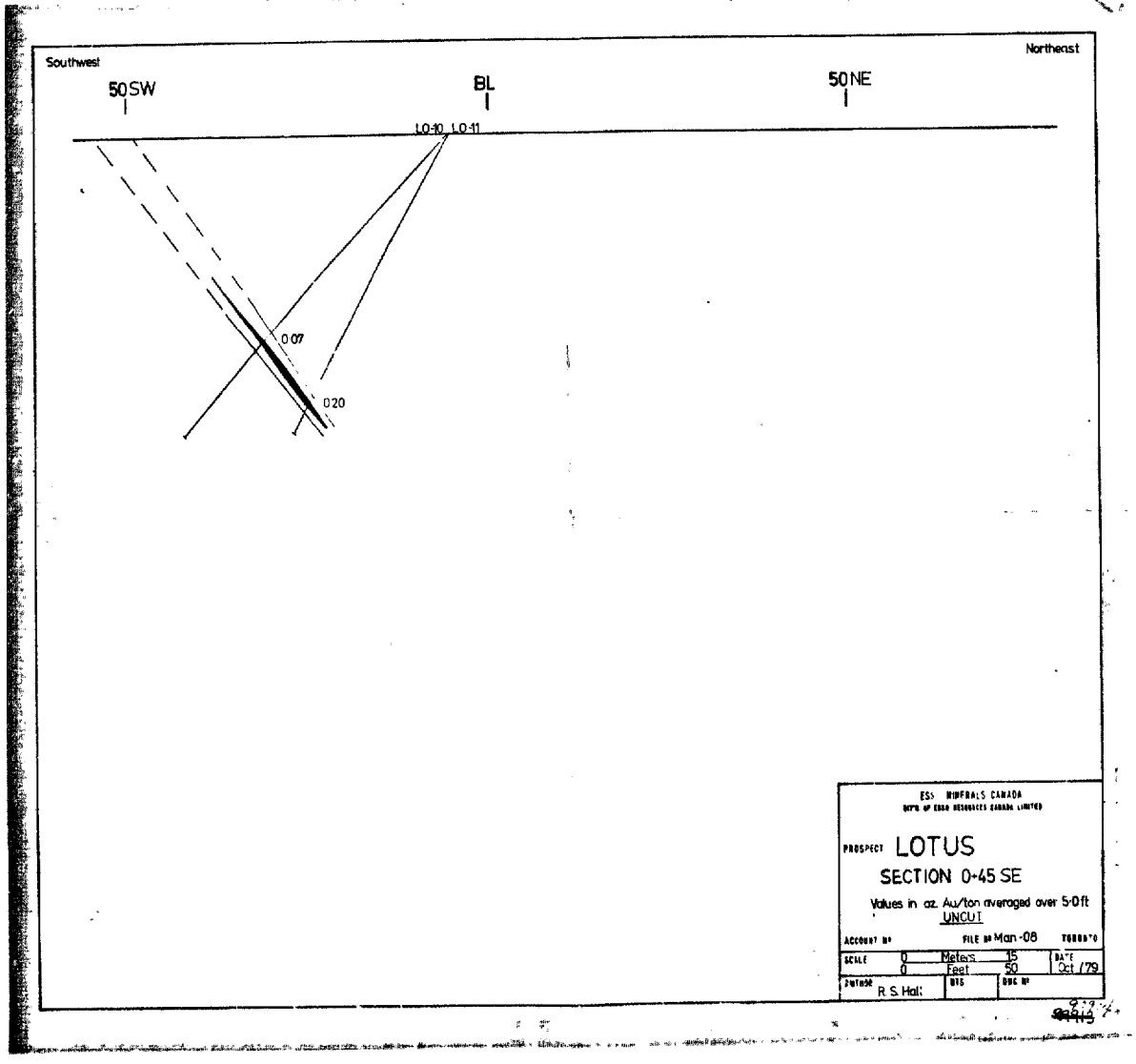
SECTION 0+60SE

Values in oz. Au/ton averaged over 5.0 ft
UNCUT

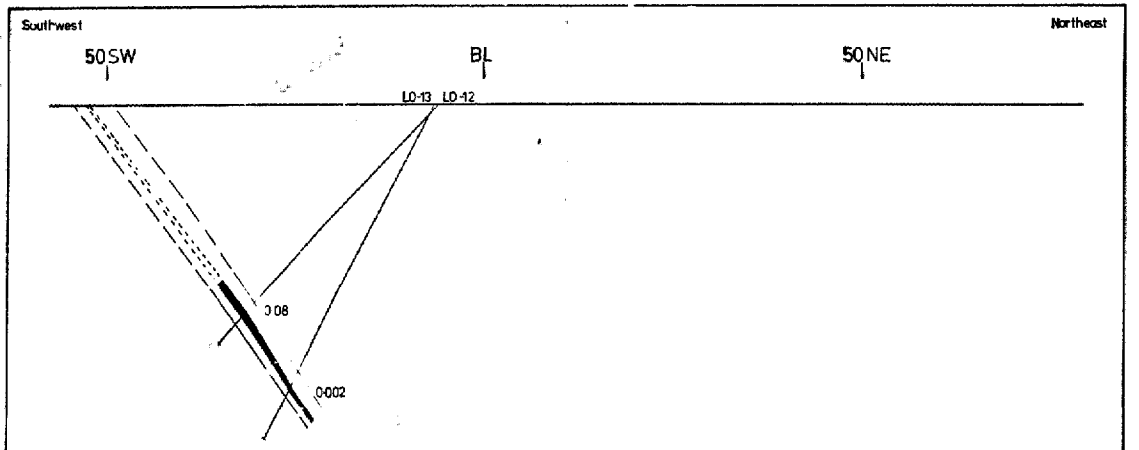
ACCOUNT Nº	FILE Nº Man-08	TORONTO
SCALE 0 Meters 15 / 0 Feet 50		DATE OCT/79
AUTHOR R.S. Hall	NTS	DWG Nº

92914

20X


Southwest
Northeast
50SW
BL
50NE
LO-10
LO-11
0.07
0.20
ESS MINERALS CANADA
PROSPECT LOTUS
SECTION 0+45 SE
Values in oz. Au/ton averaged over 5.0ft
UNCUT
FILE # Man-08
SCALE 0 Meters 15
0 Feet 50
DATE Oct /79
DRAWN R. S. Hall
DWG #

