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INTER-OFFICE MEMORANDUM

6415 - 64th Street, Delta, B.C.

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R. 95

DATE: November 23, 1982

TO: C. M. H. Jennings/A. M. Clarke

COPIES TO: H. R. Stockford, T. E. Chandler

FROM: J. B. Gammon

SUBJECT: Report No. 63-052-82, Windy Craggy 1982 Drilling

Please find attached Terry Chandler's report on 1982 drill results at Windy Craggy. This years programme has developed significant additional tonnage at higher grades than those previously suspected. The importance of determining the presence, or otherwise, of a higher grade zone plunging northwestwards is emphasized. The drills currently on the property would be capable of answering this question if the programme Terry recommends were to be carried out.

and Same

JBG:ik

## SUMMARY REPORT

1982 Drill Programme and Investigation
of Mineralized Zones, Windy Craggy Claim
Area, Alsek River, British Columbia.
Atlin M.D.
Lat. 59°44'N Long. 137°44'W
NTS 114%12E
PN 052

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T. Chandler November, 1982

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## INDEX MAP

## BRITISH COLUMBIA

150 0 150 300 450 Km.

SCALE 1: 7.500.000



FIG. NO .: 052 - 82 - 2

#### INTRODUCTION

This report summarizes the results of drilling and related field activities on the Windy and Craggy Claim groups in N.W.B.C. as per location map Figs. 1 and 2. The reader is referred to previous summary reports by J. J. McDougall and J. B. Gammon/T. Chandler for descriptions of the work history of the area and results of prior programmes.

The 1982 programme was primarily directed towards continuation of the 1981 drilling programme with emphasis on the northwest strike extension of the massive sulphide zone. The drilling contractor employed was Longyear Canada using one FLY-38 rig and one Longyear 44 rig. A total of 1363.7m (4474 ft) of combined NQ and BQ drilling was completed in three holes between July 10 and August 11, 1982. Minor geological mapping was carried out in the northwest sector of the drilling area and subsequent revisions were made to the base topographic map. In addition the Tats showing to the south was mapped in some detail and covered by limited lithogeochemical sampling and magnetometer survey.

Preparations for the 1982 season involved an early (March 1982) fuel drop at the Tats Lake base camp. This was followed by early July mobilization of the Longyear 44 rig, extra drill rods, mud and drilling additives and miscellaneous supplies. During this period one of the 1981 programme FLY 38 rigs was demobilized as well as a JD 450 tractor, both being surplus to 1982 programme requirements.

Drilling operations were supported by a Hughes 500 D helicopter under contract from Pacific Helicopters Ltd. This machine was utilized for crew changes, equipment supply and for moving the FLY 38 rig from Hole 9-82 to Hole 12-82. It also assisted in mobilization, demobilization

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and flying out the drill core at end of season for transport and storage at the Delta exploration office.

Assaying was carried out by Bondar - Clegg in Whitehorse.

Financing for this project, administered by Falconbridge, was made available under the terms of the Geddes Resources - Falconbridge Agreement.

#### LOCATION, ACCESS, TOPOGRAPHY:

The deposit is located at Latitude 59044'N and Longitude 137<sup>0</sup>44'W in the NW corner of British Columbia (Figs 1 and 2) within the St. Elias Mountains on NTS sheet 114P/12E. The centre of drilling operations is situated 10 km east of the Alsek River, 25 km north of its confluence with the Tatshenshini River - the other major drainage system of the region. The climate is typically alpine and topography is rugged, dominated by numerous glaciers and permanent snow packs. Elevations range from c. 400 m. in the major river valleys to + 2000 m. on the major peaks. The deposit itself occurs on the northern flank of a northwest trending ridge at elevations ranging from 1500 to 2008 metres. The base camp for the field activities is located at Tats Lake, some 12 km. south of the deposit, at an elevation of 650 m.

Access to the project is limited at present to helicopter transport or by float plane to Tats Lake and thence by helicopter to the drilling operations. Whitehorse is the nearest major supply centre located 200 air km. to the northeast. The nearest major road access is via the Haines Cutoff highway running north from Haines, Alaska and approaching within 55 air km. ENE of Windy Craggy.

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#### CLAIM STATUS: Figs. 3 and 4

The claim area consist of 11 two-post Located Claims and 13 Modified Grid Located Claims comprising 192 units covering 4800 hectares. These claims have the following ownership status:

 Claims subject to the Geddes Resources - Falconbridge Agreement dated June 4, 1981:

> Windy #1 through Windy #8, Craggy #1, #2, #4 (the 11 two-post claims), W.C. 1, W.C. 2, W.C. 3.

- Claims owned by Falconbridge Limited and proposed as additions to the above stated agreement, such proposal presently awaiting confirmation and ratification: W-C-7, W-C-8 and W-C-9.
- 3) Claims owned by Falconbridge Limited and proposed as part of a new Geddes - Falconbridge Agreement, to be known as the Tats Property, with such proposal presently awaiting confirmation and ratification:

W-C-14, W-C-15, W-C-16 and W-C-17.

4) Claims owned by Falconbridge Limited through an option agreement with C. Kowall dated 1st February, 1982 and proposed as part of the above stated Tats Property, subject to confirmation and ratification of the agreement between Geddes and Falconbridge:

Alsek, Alsek 2 and Alsek 3.

For assessment credit purposes the above claims have been grouped as shown on Fig. 4. Filings for assessment credits have been submitted for work performed in the 1982 season sufficient to maintain all Claims in the East and West Groups in good standing until 1992. An additional filing for assessment credits has been submitted to maintain the Alsek Group Claims in good standing until at least 1983. Table 1 summarizes the present claim status and the expected status assuming acceptance of the recent assessment credit submissions.

### TABLE 1 - CLAIM STATUS

Claim	Owner	Present	New
		Expiry Date	Expiry Date *
Windy #1	Falconbridge 51%	Sept. 8/83	Sept. 8/92
Windy #2	Geddes Resources 49%	Sept. 8/83	Sept. 8/92
Windy #3	as per agreement	Sept. 8/83	Sept. 8/92
Windy #4	dated July 4, 1981.	Sept. 8/83	Sept. 8/92
Windy #5		Sept. 8/83	Sept. 8/92
Windy #6		Sept. 8/83	Sept. 8/92
Windy #7		Sept. 8/83	Sept. 8/92
Windy #8		Sept. 8/83	Sept. 8/92
Craggy #1		Sept. 8/83	Sept. 8/92
Craggy #2		Sept. 8/83	Sept. 8/92
Craggy #4		Sept. 8/83	Sept. 8/92
W.C. 1		Sept. 14/86	Sept. 14/92
W.C. 2		Sept. 14/87	Sept. 14/92
W.C. 3		Sept. 14/87	Sept. 14/92
W-C-7	Falconbridge Ltd.	Aug. 27/86	Aug. 27/92
W-C-8	(proposed for Joint	Aug. 27/86	Aug. 27/92
W-C-9	Falconbridge-Geddes	Aug. 27/87	Aug. 27/92
W-C-14	Resources ownership	Jan. 5/86	Jan. 5/92
W-C-15	subject to confirm-	Jan. 5/88	Jan. 5/92
W-C-16	ation and ratifica-	Jan. 5/88	Jan. 5/92
W-C-17	tion).	Jan. 5/83	Jan. 5/83
Alsek 20	Falconbridge by	Sept. 15/83	Sept. 15/84
Alsek 2 💯	option from C.Kowall	Nov. 18/82	Nov. 18/83
Alsek 3'	proposed for joint	Nov. 18/82	Nov. 18/83
	Falconbridge-Geddes		
	ownership as above.		

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\* New expiry date assumes acceptance of assessment credits applied for in 1982.





#### REGIONAL GEOLOGY:

This portion of the St. Elias Mountains has only been mapped at the preliminary reconnaissance level to date. Therefore the regional stratigraphy is poorly understood and the major structural controls and tectonic history have yet to be studied. A condensed summary of the major elements of the regional geology is presented below. For further details and implications of the tectonic history the reader is referred to previous Falconbridge reports.

Reconnaissance mapping by Campbell and Dodds of the GSC, 1979, has subdivided this portion of NW British Columbia into a series of discrete and distinct terranes separated by major NW-SE striking faults. The Windy Craggy deposit occurs within terrane 3, the largest in areal extent and forming part of the Alexandran allochthonous terrane described by Monger et al., GSC. The majority of the lithologies in this terrane have been informally lumped as the Kaskawalsh Group from tentative correlations with similar rocks described in the Kluane area of the Yukon. Subdivisions within this group consist of an extensive suite of shales, carbonates and greywackes of presumed Ordovician-Silurian age, probably correlative with the argillite sequence observed at Windy Craggy, and local accumulations of ?Cambro-Ordovician pillow basalts, flows and breccias represented by the massive volcanic suite adjacent to the Windy Craggy zone. The area as a whole is intruded by a variety of plutonic rocks ranging from Paleozoic to Late Tertiary in age.

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#### GEOLOGY OF MINERALIZED ZONES

#### Windy Craggy

#### 1982 Drill Programme

#### Progamme Objectives:

The 1981 programme completed 2541 m. of drilling in 9 holes on 5 sections at approximately 100 m. section spacings. This drilling completed the preliminary examination of the SE portion of the deposit. 8 of the nine holes made partial or complete intersection of the sulphide zone. A tenth hole on section G-G' (DDH 9-81) encountered difficulties and was postponed for completion in 1982. Results from the 1981 programme showed a trend towards increasing copper grade and width of mineralization along the NW strike extension of the deposit. The 1982 programme was designed to extend the drilling along this trend. Increasingly rugged topography allowed only limited drill site selection. Due to the need for greater depth capability a Longyear 44 was mobilized to the site in early July at which time one of the previous FLY 38 rigs was demobilized as well as the JD 450 tractor which was not capable of reaching the new drill sites. The Longyear 44 rig was set up to drill on Section I-I' on hole 11-82. The remaining FLY 38 rig was rehabilitated to continue drill hole 9-81 on section G-G'. The hole was renumbered DDH 9-82. On completion of this hole the FLY 38 was moved to Section M-M' to drill hole 12-82, some 400 m. along strike from DDH 11-82. These three holes completed the 1982 drilling programme with a total of 1363.7 metres drilled. Fig. 5, the geology plan, shows the location of the 1981 and 1982 drill holes.

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#### Interpretation of Results:

Detailed drill logs and assay records are attached in Appendix A for reference. The reader may also refer to Fig. 6 through 14 which show geological sections, copper and cobalt assays and copper/cobalt assay histograms for each of the 1982 drill holes. The logs and sections are self explanatory and provide all pertinent information. The following discussions will summarize the salient features from the drill sections.

## DDH 9-82 Section G-G' Collar inclination -58° at 048<sup>0</sup>24' Final Depth 507.5m(1665 ft.)

Fig. 6 shows the geology section, Fig. 7 the copper cobalt assay histograms. The hole was very similar to the 1981 drill holes in terms of sulphide mineralogy and width of intersected mineralization. The copper values however were dissappointingly low, averaging slightly more than .5% Cu over the total intersection. Assay highlights are listed in Table 2. Cobalt values were uniformly higher than average and generally correlate well with the most massive pyrrhotite zones. Pyrrhotite was the dominant sulphide mineral by far, with very subordinate pyrite and even less chalcopyrite. Scattered seams and bands of magnetite were observed in the massive sulphides along with siderite or ferroan dolomite.

### DDH 11-82 Section I-I' Collar inclination -54<sup>o</sup> at 058<sup>o</sup> Final Depth 616.0 m. (2021 ft)

Fig. 9 shows the section geology, Fig. 10 the copper/ cobalt histograms. DDH 11-82 intersected the massive sulphide zone at 273.1 m. (896 ft) after drilling through a thick sequence of the interbedded argillites, siltstones and andesitic volcanics of the (?) footwall lithologies. The hole encountered immediate difficulties due to severe flattening and intersected a series of open cavities and leached boxwork gossan to a depth of 331.32 m. Thereafter the hole remained in massive to semi-massive sulphide mineralization to 533.40 m. Below this point were intersected variably cherty argillites and minor volcanic flows or tuffs to the end of the hole. Hole 11 differed from all previous holes on the property in that the major portion of the mineralized zone was composed primarily of pyrite with subordinate pyrrhotite and significant chalcopyrite. Copper assay grades are listed in Table 2 and generally averaged better than 1.5% with significant thicknesses of +2% material. A 30 foot section of high grade material (11.12%) was intersected at depth in a notably vuggy and oxidized zone in the massive sulphides. This section apparently represents local supergene enrichment perhaps due to percolating groundwaters. The appearance of visible sphalerite was also noted in Hole 11 with very minor values near the bottom of the sulphide zone. Several tops determinations from graded beds and sedimentary load structures were obtained both above and below the sulphide zone. Structures above the mineralization show tops in a down-hole direction, those below the sulphide zone show tops in an up-hole direction. This would seem to indicate a possible synclinal fold structure through the zone.

### DDH 12-82 Section M-M' Collar inclination -45° at 229° Final Depth 415.14 m. (1362 ft)

Hole 12 was designed to intercept the subsurface expression of the altered gossanous volcanics exposed on surface some 200 m. SW of the collar on the section (see Fig. 5, 15). The drilling results were surprising in that massive sulphides were intercepted at shallow depth after passing through minor argillites, weathered volcanics and a strong fault zone. Fig. 12 shows the geology section and Fig. 13 the copper/cobalt assay histograms. The first sulphide intersection has no surface expression, being covered by shale/argillite talus. Below this intersection was encountered

a series of relatively unmineralized altered volcanics, cherty tuffs and argillites which probably correspond to the exposed volcanics and argillites mapped on surface south west of the collar. Below these rocks occurred a sequence of altered foliated volcanics, tuffs and argillites bearing stringer to semi massive sulphides and several bands of massive pyrrhotite. This section probably corresponds to the original target of the hole - the altered gossanous volcanics exposed on surface. Interpretation of the drill hole is difficult. Observed core angles allow a steep SW dip to the intercepted zones or alternatively a shallow (20<sup>0</sup>) NE dip. Although the hole is some 400 metres NW of the nearest drilled section (Hole 11 Section I-I') the writer inclines towards the view that the sulphides probably have a steep dip in common with the interpreted attitude of the south eastern portion of the deposit. This raises the intriguing possibility that the two mineralized intercepts represent the limbs of a synclinal fold structure, as suggested by tops determinations in hole 11 to the SE. Problems with this interpretation are raised by the variance in sulphide mineralogy of the two mineralized zones. The upper zone is generally pyrite rich and bears significant sphalerite in its lower portion (see Assay Table 2). The lower intersection is almost exclusively pyrrhotite with very minor pyrite and chalcopyrite. Clearly at least one more hole is required in this area to aid in interpreting the section.

#### TABLE 2 WEIGHTED ASSAY AVERAGES - HIGHLIGHTS

	Interval (ft)	Drilled Width (ft)	<u>% Cu</u>	<u>% Co</u>	<u>% Zn</u>	Ag oz/t	<u>Au oz/t</u>	Remarks
1)	Hole 9-82							
	780 - 820	40	1.03					Massive sulphides.
	1190 - 1260	70	1.04					Massive sulphides.
	1300 - 1450	150		.197				Massive sulphides.
	1590 - 1620	30	2.20					Massive and stringer sulphides.
Ave	rage grade over	total Mineralized Zone						• • • • • • • • • • • • • • • • • • •
	700 - 1620	920	0.55	.121				01 I
2)	Hole 11-82							
	896 - 922	26	2.55					Massive sulphides.
	922 - 943	21						Open cavity, 6" ground core.
	943 - 957	14	2.64					Massive sulphides.
	95 <b>7 -</b> 1080	123	0.28					Gossan.
	1080 - 1086	6						Open cavity.
	1086 - 1194	108	1.57					Massive sulphides.
	1194 - 1214	20	0.39					Fault gouge, volcanics.
	1214 - 1224	10	2.45					Massive sulphides.
	1224 - 1234	10						Open cavity.
	1234 - 1374	140	1.86					Massive sulphides.
	1374 - 1404	30	11.12					Supergene enriched sulphides.
	1404 - 1604	200	2.18					Massive sulphides.
	1604 - 1749	145	0.99					Semi massive to massive sulphides.

a) Averaged grade of assayed sulphides excluding gossan, cavities, shear zones and supergene enrichment = 1.77% over 643'.
b) Averaged grade of above + supergene enriched zone = 2.18% over 673'.

- c) Averaged grade of above + cavities, gossans, etc. = 1.77% over 853'.
- d) Averaged grade of assayed sulphides excluding gossan, cavities, shear zones, supergene enrichment and using 1% assay cut-off = 2.2% over 498', (excludes sulphides below 1604 ft.).
- e) Averaged grade of assayed sulphides + supergene = 2.71% over 528' using 1% assay cut-off as above.

	Interval (ft)	Drilled Width (ft)	% Cu	<u>% Co</u>	% Zn	Ag oz/t	<u>Au oz/t</u>	Remarks
3)	Hole 12-82							
	80 - 108	28	2.46	.075	0.80	2.36	.022	Secondary py, Fault zone.
	108 - 178	70	0.81	.063	.067	1.33	.027	Secondary py, Fault zone.
	178 - 351	173	3.09	.122				Massive sulphides.
	351 - 614	263	1.18					Massive to semi massive sulphides.
	876 - 1113	237	0.60					Stringer to semi massive sulphides.
	1113 - 1236	123	1.46					Semi massive to massive sulphides.
	1236 - 1362	126	0.74					Stringer sulphides.
Con	nposites							
	80 - 614	534	1.82					
	178 - 614	436	1.94					lst Intersection
	477 - 614	137			1.63 (Z	inc Zone)		
	876 - 1362	486	0.85					2nd Intersection

TABLE 2 WEIGHTED ASSAY AVERAGES CONT.













