015735

ANVIL MINING CORPORATION LIMITED
Whitehorse, Yukon
PROPERTY NAME LEE (FLAGSTONE)
LOCATION 3000 S 500 W
DATE DRILLED 25 Oct. 1967 – 27 NOV. 1967
SCALE OF LOG 1" → 40' LOGGED BY J. GONDI DATE 23 NOV. 1967

HOLE NO. 67-FLAG II DEPTH 801'
COLLAR ELEVATION ..... CORE SIZE AQ INCLINATION TESTS
BEARING ..... (MAG OR TRUE DIP 90°
CO-ORDINATES ..... N. ..... E.
SURFACE ✓ OR UNDERGROUND .....
TOTAL RECOVERY 94.1%

SHEET 1 OF 4

ROCK TYPES AND ALTERATION		MINERALIZATION AND STRUCTURES	FOOTAGE BLOCKS	FT. RECOVERY	SAMPLE NO.	INTERVAL FROM	INTERVAL TO
0 – 34 – OVER BURDEN							
34 – 72.5 – QUARTZITE		HARD MASSIVE IMPURE QUARTZITE WITH CHLORITE IN PLACES. SILICA CONTENT OF ORIGINAL SEDIMENTS RECRYSTALLIZED AND METAMORPHOSED.	34 37	1.5 7.5			
		PYRITE FILLS FRACTURES IN QUARTZITE AND ALSO OCCURS AS DISSEMINATED.	45 55	8.7 9.2			
QUARTZITE. 3D		AT 72' – A MINOR AMOUNT OF BIOTITE AND CHLORITE.	65	7.0			
72.5 – 108.3 QUARTZ BIOTITE CHLORITE SCHIST.	72.5	CONTACT GRADATIONAL. FOLIATION: 25°	72 83	11.0 7.5			
		SEGGREGATED BANDS OF QUARTZ AND BIOTITE CHLORITE SCHIST IMPART A BANDED APPEARANCE. FINELY FOLIATED SCHIST.	100.5	6.5			
CHLORITE SCHIST. 3C →	108.3 115.7	DISSEMINATED PYRITE ALONG FRACTURES. FOLIATION: – 72° PURE CHLORITE SCHIST BAND.	107 111.6 120.6	4.6 9.0			
115.7 – 179 – QUARTZ BIOTITE CHLORITE SCHIST 3D		FOLIATION: – 65° FINELY FOLIATED QUARTZ BIOTITE CHLORITE SCHIST WITH CONFIRMABLE BANDS OF QUARTZ AT IRREGULAR INTERVALS CONSIST	130 140 148 157.8	9.4 10.0 8.0 9.8			
179 – 352.5 – QUARTZ CHLORITE BIOTITE SCHIST.	179	OF PYRITE IN DISSEMINATED FORM ALONG FRACTURES. PYRRHOTITE IN SOME PLACES. FOLIATION: – 63°. WITH INCREASING CHLORITE, THE SCHIST GRADUALLY PASSES INTO QUARTZ CHLORITE BIOTITE	168.6 177 181 190 200	9.6 9.6 3.5 9.0 10.0			
3D (CCD???) no mentions of garnet	203	SCHIST. 181.3 – 181.7 – CHLORITE SCHIST. DISSEMINATED PYRITE. 203.7 – PYRRHOTITE. 204 – 205 – RICH IN CHLORITE. 218 – PYRITE ALONG FRACTURES. 224.6 – 228.5 – CRENULATED. 229 – 232 – CHLORITE SCHIST.	204.6 215.6 225.6 232	4.6 10.4 10.0 6.4			

PROPERTY NAME ..LEE. (FLAGSTONE)..... HOLE NO. 67-FLAG II SCALE OF LOG .....1 = 40....