20X



ESSO MINERALS CANADA
DIVN. OF ESSO RESOURCES CANADA LIMITED

PROSPECT: LOTUS

SECTION 0+30SE

Values in oz Au/ton averaged over 5.0 ft
UNCUT

ACCOUNT NO | FILE NO Man-08 | TOWNSHIP

SCALE	0 Meters 15 0 Feet 50		DATE Oct/79
AUTHOR R S Hall	NTS	DDH NO	

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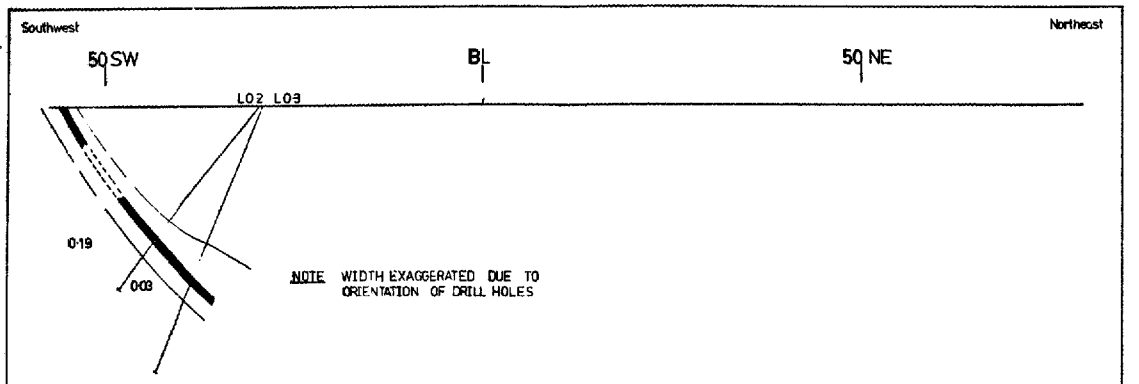
92 I/1

20X



NOTE WIDTH EXAGGERATED DUE TO ORIENTATION OF DRILL HOLES

ESSO MINERALS CANADA
A DIV. OF ESSO RESOURCES CANADA LIMITED

PROSPECT LOTUS

SECTION 0+15NW

Values in oz Au/ton averaged over 5.0 ft
UNCUT

ACCOUNT NO. FILE NoMAP 08 TORONTO

SCALE	0 Meters 15		DATE
	0 Feet 50		OCT/79
AUTHOR R. S. Hall	DFS	DWG NO	

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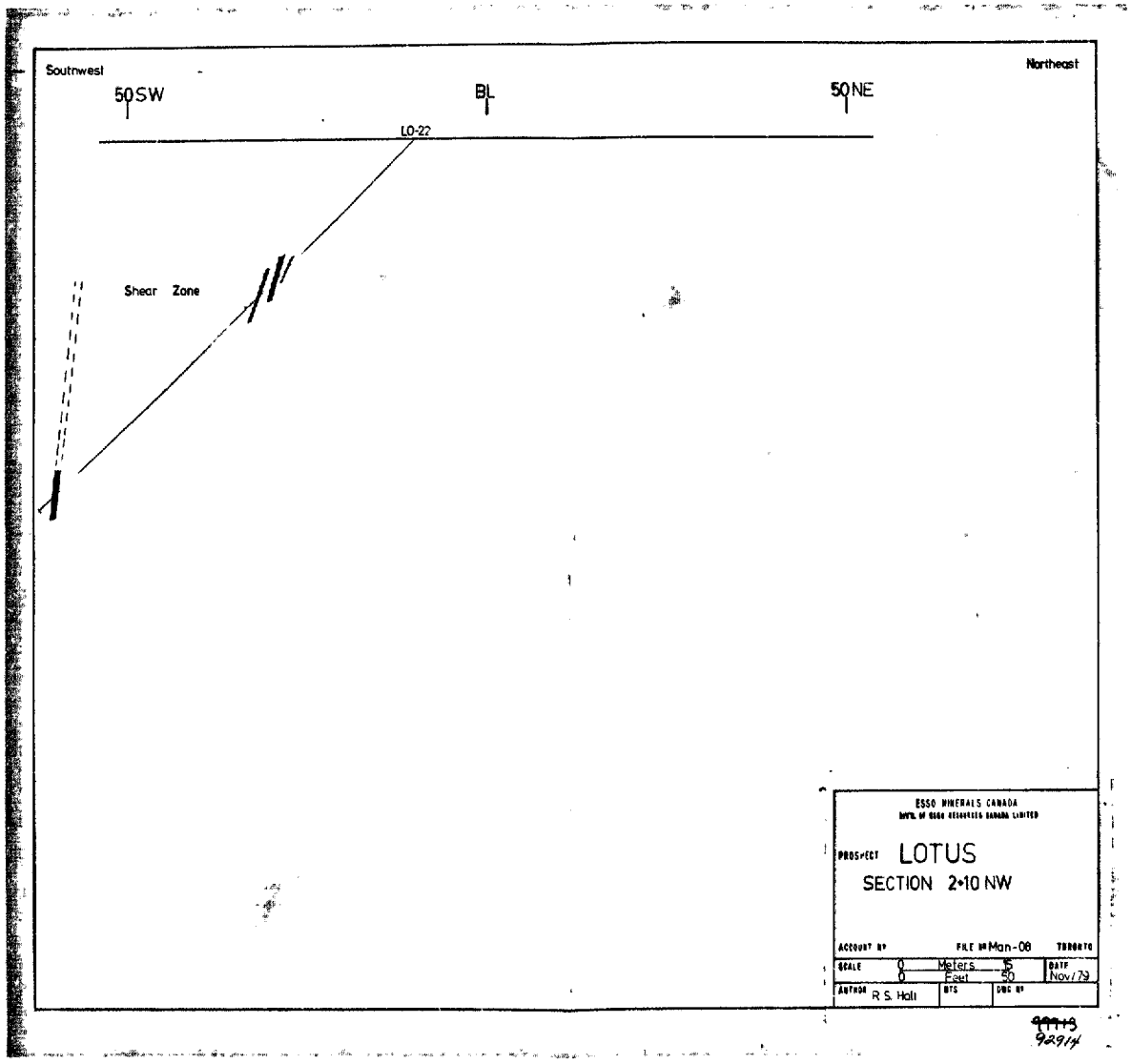
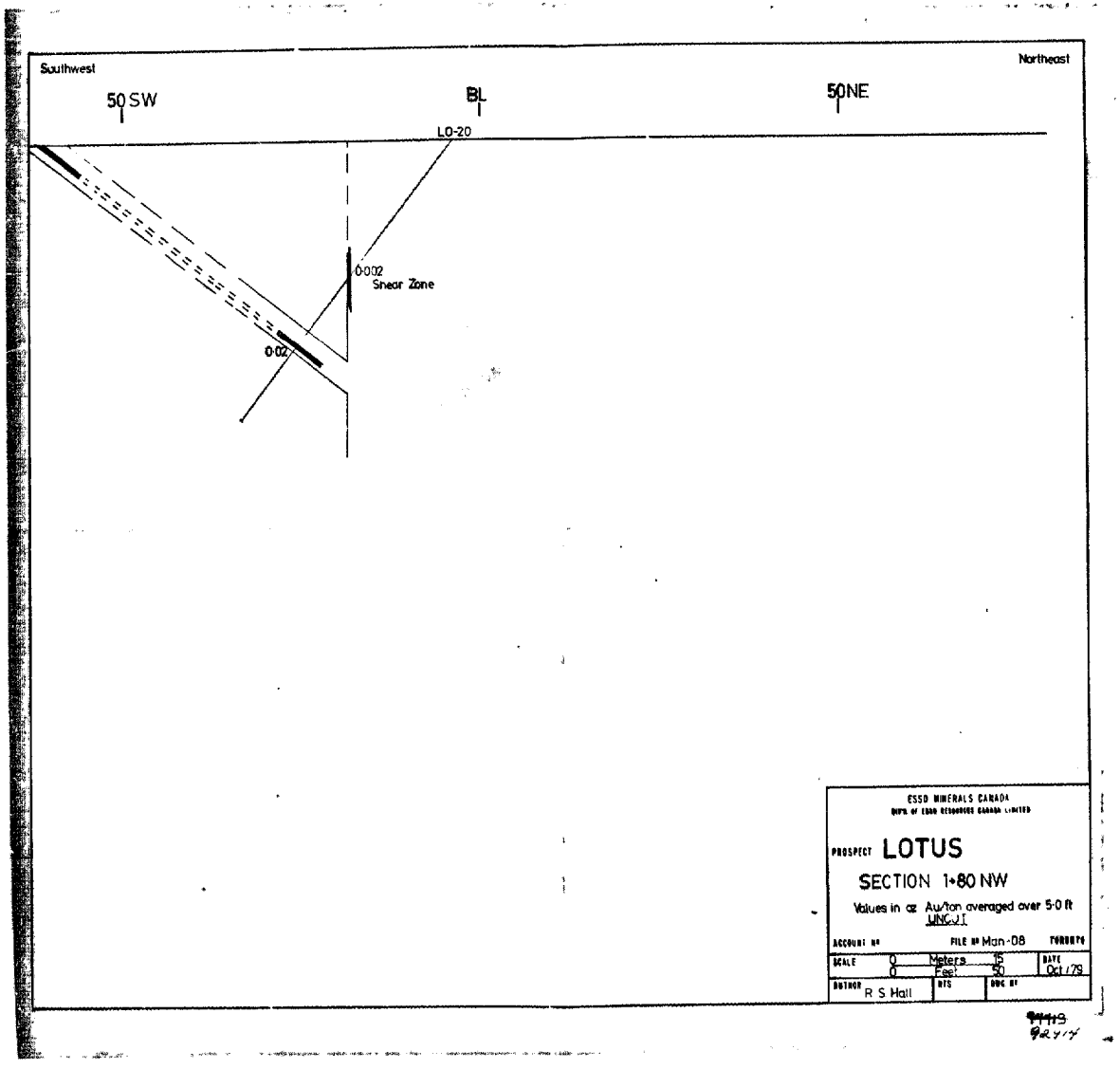
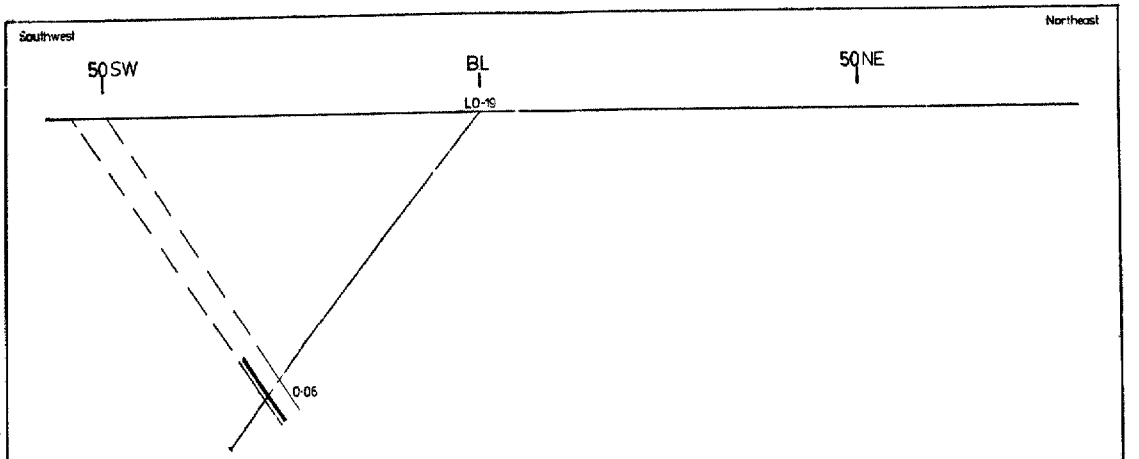
92F/7