<u>Surface & Drill inferred Geology</u>: Fig. 5, 15 (in pocket) General:

Relatively little geological mapping has been carried out over the property in general and the deposit area in particular. Fig. 15 shows the results of a compilation of the available surface geology of the deposit area and additional drill obtained information. The subsurface information has been simplified and projected up the assumed dip to surface. 1982 mapping was carried out primarily in the NW ridges and the western portion of the main Windy Craggy ridge. This mapping was carried out by means of stadia-shot survey points for control purposes. In doing so it became evident that the original 1:2500 topo base map required corrections to the elevation contours in the mapped areas and this has been effected on the present base map. Most of the surface geology south and east of Hole 11-82 (Section I-I') was derived from J. J. McDougall's earlier mapping of 1965. Lithologies:

The following summary is necessarily based on field distinctions and classifications. There is a lack of petrographic backup to the geological mapping which will hopefully be rectified over the winter of 1982/83.

a)Unit 2:

Dominantly dark grey to black calcareous to noncalcareous carbonaceous argillites, siltstones, minor sandstones and lighter coloured grey to buff impure limestones, usually bearing variable amounts of f.g. clastic material. These rocks are generally strongly foliated and fissile with a pronounced slaty cleavage except for limestone members which are more commonly massive in character. Many of these rocks, both on surface and in drill core, bear disseminated and stringer sulphides dominated by pyrrhotite. Pyrite occurs more often as distinct laminar beds sometimes producing apparent sedimentary load structures. The sediments display a wide range of deformation features from essentially thin bedded with negligible foliation to strongly slick'n'sided and folded with boudinage of more competent siltstone or limestone layers. Most of the minor fold structures mapped on surface were developed in the argillite/siltstone beds. Prominent foliation strikes at  $140^{\circ}$  to  $175^{\circ}$  usually dipping  $75 - 80^{\circ}$  to the NE. Photo 8-82shows a well developed minor synclinal fold in argillites with interbedded volcanics (tuffs). The axial plane cleavage is well developed in the sediments and the fold axis plungs  $34^{\circ}$  at  $325^{\circ}$ , roughly parallel with the strike of the mineralized zone and enclosing host rocks.

b) Unit 3:

Contains a heterogeneous sequence of relatively unaltered volcanics including both tuffs and flows. Bedding thickness ranges from less than 25 cm. to 20 or 30 metres. Individual beds or flows are continuous over observed strike length of from 100 to 400 metres but have been observed to abruptly pinch and swell or lens out altogether. Recognizable flows often bear vesicles or calcite filled amygdules and may be porphyritic. Massive tuffaceous varieties are f.g. to m.g. and extremely massive with little or no recognizable fabric other than a faintly developed cleavage sub parallel to the prominent foliation developed in the metasediments. Joint surfaces are well exposed but insufficient measurements were made to aid the structural analysis. However, numerous tension-type joints were observed with infillings of gtz and or calcite often displaying crystal growth normal to the joint planes. These joints were most often oriented at right angles to the prominent cleavage direction and could

possibly represent A-C type joints perpendicular to an axial plane cleavage of a major fold. The volcanic rocks in general have been tentatively identified as andesitic to dacitic in composition.

c) Unit 4:

A "mixed bag" suite of altered rocks, dominantly composed of strongly foliated, chloritic volcanics + minor epidote. The assemblage also includes cherty tuffs, silicified and chloritized metasediments and minor sideritic or ferroan dolomite host rocks to sulphides. The rocks of this unit often contain variable amounts of sulphide from disseminated to stringer veins to semi-massive bands and pods. They also occur as intercalated lenses or seams within the massive sulphide body per se. For this reason surface exposures, mainly along the ridge on the southern margin of the sulphides and on the north western "Craggy" ridges, are rusty stained and occasionally gossanous in appearance. The major structural fabric is a pronounced foliation striking between 145 and 180° and sometimes wavy or crenulated attesting to a probable secondary, presumably weaker, deformation phase. Minor pillow-like structures have been observed on occasion in some of the altered volcanics but tend to be vague in outline and difficult to separate from the deformation overprint.

d) Unit 7:

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Semi-massive to massive sulphides. The sulphide mineralogy includes pyrrhotite, pyrite, chalcopyrite and todate, rare sphalerite. Pyrrhotite is the dominant sulphide in the SE portion of the sulphide body including all of the 1981 drill holes and Hole 9-82. Between Hole 9-82 and Hole 11-82 a major sulphide phase change occurs whereby pyrite becomes the dominant sulphide in hole 11-82 and in hole 12-82 with minor sections of banded py and po and pyrrhotite rich layers. Sphalerite was also first noted to a minor degree near the bottom part of the mineralized intersection in hole 11-82 and it is much more abundant in Hole 12-82 with zinc running at an average 1.63% over 42 m. in the lower portion of the first sulphide intersection of Hole 12. Silver values, while low, appear to correlate with sphalerite bearing intersections with assays up to 0.88 oz/ton. This compares with a more usual value of .02 to .08 oz/ton in the non-zinc bearing sulphide zones.

The sulphides in general are usually f.g. and massive though sections of coarser grained recrystallized ? pyrite have been observed. Observations of apparent fine sulphide banding in portions of the zone may indicate an original stratiform layering now disrupted and distorted by intense deformation and shearing. Slick'n'sided surface are not uncommon within the sulphides and cleavage or foliation is often outlined by stilpnomelane and/or chlorite on cleavage faces. Gypsum has been observed lining open fractures.

e) Unit 8:

This is not a lithological type but rather serves to outline areas of promounced stringer type sulphide mineralization irrespective of rocktype. It is however, most often apparent in rocks of Unit 4.

#### Structures:

The various units south of the mineralized zone display strikes ranging from 100 to  $140^{\circ}$  and dip towards the NE at inclinations of 50 to  $80^{\circ}$ . Attitudes from surface outcrops on the NW "Craggy" ridges are less readily obtained

but appear to have the same general strike with dips usually vertical. As mentioned in the description of the lithologies there is a well developed foliation observed in most of the rocks striking at 145° to 180° with dips variable but always Evidence from minor fold structures suggest that this steep. foliation may be partly due to an axial plane cleavage developed in a major fold structure, probably synclinal from indications from tops determinations in Hole 11-82. Some of the variation in foliation plane attitudes could be due to widespread faulting and shear induced foliation. While not readily obvious from the limited surface mapping, evidence from drill core suggests extensive shearing and faulting, such that the compilation map is probably guilty of gross simplification of the overall structure.

At present the writer's interpretation leans towards the view that the sulphide body at Windy Craggy may occupy the axis of a major fold, presumably synclinal, which plunges moderately towards the NW. The overall symmetry of the sulphides within the enclosing lithologies as shown on Fig. 5 and 15 is not incompatible with such a structure. The fact that "footwall-type" stringer mineralization tends to occur in altered rocks on both sides of the main sulphide zone is also compatible with the fold hypothesis: the gross sulphide phase change from pyrrhotite dominant to pyrite dominant towards the NW with coincident increases in sphalerite and minor amounts of precious metals reflect the general scheme of progression up a layered massive sulphide body and is also compatible with a synclinal structure plunging to the NW. Nevertheless the still scanty available information and vast step-outs in drill hole spacing in the NW strike extension make for easy but potentially hazardous arm-waving.

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#### Conclusions and Recommendations

 The 1982 drill programme has extended the inferred probable strike length of the Windy Craggy sulphide deposit a further
 700 metres to the Northwest and demonstrated that the mineralized zone is maintaining a width greater than 100 metres.

2) With the exception of hole 9-82 the 1982 programme has confirmed the suspected trend towards better copper grades and widths in the NW extension of the sulphide zone. In addition the drilling discovered the existence of an extensive py rich section within the deposit with associated copper values and indications of sphalerite bearing horizons. The presence of sulphide mineral zonation may prove critical in evaluating the direction of further exploration in terms of delineating higher grade zones with potential precious metal values.

3) With reference to the reduced compilation plan Fig. 5 it is essential to obtain further information in the gap between Holes 11 and 12, both to assure that the mineralization at least maintains the expected widths and grade and clarify the degree of complication in the attitude of to the zone. In particular the possibility that the sulphides occupy the axis of a synclinal fold structure plunging to the NW may allow speculation of a higher grade shoot plunging parallel to the keel of the fold north west beneath the Craggy ridges. Information on sulphide mineralization from 3 or 4 drill holes in this area would be invaluable in assessing the structural complications and the depth/width continuity of the deposit. A series of holes could be drilled from the present drill sites as per the following suggestions:

- a) Hole 13-83: A steeper cut beneath Hole 11 on section
   I-I'. Depth 800 900 m.
- b) Hole 14-83: From the site of Hole 11-82 -60<sup>°</sup> on 025<sup>°</sup> to assess the "gap" between Hole 11 and 12. Depth 1000 m.
- c) Hole 15-83: From the site of Hole 12-82 -60<sup>o</sup> on 090<sup>o</sup>. Depth 500 m. to assess the altered and gossanous host rocks east of Hole 12 and along the strike extent of the 1981 Dighem anomaly.
- d) Hole 16-83: From the site of Hole 12-32 a deeper cut beneath Hole 15-83 dependant on results or alternatively a steeper cut beneath Hole 12-82 on Section M-M'. Depth 500 600 m.

Proposed Drilling requirements: 4 holes, 2600 to 2800 m. All-in cost approximately 1.2 million.

4) The Dighem Survey should be extended to cover the NW and SE strike extensions of the mineralized zones with consideration to a more extensive survey of the claim area and surroundings, paying particular attention to anomalies near the contact of the metasediments and the volcanic complex.

5) The structural complexity of the deposit area in particular and the claim area in general requires a programme of reconnaissance geological mapping tied in to detailed mapping and structural analysis, if possible, in the vicinity of the Windy Craggy deposit. This should include petrographic studies of the rock assemblages and lithogeochemical analysis of the host and footwall rocks from previous drilling.

#### Tats Showing

#### Introduction

This report summarizes results of geological mapping, lithogeochemical sampling and a limited magnetometer survey on a portion of the Alsek and WC-14 Mineral Claims. The intent of the surveys was to cover a known showing of copper and cobalt mineralization in basic volcanic rocks of presumed Cambro-Ordovician age and test for extensions of such mineralization under glacial debris. The prospect investigated has been informally named the "Tats Showing".

The work discussed herein was carried out by Falconbridge personnel on various dates in July and August 1982. The survey results indicate that any extensions of known mineralization are most likely located to the south and west, off the boundaries of the programme area.

Fig. 4 locates the survey area in relation to the existing mineral claims. The "Tats Showing" area is located approximately 2 km north of the project base camp at Tats Lake, on a south facing slope at elevations ranging from 1100 to 1500 m.

Geological Mapping

1. Introduction

Mapping of the Tats showing was carried out at 1:2,500 scale during five days in July, 1982, by T. Heah, a graduate geologist from U.B.C.

The purpose of the mapping was to study the lithology, metamorphism, structure and mineralization in the showing area.

Six units, one intrusive and five basic volcanic units, were delineated during the course of mapping (Fig. 28).

-30-

#### 2. Field Methods

60 stadia stations were surveyed and used as mapping control (Fig. 27).

Steep topography made the tracing of contacts difficult, and in many cases impossible.

#### 3. Results of Mapping

a) Lithologies

Five metamorphosed basic vaolcanic units and one intrusive unit were found during mapping.

#### Unit 1 Tuff

Tuff is rusty or grey-green weathering. On fresh surfaces, it is green, aphanitic to fine grained, siliceous, and somethimes bedded, with beds ranging from 2mm to 4cm in thickness. It is intermixed with basic flows and volcanic breccia in parts. Pyrrhotite and pyrite are sometimes present as fine disseminations and veins.

#### Unit 2 Interbedded Flows

This unit comprises, in order of abundance, basalt, basaltic andesite and pillow basalt.

Basalt is both dark grey-green and rusty weathering. It is dark green, fine to medium grained, usually massive but in places faintly foliated. In parts, a porphyritic texture is poorly developed. Pyrite, chalcopyrite and pyrrhotite are present in parts.

Basaltic andesite is green and/or rusty weathering on fresh surfaces, it is green, medium grained, somtimes vesicular and amygdaloidal with chlorite-filled amygdules ranging from one to four millimetres in diameter. Phenocrysts of feldspar are sometimes chlorite-replaced.
Pillow basalt consists of ovoid to elongate amygdaloidal pillows set in a green matrix of fine grained, bedded, siliceous tuff. The tuff seems to ooze around the pillow rims, giving a convolute appearance to the tuffaceous beds. The pillow margins are aphanitic to fine grained, indicating chilling on extrusion of the pillows. Amygdules are chlorite and calcite filled. Pyrite cubes are sometimes present in pillow centres and rims. Epidote and chlorite partially or wholly replace pillows.

Pyrrhotite, pyrite, chalcopyrite and magnetite are present, with pyrrhotite being most widespread.

#### Unit 3 Volcanic Breccia

Volcanic Breccia is dark green or grey weathering and massive. It contains angular, green, siliceous tuff and feldspar porphyry dacite clasts up to 5 cm across set in a dark green, very fine grained, chloritized basalt matrix. Several clasts are wholly or partially epidotereplaced. Finely disseminated pyrite is present in the clasts of tuff and dacite. This unit is usually intermixed with tuff and various basic volcanic flows.

Chalcopyrite and pyrrhotite are present locally.

#### Unit 4 Interbedded Flows and Pyroclastics

This unit consists of basalt, volcanic breccia and tuff, as described above.

Pyrrhotite is present as fine grained disseminations and veins.

#### Unit 5 Foliated Volcanics

Unit 5 comprises of phyllite and phyllitic schist, and are probably greenschist-metamorphosed equivalents of basic volcanic rocks. The phyllite is green, fine to medium grained, has a well developed parting, and a phyllitic sheen, due probably to fine grained chlorite and sericite. It has rusty fractures in parts. Pyrite veins and disseminations are sometimes present, and preferentially developed between phyllitic partings.

The phyllitic schist is rusty and green-grey weathering and has a poorly developed parting. It is green, medium grained, and contains incipient fine grained chlorite and minor biotite. Pyrite and pyrrhotite are common as fine to coarse grained disseminations.

#### Unit 6 Hornblende Gabbro

This rock is intrusive into the above volcanic units, and is grey weathering, massive, medium grained and unfoliated.

b) Metamorphism

The metamorphic mineral assemblage of chlorite, epidote and actinolite is characteristic of greenschists and metamorphism, possibly up to actinolite grade.

Chlorite is pervasive in all volcanic rocks studied, and gives a green colour to the volcanics. It is found filling amygdules and replacing phenocrysts.

Epidote, together with chlorite, wholly or partially replaces clasts and pillows.

Actinolite is found as laths perpendicular to vein walls and as felted masses in several of the volcanic rocks studied in hand specimen.

In addition, quartz and calcite veining and silicification may have been synchronous with the metamorphism of the area.

Quartz and calcite veins sometimes cause brecciation of the country rock. Silicification is most evident in the more porous tuffs, though some silicification is suspected of the other volcanic rocks as well. c) Structure

Structure appears simple. Steep (greater than forty degree) dips to the northwest and southeast are observed.

Faulting is inferred to control mineralization, which is concentrated along and in the western of the two northwesterly trending creeks.

A detailed structural analysis was not possible due to the lack of sufficient data.

#### d) Mineralization

As mentioned earlier (in structure), mineralization is probably fault-controlled, and is concentrated along and in the western of the two creeks in the area.

Mineralization consists of chalcopyrite, pyrrhotite, pyrite and magnetite.

Chalcopyrite is found as coarse grained veins and pods in the western of the two creeks.

Pyrite is found as disseminated cubes and veins along and bordering the mineralized creek.

Pyrrhotite is present as stringers and fine disseminations away from the creek.

Magnetite, associated with pyrite, is found in pods and veins in the western most creek.

#### 4. Conclusions and Recommendations

Mineralization seems to be fault or fracture controlled, but more mapping, especially along the creek to the south, is needed to accurately determine the extent of mineralization and its control.

#### Geochemistry

A total of 30 rock chip samples were collected over the area of detailed mapping and were submitted to Bondar - Clegg Ltd. in Whitehorse for lithogeochemical analyses for major oxides and elemental Cu, Ag, Zn and Co. The major oxides were determined by X-ray fluorescence methods in the Vancouver lab of Bondar - Clegg. The Cu, Ag, Zn and Co analyses were done by normal geological analysis methods at the Whitehorse lab office.

Samples were collected from surface outcrops in the field as a series of chip samples over approximately 2 metres of radius at each site. Attempts were made to collect fresh rock samples where possible but some weathered material was inevitably included.

- 1. Map Plots
  - a) Interpretation

Figures 31 through 34 show the analytical results at each sample location. Inspection of these map plots infers several trends:

- Tendency to elevated Cu, Co, Tot. Fe% and S towards the south and west extending off the boundaries of the survey area. Contour plots for these elements are shown on Fig. 16, 17, 18 and 19.
- ii) Complementary trends in relative depletion of CaO, Na2O and tendency to lower SiO<sub>2</sub> content towards the south and west. Contour plots for these major oxides are shown on Fig. 20, 21 and 22.

The above inferred trends suggest that there is an increase in disseminated sulphides towards the south and west as evidenced by trend(a). Secondly the sampling in this

area may have covered the margins of an alteration zone associated with such mineralization characterized by relative calcium and sodium depletion in the host rocks.

#### 2. Computer Analysis

The sample data was run through the Q'Gas computer programme to calculate correlation coefficients and statistical data. Before doing so it was necessary to remove 1 sample (TC-8) from the calculations due to its obvious anomalous nature, most likely resulting from inclusion of enriched gossanous material and sulphides.

Table 3 lists the sample data. Table 4 lists the calculated Pearson Correlation coefficients. Care must be exercised with some of these correlations as they may prove to be spurious on closer examination. For example Cu and Ag show strong positive correlation, but this is due to a cluster of samples with near detection limit Ag (.1 ppm) being correlated with a single spot high value (Ag = 0.4 ppm). The following variable pairs were found to exhibit significant correlations:

Positive Coefficients:	Negative Coefficients:
1) Co, S	5) Co, CaO
2) Co, Total Fe	6) CaO, Total Fe
3) Total Fe, S	7) SiO <sub>2</sub> , FeO
4) Na <sub>2</sub> O, TiO <sub>2</sub>	
cer correlation plots of	variable pairs 1,3,4 and 6

Computer correlation plots of variable pairs 1,3,4 and 6 are shown on Figs. 23, 24, 25 and 26. Less significant coefficients include positive correlations of Cu and Total Fe and negative correlation of Cu and CaO.

a) Interpretation

The above statistical calculations correspond well with the trends inferred from inspection of the map plots of the analyses. The strong association of cobalt with iron and sulphur suggests that the cobalt is contained within the pyrite and pyrrhotite sulphides observed during field mapping and allows the speculation of increasing concentrations of these sulphides to the south and west.

#### 3. Conclusions

The major conclusion derived from the rock geochemical sampling is that the surveyed area does not appear to contain economic sulphide mineralization. However, the survey coverage should be extended to the south and west in order to assess the extent and significance of the inferred anomalous trends in cobalt and copper values.

#### Geophysical Survey

The extent of geophysical survey coverage was restricted to 4 lines of magnetometer surveying over a restricted portion of the study area. The instrument used was a Barringer proton precession magnetometer. No diurnal drift corrections were applied due to the small coverage and rapidity of the field survey which was carried out in under two hours.

The survey coverage was restricted by steep topography to the glacial debris covered zone below the toe of a small hanging glacier located to the NE and off the study area. It was designed to investigate the possible extension of any mineralized zone beneath the debris-covered area.

Results are shown on Fig. 29 and display only a weak magnetic gradient increasing to the SE. Contour line trends appear to be compatible with the N NW strike of the mapped lithologies. The relatively higher intensity readings on the southernmost line most likely reflects the increasing proximity to bedrock at the margins of the glacial debris cover. No significant anomalies were detected.