ROCK TYPES AND ALTERATION	MINERALIZATION AND STRUCTURES	FOOTAGE BLOCKS	FT. RECOVERY	SAMPLE NO.	INTERVAL FROM	INTERVAL TO
240						
QUARTZ CHLORITE BIOTITE SCHIST.	FOLIATION:- 65°	242	7.6			
		249	8.4			
		258	10.0			
		268				
	278-279- CHLORITE SCHIST.		16.0			
280						
QUARTZ CHLORITE BIOTITE SCHIST.	FOLIATION:- 72°.	284	8.0			
	SEGGREGATED BIOTITE & CHLORITE IMPART A BANDED APPEARANCE.	292	6.0			
		298	14.7			
	QUARTZ VEINS AT 309.5-310 & 314.5-315.	313	9.6			
320						
QUARTZ CHLORITE BIOTITE SCHIST.	QUARTZ VEIN AT 325.9-326.2	322.6	9.7			
	327.1-327.4 - CHLORITE SCHIST.	332.6				
	IRREGULAR QUARTZ VEINS.		9.4			
	341.5 - PYRRHOTITE	342				
	347.9-348.2 - CHLORITE SCHIST.		9.7			
352.5 - 372.	IN SOME PLACES INCLUSIONS AND APPEAR TO BE METAMORPHOSED VOLCANICS.	352	8.5			
360						
QUARTZ BIOTITE CHLORITE SCHIST.		360.8	9.8			
	FOLIATION:- 72°.	370.6	4.4			
	368.2 - PYRITE.	375	10.0			
372-396- QUARTZ CHLORITE BIOTITE SCHIST.	FOLIATION:- 75°.	385	9.0			
	PYRITE FILLING FRACTURES.					
396-627.6	FOLIATION:- 73°	394	10.0			
400						
QUARTZ BIOTITE CHLORITE SCHIST.	396.7- DISSEMINATED PYRITE.	404	9.3			
	412.9-414.3 - METAMORPHOSED VOLCANICS.	414.3	4.7			
		419	10.0			
	IRREGULAR QUARTZ VEINS OCCUR THROUGHOUT.	429	10.0			
	424.6 - CRENULATED.	439				
440						
QUARTZ BIOTITE CHLORITE SCHIST.	FOLIATION:- 81°	445	6.0			
	RICH IN CHLORITE IN PLACES.	453	8.0			
	SEGGREGATED BIOTITE IMPART A BANDED APPEARANCE.	463.9	9.6			
		473.7	9.8			
			8.3			
480						
QUARTZ BIOTITE CHLORITE SCHIST.	490.4 - DISSEMINATED PYRITE	482	10.6			
	515- RICH IN BIOTITE.	492.6				
	QUARTZ VEINS OCCUR IRREGULARLY THROUGHOUT. DISSEMINATED PYRITE ALONG FRACTURES.	509	15.8			
520						

ANVIL MINING CORPORATION LIMITED Whitehorse, Yukon

PROPERTY NAME LEE (FLAGSTONE) ..... HOLE NO. 67-FLAG II SCALE OF LOG 1" = 40'