Southwest
Northeast
50SW
BL
50NE
LO-22
Shear Zone
ESSO MINERALS CANADA
PROSPECT LOTUS
SECTION 2+10 NW
ACCOUNT #
FILE # Man-08
TORONTO
SCALE 0 Meters 15
0 Feet 50
DATE Nov/79
AUTHOR R.S. Hall
DRG #
92914

20X


Southwest
Northeast
50 SW
BL
50 NE
LO-20
0·002
Shear Zone
0·02
ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED
PROSPECT LOTUS
SECTION 1+80 NW
Values in oz Au/ton averaged over 5·0 ft
MNC.VI
ACCOUNT No
FILE No Man-08
TORONTO
SCALE 0 Meters 15
0 Feet 50
DATE Oct/79
AUTHOR R S Hall
DTS
DRG No

20X



ESSO MINERALS CANADA
A DIV. OF ESSO RESOURCES CANADA LIMITED

PROSPECT LOTUS

SECTION 1+35 NW

Values in oz Au/ton averaged over 5.0 ft
UNCUT

ACCOUNT #		FILE # Man-08	TORONTO
SCALE	0 Meters 15		DATE Oct/79
	0 Feet 50		
AUTHOR R S Hall	DFS	DOC #	

~~9913~~
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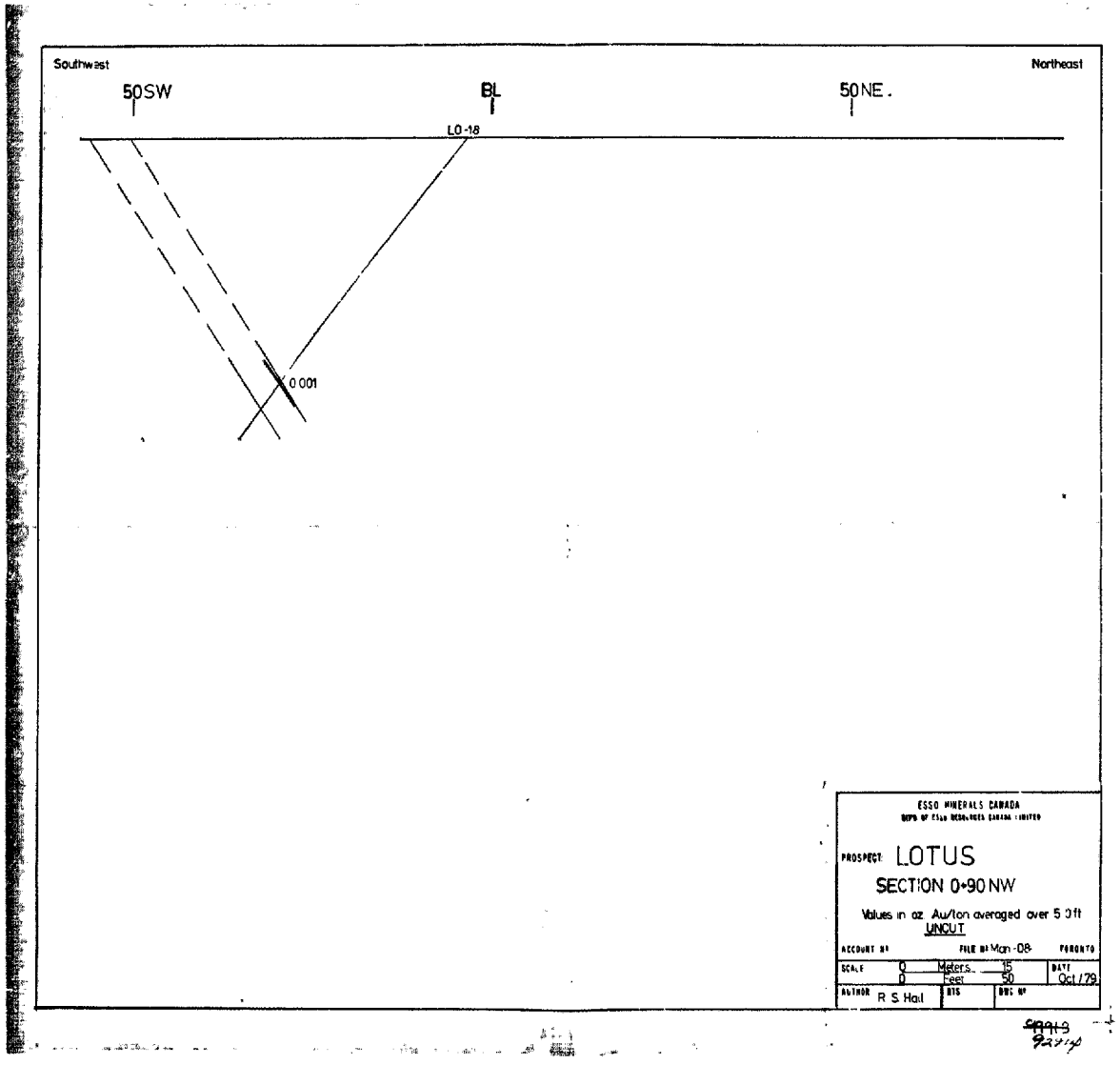