### TABLE 3 ANALYTICAL DATA - TATS SHOWING

SAMPLE NO.	<b>510</b> 2	FEO	AL203	CAO	NGO	NA20	K20	NNO	TI02	P205	S	LOI	CU	ZN	AG	C0
8614 GT-1	51,000	11.000	14,100	11.300	7,400	2.800	0.100	0.170	0.500	0.210	0.060	1.430	144.000	5.000	0.100	8.000
29615 2	52,500	15,400	13.600	6.500	5.500	4.300	0.100	0.000	0.800	0.110	0.060	1,250	86.000	10.000	0.100	10.000
78616 3	51.000	12,700	15.000	8.300	6.200	4.100	0.200	0.170	0.650	0.270	0.220	1.590	130.000	10.000	0.100	14.000
78617 4	51.500	12.300	13.300	9.700	7.000	3.400	0.200	0.190	0.650	0.160	0.100	1.080	104.000	5,000	0.100	14.000
78618 5	48.000	14.900	15.000	7.700	7,150	3.600	0,100	0.180	0.650	0.130	0.070	2.260	142.000	20.000	0.100	20,000
73619 6	48.000	18,300	14.400	5.100	7.000	4.000	0.100	0.170	0.800	0.090	0.250	2,530	146.000	15.000	0.100	12.000
78520 7	44.500	22.900	14.400	2.200	7,600	3.300	0.100	0.080	0.700	0.160	0.400	4.560	510.000	20.000	0.100	42.000
78621 8	50,000	15.90 <b>0</b>	15.500	<b>3.05</b> 0	6.500	4,200	0.300	0.090	0.650	0.250	0.270	3,070	960.000	10.000	0.100	22,000
78622 9	45.500	21.400	13.300	3.700	7,800	3.000	0,100	0.080	0.800	0.200	0.080	4.680	520.0 <b>00</b>	20 <b>.0</b> 00	0.100	24.000
78623 10	47.000	20,300	13.000	4.000	7.000	3.700	0.100	0.070	0.700	0.120	0.200	4,310	2020.000	20.000	0.400	26.000
78624 11	50.500	14.000	13.800	8.900	7,200	4.100	0.100	0.190	0.700	0.140	0.060	0.840	160.000	10.000	0.100	10,000
/3625 1.2	50,500	12,900	14.200	6.600	7,950	4.200	0.100	0.170	0.650	0.190	0.050	1.760	230,000	30 <b>.00</b> 0	0.100	20.000
78626 12	50.000	14.000	13.500	9.500	7,200	3.000	0.100	0.210	0.600	0.090	0.040	1.220	116.000	10.000	0.100	10.000
78627 14	50.500	17,400	13.300	3.900	5.600	4.700	0.100	0.080	0.950	0.180	0.060	3.330	192.000	5,000	0.100	14.000
73628 15	45,500	22,400	14.200	1.100	5,700	3.900	0.100	0.080	0.650	0.080	0.920	6.210	430.000	20,000	0.100	76.000
78629 16	<b>45,</b> 500	26,300	11.800	1.850	5.100	3,600	0.400	0.080	0.700	0.170	1.550	3.730	345.000	10.000	0.100	92,000 <sup>ω</sup>
78630 17	49.000	17.90 <b>0</b>	13.500	4.800	7,500	4.100	0.100	0.130	0.850	0.090	0,260	2,560	162.000	20.000	0.100	38.000 ĩ
78631 18	56,500	11,400	14.000	5.900	4.150	5.800	0.100	- <b>0.100</b>	0.900	0.430	0.060	0.750	68.000	5.000	0.100	16.000
78532 19	48.000	16.400	14,100	5,800	7.750	4.000	0.100	0.170	0.700	0.110	0.040	2.370	196,000	30.000	0 <b>.100</b>	28,000
78633 20	51.000	15,900	13,500	7.300	5.900	4,300	0.100	0.180	0.950	0.160	0.090	1.110	174,000	5.000	0.100	18,000
73634 21	50.500	8,400	14.800	6.800	5.450	5,400	0.100	0.100	1.050	0.980	0.020	5.840	20 <b>.000</b>	<b>30.0</b> 00	0.100	18.000
73635 TC-1	<b>44.50</b> 0	21,200	14.500	3.850	7.600	3.300	0.100	0.100	0.700	0.130	0.370	4.060	160.000	15.000	0.100	34.000
78636 2	47.000	10.400	17,800	11.500	5.800	2,70 <b>0</b>	0.700	0.110	0.500	0.350	0.040	2,700	52,000	10.000	0.100	18.000
73637 3	50 <b>.00</b> 0	13.000	14.400	8.600	7.000	3.800	0.100	0.150	0.600	0.140	0.020	1,840	40,000	10.000	0.100	14.000
78638 4	48,000	11.900	14.800	10.700	9.000	2,100	0.100	0.150	0.600	0.120	0.020	2.160	40.000	5,000	0.100	16.000
78639 5	48.500	16.200	10.900	12.100	5.400	2,700	0.100	0.180	0.450	1.550	0.360	1,130	116.000	5.000	0.100	20.000
<sup>7</sup> 3 <b>640</b> 6	48,500	15,700	14.000	4,650	7.200	3,000	0.100	0.130	0.500	0.180	0.040	3.630	120 <b>.00</b> 0	20.000	0.100	60.000
28641 7	49.000	14,700	13.100	7,600	7+250	3.500	0.100	0.210	0.800	0.250	0.130	15.08 <b>0</b>	38+000	15,000	0.100	18.000
78642 8	25.000	45.500	1,700	8,700	2,350	0.300	0.100	0.190	0.150	0.170	8.130	13.110	1320.000	25.000	0.100	740 <b>.000</b>
796 <b>43</b> 9	44.000	15,900	15.000	8.400	8.050	2,900	0.100	0.150	0.750	0.120	0.130	3,930	118.0 <b>0</b> 0	30,000	0.100	30.000

#### TABLE 4 PEARSON CORRELATION COEFFICIENTS

#### TATS DEPOSIT LITHOGEOCHEM 055/084 1982

#### CORRELATION MATRIX: (99.0 INDICATES COEFFICIENT COULD NOT BE CALCULATED)

	SI02	FEO	AL203	CAD	MGO	NA20	K20	MNO	TI02	P205	S	LOI	CU	ZN	AG
S102	1.000	-0,652	-0.074	0.321	-0.422	0.581	-0.136	0.139	0.233	0.152	-0.437	-0.346	-0,252	-0.441	-0,128
FEO	-0.652	1.000	-0.415	-0,757	0.025	-0.137	-0.054	-0.420	0.055	-0.257	0.722	0.230	0+429	0+154	0.203
AL203	-0.074	-0.415	1.000	0.146	0.161	-0.018	0.434	-0.027	-0.092	-0.290	-0,353	-0.067	-0.125	0.188	-0,164
CAO	0.321	-0.757	0.146	1.000	0.115	-0.363	0.110	0.619	-0.389	0.337	-0,525	-0.308	-0.447	-0.348	-0.166
MGO	-0.422	0.025	0.161	0.115	1.000	-0,579	-0.292	0.341	-0.280	-0.431	-0.315	0.104	0.054	0.362	0.043
NA20	0.581	-0.137	-0.018	-0,363	-0.579	1.000	-0,186	-0.244	0.728	0.061	-0.044	-0+048	0.013	0.101	-0.002
К20	-0.136	-0+054	0,434	0.110	-0.292	-0.186	1,000	-0,171	-0.290	0.033	0.274	-0.040	800.0	-0.212	-0.068
MNO	0.139	-0+420	-0.027	0+ <b>619</b>	0.341	-0.244	-0.171	1.000	-0.265	0.061	-0.306	-0.061	-0.385	-0.074	-0.237
TI02	0.233	0 <b>.05</b> 5	-0.092	-0.389	-0.280	0.728	-0+290	-0.265	1.000	-0.061	-0.073	0.223	-0.028	0.181	-0.009
P205	0.152	-0.257	-0,290	0,337	-0.431	0.061	0.033	0.061	-0.061	1.000	-0.012	-0.009	-0.145	-0.087	-0.081
3	-0.437	0.722	-0 <b>.3</b> 53	-0 <b>.52</b> 5	-0.315	-0.044	0.274	-0.306	-0.073	-0.012	1.000	0.176	0.178	-0.030	-0.004
10I .	-0.346	0.230	- <b>0</b> ,037	-0.308	0,104	-0.048	-0+040	-0.061	0.223	-0.009	0.176	1.000	0.104	0.320	0.082
Cü	-0.252	0.429	-0.125	-0.447	0.054	0.013	0.008	-0,385	-0.028	-0.145	0.178	0.104	1.000	0.158	0.866
ZN	-0,441	0.154	0,188	-0.348	0,362	0.101	-0+212	-0.074	0.181	-0.087	-0.030	0.320	0.158	1.000	0,127
AG	-0.128	0.203	-0.164	-0,166	0.043	-0.002	-0.068	-0.237	-0.009	-0.081	-0.004	0.082	0.866	0.127	1.000
C0	-0.545	0.700	-0.215	-0.639	-0,138	-0.103	0.176	-0.353	-0.107	-0.130	0.831	0.255	0.168	0.268	0.004

<u>NB</u> Sample T.C-8 removed prior to calculation due to extreme anomalous influence

















TATS LITHOGEOCHEM MINUS AG 055/084 1982

KURTOSIS: 3.29 8.95 CORRELATION COEFFICIENT: 0.8306

FIG. 055-82-24 CORRELATION PLOT TOT.FE% vs. S%



TATS LITHOGEOCHEM MINUS AG 055/084 1982



TATS LITHOGEOCHEM MINUS AG 055/084 1982

NA2U	TI02
30	30
2.10	0,45
5.80	1.05
3.71	0.71
0.14	0.03
0.79	0.14
21.35	19.99
0.47	0.41
0.34	-0.21
0.	7284
	NA2U 30 2.10 5.80 3.71 0.14 0.79 21.35 0.47 0.34 0.



**11.200** TOT.FE%

14.000

16.800

19.600

22.400

25.200

28.000

FIG. 055-82-26 CORRELATION PLOT TOT.FE% vs. CAO%

STATISTICS FOR VARIABLES:	TOT.FE%	CAO
NUMBER OF OBSERVATIONS:	30	30
NINIHUM:	8.40	1.10
MAXIMUN:	26.30	12,10
NEAN:	15.86	6.67
STANDARD ERROR OF MEAN:	0.75	0.55
STANDARD DEVIATION:	4.10	2,99
COEFFICIENT OF VARIATION:	25.87	44.80
SKEWNESS:	0.59	-0.01
KURTOSIS:	-0.18	-1.03
CORRELATION COEFFICIENT:	-0.75	71

2.800

5.600

8.400

0.000

Ŧ١

0.000

**0** POINTS OUT OF RANGE

## APPENDIX A

Detailed Drill Logs and Assay Records DDH 9-82, 11-82, 12-82

# DR

•

11 I L					Inclination	Bearing	PROPERTY WINDY CRAG	GY	Length 507	7.5m	(1665	<u>ft)</u>			HOLE	No;	9/82			Poges	<b>₽</b> 1 of
ILL F					Collor -58° 45'	1148°24	Locotion Section G-G'		Hor. Com	np.	/	Veit. C	omp.	\$	Sheet	1	of 8				
	. <b>.</b>		_		152,4M(590) -54 <sup>2</sup> 245,59(80) - 54 <sup>2</sup>		Elevation 1812.0m		Bearing	. <u></u>					.0 <u>0</u> 0	d by T.	Chand1	<u>er</u>			
UNBRIDG		ILE	U		364,58(10/C) - 53° 365.8M(1200) - 53°		Coordinates 10.466.70	N	Beaun Ju	1 in 10	1982 /	Complet	d July 2	6 82 S	ampl	ed by 1	. Chand	ler, T	. Heah		
					443.8M (1456) -48° 467.7M (1600) -47°		9,656.01	<u> </u>	Core si	ze N	NQ/BQ /	Recove	y 80	%	Drille	r Fly	8 Rig	#2			
DEP	OTH - metres	REC	:ov'y		DESCR	RIPTION		IF	ITERSECTION	GR	RAPHIC	1	SAMPL	E S		A	SSAYS			COMPC	SITES
FROM	TO	ROD	Core						ANGLE	$\downarrow \_$	1:500	No.	From	ro F	•	_			1		
	1			NOTE :																	
				Hole drilled	l to 574ft in 1981. s	uspended du	e to freezing water supp	ly and													
				broken BQ co	ore barrel in hole. R	e-entered J	uly 11, 1982 and continu	ed to								GRA	PHIC LOG	LEGEN	ND		
				completion d	lepth of 507.5m (1665	ft).											Limestone				
				0-574ft (174	.9m) RELOGGED				·								Argillaceo	as Limest	tone		
0	28,35	-	48%	Limestone_an	d_interbedded_argill	ite. siltst	one			<u><u> </u></u>						5 207 130 20 20 20 1940 1952 105 105 20 19 766 195 161 20	Silty Lin	nestone			
0	8.23	-	20%	<u>Casing</u> . No c	ore. Minor mud and a	rgillite, l	imestone fragments									1	Siltstone	:			
(0	27)				•						<b>S</b>	asing					Argillite	Silty are	gillite		
8.23	14.33	-	60%	Light to dar	k gray <u>limestone.</u> Co	re is shatt	ered, extremely broken. 1	Massive	······································		STATE STATE						Intermedia	le volcanic	c flow/tuff		
(27	47)			limestone se	ctions show blocky f	racture. Ot	z. calcite fill fracture	s with B	edding 10°	8.23	FIL		1			The second	**, pora	phyritic	····•	L	
				occasional i	ron oxide crusts & f	ilms. Rare	py as dissem. small bleb	s in lime-									11, cher	y or silic	rfied		
				stone & sugg	estion of weakly dev	eloped foli	ation. Occ. laminae of m	ore		14.33							Chert, chert	ytuff or	breccia		
				siliceous cl	astics at 10° to cor	e axis.			· · · · · · · · · · · · · · · · · · ·	15.85							Sulphide	<u>s</u>			
14.33	15.85	-	60%	Dark gray li	mestone and shale/ar	gillite. Sh	attered broken core with	nmrs.		1						ABBR	EVIATION.	5 and SY	MBOLS		
(47	52)			quartz-calci	te veins and crusts,	films and	vuggy linings of iron ox	ides.		21.34						po	pyrrhoti	te			
15.85	21.34	-	60%	Crushed pebb	ly zone of mixed lim	estone and	<u>shale</u> as above but limes	tone is		1	N 1	19				РУ	pyrite				
(52	70)			more massive	& is recovered as s	hort core l	engths amidst fragmented	shale		28.35	1 min					ср	chalcopy	rite			
	L			debris. Nmrs	<u>calcite veinlets and</u>	d fracture :	fillings ± quartz.				A STA					occ.	occasion	<u>al</u>			
21.34	28.35		60%	<u>Light gray 1</u>	<u>imestone similar to a</u>	above but l	ess massive, more broken	generally B	edding 35°-			-	ļ		_	nmrs.	Rumerou	15			
(70	93)			with occ. ru	sty coatings on fract	tures. Mino:	r argillite and siltston	e occur	40°							qtz.	quartz				
<b></b>				as bedded ba	nds 3mm to 5mm thick	at_35°-40°	to core axis. Hairfine d	calcite		36.75					_	dissem.	dissemi	nated			
				veinlets.									ļļ.			RQD	ROCK Qu	ality Desr	cription		
28.35	36.73	-	80%	Pale Felsic	Dyke or Flow					1						NQ	<u>}</u>				
(93	120.5)			Gray-green m	<u>assive felsic dyke ('</u>	?) or flow.	Strongly fractured with	occ.rusty								BQ	S Core siz	<u>e</u>			
		<u> </u>		iron oxide c	rusts on joint plane:	s. Faint scl	nistosity developed with			49.68						Fassar	Fault or St	ear Zone	2.		
		1		muscovite/se	ricite flakes. Compos	sed primari	ly of qtz, plagioclase an	nd micas.				ļ						_			
36.73	68.58	16%	54%	Mixed argill	ite and calcareous a	rgillite wi	th interbedded limestone:	s, silt-								4			<u> </u>		
		<u> </u>		stones and f	.g. tuffs.		9						<b>↓</b>						<u> </u>		
36.73	49.68	33%	50%	Dark gray to	black <u>calcareous</u> ar	gillite and	t.g. argillaceous limes	tone.													
(120.5	163)			Light gray b	ands of purer limesto	one occur s	poradically with some lin	mey silt- Be	lding 25°-											, 	
	L			stone layers	. The argillites bea	r much py a	s subhedral blebs and ag	gregates, 30	° occ ± 10°				<b> </b>		-			_	ļļ		
	<u> </u>			crosscutting	veinlets and f.g. 1	ayers or la	minae parallel to beddin	g. Some				ļ	<b> </b>			_ <u>_</u>		_	┝──┤		_
				<u>py laminae a</u>	re discontinuous and	lensoid, o	thers are offset by the	numerous					<b> </b>						┝───┾		_
				shears and f	ractures. Bedding is	parallel t	o foliation at 25-30° to	core				L	╞──┣		-+	+		_ <b>_</b> !	+ + + + + + + + + + + + + + + + + + +		
	<u> </u>			axis but occ	asionally the beddin	g core angl	e drops to c. 10°.					·	└──┟		<u> </u>			- <b> </b> '	┦───┤		_
	ļ			36.73 - 4	2.37 (120.5 - 139ft	) Very bro	ken with much iron oxide	s in				ļ	<b>├</b> ─── <b>├</b> ─			+		<u> </u>	ļļ.		4
	ļ	<b> </b>			crusts on open	fractures.						ļ	<b>├</b> ─── <b>├</b> ─					_ <b></b> _'	┢───╁		
	L												<b>└</b> ─── <b>│</b>						<b>i</b>		
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## DRILL