ROCK TYPES AND ALTERATION	MINERALIZATION AND STRUCTURES	FOOTAGE BLOCKS	FT. RECOVERY	SAMPLE NO.	INTERVAL FROM	INTERVAL TO
520			26.8			
QUARTZ BIOTITE CHLORITE SCHIST.	SAME AS IN THE INCR- EMENT 480 - 520. 522 - CRENULATED. INCLUSIONS IN SOME PLACES.	537	3.7			
		541	9.6 J			
		551	8.0			
560		559				
QUARTZ BIOTITE CHLORITE SCHIST	DISSEMINATED PYRITE ALONG FRACTURES IN QUARTZ VEINS. 563 - 567 - CRENULATIONS.	568.5	8.7			
			16.9			
		586	10.0			
600		596	5.0			
QUARTZ BIOTITE CHLORITE SCHIST. 627.6 - 634.5. 10E PORPHYRITIC DIORITE.	FOLIATION:- 63°. INCLUSIONS. DISSEMINATED PYRITE. INTRUSIVE CONTACT. COARSE HORNBLENDE & BIOTITE IN FINE MATRIX.	601	10.6			
		611.6	9.4			
		621	9.6			
		627.6	3.0			
640		634.5	10.0			
QUARTZ BIOTITE CHLORITE SCHIST	FOLIATION:- 68°. SEGGREGATED BANDS OF BIOTITE CHLORITE IMPART A BANDED APPEARANCE TO THE CORE. PYRITE FILLING FRACTURES AND CAVITIES.	644	10.0			
		654	10.0			
		664	10.0			
		674	5.0			
680		679				
QUARTZ BIOTITE CHLORITE SCHIST. 707 - 801 — QUARTZ CHLORITE BIOTITE SCHIST.	PYRITE ALSO OCCURS AS DISSEMINATED AND AS STRINGERS. GRADATIONAL CONTACT. FOLIATION:- 73°.	685	6.0			
		690	5.0			
		704	12.6			
		714	9.6			
720		724	10.6			
QUARTZ CHLORITE BIOTITE SCHIST	SEGGREGATED BANDS. QUARTZ VEINS CONFIRMABLE WITH SCHIST AT SEVERAL PLACES. FRACTURES FILLED WITH PYRITE.	730.6	6.6			
		739	8.4			
		747	8.0			
760		757	10.0			
QUARTZ CHLORITE BIOTITE SCHIST.	FOLIATION:- 75°. SAME AS ABOVE.	767	10.0			
		777	10.0			
		785	8.0			
800		795	10.0			

ANVIL MINING CORPORATION LIMITED Whitehorse, Yukon

PROPERTY NAME ...LEE (FLAGSTONE)..... HOLE NO. 67-FLAG II SCALE OF LOG 1"=40'

SHEET 4

ROCK TYPES AND ALTERATION	MINERALIZATION AND STRUCTURES	FOOTAGE BLOCKS	Ft. RECOVERY	SAMPLE NO.	INTERVAL FROM	INTERVAL TO
QUARTZ CHLORITE BIOTITE SCHIST.	801' – END OF HOLE.	801	6.6			

800

840

880

920

ANVIL MINING CORPORATION LIMITED
Whitehorse, Yukon
PROPERTY NAME Lee (Flagstone Mines Ltd) .....
LOCATION 27E, 18 + 50 S
DATE DRILLED July 27, 1969-August 10, 1969
SCALE OF LOG 1" → 40' LOGGED BY J. Gondi DATE Aug 12,69

HOLE NO. 69-Lee-1 DEPTH 225 Feet
COLLAR ELEVATION ..... CORE SIZE AQ INCLINATION TESTS
BEARING ..... (MAG OR TRUE DIP -90°
CO-ORDINATES ..... N. ..... E.
SURFACE X OR UNDERGROUND .....
TOTAL RECOVERY 71.5%

SHEET 1 OF 1

ROCK TYPES AND ALTERATION	MINERALIZATION AND STRUCTURES	FOOTAGE BLOCKS	% RECOVERY	SAMPLE No.	INTERVAL FROM	INTERVAL TO
0-11'-Over burden 11-52.5'- Banded Quartzitic Phyllite. 3D Increasing in Biotite with depth	Foliation - 72° finely foliated greenish grey Quarzitic Phyllite with interbedded limestone bands. Minor Diopside and					
52.5 '- 152'- Quartz Calcite Biotite Chlorite Diopside schist. 3D	Epidote occurs forming thin bands. Lineations strike roughly at right angles to the coreaxis. Foliation-55° 56.5- 58.5- Dippside and acicular Tremolite.					
In places, pronouncedly banded. Thin bands of Limestone occur throughout. In general may be called Skarn.	81'-86' Limestone bands occur 3F extensively. 120'- Pyrite occurs along fractures.					
Bands of Meta Greenstone occur at various intervals. 152'-225' Meta Green Stone. Altered to green schist.	3C					
Massive green stone occurs in places. Common minerals present are Quartz, Calcite, Dippside and Tremolite. Calcite occurs as Thin Veinlets and bands.	176'-225' massive fine grained greenstone occurs at various intervals. 216' -Chalcopyriteveinlet.					
	225'- End of hole.					