ESSO MINERALS CANADA
A DIVISION OF ESSO RESOURCES CANADA LIMITED

PROSPECT: LOTUS

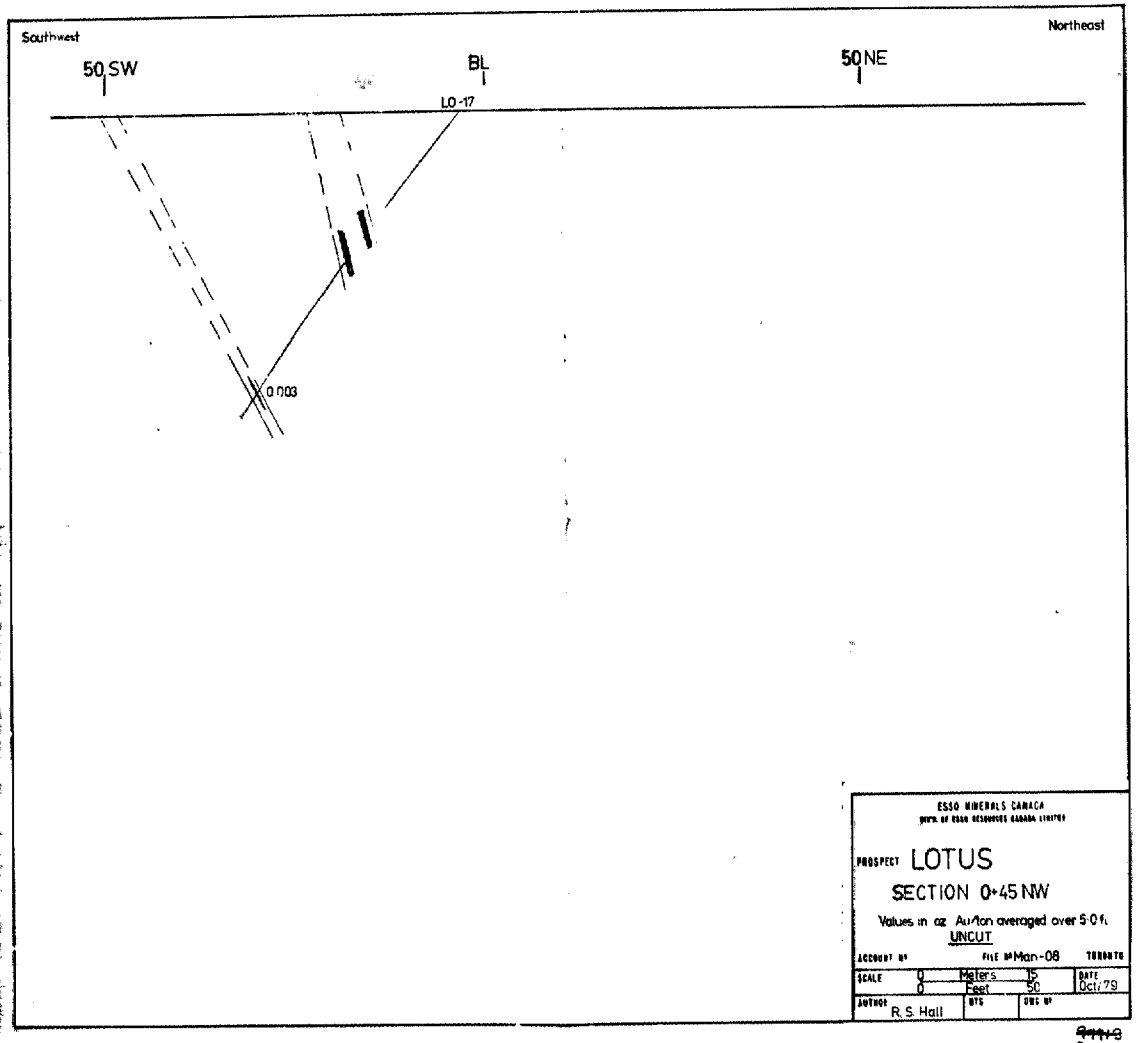
SECTION 0+90 NW

Values in oz. Au/ton averaged over 5.0 ft
UNCUT

ACCOUNT No. | FILE No. Man-08 | TORONTO

SCALE	0 Meters 15 0 Feet 50		DATE Oct./79
AUTHOR R. S. Hall	DTS	DWG No.	