		-		COOD Inclination Bearing PROPERTY		Length						
	1011		KE			Hor. Com	<u>p.</u>	/	Ver	<u>'t. Co</u>	<u>mp.</u>	
	<b>.</b>		-	Elevation		Bearing						
NBRIDG	E LIMI	IEI	נ	Coordinates	N	Begun		/(	Com	ciete	d	
					<u>E</u>	Core siz	•	/	Rec	<u>over</u> :	/	<u> </u>
DEPTH (fi FROM	-metres :) 1 TO	REC	:0V <sup>`</sup> Y  Core	DESCRIPTION	INTE	RSECTION ANGLE	G	<b>RAPH</b> 1:500	I C	No.	SAMF From	1LE
49.68	55.02	θ	55%	Calcareous argillite, argillite, limy siltstones similar to previous unit but	Bed	ding 30°	49.68	F	ļ		L	
(163	180.5)			strongly sheared and/or foliated with numerous cross-cutting qtz-calcite vein	15		F,					
				and lenses - some with c.g. blebby py. Several cherty (tuffaceous?) bands			F					L
				present with much disseminated py.			55000		Ļ			
				Strong Fault gouge at 51.82 (170ft) and at 53.04m (174ft).	ļ		ĺ					┣_
55.02	66.14	67	60%	Dark gray to black mottled, sheared, silicified argillite/siltstone. Strongly	Fol	iation//	1		۶,			┣
(180.5	217)			deformed lensy banding possibly shear induced? Slick 'n' sided surfaces	bed	ding 35°	F		-			⊢
<u></u>		<u> </u>		common. Strongly sheared // foliation and bedding at 35° to core axis. Py	<b> </b>		66.14					┣_
		↓		occurs as elongated lenticular grains along foliation. Fault gouge at end.			68.58 -	A Char	ł			┣──
66.14	68.58	0	42%	Dark green to gray mixture of deformed, sheared argillite?, siltstone and	Bedd	<u>ing @35°</u>		A 30 10				
(217	225)	i		minor tuff beds. Strongly sheared & brecciated probably due to fault zone				State 1	$\vdash$			
		+		at end of last unit.			77.72		NQ			
68.58	89.31	29%	70%	Interbedded cherty dacitic? tuffs and andesitic flows.	Foli	ation 30°		1 and 1				<u> </u>
(225	293)	<u>i</u>	<b>↓↓</b>						⊢			┢
68.58	77.72	12%	58%	Light green to gray f.g. massive, non-porphyritic rock. Foliated with develop			85.34,		┝			
225	255)		<u>  </u>	ment of sericite and minor chlorite. Aphanitic irregular chert bands occur			Q0 31 .		┢			
			┼──┤	sporadically. Po occurs as small elongated blebs paralleling foliation at 30			1.51		┝			
		<u> </u>	╀╴┨	Blebs are 1-2mm long axis .35mm short axis. Strongly fractured with iron			<b>43</b> .88 ,	ALL S	┝			
		+-	$\left\{ \begin{array}{c} \\ \end{array} \right\}$	oxides + minor po in fractures and in tension-like gashes. Slick 'n' sided				THE A	⊦			<u> </u>
				snear planes are common. Grades into following rock.		{		A 544	┢			
$\frac{11.12}{255}$	85.34	36%	92%	Green, f-m.g. massive volcanic-probably andesite. Patchy porphyritic zones of				Rom u	┣			
(2))	200)		┨	dark green chrotite phenocrysts probably after pyroxene. Very minor chrotite				STAT A	┝			
		╂	-+	infillings in 2-3mm smugdulos Sparsely discominated no with one or two pyr-				- CA	┢			
			┼──┤	Infillings in 2-3mm amygdules. Sparsery disseminated po with one of two py-				The second	┝			
			┼──┤	rich veinlets. General tendency towards increasing fracture density and iron-			112.78					
05 07	00.01	F / 9/	000	D l contractores with depth.								
03,34	203)	154%	100/4	parallel to foliation. Strongly deformed & brocciated with patches of f a					F			
200	293)	+	<b> </b>	derb energe ablanite (alternal unlaging?) De with minute a second sign					F			
		+	┼╌╌┤	dark green chiorite (altered voicanics:). Po with minor py, cp appears in			I		F	+		
		+		crosscutting vennets as irregular blebs or stringers Po and cp occur inter-			1					
		<u>†</u>	<del>  </del>	grown often with calcite in interstices. Some Large c.g. plebs of po occur			1					
		+	╞╼╌┤	in a precia zone. The gangue adjacent to these spheroidal blebs appears					F			
			╞╾╴╅	bloached w continue f films of iron ovides. Constally similar to						+		
		<b> </b>		provious gone 62 58 - 77 72-					·			<u></u>
80 31	206 35	419	019	Thick converse of massive velocities flows tuffs. Minor chloritization			ł					
(293	677)	141/	91/0	increasing with depth.								
85 21	03 00	569	01.9	Light grav-green massive f g -m g volgania - negatibly endesitie flow or					F			
(293	308)	10%	J+/0	tuff. No visible bedding. Rare disceminated by Calcite occurs in anyoduloo					F			
	500)	<u> </u>	+ + +	and irregular Otz-calcite veins			I		F			
93.88	112 78	329	91%	Dark green-gray massive f.g. andesitic tuff variably chloritized & frac-					F		T	
	112.70	1.1.1%	-1/0	tured. Py occurs as seams on shear planes (slick 'n' sided) & in irregular					F	+		
		<b>†</b>	┝─┼	Qtz veinlets.					Γ			
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BRIDG	FIMI	ITE	ר י ר	Elevation		Bearing		10		• •	
				Coordinates	<u>r</u>	Core siz	•	/6	Decove		•
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DEP	PTH m. ft)	REC	OV'Y	DESCRIPTION		ANGLE		1:500	No.	From	To
93.88	112.7	8		(contd) 99.36 - 107.44 (326' - 352'): Section of strongly fractured broken							ļ
		1		core with numerous deformed, disrupted cherty bands	ļ						+
		T		& associated po ± minor py. Isolated cherty breccias	<b></b>						+
	T	T		occur at 99.36m, 99.67m, 101.20-102.11m, 103.63,	L						+
		1		104.24m and 107.29m.	<b> </b>		112.78	al p			+
112.78	120.40	58	95%	Light gray-brown, massive, equigranular volcanic (flow?). Mostly plag with	Bed	ding(?)		Ser Ja			+
(370	395)	T		minor quartz. Very faint foliation developed with minor sericite & chlorite.	ang	le 22°					┥──
		1		Traces of dissem. py. Calcite and/or quartz fillings in fractures (<3mm)	L		2040	10A			–
				114.3 - 114.60 Light brown massive, v.f.g. band. Cherty in appearance			22.83	15			+
		1		but very soft with scattered quartz ± chlorite fragments	<u>.</u>				<b> </b>		
				Probably ash tuff.							- <b> </b>
	1	!		116.0 10cm band as above. Core intersection angle = 22°			131.06				<u> </u>
120.4	0 122.83	3 49	897%	Green-gray f.g. volcanic tuff/flow. Similar to previous zone except for				N	ol		<b>_</b>
(395	403)			increased chlorite content and darker colour. Chlorite appears to be assoc-				5.11	~		—
				RECORD Instituation Basing PROPERTY   Contain Condition Condition Elevation   Condition Condition Elevation Elevation   Condition Condition Elevation Elevation   Condition Condition Elevation Elevation   Contain Contain Elevation Elevation   Contain Contain Elevation Elevation   Contain Contain Contain Elevation Elevation   Contain Contain Contain Elevation Elevation Elevation   Contain Contain Solution Elevation Elevation Elevation   Contain Contain Contain Contain Elevation Elevation   Solution Contain Contain Contain Contain Elevation   Contain Contain Contain Contain Contain Contain   Solution Contain Contain Contain Contain Contain </td <td></td> <td></td> <td></td> <td>31</td> <td> </td> <td>_</td> <td></td>				31		_	
				haloes around veins also. Strong py concentrations occur at 120.55 & 122.38				1			_
	1	Τ		with coincident chloritic alteration and shearing. Unit grades by decreasing			42.19				
			1	chlorite content into following rock.			43.362	255			+
122.83	3 131.00	6 77	899%	Green-gray/brown massive f.gm.g. volcanic flow/tuff. Identical to unit				The second			+
(403	430)	1		112.78 - 120.40m.				A A		<u> </u>	+
131.0	6 142.1	9 37	897%	Mixed gradational sequence of above volcanic with variably more chloritic						_	+
(430	466.5	)		volcanics. Chlorite development is gradational and most intense adjacent to				XX		<u> </u>	+
		1		py-rich Qtz(±calcite) veins c.f. at 133.2m (437ft). Shearing is prevalent in				5/13	ļ		+
		1		the chloritized volcanics. Massive unaltered volcanics predominate.			61.24	and in			_
142.1	9 143.50	6 0%	81%	Chloritized volcanic flow/tuff. Probable alteration of previous massive vol-							┥
(466.5	471)			canics. Pyritic veining common ± Qtz-calcite veins at 142.19-142.64 & at			66.73				+
				142.95m (Qtz vein with subhedral py crystals and cp). Sheared, fractured.							+
143.5	6 161.24	4 60	<b>%</b> 98%	Dominantly unaltered f.gm.g. gray-brown massive volcanics with scattered							+
(471	529)			patches of increased chlorite. Chloritization most pronounced around sulphid	e						+
				veinlets.						_	+
	1			150.57m(494'): 10cm calcite vein,minor qtz no sulphides,32° to core axi	s						∔—
				153.47 & 153.77m: 2 py veinlets (c.g. py crystals) & associated strong							+
				chloritization, veins are at right angle to each other						+	┥───
				@ 35° core & 55° to core (opposite sense).							<b>_</b>
		+		160.48m (526.5) 8cm Calcite-qtz vein + minor fragments partially					·		<b>-</b>
		1		altered volcanics, no sulphides. 45° to core axis							_─
	1	1-		160.71m: 8cm calcite vein, no alteration 40° to core axis					L		_
	1	+		161.09m (528.5) 3cm calcite vein @ 30° to core crosscutting and oblit-							<b>_</b>
		+	1	erating earlier py vein.					L		<b>_</b>
161.24	4 166 7	3 44	291%	Mixed assemblage (subequal) of light gray-brown unaltered massive volcanics					L	_	<b> </b>
(529	547)	1	/0	& altered chloritic volcanics (sheared). Abundant Qtz ± py ± calcite veins.							<b>_</b>
	1-1/	+		General trend to increased chlorite with depth. Some patches of c.g. volcan-					L		╂
	1	+-	+ - 1	ics in section (differentiated thick flows?)							<b></b>
	+	-	1	162.46 - 162.92 (533-534.5 Qtz rich zone with fragments of altered						_	1

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FOOT	AGE	REC	ov'y		DESCR	IPTION			INTERSECTION	N GF	1 · 500		SA
FROM	TO	RQD	Core						ANGLE		1.500	NO.	HO
161.24	166.73	ļ		v	olcanics.					-			+
CON	ſD.	ļ		N	mrs. irreg	ular veinlet	s of py with po and rare	cp.	<u></u>	-			+
		<b> </b>		<u>165.66m (543.5'):</u>	Large Qtz	-calcite ver	n with coarse 2cm blebs o	of po.	<u></u>	-			+
166.73	206.35	32%	84%	Mildly chloritic, mode	rately <u>alte</u>	ered foliate	d volcanics with occasion	nal		- 166.73	Con and a second		+
547	677)	┨		slick 'n' sided shears	. Nmrs irre	egularly or:	ented veinlets of sulphic	les at		-	1 Tar		+
				15-30cm intervals. Vei	ns average	.5 to 1cm :	n thickness. At 166.73 a	large		-	NQ	. <del> </del>	+
				bleb of po occurs rimm	ed by cp. 1	F.g. py appo	ears alone in f.g. seams &	rarely		-	The second		+
				with po. Cp is usually	associate	d with po a	s f.g. intergrowths, rims	& inter-		-			+
				stitial grains.	-ified well	anica with	abundant no and subording	te cn			BQ BQ		+
		<b> </b>		1/9.53(589') 5111	cilled voi		abundant po and subordine						+
	· · · · · · · · · · · · · · · · · · ·	<u> </u>		1	$n Qtz \pm ca$	lcite veins.	1 . C			-	AT AT A F		+
				<u>180.9 – 181.36m:</u>	to on and	opment, bloc	cky fracturing: Fault: Wil	th model -		•	- All		+
				190 8(626') · 30cm	zone of s	trong fracti	ring shears, chlorite +	clay		ر 1			+
				190.0(020 ). 900	lteration	Possible f	ult			T F'			+
				199 34 - 200 86:	Fault zone	10331010 10					S. F		1
		11		201.47: Fault	Tuure Done						F		$\uparrow$
				203.61 - 205.13:	Fault. Int	ensely frac	ured, extremely chloritiz	zed,		F			
				S	heared and	gouged. Min	nor Qtz-calcite-po-py-cp	veins		F			Ι
206.35	236.83	58%	95%	Silicified volcanics.	cherts, al	tered chlor	itized volcanics and stri	nger (		206 35	1754		
		500	2.270	sulphides									
206.35	220.37	52%	91%	Light green to green v	volcanics w	ith cherty	layers & silicified zones	. Vol-				78340	d 7
(677	723)			canics are moderately	chloritize	d and folia	ted. Banded & stringer su	lphides F	oliation 35°		and the second se	4	1 7
				occur throughout the 1	rock and co	mprise appr	ox. 20-25%, mostly po wit	h minor				42	2 7
				py & cp. Sulphides are	e most abun	dant below	213.36 (700'). Some irreg	ular		22037		L	
				Qtz-calcite veins occu	ur. Foliati	on angle is	approx. 35°.					<b></b>	$\bot$
220.37	228.6	57%	98%	M.g. dark to light gro	een, massiv	ve, <u>chloriti</u>	zed volcanics (flows)?, p	robably				ļ	
(723	750)			andesitic. Generally	low in sulp	hides. Minc	r dissem. po blebs % rare	ро-ру		228.60	6.58	L	<u> </u>
				veins. Traces of cp w	ith po. Ap	proximately	5% po overall.					L	
228.6	236.83	66%	99%	Variably <u>chloritized</u>	altered vol	<u>canics</u> with	numerous <u>cherty bands</u> (s	ilici-				78343	3 7
(750	777)			fied volcanics or che	rty tuffs?)	). Veins, st	ringers and patchy segreg	ations		236.83		44	76
				of po-rich sulphides.	Very subor	dinate py a	nd cp. Sulphides approxim	nately			A	45	77
				35-40% overall. Sulph	ide mineral	logy: 80%po	15%py 5%cp. Irregular Qtz	: ±		1	'th's	L	
				calcite veins							Cires.		
236.83	267.16	84%	100%	Massive Sulphides								46	78
(777	876.5)			Massive to semi-massi	ve sulphide	e <u>s</u> (75% over	all) in variably silicifi	led and S	ulphide		A STATE	4/	
		$\downarrow$		chloritized volcanics	with cher	ty breccia i	ragments. Po dominates ou	ver py	anding		5. 50 8	48	80
	. <u></u>	<b> </b>		& cp. Sulphide minera	logy approx	x:85%po, 10%	py & 5%cp overall but sho	ort sec-3	5-40°			49	
		<b>↓</b> ↓		tions of py-rich sulp	hides are	observed. Nu	merous calcite and Qtz ve	eins			il.	- 50	82
		┝──┤		crosscut the core. Cg	. sphaleri	te occurs in	1 Qtz/calcite vein in py-1	rich			al	51	83
		╞──┤		sulphides at 251.76m	(826'). De	tormed remn	ant banding in po occurs a				GL-	52	04 05
		┞──┟		40° to core axis.								- 33	02
		1 I	1							267.16		j 54	001

		Length							H	DLE	<b>No</b> : 9	/82				Po	qe #	4 of 8
		Hor. Com	p		/ Ve	rt. Co	mp.		Sh	eet		of	<u></u>					
		Bearing							Lo	<u>bepp</u>	by							
	N	Begun			/Cor	nolete	đ		So	mple	1 by			<b>_</b>				
	E	Core si	2.0		/Re	cover	¥	%	Dr	iller					<u> </u>			
	INTE	ERSECTION	GI	RAP	HIC	[	SAM	PLES			A	SSA	YS			CO	MPOS	ITES
		ANGLE	. <b> </b> _	1:50	J 	No.	From	To	Ft	Cu%	<u>Co%</u>	<u> </u>	<u> </u>	+	+			_
	<u> </u>		1	ļ		<b> </b>	ļ	<u> </u>	<b> </b>	ļ	<b></b>	ļ	<b>_</b>		<u> </u>		_	
	ļ		1	. 			ļ		ļ	<b>_</b>	<b>_</b>	<b> </b>			+		_	
	<b>_</b>		1							<u> </u>		<b> </b>	+	+	-			_
	<u> </u>		166.7	3		ļ	ļ		┨───	<b> </b>	<u> </u>			+	+			
t	+		•					╂───		╂	<u> </u>		+	+	+			
e			{	1-1	NQ			+		<u> </u>	<u> </u>	<u> </u>	<u>+</u>	+	+			
ely				A CAR	F			┫───		<u> </u>	<u> </u>		+	+		-+	+	
ter	╡──		1	A MAR	/ 		+	+	╀──				+	+			+	
D	+		F.	رينه مجلو بري ريسيو	RQ			1					1	1	1		- <u>i</u>	
<u>r</u>	$\mathbf{T}$							1	1	<u> </u>								
der	1		Ì		γF			1		<b> </b>			T				+	-
	<u>†</u>		]	A CARL													1	
7			ر ب	A A A A A A														
				1.57	1-													
				24				ļ	ļ				ļ	<b> </b>	<u> </u>			
			-					ļ	ļ	L			<b> </b>	ļ	<u> </u>	+	1	
			6		/			<b></b>	<b> </b>	<b> </b>			<b> </b>		┥───		<u> </u>	<u> </u>
3			F .	14				<b> </b>	<b> </b>					<u> </u>	+		<u> </u>	+
			200.33					<u> </u>					╂───			+	+	+
						700/0	700		101	0 / 1	0.00/				+	+	+	<u> </u>
1	Rel:	ation 25°		135		/8340	700	720	10'	0.41	0.034			<u> </u>	+	+	+	+
ies	1011	ationss			/	41	720	723	21	0.20	0 012				+	+	<u> </u>	
101			22037			- 42	120	125		0.20	0.012			<u> </u>	+	+	+	+
				12 A										<u> </u>	<del>† – –</del>		+	<u> </u>
h1.v		·		STR.	/			<u>†</u>							1			†
			229 60															
<u> </u>			220.00					Γ								1		1
i-						78343	750	760	10'	0.55	0.072						,	1
ns			001 00		ĺ	44	760	770	10'	0.47	0.056			ļ				
у			2.56.83	29. 1. 1.	[	45	770	780	10'	0.51	0.076			ļ	L			
				115										ļ	ļ	<u> </u>	ļ	
				المحمن				<b> </b>						ļ	<b> </b>	<u> </u>	ļ	
				-4		46	780	790	10'	0.84	0.11				<u> </u>	<b> </b>	ļ	
nd	Sulpl	hide		State State	ļ	47	/90	800	10'	0.72	0.084				<b> </b>	+		
у	band	ing		125° C. 6" 1	ŀ	48	800	810	10'	1.44	0.086							
ec-	35-40	0°		1	ŀ	49	810	820	10'	1.10					<b> </b>			
		. <u></u> ,		r"	╞	50	020	020	101	0.4/	0.090							
0				25	ł	<u>ار</u> دء	8/0	04U 850	101	0.58	0.0/4				<u> </u>			
, <u>-</u>	-			and a star	╞	52	850	860	10'	0.24	0.044					†i		
					ŀ	54	860	870	101	0.30	0.004				<b>†</b>	<u>† – –  </u>		
			20110		ŀ	55	870	000	101	0.00					1			