ANVIL MINING CORPORATION LIMITED
Whitehorse, Yukon
PROPERTY NAME LEE (FLAGSTONE)
LOCATION 16E 2S
DATE DRILLED SEPT 19, 1967 – Oct 6, 1967
SCALE OF LOG 1" → 40' LOGGED BY J. GONDI DATE Oct 9, 1967

HOLE NO 67-FLAG I DEPTH 726 FEET.
COLLAR ELEVATION ..... CORE SIZE AQ ..... INCLINATION TESTS
BEARING ..... (MAG OR TRUE DIP -90°
CO-ORDINATES ..... N. ..... E.
SURFACE Y ..... OR UNDERGROUND .....
TOTAL RECOVERY 89%

SHEET 1 OF 3.

ROCK TYPES AND ALTERATION	MINERALIZATION AND STRUCTURES	FOOTAGE BLOCKS	% RECOVERY	SAMPLE No.	INTERVAL FROM	INTERVAL TO
0 – 22.5' – OVERBURDEN.	FOLIATION:- 20°.					
22.5' – 160' – QUARTZ BIOTITE CHLORITE SERICITE SCHIST. (GARNETIFEROUS).	22.5 – 79.6 – LEACHED AND IRON OXIDES FORMED ALONG FRACTURE PLANES. IRREGULAR QUARTZ BLEBS AND VEINS OCCUR THROUGHOUT THE CORE. DISSEMINATED GARNETS. CRENULATED AT 86'. AT SOME PLACES GARNETS PARTLY ALTERED TO CHLORITE.	22.5 27.0 32.5 37.5 52.0 75.5 79.5	3.4 2.8 4.6 13.7 22.8 2.8 5.5			
GARNETIFEROUS QUARTZ BIOTITE CHLORITE SERICITE SCHIST.	RICH IN CHLORITE AT 94'-95' & 98.5-99'. FOLIATION:- 25°. DISSEMINATED PYRITE AT SOME PLACES. 126' – PYRITE OCCURS ALONG FRACTURES..	84.0 90.0 93.5 102.5 107.5 115.0 120.5	5.0 3.2 8.7 5.0 6.8 5.3 3.5			
1CD "	128' – 130' – RICH IN GARNETS. PARTLY ALTERED TO CHLORITE. A MINOR AMOUNT OF PYRITE OCCURS ALONG FRACTURES. 138' – RICH IN GARNETS. FOLIATION:- 40°.	124.0 127.5 134.0 137.0 141.0 150.0 157.0	1.5 2.0 6.5 3.0 4.0 9.0 7.0 5.0			
160 – 167 – GRANITE. 10AB 167' – 269.5' – GARNETIFEROUS QUARTZ BIOTITE CHLORITE SERICITE SCHIST.	Coarse Granite. MICACEOUS IN PLACES. FOLIATION:- 20°. 167 – 280 – RICH IN CHLORITE. 191' – CRENULATED.	162.0 165.0 173.0 178.5 183.4 185.0 187.0 191.0 197.0 200.0	3.0 7.6 2.6 0.9 2.0 4.3 1.6 2.0 4.0 6.0 3.0			
1CD	230 – 241 – RICH IN CHLORITE AND GARNETS. AN INCREASE IN PYRITE. 234 – QUARTZ VEINS. PYRITE OCCURS ALONG WITH THEM.	207.0 208.0 214.0 215.5 222.5 229.0 234.5	7.0 1.8 6.0 1.5 7.0 6.5 5.5 6.0			