20X



ESSO MINERALS CANADA
DIVN. OF ESSO RESOURCES CANADA LIMITED

PROSPECT LOTUS

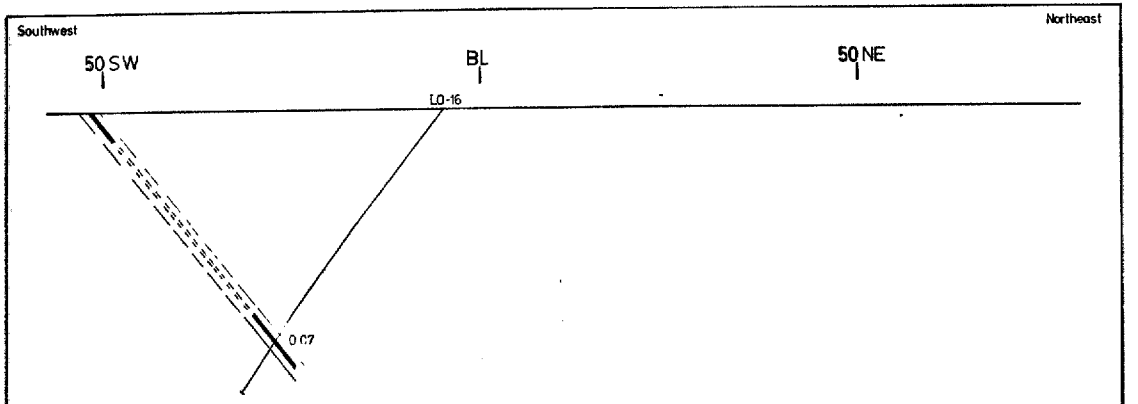
SECTION 0+45 NW

Values in oz Au/ton averaged over 5.0 ft.
UNCUT

ACCOUNT No	FILE No Man-08	TORONTO
SCALE 0 Meters 15 / 0 Feet 50		DATE Oct/79
AUTHOR R.S. Hall	DTS	DWG No

~~9913~~
9291/4

20X



ESSO MINERALS CANADA
DIVN OF ESSO RESOURCES CANADA LIMITED

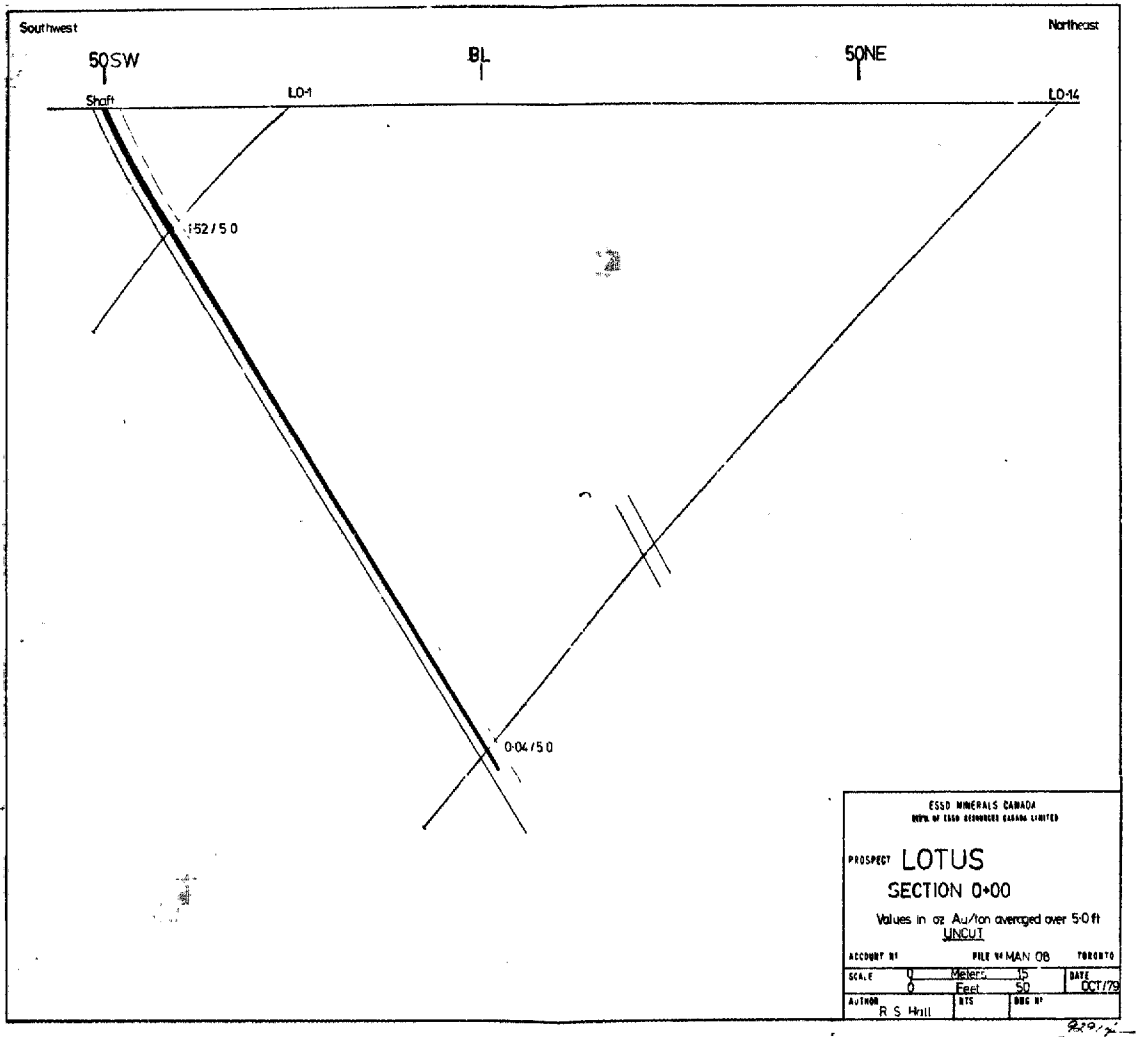
PROSPECT: LOTUS

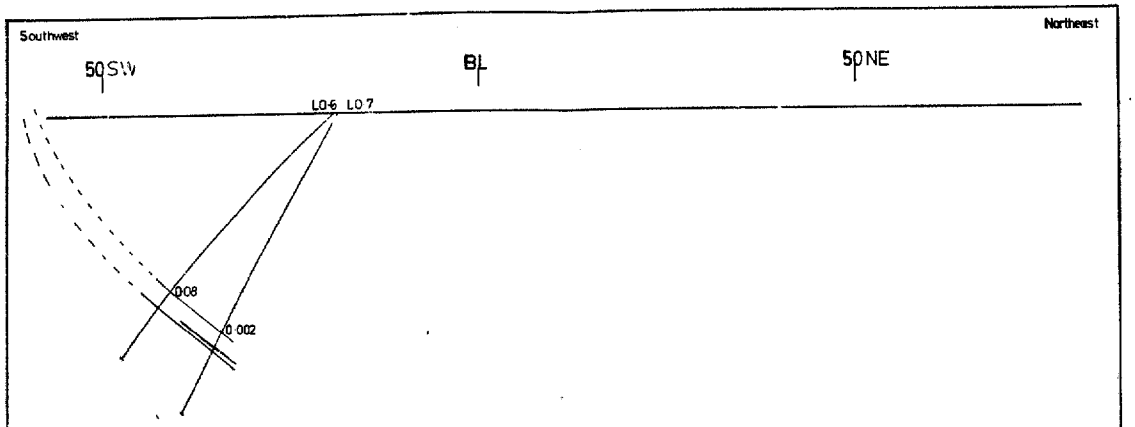
SECTION 0+15SE

Values in oz Au/ton averaged over 5.0 ft
UNCUT

ACCOUNT No		FILE No Man-08	TORONTO
SCALE	0 Meters 15 0 Feet 50		DATE Oct / 79
AUTHOR R S Hall	DTS	DWG No	