### . DRILL

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		-			Inclination	Bearing	PROPERTY		Length					
	10LI		KE		+		Location		Hor. Com	P	<u>/ Ve</u>	rt. Co	mp.	
	_						Elevation		Bearing					
NBRIDG	ELIMI	TE	D				Coordinates	N	Begun		/Cor	nolete	đ	
								E	Core si	ze	/Re	cover	Y	•/
F007	TAGE	REC	:ov'y		DESCR	RIPTION		INTE	RSECTION	GRAP	HIC		SAM	PLES
FROM	TO	RQD	Core						ANGLE	1:50	)0 	No.	From	To
267.16	288.65	5 35	%93%	Dominantly altered	and cherty vo	olcanics with	h stringer sulphides and veinlets	s.				L	ļ	<b>_</b>
(876.5	947)									267.16	ſ		ļ	
267.16	269.16	84	/100	Mixed <u>chert</u> ( <u>cherty</u>	<u>tuffs</u> ?) & <u>ch</u>	<u>loritized</u> vo	olcanics, <u>Sulphides</u> (dominantly			269.16	W.F	<u>78356</u>	880	890
				po) as stringers &	short semi-ma	assive to ma	ssive lenses comprise 40-50% of						ļ	<u> </u>
				zone. Transitional	to following	rocks.				FT			<u> </u>	<b></b>
269.16	288.6	5 29	92%	Dominantly green ch	loritized <u>fol</u>	iated volca	nics with irregular and sporadic	+				57	890	900
884.5	947)			cherty bands & brec	ciated fragme	ents (occasio	onally sideritic) with associated	<u> </u>				58	900	910
				blebby cp. Infreque	nt semi-massi	ve lenses an	nd veinlets of massive po occur	<u> </u>			F	59	910	920
				with very subordina	te py & cp. H	Below 284.68	n(934') cherty rocks & chloritic	+			F	60	920	930
				volcanics are subec	ual in amount	. Sulphides	compose 15-20% of the unit.			E S		61	930	940
				272.19 - 272.8	: Fault zone,	, intense fra	acturing, shearing, clay/gouge			288.65		62	940	950
		i			developed.			. <b> </b>		همم ا			ļ	<b>_</b>
		1		288.0: Fault/s	shear zone					- (	<b>B</b> ବ		<b> </b>	
		1		288.65: cp is	rimmed by po	, po rimmed	by quartz.							
288,65	449.88	3 56%	99%	Massive to semi-ma	ssive sulphid	es with inte	rbedded stringer & breccia					l		┣
947	1476)			sulphides in alter	ed and/or sil	icified volc	anics.			17				┢───
288.65	315.7	758%	99%	<u>Massive sulphides</u>	(+90%) with 5.	-10% fragmen	ts of remnant host rocks.Sulphid	es				63	950	960
947	<u>1036)</u>			are 80% po, 12-15%	py and 3-10%	cp. Angular	breccia fragments of chloritic	<u> </u>				64	960	970
				volcanics occur wit	thin the mass	ive sulphide	s as well as contorted layers &	+			r	65	970	980
		<u> </u>		breccia fragments o	of chert-side	rite. These	layers are composed of f.g.	+		1 li		66	980	990
		1		intergrown qtz (ch	ert) & light	tan-brown mi	neral - possible siderite - with			315.77		67	990	1000
				occasionally prese	rved fine ban	ding & layer	s of a dark black mineral of	<u> </u>		B.C.		68	1000	1010
		<u> </u>		micaceous habit, d	ark, vitreous	& brittle -	possibly stilpnomelane. Some of	Sulp	hide/	675		69	1010	1020
				the siderate exhib	its rounded g	rains with s	uggestive colloform textures -	cher	t-sider-	10		70	1020	1030
				oolitic? The chert	-siderite lay	ers occur bo	th as convoluted folded bands &	ite	layering				1030	1040
		1		as pull-apart frag	ments suspend	ed inmassive	sulphide. Py often forms an	appi	:ox. 30°	327.00-				
		<u> </u>		irregular halo aro	und the fragm	ents grading	g outward into massive po. Cp							┣──
		<b>İ</b>		seems to occur pre	ferentially w	ithin fractu	ires and low-pressure shadow area	6						├
			ļ	at the margins of	the chert-sid	erite-stilpr	nomelane. However cp also occurs	ļ						<u> </u>
		i		as f.g. aggregates	within massi	ve po & in c	ltz ± calcite veinlets. Some py							<b> </b>
		1		occurs as distinct	but contorte	d layers wit	thin massive po. The sulphides	ļ						<b> </b>
				appear to have bee	n layered or	banded origi	inally & later reacted by plastic	<u> </u>						
				or ductile flow un	der severe de	formation p	roducing the apparent brecciation	¥						┣──
				and contortion of	gangue layers	in the zone	2	ļ						
315.77	327.66	59%	100%	<u>Semi-massive</u> sulph	ides within m	ostly dark g	green, soft, altered <u>chloritized</u>					72	1040	1050
				<u>volcanics</u> . Numerou	s narrow cher	ty bands & 1	tan sideritic layers occur-often	ļ				73	1050	1060
				brecciated, fragme	nted or conto	orted. The su	lphides are similar in mineral-						1060	1070
				ogy to the previou	s massive zor	ne with slig	ntly increased pyrite. Sulphides					75	1070	1080
				occur as irregular	patchy blebs	and networl	ks within the volcanics grading			1				<b> </b>
				into lenses of nea	rly massive s	ulphides. P	yrite & po occur primarily as				i ł			<b> </b>
				distinct layers or	facies & are	e rarely into	ergrown. Cp occurs as fracture							<b> </b>
				fillings & c.g. bl	ebs in & arou	und gangue f	ragments. Slick 'n' sided shear							┝───
				planes are observe	d within the	sulphides.	Suggestive sulphide banding	ļ						<b> </b>
			IT	(original?) is dis	rupted by sti	cong shearin	g & deformation.							

	HC	LE	No: 0	9/82				Pog	1e #	5  of  8	8
	Sh	eęt		of							<b>.</b>
	Lo	beec	by								
	So	moler	1 bv								<del></del>
%	Dr	iller						_			
LES			A	SSA	YS			CON	APOSI	TES	
To	Ft	Cu%	Co%	Zn%	1	I.		1	1	1	
									1	-	-1
			1		1		1		-		
800	10'	0.26	50.064	4		1	<u> </u>		+		-
0.20		1	1	1	1	1	+	+	+		-
		<u> </u>	1	1	1	+		<u>†</u>			-
900	10'	0.5	0.050			1			+	+	-
910	10'	0.50	0.052	2	1						-
920	10'	0.32	20.088	3				1	1		1
930	10'	0.28	0.10						1		-
940	10'	0.43	0.15		Ι					1	
950	10'	0.42	0.13								-
											-
								1	1	+	1
										1	1
									1	1	1
	-								1	1	1
960	10'	0.38	0.18							1	1
970	10'	0.44	0.15							1	1
980	10'	0.62	0.16								1
990	10'	0.59	0.13		L						1
1000	10'	0.63	0.12								
1010	10'	0.65	0.12								1 ·
1020	10'	0.44	0.13								1
1030	10'	0.50	0.17								1
1040	10'	0.35	0.13								1
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				<u> </u>							<b>7</b> 1
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											I
1050	10'	0.30	0.12								
1060	10'	0.26	0.11								
1070	10'	0.70	0.15	0.03							
1080	10'	0.71	0.11	0.05							
									]		
		]									
т	7	1					. 1		,	*	

	1 1		-	RF		Inclination	Bearing	TROLENT							• •	
								Location			or. Comp			/eri. Li	ump.	
DN	BRIDG		TED	)			<b></b>	Elevation			earing	·				
			U					Coordinates		N Be	egun		<u> </u>	omolet (		a
Т								1			CCTION	<u>.</u>		C	<u> </u>	01 6 6
	FOOT	AGE	REC	OV Y		DESCH	<b>APTION</b>			IN ERS		Ur.	1:500	No	- SAM	ruc. Ita
$\mathbf{F}$	FROM	<u>TO</u>	KQD	LOOK		1.1.1							R		1 100	
ŀ	527.00	337.70	03%	100%	<u>Semi-massive su</u>	<u>phides</u> , mineralc	gy as previ	ous (po>>py>cp), assoc	iated with	<u> </u>		327.66	ST.	<u>7838</u>		
Ľ	1075	1095)			fragments, remna	int layers & bred	cia of cher	t-siderite with qtz ve	ins. Po is				11 SV			
┝			-		<u>most abundant bu</u>	<u>it py dominates a</u>	iround & bet	ween chert-siderite la	yers. Cp	<b> </b>		37.76		}		
_			1		occurs as fine g	grained blebs int	erstitial t	o py & as coarse blebs	at the mar-	<b>†</b>		•	15			+
-					gins of fragment	ts; also in crose	utting qtz	veins. In some places	<u>cp + minor</u>				. <i>G</i> '	<b>}</b>	+	+
-			┣		py occurs as a	selvage between s	ideritic ga	ngue & the po-rich mas	sive sulph-				/		+	+
					ide. Py sometime	es occurs as f.g.	laminae pa	rallel to bedding lami	nae in the				-		-	
┝					chert-siderite d	also as 1-2mm 1	counded, col	toform banded oofftic	grains with				(			+
┝				-+	<u>in same. Some of</u>	notod in Quarta	so appears	to be collect in nabit	thin sider-						-	+
┝		<b></b>			itic capque at	$\frac{10100}{1000} \frac{1000}{1000} \frac{1000}{1000}$	$\frac{1}{331} 01m (10)$	R61) & 332 23 (1090')	thin sider				- 41 9			1
F	222 76			0.0 %	ILIC galigue at .	0.5% of the second seco	<u></u>	50 / u 552:25 (1050 ):					i e	8	2 1 1 0	0 111
-	1005	<u>384.35</u>	537	98%	Massive Sulphide	s: Approx 85% st	montly po	5% FOCK IFAgments, QLZ	$\frac{-carbonale}{\sqrt{2}}$					8	3 111	0 112
μ	1095	1201)	<u> </u>		<u>Veins &amp; magnetit</u>	c accoriated in	f around gai	youe fragments only m	ipor blebs				·	8	4 112	0 113
_				-+	As previous cp i	in no and/or ny	Gangue occi	irs as brecciated frag	ments dis-				В	3 8	5 113	0 114
			┼──┤		torted thin hand	In po and or py.	avers of ch	ert-siderite and magne	tite. In				1 A.	81	6 114	0 115
-			<u> </u>		many instances m	nagnetite & sider	ite appear	to coexist as conforma	ble lavers				Er a	8	7 115	0 116
		<u>-</u>			in broken clasts	s. (e.g. 348.08m (	(1142'), Mag	netite also occurs in	distorted				, <i>i</i> i	81	8 1160	0 117
					wavy laminae and	l individual aggr	egates with	in massive sulphide. H	Y & DO					85	9 1170	0 118
-			t		appear to be di	stinct facies. Ve	erv rarelv i	ntergrown with contact	s suggest-				· / )	9(	0 1180	0 119
		<u>_</u>			ive of original	lavering now def	formed by sh	earing/folding. Rare s	phalerite				17 <sup>2</sup> -	9!	1 1190	0 120
					occurs within se	ome of the sider	itic breccia	fragments. Below 359.	66m (1180')				P- at A	92	2 1 2 0 0	0 121
					chloritic seams	are common often	n with stilp	nomelane as anastomosi	ng vein		3	\$4.35	1947 - 19	9:	3 1210	0 122
					fillings and fr	acture fillings.	Pv also occ	urs as individual c.g.	blebs					9/	4 1220	0 123
					disseminated th	rough massive po	with f.g. p	y remaining as discret	e layers					9!	5 123	0 124
					and bands. Magn	etite also tends	to be more	disseminated with dept	:h.	<u>.                                    </u>				91	6 124	0 125
		-			351.59m (1	153.3') Gypsum i	nfilling a f	racture					St.	97	7 1250	0 126
					361.19 - 3	71.86m (1185 - 1	220') Cp mor	e abundant-up to 6-102	%		3	15.48	1.4	98	3 1260	0 127
			† †		371.86 - 3	79.48m (1220 - 1	245') Sulphi	des strongly sheared :	fractured &				119			
			<u>↓                                      </u>			sometimes	brecciated.	c.f. 379.48m. Cp 5-7%					10 7			
	384.35	395.48	51%	99%	Stringer to sem	i-massive sulphi	des in a mot	tled light to dark gr	een host				1.1	99	9 127(	128
1	261	1297.5			rock of cherts	& silicified. ch	loritized vo	lcanics, partially br	ecciated.				11	7840	0 1280	) 129
-					Sulphides form	40-50% of the zo	ne, mostly a	s po with very subord	inate py, cp.		4	59.96		40	1 1290	0 130
		<u> </u>			Magnetite in de	formed f.g. stre	aks & dissen	inations in po - very	strongly							
					magnetic. Zone	is verv deformed	but more co	mpetent than the shea	red massive							
					sulphides immed	iately preceding	. Minor gyps	um in fractures.								
	395.48	409,96	29%	100%	Massive sulphid	es (80%). Domina	ntly po (po	85%, pv10-12%, cp 3-5%)	. Numerous					40:	2 1300	) 131
(1	297.5	1345)		<u> </u>	thin bands & la	minae (discontin	uous) of f.g	. magnetite producing	abnormally					403	3 1310	132
					strong magnetis	m for apparently	massive po	Gangue rocks are mos	tlv	Foliat	ion			404	4 1320	133
					deformed lavers	& scattered bre	cciated frag	ments of chert. chert	-siderite±	35-40	0	İ		405	5 1330	134
_					magnetite, & ve	ry minor shards	of soft, chl	oritized volcanics. T	he sulph-			Ì		406	5 1340	) 135
_					ides are brittl	e. strongly frac	tured. Chlor	ite & stilppomelane a	nnear in							<b> </b>
-						•, •••••	carca, outor	The a striphomerane a	ppcar III 1				1		I I	-
					foliations & ha	irline cracks. F	oliation com	e angle 35-40°							ļ	<b> </b>

		HC	)LE	No: 9/	82				Pog	1e #	6 of
).		Sh	eet		of						
		Lo	bapp	by							
		Sa	mpied	<u>1 by</u>							
	%	Dr	iller								
MF	PLES			A	SSA	rs			CON	APOSI	TES
<b>m</b> (	To	Ft	Cu%	Co%	Zn%	<b> </b>	<u> </u>	+	+	+	_1
80	1090	10	0.75	0.066	0.29	 					
90	1100	10	0.63	0.079	0.04						
			L	<u> </u>							
			ļ		ļ		<b>_</b>		1		
			L	ļ							
		ļ	ļ	ļ					ļ	<u> </u>	
	<b> </b>	L			ļ		∔	<b>_</b>	<u> </u>	ļ +	_
_	<b> </b>		<b> </b>	ļ			<u> </u>	+		+	
		ļ		ļ	ļ	L		+			_
00	1110	10	0.40	0.15	<.01		<u> </u>	+	+	<u> </u>	- <b> </b>
10	1120	10	0.42	10.15	0.03		<b> </b>				
20	1130	10	0.42	0.21	0.03		<u> </u>	+	<b> </b>		+
30	1140	10	0.60	0.20				<u> </u>	<u> </u>	<u> </u>	+
40	$\frac{1150}{1160}$	$10 \\ 10$	0.44	0.22					╞───	<u> </u>	<u> </u>
50	1100	10	0.45	0.10			<u> </u>	<u> </u>		<u> </u>	+
<u>60</u>	11/0	10	0.60	0.18			<u> </u>				+
70	1180	10	0.42	0.16			+	<u> </u>	<u> </u>	<u> </u>	┥
00	1200	10	1 01	0.10			<u> </u>	<u> </u>			+
00	1200	10	1 60	0.14			<u> </u>	<u>+</u>		<del> </del>	+
10	1210	10	1.09	0.12				+			+
20	1220	10	0.74	0.10				<u> </u>			┼──
20	1250	10	0.74	0.15			<b>}</b>	<del> </del>			╂
<u>30</u> 70	1240	10	1 06	0.10				+	<u> </u>	<b> </b>	<u>+</u>
	1250	10	0.95	0.10			<u>†</u>	<u> </u>			<u> </u>
<u></u> 60	1270	10	0,34	0.095			<u>† – – – – – – – – – – – – – – – – – – –</u>	1	i	†	<u> </u>
50		10						+		<u>+</u>	†
								<u> </u>		<u>.</u>	<u> </u>
70	1280	10	0.25	0.095				<u>†</u>			†
80	1290	10	0.17	0.075				<b>†</b>			1
90	1300	10	0.24	0.10							
00	1310	10	0.53	0.18							
10	1320	10	0.42	0.16							
20	1330	10	0.42	0.19							
30	1340	10	0.51	0.22					]		
40	1350	10	0.19	0.13							
							_				
		I									