ANVIL MINING CORPORATION LIMITED Whitehorse, Yukon

PROPERTY NAME .L.E.E.C.F.L.A.G.S.T.O.N.E. ..... HOLE NO. 67-FLAG1 SCALE OF LOG 1" → 40'

ROCK TYPES AND ALTERATION	MINERALIZATION AND STRUCTURES	FOOTAGE BLOCKS	% RECOVERY	SAMPLE NO.	INTERVAL FROM	INTERVAL TO
240		240.5				
GARNETIFEROUS QUARTZ BIOTITE CHLORITE SERICITE SCHIST.	PYRITE ALSO OCCURS IN SCHIST. MARCASITE IS SOMETIMES NOTICED.	246.5	6.0			
		252.0	6.0			
		255.0	3.0			
269.5'- 277'— MICACEOUS GRANITE. 10AB [10B?]	A MINOR AMOUNT OF PYRITE & MARCASITE ALONG FRACTURES.	264.0	9.0			
277'- 394'— GARNETIFEROUS		274.0	10.0			
280		277.0	3.0			
QUARTZ BIOTITE CHLORITE SERICITE SCHIST.	278.5'— QUARTZ VEIN OF 5" WIDE. DISSEMINATED PYRITE.	287.0	10.0			
1CD		294.0	7.0			
	306.6'— CRENULATED.	300.0	6.0			
	313— FOLIATION - 25°.	310.0	10.0			
	CRENULATED AT 315'.	318.0	8.0			
320		321.0	3.0			
	FOLIATION:- 40°.	331.0	10.0			
	354- CRENULATED.	338.0	7.0			
		344.0	6.0			
		354.0	10.0			
360		360.0	6.0			
394- 400.4- PEGMATITIC VEIN. 10AB aplite	373.6'-375'— QUARTZ VEIN, ASSOCIATED WITH IS PYRITE.	366.0	6.0			
		369.0	3.0			
		378.5	7.5			
		378.0	1.5			
	VERY COARSE QUARTZ, FELDSPAR MICACEOUS.	388.0	9.0			
		394.0	7.0			
400		398.2	4.2			
		402.0	3.8			
400.4'- 482.5'— GARNETIFEROUS QUARTZ BIOTITE CHLORITE SERICITE SCHIST.	FOLIATION:- 28°.	412.0	10.0			
		420.0	7.6			
		424.0	2.5			
		434.0	8.7			
440		441.0	6.4			
1CD		445.0	4.0			
		450.0	5.0			
		454.0	4.0			
		464.0	10.0			
10AB		471.5	7.5			
		477.0	5.5			
480		482.0	5.0			
482.5'— 489'— MICACEOUS GRANITE.	PYRITE & MARCASITE ALONG FRACTURES.	485.0	3.0			
		489.1	4.1			
1CD		493.0	3.9			
489- 726'— GARNETIFEROUS QUARTZ BIOTITE CHLORITE SERICITE SCHIST.		501.0	8.0			
		503.0	2.0			
		506.6	3.6			
		508.0	1.4			
520		517.0	9.0			

ANVIL MINING CORPORATION LIMITED Whitehorse, Yukon

PROPERTY NAME LEECH LAG STONE)..... HOLE NO 67-FLAG I SCALE OF LOG 1" → 40'