11113


Southwest
Northeast
50SW
BL
50NE
Shaft
L0-1
L0-14
1·52 / 5·0
0·04 / 5·0
ESSO MINERALS CANADA
PROSPECT LOTUS
SECTION 0+00
Values in oz Au/ton averaged over 5·0 ft
UNCUT
FILE # MAN 08
TORONTO
SCALE 0 Meters 15
0 Feet 50
DATE OCT/79
AUTHOR R S Hrill



ESSO MINERALS CANADA
A DIVISION OF ESSO RESOURCES CANADA LIMITED

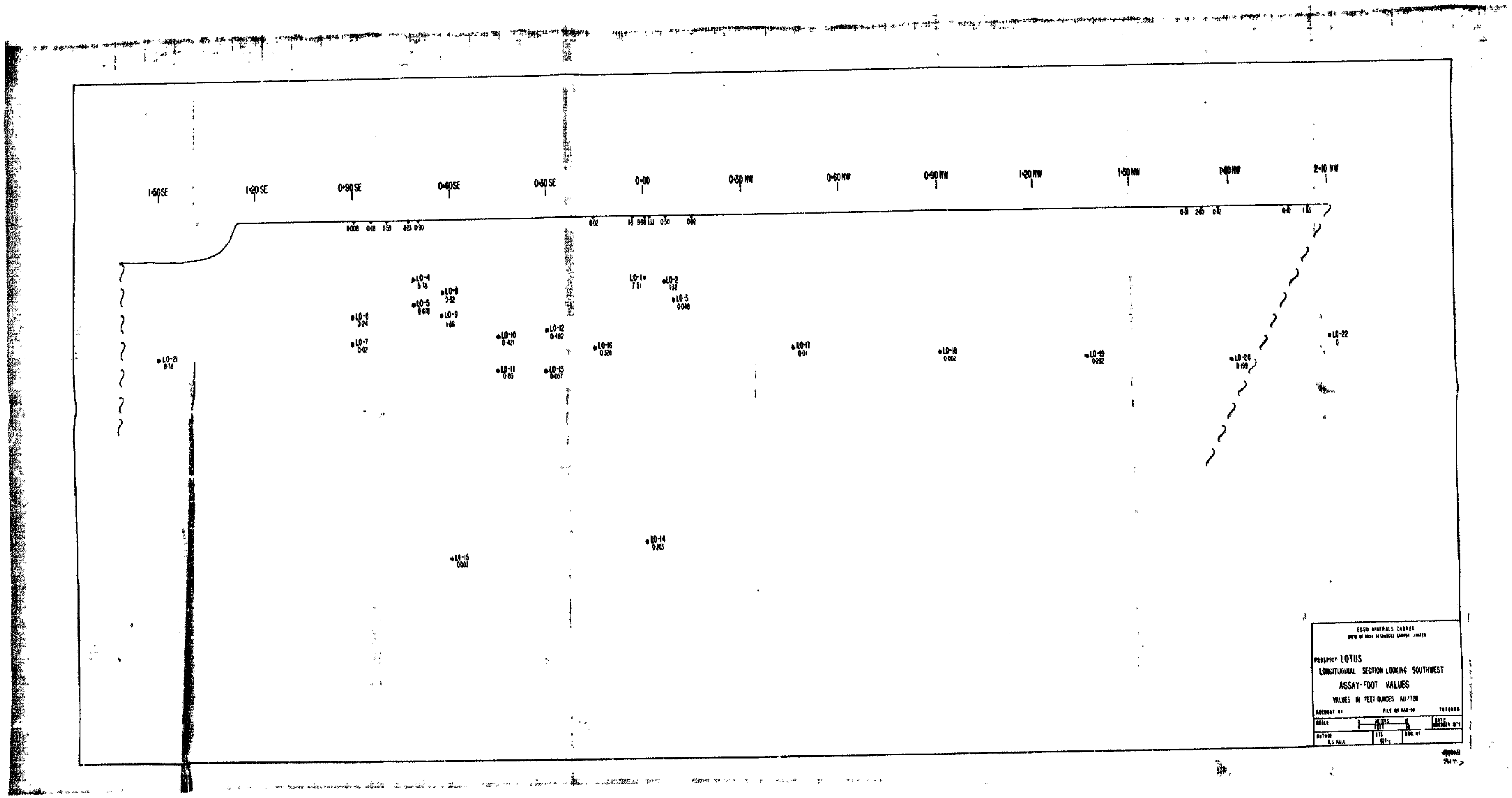
PROSPECT LOTUS

SECTION 0+90SE

Values in oz. Au/ton averaged over 5·0 ft
UNCUT

ACCOUNT No		FILE No Map 08	TORONTO
SCALE	0 Meters 15		DATE OCT/79
	0 Feet 50		
AUTHOR R.S. Hall	GTS	DWG No	