	106	_ Π	こしい	<b>N</b>	Colla	r[						Locati	on					Hor. Co	mp.		_/ Ve	rt. Co	mp.		St	neet		0	)f				
								••••••	-			Elevo	ation		·····			Bearing							Lo	aaed	by						
ONBRIDG	E LIMI	TED							-			Conre	tionte			A		Beau			/Сол	nlete	d		So	mole	d bv						
									_					<b>-</b>		E		Core s	ize	·	/Re	cover	1	%	6 Dr	riller							_
		RECOV'	4					DESC	RIP	TIOI	I						INTE	RSECTIC	N C	GRA	FHIC		SAM	LES		T		ASSA	YS			COMP	205
FROM		ROD Cor																ANGLE		1:50	0	No.	From	To	Ft	Cu	Co	%	L 1	1		1	••
409 96	/11 18	13996	l Light	aree	n f o	m o	r etr	ongly	, fol	iated	chlo	ritiz	ed vol	canic ci	ut by s	everal				a de	F					T							
(12/5	12/0)	13/07		0010	ito u		Vor			iccom	inate	d po	Strop	o fault		at			-404	معرف مان معرفت عرب	7			1	1	1							
11545	1349)		410 8	$\frac{carc}{7m}$ (1	3/81)	eins.	very	wear	<u>try u</u>	15500	Inale	<u>u po</u> .	50101		gouge a	<u>ac</u>				18	ĥ.			<u> </u>	+		1	+-					
611 19	1/10 88	60900	410.0		$\frac{1}{1}$	· 8	۱ <u>۵</u> ۶ թ.	lnhi	105 2	0% ma	oneti	to &	0200110	as hree	ccia fr	agments			-1	÷.,		7840	1350	1360	$\frac{1}{10}$	10 4		6	+ +				
(1349	1476)	09/09/	hands	cont	orted	lave	re. (	idor	103 2	chert	ch1	orite	etil	nnomela	no ata	+	·			11	2	08	1360	1370	$\frac{10}{10}$	0 4	2 0 1	8					
	14707		calci	$\frac{1}{10000000000000000000000000000000000$	ulphi	des a	10.(2)	$\frac{31021}{2}$	10%	nv &	cn F	v & c	n anne	ar ac t	hin die							09	1370	1380	$\frac{1}{10}$	0.4	6 0.1	9					
			10118	laver	e in	the n		vithir	<u>10%</u> ງ & a	round	oano	<u>y u c</u> ne fr	agment	s Cn i	s often	inti-			1		4	10	1380	1390	) 10	0.5	4 0.1	9					
	<u>+</u>		matel	v ace	ociat	ed wi	th ma	agnet	ite	Pompa	$\frac{balle}{bt}$	verin	agaient	liation	are sul	para-			<b>-</b>			11	1390	1400	$\frac{10}{10}$	0.3	3 0.2	3					
			1101	<u>y 433</u> at 40	° to	COTE	avie	Mag	etit		hoth	segre	gated	& dispe	read wit	thin			-1	17-21		12	1400	1410	) 10	0.4	5 0.2	4				+	
<u> </u>	<u> </u>		the r	0. of	ten o	ccurr	ing a	$\frac{1}{10}$	z. di	scont	inuor	is han	ds or	dissemi	nations	Much			1	4.		13	1410	1420	0 10	0.4	2 0.2	5					
	<b> </b>		also	<u>, , , , , , , , , , , , , , , , , , , </u>	s in	the s	ider:	itic (	zanou	.e.												14	1420	1430	10	0.5	0.2	2					
	<b> </b>			413.9	2 (13	<u>58')</u>	Trac	le snl	naler	ite i	n che	rt-si	derite	band.					1	: /		15	1430	1440	10	0.4	3 0.2	1					
			Botte	m of	secti	on is	verv	/ fra	cture	d and	shee	red.	extrem	ely bro	ken cor	e.			1	611	,î	16	1440	1450	10	0.3	0.2	0					
			Chlor	ite a	nd st	ilpnc	omelar	ne ar	e obs	erved	on s	hear	planes								BQ	17	1450	1460	10	0.49	0.1	6					
													<u> </u>						1	37		18	1460	1470	10	0.32	0.1	3					
449.88	487.98	44% 93	Stri	ger a	ind se	emi-ma	issive	e sul	ohide	s in	alter	ed. c	hlorit	ized. o	cc sili	cified				12		19	1470	1480	10	0.52	0.1	2					
(1476	1601)	110 201	volca	nics	& som	ne che	erty l	brecc	ias.	One s	ectio	on of	massiv	ve sulph	ides.				449:	88	r,F												
449.88	455.07	28% 85	Striv	ger.	semi-	massi	ive &	band	ed si	lphid	les w	thin	a brec	ciated	light g	reen			-	54		20	1480	1490	10	0.4	0.1	1					
(1476	1493)		to 1	oht c	rav c	herty	v hos	t roc	k-pos	sibly	sil.	cifie	ed chlo	oritic v	olcanic	s.			4550	F A G					T		T				_		
			Sulpi	ides	form	50% d	of the	e zon	e & a	ire co	mpose	ed of	mostly	y po wit	h very	sub-			458.1						Ι								
	·····		ordi	ate r	ov. Cp	ο ος ει	urs m	ost o	ften	adiac	ent t	to gar	ngue fi	ragments	as pre	ssure																	
			shade	ws. N	linor	magne	etite	as f	.g. (	lissem	inat	ions i	in po.						7								Ι			,			
				454m	(1489	9.5')	: Ent	ers a	n abi	upt f	ault	zone	with s	severe g	ouging	&			464.9	17													
			1				bre	cciat	ion (	of sul	phid	es & c	chert.						467.8	1													
455.07	458.11	46% 98	Z Dark	gree	n. str	rongly	v chl	oriti	zed.	f.g	-m.g.	volca	anic w	ith some	remnan	t						21	1490	1500	10	0.2	0.05	5					
1493	1503)		text	ires	(pheno	ocryst	ts) -	prob	ably	a flo	ow. G	eneral	lly ma	ssive bu	t fract	ured.			473.0	64													
			Po w	th ra	are cp	o, py	occu	r as	diss	eminat	ted g	rains.	narro	ow veinl	ets & s	cat-																	
			tere	l bleb	oby pa	atche	s. Su	lphid	es fe	orm 10	)-15%	of tl	he rocl	k. Begin	ning 60	cm of											ļ						
			unit	is s	trongl	ly sh	eared	, chl	orit	ized &	s bro	ken u	o due	to prece	ding fa	ult.					1 [				1	<u> </u>							
458.11	464.97	28% 94	% Host	rock	as at	bove	but b	earin	g ab	out 35	5% su	lphid	es in	stringer	s, pato	hy			T			22	1500	1510	10	0.48	b.09	2				<u>.</u> .	
			c.g.	blebl	oy zon	nes &	semi	-mass	ive	bands.	. Po	predor	ninate	s with m	ninor co	m						23	1510	1520	10	0.28	0.07	1	1				
			tain	ed f.;	g. mag	gneti	te. C	p occ	urs	in ir	regul	ar f.,	g. str	eaky ble	ebs, ver	y						24	1520	1530	10	0.18	0.05	5	+				
			spar	se. Co	ore is	s ver	y fra	cture	d &	sheare	ed.														<b>_</b>	<b></b>	ļ	<u> </u>					
464.97	467.87	24%98%	F.g.	dark	greer	n, ch	lorit	ized	volc	anics	with	spora	adic p	o-rich v	veins &										ļ	<b> </b>	<b> </b>	<u> </u>	++				
(1525.5	1535)		stri	igers.	, also	o dis	semin	ation	s. T	otal s	sulph	ides	15%. V	ery frac	tured,				_			25	1530	1540	10	0.23	0.1	1	+				
			occa	siona	lly sh	neare	d.												4						<u> </u>	<b>_</b>	<b> </b>	<b>.</b>		<b> </b>			
467.87	473.66	43%/89%	Host	rock	as ab	ove 1	but s	omewh	at b	reccia	ated.	Sulpi	nides r	more abu	indant_5	0-55%			4			26	1540	1550	10	0.30	0.09	<u>f</u>					
(1535	1554)		as s	ringe	ers &	semi	mass	<u>ive</u> p	ods.	Mostl	ly po	min	or py	some cp	as spor	adic		·	4						+	<b> </b>	<b> </b>	<u> </u>	<u> </u>			<b> </b>	
			patc	ny ble	ebs.							·							_			27	1550	1560	10	0.42	0.1	4	<u> </u>				
473.66	482.96	66%99%	Mass	ve s	ulphic	des:	80% s	ulphi	de, 1	nostly	у ро	with	brecci	ated fra	agments	of						28	1560	1570	10	0.66	0.1	5	┨──┤	<del>_</del>			
(1554	1584.5		gree	n, f.,	g. chl	lorit	ic vo	<u>lcani</u>	cs &	light	t gra	y che:	rt (be	<u>10w 477.</u>	62m (15	67')	<u> </u>					29	1570	1580	10	0.34	0.1	5	$\downarrow$ $\downarrow$				
			Cp t	5-6	% as i	irreg	ular	c.g.	bleb	s in p	po &	as sm	aller	irregula	ar blebs	3			4			30	1580	1590	10	0.32	0.11	¥	↓				
			arou	nd gan	ngue.	Magn	etite	very	min	or.											I L					L		<b>_</b>	+	<b> </b>			

	Inclination Bearing PROPERTY	Length		HOLE No: 9/82	Poge# 8 of 8
DRILL HOLE RE		Hor. Cor	np. / Vert. Comp.	Sheet of	
	Elevation	Bearing		Logged by	
FALCONBRIDGE LIMITED	Coordinates	N Begun	/Completed	Sampled by 6 Driller	
		E Core SI	CEADILC SAMPLES	ASSAYS	COMPOSITES
FOOTAGE RECOV'Y	DESCRIPTION	ANG	1:500 No. From To		
FROM TO ROD COT	the second second second second (shows)		784311590 1600	0 10 1.400.054	
482.96 487.98 46% 96%	Mixed brecciated green chloritic volcanics & light green to gray chert(chert		182.96		
(1584.5 1601)	dominates). Some of the chert may be bleached a stillented aftered vorcante	26			
	but on is fairly abundant as fracture fillings & at the margins of cherty			<u>↓ ↓ ↓ ↓ ↓ </u>	
	breccia fragments. Cp 8-12%.			<del></del>	-+
487.98 507.49 40% 94%	Mostly chloritized foliated volcanics with minor silicified sections or		495.15	+ + + + + + + - + - + - + - + - + - + -	-+
(1601 1665)	cherts plus possible argillite.		2211600161	0 10 2 720 016	
487.98 491.03 22%89%	Dark gray to black, sheared, silicified argillite(?) Strongly fractured &			0 10 2.740.010	
(1601 1611)	broken. Disseminated blebs & scattered veinlets of po,py,cp (15% overall).	+			
	Cp 5-6% as c.g. blebs.	9	33 1610 162	0 10 2.480.016	
(1611 162/ 5)	pods & disseminations of po + cp. Chloritic shear planes are		E.O.H		
(1011 1024.3)	abundant. Fractured & blocky core. Sulphides total 10-15%.		34 1620 1630	0 10 0.110.088	
495.15 507.49 55%96%	Massive but foliated, f.g. highly chloritized light green volcanics(?) Very		<b>╶</b> ┫╴┆╴│ ┝ <u>──</u> ┾──┾──	+-+-+-+++++++++++++++++++++++++++++++++++	-++
1624.5 1665)	minor sulphides except for sporadic quartz veins with disseminated po. Some		┛╷╷╷┝╼╍┾╼╍┾╍╍	+-+-+-+-++++++++	+ + - + +
	very minor disseminated po grains through the rock. Less than 2-5% sulphide	\$	┥┆╎┝╍┾╍╆╍	+++-+++	
	overall.				
<u> </u>		+			
<u>├</u>	E.O.H. 507.49m (1665')			<u></u>	
				+ + + + + + + + + + + + + + + + + + + +	-+
		ļ	<b>┥</b> │││ <del>│</del> <del>│</del>	+++	-++
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			╡ │ │ ┝ <del>──┼──┣</del> ──	+ + + + + + + + + + + + + + + + + + + +	-+++
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#### PROPERTY WINDY CRAGGY Length 415.14m (1362ft.) DRILL HOLE RECORD Inclination Bearing 2290 / Vert. Comp. Locouon Section M-M' Hor. Comp. -45 Elevation 1836m Bearing \$49° W (229) 154.53 m -45° FALCONBRIDGE LIMITED Beaun Aug. 1/1982 /Completed Aug 10 Coordinates 11,051.00m N 324.61 m. -<u>37°</u> 365.76 m. E Core size NQ BQ Recovery 86 9,435.64m DEPTH in metres RECOV'Y INTERSECTION GRAPHIC DESCRIPTION SAMPLE \_FROM 1 1:500 ANGLE RQD No. From T ΤΟ 0.00 13.72 0% 38% Interbedded black argillite & calcareous siltstone. In places silicified, also (0) 45) sheared & faulted. 0.00 5.79 0% 29% Casing: Poor recovery. Fragments of black weathered argillite () 19) 5.79 13.72 0% 45% V.f.g. black argillite with thinly interbedded grey calcareous siltstone. Bedding =50° (19 45) Beds are boudinaged in places with some shearing & silicification. Well fractured overall with several zones of intense fracturing. Rusty coatings common on fracture planes. 7.47 - 7.62m: Boudinaged, sheared, silicified argillite. 7.62 - 9.14m: Fault zone 9.14 - 9.60m: Sheared silicified, boudinaged black calcareous argillite. 9.60 - 9.91m: Fault zone 12.65m: Fault zone 13.72m: Fault zone 13.72 24.99 0% 28% Fault zone in dominantly altered pyritic, chloritic volcanics. (45 82) 13.72 24.99 0% 28% Grey-green m.g. altered volcanic. Chlorite aggregates replacing phenocrysts. (45 82) Pyritic veins & boxworks are common. Rusty coatings occur in the extensive fractures & clay development is widespread often forming a soft sticky groundmass in which remnant volcanics are found. The entire section may be considered part of a large weathered fault zone. 24.99 54.86 2% 25% Fault zone: extensive clay formation, angular quartz, volcanic & argillite (82 180) clasts cemented by f.g.? secondary pyrite. Strong secondary? pyrite with depth. 78504 80 24.99 36.58 0% 22% Soft sticky clays (yellow to brown) interspersed with massive f.g. granular (82 120) 505 90 & occ friable secondary pyrite. In places angular lithic fragments & qtz 576 97 10 "pebbles" are cemented by f.g. vuggy pyrite, sometimes black in colour, giving appearance of a "collapse breccia" re-cemented by sulphides. Fault 506 108 11 zone. 507 118 12 577 121 12 37.80 0% 48% 36.58 Massive yellow-green soft clavs & fibrous soft mineral: Radiating silky (120 124) fibres.Hardness: less than 2 probably serpentine.Probable Fault zone. 578 126 13 54.86 3% 25% 579 136 14 37.80 Mostly massive py with hematitic siliceous "pebbles" re-cemented by py. (124 180) Pyrite tends to be very f.g. granular & friable, often rapidly decomposing 508 148 15

to pyrite sand after recovery. Minor po noted in more massive portions as

irregular stringers with cp in veins e.g. 40.84-43.59m (134-143ft). Even massive sections of core are somewhat friable. strongly fractured with

t.)			н	OLE No:	12-82		Pogett	l of
rt. C(	omp.		St	eet	of			
29)			Lo	aged by 1	. Heah			
olet	Aug	10/8	250	mpled by	T. Heah/P.	Andexer		
cover	Y 80	6 %	Dr	iller Longy	year Fly 38	3 (rig #2)		
	SAM	PLES		4	SSAYS		0	z/ton
No.	From	To	FI	Cu%	<u> </u>	Zn%	Ag	Au
								-
			T	GRAPH	IC LOG LE	GEND		1
				Lin	estone			1
					Illaceous Limesto	ne		1
				Silt	y Limestone			
				Silt	stone			
				Arg	illite			
				E Cal	careous Argillit	e		
uz _ uz.	ļ		ļ	Int	ermediate volca	nic flow/tuff		
	L	Į	<b></b>		", porphys	ritic		
			1	a set	", cherty	or silicified		
			<u> </u>	Provo Che	rt, silicified br	eccia		
<del></del>		L	ļ	60	ssan			
				Su	lphides			
		L		ABBREV	IATIONS and	SYMBOLS		
		ļ	ļ	ро				
	ļ			ру р	yrite			
	<b>_</b>	ļ	ļ	cp c	halcopyrite			
	ļ	ļ	ļ	occ. (	occasional			
<u>.</u>		<b> </b>	ļ	nmrs.	numerous			
	ļ	ļ	ļ	etz.	quartz		······	
	ļ	<b> </b>	<u> </u>	dissem.	disseminated			
	ļ	ļ		RQD	Rock Quality	Description		
	ļ	L	ļ	Farest	Fault or Shear	Zone		
		<b> </b>	<b> </b>	L				<u> </u>
	<u> </u>	<b> </b>					<u> </u>	<u> </u>
								+
			<u> </u>					<u> </u>
/8504	80	90	10	3.33	0.053	0.56	4.32	0.025
505	90	97	7	1.85	0.11	0.08	0.05	10.02d
5/6	9/	108	11	2.06	0.072	1.48	2.04	10.020
506	108	118 -	10	0.21	0.03	0.08	2.28	10.075
								+
507	118	121	3	0.60	0.038	0.16	1.88	10.080
5//	121	126	5	0.0/	<0.005	0.04	<0.05	
E 7 0	1.26	126	10	1 07	0.0//	0.00	0.00	
5/8	120	130	10	1.8/	0.044	0.09	0.09	0.013
579	136	148	12	1.30	0.070	0.04	0.13	10.010
508	148	158	$10 \\ 10$	0.23	0.080	0.04	6.03	10.040
209	170	100	10	0.48	0.11	0.02	0.09	0.010
510	168	178	10	0.77	0.079	0.12	0.09	0.010
								<b>├</b> ──┥
			L	· · · · · · · · · · · · · · · · · · ·				<b> </b>