ROCK TYPES AND ALTERATION	MINERALIZATION AND STRUCTURES	FOOTAGE BLOCKS	% RECOVERY	SAMPLE NO.	INTERVAL FROM	INTERVAL TO
GARNETIFEROUS QUARTZ BIOTITE CHLORITE SERICITE SCHIST.	CRENULATED AT 534.5'. PYRITE AND A MINOR AMOUNT OF MARCASITE ALONG FRACTURES.	527.0	9.6			
		537.0	9.3			
		539.0	2.0			
		549.0	10.0			
		556.0	7.0			
		560.0	4.0			
"	QUARTZ VEIN AT 570.4 OF FIVE INCHES WIDE.	560.0	9.0			
		579.0	10.0			
		583.0	4.0			
		593.0	10.0			
		598.0	5.0			
" ICD		608.0	10.0			
		618.0	10.0			
		626.0	8.0			
		630.0	4.0			
		633.0	3.0			
		635.0	2.0			
		640.0	5.0			
"		643.0	3.0			
		650.0	2.0			
		652.0	2.0			
		656.0	4.0			
		666.0	10.0			
		674.0	8.0			
"		685.0	11.0			
		695.0	10.0			
		706.0	11.0			
		716.0	10.0			
GARNETIFEROUS QUARTZ BIOTITE CHLORITE SERICITE SCHIST.	726' – END OF HOLE.	726.0	10.0			

The Lorna Group covering much of the overburden covered south side of Anvil Creek appears to be underlain by southerly dipping black phyllites and quartz-sericite schist intercalated with minor amphibolite lenses. No mineralization except for minor disseminated pyrrhotite and galena in quartz veins was found on the claim group. Sericite alteration of the schist was observed in Anvil Creek on the northern boundary of the claims. Geologic interpretation was undertaken by Bill Karvinen stating "Stratigraphically and structurally, the Lorna Group is well located; it overlies the phyllite-quartz-mica schist contact and also the horizon of abundant phase 1 parasite folds".

DIAMOND DRILLING

Drill hole LR-1 was collared at Line 24 west, 900 ft. north, to test the coincident magnetic and gravity anomalies. Drilling of the vertical hole began on November 4, 1970 and terminated on December 6, 1970, at a depth of 576 feet with the initial 140 ft. being overburden. Overburden drilling was very costly due to -40 degree temperatures, a 4000 ft. waterline, incapable machinery and a lack of necessary equipment at the beginning of the project. Greenstone units were encountered throughout the drill hole with intervals of phyllite up to 30 ft. in apparent thickness. Greenstone units consisted of a highly foliated and locally contorted dark green chlorite schist to dark green mottled massive meta-basalt. All contacts are gradational. Foliation of schistose units is highly variable with angles varying between 0 and 45 degrees to the core axis. Mineralization consisted of disseminated pyrite and pyrrhotite in meta-basalt and chlorite schist with minor magnetite. Pyrrhotite is predominant and appears pervasive enough to cause the magnetic anomaly. No visible copper, lead and zinc minerals were noted. Density

determinations of the greenstone units indicated that the meta-basalt has a specific gravity of 2.8 to .30 grams/cc. and the chlorite schist 2.7 to 2.8 grams/cc. According to engineering data tables the surrounding phyllites have an approximate specific gravity of 2.1 to 2.3 grams/cc; thus the difference of roughly 0.5 grams/cc. between the specific gravity of the greenstones and phyllites appears great enough to cause the gravity anomaly.

All core is stored in a covered core rack located at the campsite on Anvil Creek. Drill equipment was also left on the property to allow further electromagnetic surveys this spring and the possibility of continued drilling next season.

CONCLUSIONS AND RECOMMENDATIONS

The Lorna Group covers the phyllite and quartz-mica schist units which are hosts to the massive sulphide deposits in the Anvil area. Coincident ground magnetic and gravity anomalies with geochemical response down-slope to the west indicated a dense magnetic basic intrusive or hopefully massive sulphides. Diamond drilling the coincident geophysical anomalies revealed greenstone units with minor intervals of phyllite. Chlorite schist and meta-basalt contained an adequate quantity of pyrrhotite and magnetite to account for the magnetic anomaly and as well have a specif gravity of 0.5 grams/cc. greater than the surrounding phyllites which is probably enough to cause the gravity anomaly. In view of the results of diamond drilling, it is thought that the causative mass is a northwest trending greenstone lens within the phyllite unit. It is recommended that further work consist of an electromagnetic survey over