~~9919~~
92H/4



ESSO MINERALS CANADA

PROSPECT LOTUS

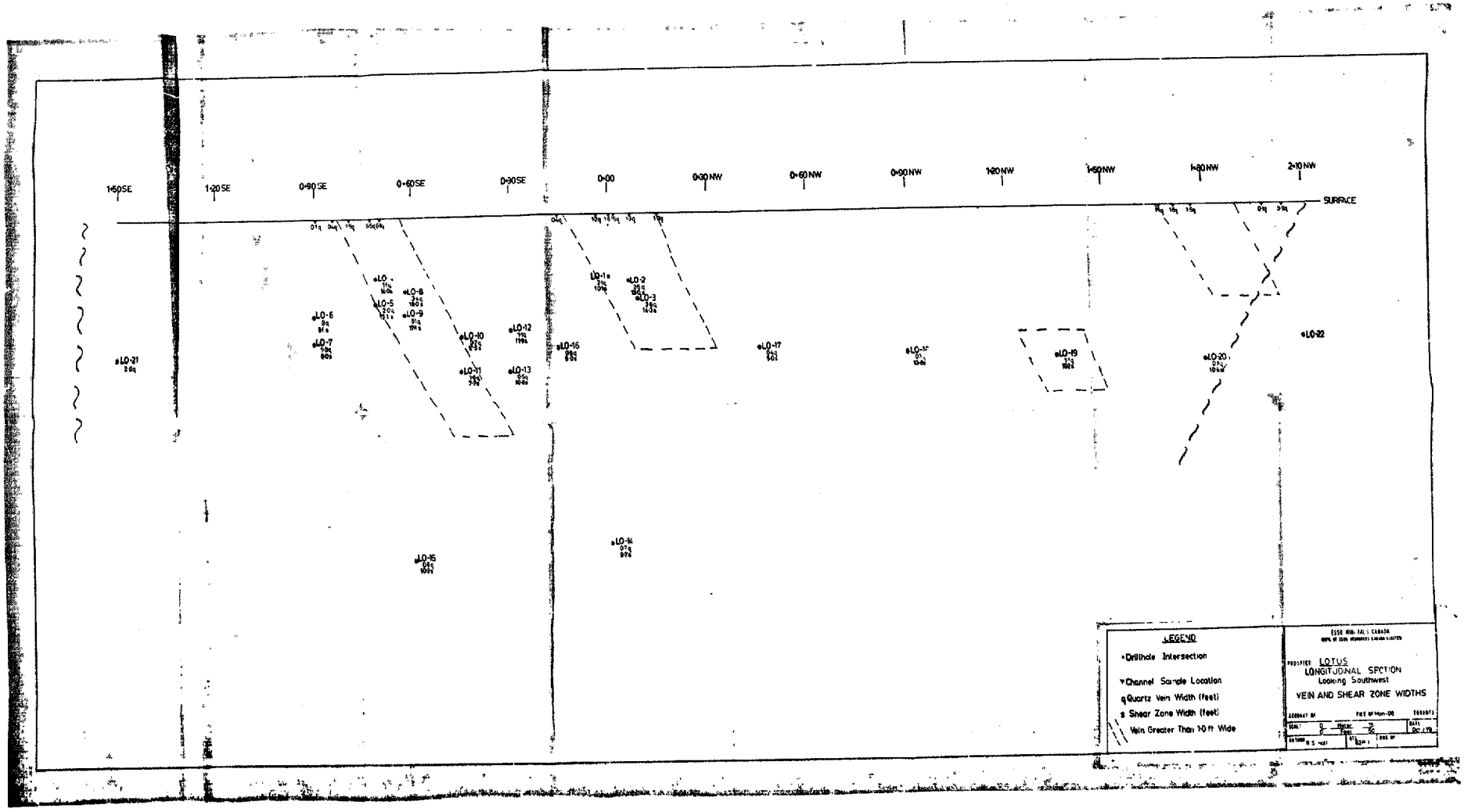
LONGITUDINAL SECTION LOOKING SOUTHWEST

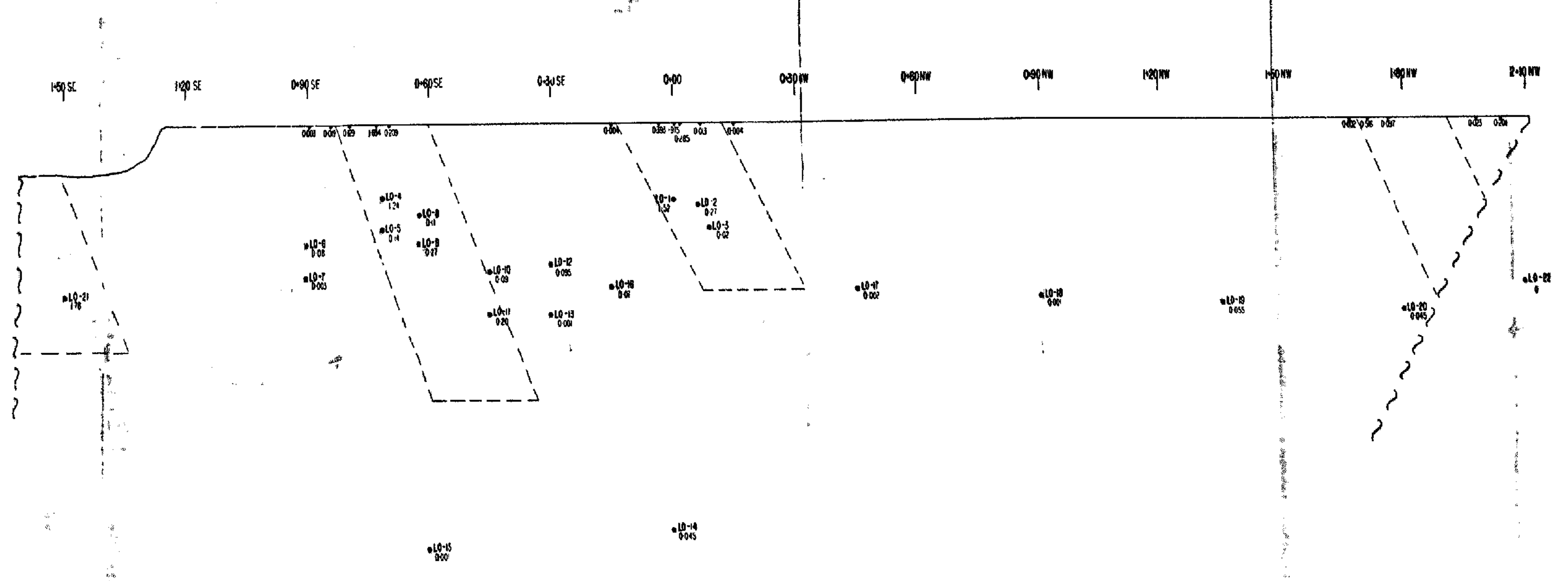
ASSAY-FOOT VALUES

VALUES IN FEET-OUNCES AU/TON

SCALE | METRES / FEET

AUTHOR R.S. HALL


1+50SE
1+20SE
0+90SE
0+60SE
0+30SE
0+00
0+30NW
0+60NW
0+90NW
1+20NW
1+50NW
1+80NW
2+10NW
SURFACE
LO-1
LO-2
LO-3
LO-4
LO-5
LO-6
LO-7
LO-8
LO-9
LO-10
LO-11
LO-12
LO-13
LO-14
LO-15
LO-16
LO-17
LO-18
LO-19
LO-20
LO-21
LO-22
LEGEND
•Drillhole Intersection
▼Channel Sample Location
qQuartz Vein Width (feet)
s Shear Zone Width (feet)
Vein Greater Than 10 ft Wide
PROSPECT LOTUS
LONGITUDINAL SECTION
Looking Southwest
VEIN AND SHEAR ZONE WIDTHS



LEGEND

- ● DRILLHOLE INTERSECTION
- ● CHANNEL SAMPLE LOCATION
- — VALUES GREATER THAN 0·10 oz AU/TON UNCUT AVERAGED OVER 5·0 FT (1·52 M)