## DRIL

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					Inclination	Bearing	PROPERTY	Windy Cragg	у	Length	616	<u>m (2</u> )	021ft)			HOLE	No:	11-8	2		Po	<b>ae</b> #1	of 12
	HOLE	<u>-</u> H	ECOR		-54°	N 58°E	Location	Section I-I		Hor. Con	<u>р.</u>		Vert, C	<u>omp.</u>		Sheet		of					
	Te				Borehole surveys		Elevation	1866m		Bearing	· N_5	8° E				.0000	d by	Т. Н	eah				
NBRIDG	ELIMI	TED			IISTED AL END DI LOS		Coordinat	10,572.02m	N	Beaun Ju	ly 10/	82 / <b>C</b>	omolet	d Aug	.6/82	iampi	ed by	<b>T.</b> H	eah/P.	, Ande	xer/T. C	handle	r
								9,451,56	3	Core si	z e NQ/	BQ /	Recover	ry 31	3 %	Drille	r Lor	ngyea	<u>r 44 R</u>	<u>lig </u> #1			
DEPT	H motion	RECOV	· .		DESCR	IPTION			¥	TERSEC TION	GRA	PHI	c	SAMP	LES		4	ASSA'	۲S		CO	MPOSI	TES
FROM	ft.) TO	RODICO								ANGLE	1:5	500	No.	From	TO F	·		+	++	<u>├</u> ∔			L
0	139 60	53%-8	8% Argillit	es siltst	ones, calcared	us argill	ites and argi	llaceous limes	stones		Death	6	r							<u> </u>			
()	458')	55%20	with occ	. sections	s of interbedde	d volcanio	c flows/tuffs	•			(m.)	51	ze										
<u> </u>											]												1
0	7 01		Cacing	NUJ) Erage	ented core - r	oetly bla	ck argillite i	with calcite s	stringers								GI	RAPH!	IC LOG	5 LEG	END		1
(0	23')		and veir	IS.	ented core							9						Lim	estone				1
	1			<u>.</u>								D No	4					Argi	llaceous L	imestone	e		
7 01	36 12	76% 9	37 Black ca	lcareous a	argillite with	thinly in	terbedded grev	y calcareous s	iltstone	Schistosity	7.01	e la la la la la la la la la la la la la					255 2241 APRIL 23 544 2247 28	Sitty	Limeston	ne			
(23	118.5)		and argi	llaceous l	imestone. The	black cal	lcareous argi	llite dominate	sasa	5-10°								Silt	stone				
			v.f.g. t	o aphaniti	c schistose ro	ock with th	hin (1mm to 10	cm) laminae/be	ds	Vein <b>s: :</b>		Ŧ						Argi	Ilite			l	
·····	1		of grey	calcareous	s siltstone and	l argillace	eous limeston	e, occurring b	oth in	5-10°&							_ <u></u>	Cali	careous 1	Argillite	• · •···		
	1		continuc	ous beds an	nd as elongated	l lensoids.	. Py occurs th	hroughout but	is most .	<u>5-50°</u>								<u>í</u> Intr	ermediate	e volcani	ic flow/tuff		
			abundant	within th	ne thin bedded	siltstones	s and limestor	nes. The py oc	curs as 1	ractures:	34		, <b> </b>					4	<u> </u>	porphyrit	tic		
			dissemin	ated f-m.g	s. elongate ble	bs (up to	3mm long axis	s) paralleling	schis-	.0°,20°,30°			`	<b>j j</b>			0450	1	ې د ۳	cherty or	silicified		
	†		tosity (	which para	llels bedding)	. Minor py	y occurs as s	pheroids.Total	pyrite	′5°								Che-	rt, silicif	fied bree	ددام		
	1		content	is 10%. Ca	lcite ± py vei	ns are con	mmon both para	allel and cros	scutting									605	san				
			the schi	stosity, w	vidths 0.5-3mm.	Minor sl	lip planes and	d fractures an	e I	Bedding:		F IN		↓↓				Su	iphides				
	1		observed	throughou	it with highly	variable a	attitudes. Mo	st fracture/jo	oint	$20m = 5^{\circ}$				1				<u> 3BREV</u>	IAT ION	IS and !	SYMBOLS		
			planes a	re coated	with iron oxid	les.				$32m = 10^{\circ}$	36.12			<u> </u>			ро						
	Τ.		Below	7 9.75m po	is observed be	oth dissem:	inated & in c	ross-cutting v	veinlets		37.19	1		<u> </u>			P9	P	jrite				
			up to	0 10% in pl	laces. Most al	oundant in	calcareous s	iltstones whic	h		40.23 F		ļ	<b>↓↓</b>			CP	cł	alcopyri	ite	······		
			incre	ase in bed	ding frequency	v & thickne	ess. Po is sl	ightly coarses	<u> </u>			1		┼───╄			<u> </u>		xcasion	al			
	1		grair	ed than th	ne py but is a	lso elonga	ted // foliat	ion.						₽			nmrs.	<u>. r</u>	iumerou	.5			
			10.1-	-10.4m Poss	sible truncate	l cross be	ds & channel	fillings in fi	inely	· · · · · · · · · · · · · · · · · · ·									<u>luarTz</u>				
			inter	bedded arg	gillite and si	tstone								4			disser	m. /	dissemi	nated	<b>1</b> .		
			Below	7 15.24m: c	calcite-filled	tension g	ashes common.							↓			- RQD	F	<u>Rock Qu</u>	<u>ality D</u>	escription		
			15.85	5-16.46m: C	Graded bedding	truncated	d cross-beddi	ng & channel f	illings					<u> </u>			Far	!	ault or S	Shear Ze	one		
			Below	v 26.52m: C	Calcite veins d	stringer	s more abunda	nt as well as	fibrous					<u> </u>	<u></u>			+	F			1	
			gypsu	m in hair-	-fine veinlets	& stringe	rs, fibers_v	ein walls. Blo	ocky			1						┝───┤	<b>⊢</b>				i
	Į	1	fract	uring, joi	inting & iron	oxide coat	ings more abu	ndant	 				ļ	<u> </u>				<b></b>	<u> </u>				
											1	:	 					<u> </u>	<u>+</u>			, ; <del></del>	i
36.12	37.19	0% 62	% Dark gre	een, m.g. <u>t</u>	tuff. Strongly	fractured	with limonit	ic coatings or	i frac-				ļ	<u> </u>				<b></b>	/k-				
(118.5	122)		ture pla	nnes. Chlo	orite aggregat	es pseudom	orphous afte	<pre>r pyroxene(?)</pre>	through-				ļ	<b> </b>				╞───┤					
			out. Ca	lcite veins	s common at ir	regular at	titudes (to 2	mm wide). Appa	arent			!	 	<u> </u>				<u> </u> }		<u></u>			
			silicif	ication wit	th green chert	/chalcedony	<u>y bands &amp; vei</u>	ns up to 2cm (	chick.		·	:	: 	╞───┣				╞───┤		<u> </u>			
			Py prese	ent as fine	e disseminated	grains to	5%	<u></u>			;	1	}	<b>↓↓</b>				┝───╉	<del>_</del>				
											1	ļ	ļ	╞───┠									i
37.19	40.23	11/66	% Hornbler	ndite (gabb	oro?) dyke. Da	ck green to	o black, m.g.	unfoliated bu	it trac-				þ	┼───┠				<b>+</b>					•
122	132).		tured. I	Probably on	riginally horn	olende & p	lagioclase. N	ow altered to	calcite,					<u>├</u> ┣				+		<u>-</u>			<b>-</b>
			epidote	chlorite 1	t clays with r	emnant alt	ered hornblen	des. Soft & fi	ciable.			ļ		┟───┠	<u> </u>								à
														┝───┠	·				<del></del>				
40.23	41.00	7% 63	% Dark gre	een, chlori	itized tuffs(?	as previ	ous: 36.12-37	.19. First 300	mis					╞──╋						-+-			•
132	134.5)		extreme	ly sheared	and broken -	probable fa	ault or shear	zone.			•			╞───┾		+	++			+-			ł
·····	L							· · · · · · · · · · · · · · · · · · ·						┝──╊			╶╂╴╼╌╄	+					
													ļ	╞───┠		+							
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## DRILL HOLE RECORD Collar Bearing PROPERTY FAL

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		-			Inclination	Bearing	PROPERTY			Length						
	JULI		RE				Location			Hor. Com	<u>IP.</u>		/ Ve	rt. Co	mp.	
			_				Elevation			Bearing						
ONBRIDG	SE LIMI	TEL	)				Coordinates		N	Begun			/Cor	nolete	:d	
									<u>E</u>	Core si	<u>z e</u>		/Re	cover	¥	
DEPTH	in metres	REC	OV'Y		DESCR	RIPTION			INTI	ERSECTION	I GI	AP	HIC	1	SAMP	LE
FROM	TO	RQD	Core						<b> </b>	ANGLE		1:500	, 17.	No.	From	To
41.00	58.22	72%	94%	V.f.g. black <u>ca</u>	lcareous argill:	ite with thir	ly interbedded (1mm to	<u>2cm) grey</u>	<b>_</b>		41.00	A	FTops		<b>_</b>	┣—
(134.5	191			f.g. calcareous	siltstones. Sla	aty schistosi	ty is well-developed s	sub paralle	1 <u>Sc</u>	histosity			F		+	<u> </u>
				to bedding. Py	occurs both as o	disseminated	lenticular blebs // fo	liation &	or	cleavage	4		1		<u> </u>	
				as py-rich silt	y beds. Py tota	ls 5-10%. The	rocks are cut by nume	rous irreg	20	)°	-		Ĺ		<u> </u>	┝
ļ		L		calcite-qtz_& p	y-calcite veins	cut in turn	by later gypsum-filled	l veinlets.	Be	dding:15°		54	ł.	}	┫	┝──
		L		41.76-42.06m	: Intense calc:	ite veining,	fractures, calcite-fil	lled tensio	<u>h</u>		↓ '*		Ĺ	<u> </u>	<b></b>	┝
					gashes.		· · · · · · · · · · · · · · · · · · ·		<u> </u>		F,			}	┥───┤	
		· ·		49.68m:	Graded beddin	ng, crossbedd	ling: indicates tops in	down-hole	<u> </u>		58.22		1/3		┥───┤	┝──
			+	······	direction.				<b> </b>		60.35 61.42	<b>H</b> I	107-		+	<b> </b>
		Ļ		51.51-52.27m	: Shear/fault :	zone. Breccia	ted argillite, calcite	e, clays.			64.16	Ø			╉┩	
	+			<u></u>	Iron oxides.				<u> </u>		1				+	
			┝╌╌┟	Below 52.27m	: Strong deform	mation, minor	faults, folds some bi	recciation	<u> </u>	<u></u>	68.58 (4. <del>35</del>		ſ		+	
		<b></b>	$\left  \right $	56.39-56.69m	: Shear zone.	Fault gouge.					72.39	Jose I			┼──┦	
	+	i	+-+				(1) (1) (1)		<b> </b>		1	1			┼──┦	
58.2	2 72.39	<u> 68%</u>	96%	Section of inter	cbedded variable	e volcanics (	flows, tuffs) with cal	careous			-	-		<u> </u>	+	
(191	237.5)		╁──╄	argillites & arg	gillaceous limes	stones simila	r to previous rocks. U	ated with			1				┝┩	
·		╂	+ +	between volcanio	cs & sediments	may be sharp	ing plane movement or	slippage			┨					
	+		┼──┼	strong calcite	veining indicati	ing some bead	form block wf a re	sippage.		· · · · · · · · · ·					+	
<u> </u>			┼─┼	The calcareous	argillites are g	generally uni	oveloped schistosity r	arallels			1				+	
		+	+	laminae of lime	stones or sills	throughout	the argillites to mine	r degree.			1					
	+	+	┼──┼	bedding. Dissem	Croop-group	s throughout	porphyritic flow Ghos	ty pheno-								
	+	+	┼──┼	58.22-60.55m	Green-gray, n	u.g. massive	ite 6 celeite Po(5%)	$p_{\rm rel}(2\%)$		····	{				+•	
	+	+-	┢─┼		finely disser	minated Cont	act zone at $60, 20-60, 5$	6 contains	6		1					
	+	+	╉╼╌╉		calcite & and	milar argilli	te fragments.	0 00100210	61.	$42m = 45^{\circ}$	ł					
	+	+	╉╌╌╋	61 / 2_62 18m	· Porphyritic	flow as $58.22$	-60.35m. Angular argil	lite frag-			1					
		+	++	01.42 02.10	ments at 61.4	42m in flow.										
	<del> </del>		<u>†</u> †-	62 18-64 16m	: Calcareous at	rgillite as t	revious. Dissem. py <1	%.	Con	tact at	1					
	+	+	┝━─┾	02.10 04.10	. ourearcoub a				64.	$16m = 23^{\circ}$						
	+	+	┼──┼	6/ 16-65 23m	· Green-grav?	rvstal tuff.	Up to 30% shardy crys	stals re-								
	+	+	┿╌╌┼╴	04.10 05.25m	placed by ca	loite in f.g.	grav calcite-rich mat	rix. 5%								
	+	+	++		dissem, po. (	Chlorite in o	avities & more chlorit	ized at			1					
	+	+			end Upper &	lower contac	ts are slightly brecci	ated,	Con	tact at						
	+	+			colcite line	d Some gyps	um veins at lower cont	act.	65.	$23m = 20^{\circ}$						
	1	<del> </del>		65 23-68 88m	· Calcareous at	rgillite 1.(	mm to 1.5cm thick beds	s of lime-					· · [			
	+		╞╌┠	03.23-00.00	stone & silt	stone. Abunda	int py blebs elongated	// schis-					ļ			
······································	1	+			tosity Calc	ite veins. Gi	aded bedding at 65.50m	n indicates					Ī			
	1	<u>†</u>	<u> </u>  -		tons towarde	bottom of he	ole.							•		
	1		+	68 88-69 34m	: Grev-green f	.g. tuff-cald	areous, chloritized.	ractured.					ľ			
		†	++	00.00 07.54	V. minor pv	po. Lower &	upper contacts with an	rgillite	Cont	act at			ſ			
	1	1			are slightly	brecciated.	calcite filled.		69.3	$34m = 40^{\circ}$			Ī			
	1	<b>†</b>	<u>† − †</u>	69.34-72.24m	: Calcareous a	rgillite as 1	previous. Dissem. py to	o 5%. Nmrs					ſ			
	1	1	<u>†</u> †-		calcite & oc	c. gypsum ve	inlets. Sporadic section	ons of de-					Γ			
	1	1			formed & bre	cciated calc:	ite - py veining.						Γ			
	1	1	tt-	72.24-72.39m	: Fault/Shear	zone in block	cy m.g. green-gray tuf	f.				1	ſ		1	

	н	DLE	No:					Po	<u>ae</u> #	2 of	12
	Sh	eet		of							
_	Lo	<u>bap</u>	by								_
	Sa	mpie	d by								_
%	Dr	iller									
S			A	SSA	YS			CO	MPOS	ITES	
	Ft			┿───		+	<u> </u>	+	+	-+	-
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NBRIDGE LIMITED					<b>A</b> 4	Dearing		· · ·	10			
					<u> </u>	Core			/001	<u>olet e</u>	<u>1</u>	
DEPTH in metres DECC	v'M				LINT	COLE SI				<u>.uver</u>		
FROM (ft.) TO ROD (		DESCA				ANG F		1:500		Na	SAMPLE Enamite	. ) E.
72 20 01 20 52%			11-3-5				<u> </u>					
(237 5 299 5)	calcareous siltstor	<u>is argillite,</u>	<u>plack V.I.</u>	g. schistose with some interbedd	ed		72.39		ł			
(257.5) 255.55	calcareous "bouding	" occur in t	he black ar	gillite giving a conglomeratic	<u> </u>		ł					
		ouding are e	longated na	rallel to schistosity & hedding				1923	•			
	Flongate py blebs	leo parallel	schietosit	y Patchy zones of intense calci	+	•		011A	ł			
	(the py bields a	turing & bre	cciation ar	e observed					.			
	(1) Verning, 11ac	laaku fraatu	ring Some	minor folds with avial plane	+							
	78.20-78.03ш:	loawago subp	arallol to	hedding	+							
01 20 07 70 25%	2% Minud values is flow	Lieavage Subp		cillite Velennie (acdiment contract			99		1			
(299 5 311)	are sheared and/or	brecciated w	ith much ca	leite veining & angular fragments	<u> </u>				Tops			
	of both volcanics &	argillite.	Volcanics a	re altered, chloritized.			94.79	1.12	ŀ			
	91 / 9-93 27m · P	orphyritic(?)	) flow: gree	en-grav f g chloritized and	+				ł			-++
	<u> </u>	ilicified in	natches C	algite-replaced phenographs or	+				NQ			-++
		myadulaak pur	pacenes, ca	ito voing Finaly discominated p	,				AF TOOLS			
		12 66-92 96m	Coarso cal	cite in shear	<del>'}</del>				F			
	03 27-04 03m B	12.00-92.90m.	tio oploare	oug argillito Uppor & lover con	+		F A		ŀ			
	<u> </u>	acts sheared	brecciated	& calcite-veined Some no in	+			UM	`  -			
		alcite at lor	Wer contact	d calcree veined, bome po in	+				,			
	94 03-94 79m · C	reen-grav f	g chloriti	red flow? Calcite-filled amygdul			116.74		F			
	j4:05 j4:79m: c	n green anhai	nitic matri	x. Disseminated subhedral ny to	- <u>-</u>		119.48		F			
		5%.		A. Dibbemindeed babiledidi py to					ŀ			
			······································		<u>+</u>				ŀ			
0/ 70 116 7/ /699	9% Interhedded black w	f a colooro	ouc argilli	to with laccor grow calcareous	<u> </u>				F			
(311 383)	siltstone & minor 9	rev f.g. argi	illaceous li	mestone, Well bedded, good slaty	Bedd	$ling=20^{\circ}$			F			
	cleavage in places	parallel to s	schistosity	defined by elongate disseminated		1		9	F			
	py blebs & calcite.	Bedding thic	kness range	es from 1mm to 15cm or more.	<u> </u>		135.96		F			
	Calcite ± py veins	or stringers	are common.	Conformable py laminae/beds	<u> </u>			1	F			
······································	(lcm thick) at 96.7	$7 \pm 0.97.08m$			†							
	99,06-99,36m: G	raded beds in	argillite-	-siltstone indicate tops in down	<u>↓</u>				-  -			
		ole direction	n Cyclic b	edding, py-rich at base.	<u> </u>				┢			
	108 20-108 51m; C	raded bedding	a indicates	tons in down-hole direction.					- †-			
	108.20-108.91m: G	hear zone?	gindicates						-			-++
	100.01 109.120.0	neur zone.							+-			
116 7/ 110 /0 2670	0% Gray groop magaine	f a flows o	hloritized	Calcite blebs-possibly amyodula	r Vol	canic-						
(383 302)	infillinge or	replacing ph	henocrysts?	Some patchy chlorite aggregates.		act=45°						+ +
	One interhedded sec	tion of calca	reous areil	lite 117.96-118.26m. Volcanic/					+-			-+
	argillite contacte	are lined wit	th calcite	Flows bear 3% dissem. po.					┢			-++
												++
119 48 133 06 3/90	79 Intorhaddad black	f a +=1			<u></u>		i		+			++
(392 /39 5)	argillagoous limet	.I.g. to apha	nitic calca	reous argillite & grey f.g.	Bodas	ng st			┣-			++
	ny highe calaito	labe & houdi-	veroped scal	Argillacons limeters	100				$\vdash$			┼╍┾
	increases in relation	ve ahundance	down-hole f	tends to form discontinuous	<u>122m</u>	= 23			$\vdash$			+
		ve abuitualite	down-note 0	cenus to torm discontinuous					-			┼╌┼
			- 1 - 1'				•	1	,	1		