ESSO MINERALS CANADA

PROSPECT LOTUS

LONGITUDINAL SECTION
LOOKING SOUTHWEST

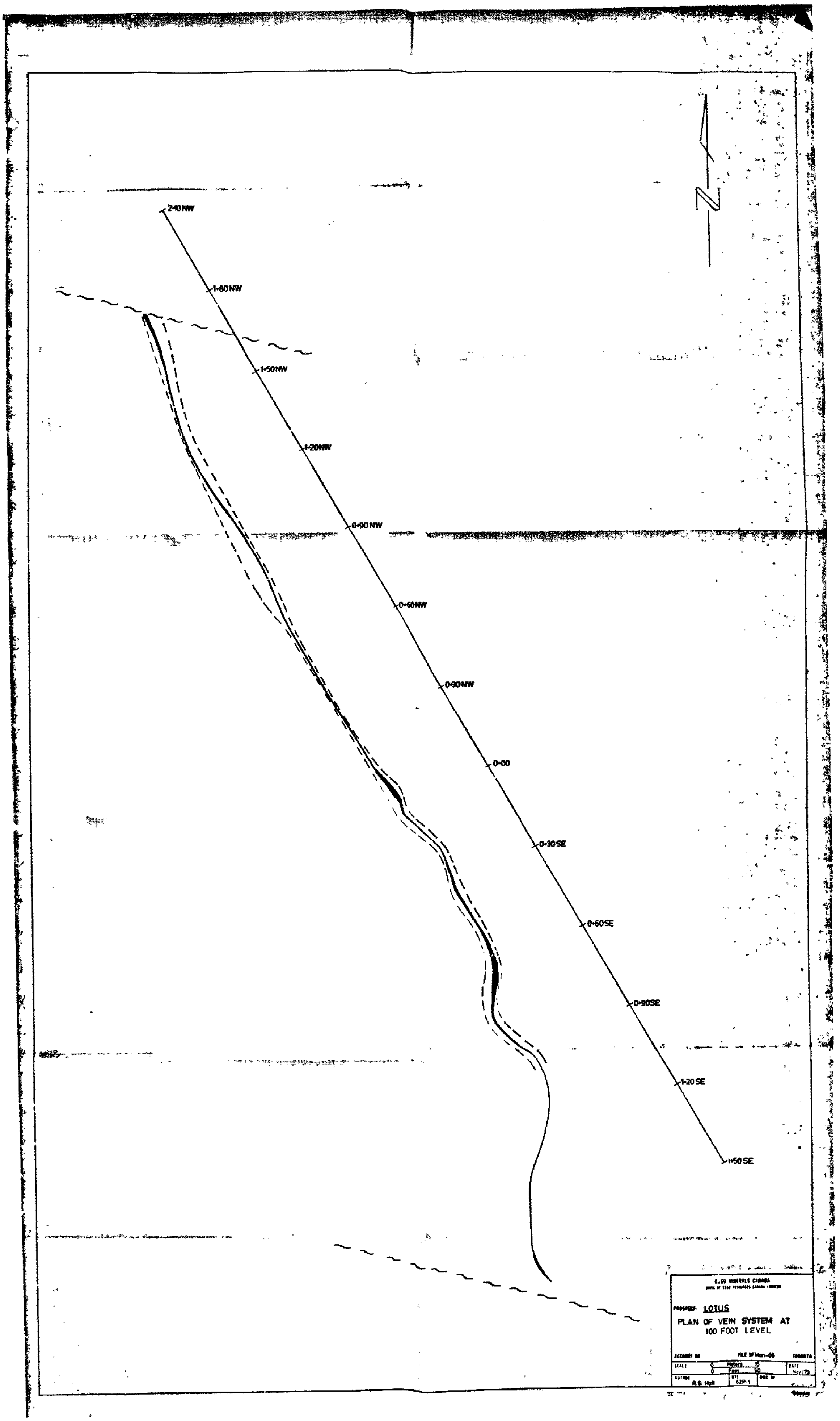
ASSAY VALUES - UNCUT

FILE BY MAN-80 TORONTO

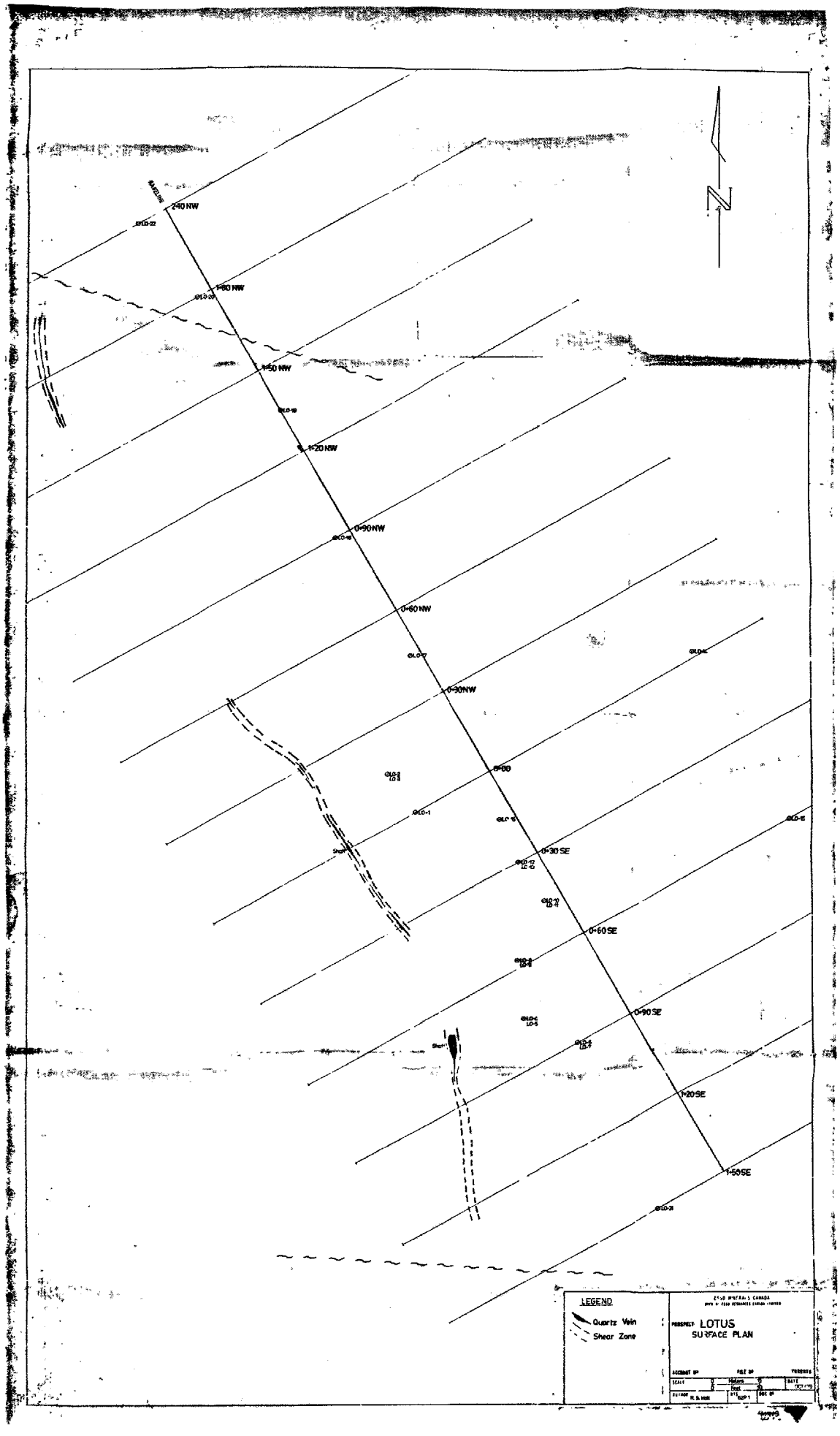
SCALE 0 FEET 50 / 0 METRES 15

AUTHOR I.S. HALL

36X



N
2+40 NW
1+80 NW
1+50 NW
1+20NW
0+90 NW
0+60NW
0+30 NW
0+00
0+30 SE
0+60 SE
0+90SE
1+20 SE
1+50 SE
MINERALS CANADA
PROSPECT LOTUS
PLAN OF VEIN SYSTEM AT
100 FOOT LEVEL
SCALE 0 Meters 15
0 Feet 50
DATE Nov/79
AUTHOR R.S. Hall
NTS 62P-1


BASELINE
2+40 NW
2+00 NW
1+50 NW
1+20 NW
0+90 NW
0+60 NW
0+30 NW
0+00
0+30 SE
0+60 SE
0+90 SE
1+20 SE
1+50 SE
LEGEND
Quartz Vein
Shear Zone
PROSPECT LOTUS
SURFACE PLAN