			DLE	No:	11	-82			Po	ae #	3 of	
0 m p.		Sh	eet		0	f		_				
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ed		Sa	mole	d by								
ry	%	Dr	<u>iller</u>									_
SAM	PLES		]		ASSA	YS			CO	MPOS	ITES	
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			oopo		Inclination	ation Bearing PROPERTY					Length							HOLE No: 11-82						<b>Poge</b> ## 4 of			
	ULL	: KE		Caller			Loc	ation			Hor. Con	np.	/	Vert, C	0 m p.		She	et	of								
			F				EI	evation			Bearing				•		Logo	ed by	t								
NBRIDGE	LIMI	TED					Co	ordinates		N	Beaun		. /	Comolet	ð		Sampled by										
			F							E	Core si	Z 🜒	/	Recove	ry	%	Dril	ler									
DEPTHI	in metres	RECOVY			DESC	RIPTION	N			INTE	RSECTION	N GF	RAPH	I C	SAM	LES			ASS	AYS			COMP	OSITE			
FROM (ft.)	то	RQDiCore									ANGLE	1	1:500	No.	From	To	Ft	1		1		1	1 1	1			
119.48 1	33 96		CONTINUED FRO	OM PAGE 3	3				······································						1												
	33.30		blebs & occ	euhedra	al crystals	up to 4mm	m From	126 64 to 128 6	3m py forms	1		1									1-1						
			conformable	laminae	& beds up	to 5cm in	thickne	ss.Some soft se	diment loading	2		1			+					_	1-1		<b> </b> -	+			
			of py into c	calcareou	is argillit	e. Deforme	ed pv la	vers up to lcm	thick also	Bedd	ding at	1			+					_	++	<b></b>	F+	+			
		-++	occur betwee	en 181 37	7 £ 132 28m	Minor sp	pheroida	1 nv blebs obse	rved	131	50m=20°	-			+						++	<b>—</b>	<b>┌───┼</b>	+			
			OCCUI DECWEE	<u> 101,07</u>	<u>d</u> 152.20m	· IIIII01 3p	pheroida	1 09 01000 0000	1700.	1 101		1									1	<b></b>	<del>_</del>				
122 06 1	20 60	50%05%	Crow E a ar			no hoda f	roundod	to avoid "houd	inacod" lonco						+						++	·+	·+	+			
(120 5 1	59.00	50%95%	Grey L.g. ar	rgillaceo	hlash sala	ne beds a		Vince this had	inageu iense	S Poo		0 133.96-			+			-+-			++						
439.3 4	28)		suspended in	<u>l V.I.g.</u>	DIACK CAICA	areous arg	gillite.	linear come of	s of carcareo	us bec	10102=40	-			+						++				-		
			blobs parall	lol to he	dding & ag	conformab	blo thin	bede (135 33-1	35 Q() The	+		139.60	The second		+					-	++						
			longy charge	ator of t	the limesto	ne becomes		ronounced more	uniformly	+		1	22		+					-	++	<u> </u>					
			bodded with	denth	.ne iimestoi	The Decomes	5 1635 P	ronounceu, more		+		-	14.4		+						++	+	<del> </del>				
			Dedded with	deptil.						+		4	7.7		+					-+	++	<b> </b>					
120 (0 2	10.00	((***)))			5.5 · · · · · · 1 ·			und shlawitingd	tuffa S flore	+		4	1 Int		<del> </del>	+					++						
139.60 2	18.08	00%98%	Massive grey	/-green t	ulls gradi	ng into mo	ore alle	red chioritized		¥		4	and and		+			-+-			++	+	+				
428 /	12.21		bearing stri	inger sul	bhides.								12		+					-	++						
100 (0) 0	1/ 00	( 78% OF		· · · ·			1		11.1. 61			-								-+	╄───┾						
139.6012	14.88	6/%98%	Sequence of	massive,	<u> </u>	. grey-gre	een volc	anic tuits & po	ssible flows.	<u></u>					+						┝──┼						
458 /	05)		Slightly chi	loritized	1 with tend	ency to in	ncreasin	g chiorite cont	ent with dept	<b>q.</b>				}			-+-				┼┼						
			Mottled text	<u>ture resu</u>	<u>ilting from</u>	patchy ch	hlorite	& calcite-repla	cement altera	<del> </del>		+	NO NO	, <u> </u>	+						╞───┼	+					
			tion. Sugges	stions of	original	crystals a	and/or r	ock tragments 1	imonto io	<u> </u>		+		*	<b>-</b>						┼───┼						
			now replaced	1 by calc	herd of m	rite. Cont	Dr oco	in preceding sed	linelius 15	<u> </u>		-			+						┟───┼						
			sharp & bear	<u>cs a thin</u>	i band or ma	assive po.	. Py occ	urs as <1% fine	ly dissemin-				The second second	}	+		-+-				┢						
			ated v.i.g.	DIEDS 1n	i tuir & wit	thin py-ch	halcedon	y or py-calcite	veinlets.				A A A A							-+	┣┣						
			Marked chlor	itizatio	n 1s observ	ved around	d such v	einlets with py	often form-	<u> </u>			- ایکن میں میں میں میں								┝──┼						
			ing a vein s	selvage &	a f.g. dis	sseminated	d envelo	pe in the chlor	ite alteration	1			فرزجه	ļ	<u> </u>						┝──┤				_		
			envelope. cf	. 176.78	<u>-176.94m,</u>	177.39-177	7.70m, 1	78.31-178.46m,	<u>180.54-180.75</u>	<b>₽.</b>			A CONTRACT								┝╼╼╾┾						
			Below 180.75	<u>om chlori</u>	tization an	round calc	c-qtz-py	veining become	s increasingly	ł					+						┝──┼						
			common. Some	2 silicif	ication of	volcanics	s in are	as of more inte	nse veining.	ļ			A CALLER S							_	┝───┤		i				
			Minor dissem	n. po & r	are cp ass	ociated wi	ith some	veins. Strong	fracture zone	s .											<u> </u>						
			occur at 184	+.1-184.7	l (fault zo	one?), 185	5.17-185	.62m, 189.28-18	9.59m and				المستقر								<u> </u>						
			193.85-194.4	¥6.									X		L				_								
													N 8 8 1		ļ						<u>├</u>						
214.88 2	18.08	41%93%	Dark green,	v.f.g. c	hloritized	& occasio	onally s	ilicified <u>andes</u>	itic_f <u>lows(</u> ?)				50								┢───┤						
705 71	15.5)		Vesicular pa	itches fi	lled with (	chlorite p	possibly	after pyroxene	. Rusty coate	1		l k	W W W								<b> </b>				_		
			fractures &	numerous	; Qtz ± cald	cite veins	s up to	2.5cm width-som	e with qtz.					·							<b></b>						
			crytallizing	3 perpend	licular to v	vein walls	s (exten	sional). Sulphi	des are dom-	Sulp	ohide		W W							_	,						
			inantly po w	vith less	er py & cp	to 15-20%	% total	as veins bands	& blebby	band	ling at		N. C.	L							<u>⊢</u>				_		
			patches. Cp	occurs o	only with c	.g. po. Py	y genera	lly occurs in c	ross cutting	50-5	55°	21400									<u> </u>						
			qtz ± calcit	ce veinle	ts. Schist	osity defi	ined by	elongate py, po	blebs.			LT.88	Sin a														
			217.93-21	18.08: Fa	ult gouge -	+ breccia	includi	ng fragments of	underlying			F									L						
				se	diments.							218.08							_								
218.08 2	73.10	73%99%	Interbedded	grey, f.	g., calcar	eous silts	stones &	black v.f.g.,	calcareous																		
715.5 89	96)		argillites.			·····																			1		

RILI	HOL	F	F	<b>RE</b>	CORD Callar Location		Hor. Com	P.		/ Ve	rt. Co	mp.	
			•	•	Elevation	-4	Bearing						
CONBRID	GELIN	1 I T I	ΕD			N	Beaun			/Com	ndete	d	
						E	Core si	ze		/Re	cover	Y	
DE	PTH in metro	. 0	500	in	DESCRIPTION	INT	ERSECTION	GI	RAPH	HIC		SAMP	LE
EDON	(ft.)						ANGLE		1:500		No.	From	To
FROM		<u></u>			This is in the light (into 2 cm) coloarcous siltstones & calcareous argillits	s		010 0		se F			
218.	08 248.1	11/7	7%9	9%	Thinly interbedded (Imm to 2cm) calcareous situstones a calcareous argillite	Be	dding at	218.02		X			$\square$
(715.	<u>5 814)</u>		-+	+	with well developed slaty cleavage in argitites a forfaction defined by	2	20m=40°	<i>بر</i> ء		Tops			
				-+	stretched py & po blebs. Mais calcite and/or quartz verns in places process	<u> </u>		1				1	
			-+-		brecciated appearance. Po & py are disseminated thiodenoutly a po , that is			1					
ł		-+-	+		<u>cp occur as semi-massive stringers, patches &amp; massive bunds from dioate top</u>	<u>†</u>		1					
					219.46m, 222.20-223.11 (po rip-up clasts()) & load structures indicate top	Be	dding at	1				1	<b>—</b>
					in down-hole direction). Below 227.00m po dominates as numerous stringers a	23	$0m = 65^{\circ}$	1	C.S.C.			1	
		-	-+		massive bands as well as disseminated plebs. Fy occurs as disseminated pleb	1-23	011 - 05	1					
					and cp occurs sporadically within the po bands. Some graded bedding in po	†		1					
		_			bands. Some graded bedding in po bands also indicates cops in down note			1					
	_				direction. Sulphides compose 23-30% overall with po most abundant.	<b>}</b>		1				<u>+</u>	<u> </u>
					220.37-220.52m: Fault gouge			200 11					
	_		-+		221.89-221.97 & 234.7-234.85m: f.g. light green, aphanitic sificeous tur	<del> </del>		240.19	AD TO T	NQ			
	_	<u>_</u>				<del> </del>		1					<u> </u>
248.	11 260.4	45 7	3%1	007	Conglomeratic f.gm.g. grey siltstones (calcareous in parts) within a	<b> </b>		{		~~		+	
(814	854.	5)			matrix of calcareous to non-calcareous v.f.g. black argillite. The siltstone	<u> </u>		F		ا الم		+	
					forms sub rounded "clasts" or nodules in the argillite. Clasts are elongate	<u>a</u>		F					
	_		$- \downarrow$		parallel to crudely developed foliation as outlined by elongate po blebs.			260,45					<u> </u>
				_	Po also forms stringers & appears in cross cutting Qtz-calcite veins. Traces				1	-		+	<u> </u>
	_				cp in po veinlets, occasionally rimmed by po. Minor dissem. py. Sulphides			266.93					
ļ					5-10% max.		11. 108	-					
					249.33-254.51m: Siltstone clasts up to 5-6cm across. Length to width	Bed	iding=40	273.10					<b></b>
					ratios from 1.5:1 to 2:1.			{				<u> </u>	<b></b>
					254.51-259.69m: Clasts are calcareous much more abundant than argillite			ł					<b></b>
		_			matrix.Edges of clasts are feathery-resembling pull-apart			-					
					structures.								<u> </u>
				I	258.01-258.17m: Graphitic Fault zone in enveloping strong fracture zone.			1				<u> </u>	<u> </u>
		-			260.30-260.45m: Fracture zone.			-					<u> </u>
								4					<u> </u>
260.	45 266.	0960	6% 9	9%	Dominantly v.f.g. black, schistose calcareous argillite with minor inter-							<u> </u>	<del>.</del>
(854.	5 873)				bedded grey calcareous siltstone, only minor nodular forms. Py & po occur						· · · · · · · · · · · · · · · · · · ·		┝──
					mostly in fine stringers & minor fg dissem. blebs. Nmrs. Qtz-calcite veins.	Bee	dding=60°					<u></u>	
		+	-+-		Below 263.65m sulphides are mostly po in stringers & blebs ≦10%. Foliation			ł				<b>_</b>	<u> </u>
				-†	is parallel to bedding.							<b>_</b>	┝
					263.96-264.26m: Intense veining-po qtz-calcite veins.							ļ	<b> </b>
		-		-+								ļ	<b> </b>
266	00 272	105	9% 0	98%	Conglomeratic f.gm.g. calcareous siltstone in black v.f.g. calcareous								<b></b>
(073	UX 2/3.	<u>tus</u>	5/6	10/4	argillite as previous (248,11-260,45m) Sulphide veinlets & dissem. blebs					Ĩ			
(0/3	1040)				<10% po <1% cp 1% py. Nmrs Otz-calcite veins. Final 60cm is cherty.	· · · ·						i	
		-+-		-+	silicified argillite interhedded with dark green cherts with po veins &	<u></u> .							
		-+		-+-	stringers								
		-+-			Stringers.								
070	10 201	0 - 4	201 1	0%	Marine - 1-hile with miner intertals initiating envilling ( showthe					Чалана С		5	
2/3.	10 291.	004.	3/ 0	0%	Massive sulphides with minor interpedded silicified argililte & cherty	- <u></u>							
(896	957.	5/			tutts, Some open cavities.					ł		11	ī —

	HO	LE	No:	11-	82		 Pog	e #	5 of	12
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	Log	aed_	by		· ,	sin sa				-
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%	Dr	ller					 			
5			A	SSAY	S		COM	POSI	TES	
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						_	Elevatio	n		Bearing		·			Log	ged by		· · · · · · · · · · · · · · · · · · ·
UNBRIDGE	LIMI	ED					Coording	tes	N	Begun	//	omplet	d		San	noled by	····	
									<u> </u>	Core si	22 /	Recover	Y	%	Dri	ller		
DEPTH	in metres	REC	Y'Y		DES	CRIPTIO	N		NI	ITERSEC TION	GRAPH		SAMF	LES			ASSAYS	
FROM (+t.)	то	RQD	Core							ANGLE	1:500	No.	From	TO	Ft	Cu%	<u>Co%</u>	
273,10,2	77.52	59%	819	Massive sulphide	s. >90% in <	10% pale gr	een cherty mai	rix. Sulphide miner	ralogy.			7833	Q 896	906	10	2.41	0.050	
(896 9	10.5)		<u> </u>	is 65% py, 25-30	% po & 5-10%	cp. Some r	elict bedding	preserved in sulph:	ides.		273.10							
				Cp occurs in str	inger-type b	lebs in po-	rich bands & a	s f.g. disseminatio	ons		27752 2 2 2 2 2		T				(	
			-+	in py. Cp also t	ends to conce	entrate nea	r gangue fragn	nents. Nmrs qtz±cald	cite		279.50							1
			-+	veins & some rus	ty, occ slich	('n' sided	fractures.	<b>_</b>			281.03 CAVITY	33	1 906	917	10	3.16	0.084	+
t												↑	1					1
277 52 2	79 50	73%	22%	Silicified shea	red cherty l	lack aroil	lites with sor	e cherty green sec	tions		287.43							1
(910 5 9	17)	1 5/10	2/0	possibly tuffs	30% sulphide	s as bands.	stringers & r	atchy blebs of po.	v.				1				1	++-
10.5	17)		-+	minor py & 1%cp.	Po is smeared	d out on sl	ick 'n' sided	shear planes.			291.85							1
<u>}</u> }											293.52 CAVITY		1				1	1
279 50 2	81 03	73%	72%	Massive sulphido	s as previou	s (273 10 -	277,52m)				296.88	33	2 917	922		1 50	0.040	<b>†</b>
(917 0	221		2/0	massive surplifue	as previou	5 (275.10 -	/						<del>4 / + /</del>	166			V. U-V	++-
								······					+				1	++-
281 02 2	85 60	0%	17	Open Cowity No			·						+		-+		†	++-
201.03 2	27)	0%		Open cavity. No	core.		<u></u>	······································					1				<u> </u>	++-
(322 3.	5//				·······												<u>+</u>	++-
295 (0) 2	07 / 2	07 0	297		- 1 15		1					33	2 037	0/2	6	0.00	0.010	++-
285.00 2	07.43	<u>0%</u> K	<u>5%</u>	Poor recovery. U	nly 15cm reco	overed of a	Itered cherty	volcanics.					1 33/	945		0.09		++-
(93/ 9	43)			·····		<u></u>							+		+	····		+
												33	0/3	9/17		2.64	0.064	++-
287.43 2	91.85	64%	18%	Massive sulphide	s. Similar to	previous:	>90% sulphide	<u>in cherty green ma</u>	atrik	1 1 4 1				<u>, , , , , , , , , , , , , , , , , , , </u>	-+	2.04	0.004	++
(943 9	57.5)		-+-	with minor bands	of chloritic	material-	probably chior	itized volcanics.	Su	ilphide		33	947	957	$\frac{10}{10}$	2.64	0.084	+
				Sulphides are do	minantly r.g.	-m.g. pyri	te with numero	ous bands of po. Po		inds=45-50		}	+					+
				averages 30-35%	over the zone	e, pyrite 5	0%, cp 8-10%.	up occurs as c.g. I	DIEDS	i	529.19 CAN		┼──┨	+	-+		<u> </u>	+
				along margins of	po-rich band	ls, in & ar	ound siliceous	s gangue fragments d	& as		321.32		┼───┨				<u> </u>	+
				f.g. disseminati	ons in the p	·						ļ					ļ	+
													<u> </u>	+				+
291.85 3	31.32	5%	24%	Gossan: siliceou	s iron-oxide	boxwork &	open cavities.	······································				ļ	·				<u> </u>	+
(957.5 10)	87)	i-											┼───┨				<u> </u>	+
												<u> </u>	┼──┤					+
291.85 2	93.52	U%  4	+5%	Gossan. Vuggy, c	rumbly iron o	oxides & ir	on oxide stair	ied SIIICEOUS DOXWO	L.K				0.57	077	10	1 10	0 020	+
(95/.5 9)	63)			Very poor recove	ry.								1, 2, 1	311	10	1.12	0.050	+
								·····					┼				l	+
293.52 2	96.88	0% (0	)%	<u>Open Cavity</u> . No	core.								┼──┨					<b>├├</b>
(963 9	74)		-+		<u></u>								╞──┨					<b>├</b> ─── <b>├</b> ─
						····						- 227		007	20	0.15	<0.005	┟────┤──
296.88 3	29.19	6% 2	26%	<u>Gossan as previo</u>	us. Very poor	recovery.						33/	111	101-	20	0,15	10.005	┟
(974 10	80)											338	997	1017	10	0.12	<0.005	
								· · · · · · · · · · · · · · · · · · ·				339	1017	1031	14	0.11	<0.005	<u> </u>
329.19 33	31.01	0% 0	)%	Open Cavity. No	core.							78370	1031	1051	20	0.09	0.008	+
1080 108	86)											3/1	1051	10/1	20	0.11	NU.005	╆━━━━╋━━
												372	1071	0180	9	0,11	0.008	<b>  </b>
331.01 33	31.32	0% 4	2%	<u>Gossan</u> . As previ	ous.								└──╁					<b>↓↓</b>
1086	87)	T										1						

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	IL HOLE DECORD Inclination Bearing PROPERTY						Length						<u>HOI</u>	LE NO;	Poge #	Poge # 7 of 1					
	1011	<u> </u>	KE	CORD	Collor	+		Location		Hor. Com	np.	//	/ert. Co	mp.		She	et	of	·····		
					~		Į	Elevation		Bearing				•		Log	aed by				
ONBRIDG	E LIMI	TED				<u></u>		Coordinates		N Beaun		/Ca	omplet	d		Son	noled by				
				•					······	E Coresi	z e	/R	ecover	Y	%	Dri	ller				
DEPTH	in metres.	BECC	w'v		·····	DESCI	RIPTION			INTERSECTION	GRA	PHI	c	SAMP	LES			ASSAYS			,
EPOM (F	τ.) ΤΟ	ROD	Cord			••••				ANGLE	1:5	00	No.	From	To	Ft	Cu%	L Co%	L Zn%	Ag	$\frac{1}{10}$
	276 12	5.0%	0/9	Manadara Carl	_ h : 1			han han Annon aris at	ilphomologo &					Ť							<u>Au</u>
331.32	370.12	50%	841	Massive Sul	pnides:	py dominant	with po rich	Dands, Accessory St.	<u>Liphomerane a</u>									4	1		
(1087	1234)	<u> </u>		magnetite. M	linor sh	ear zones wi	th chlor <u>itize</u>	d volcanics. One ope	<u>n cavity.</u>		4				<b>!</b>			+	·		
	<u> </u>							· · · ·					79375	1096	100/		1 62	0 12	+		
331.32	364.08	58%	96%	Massive sulp	hides: C	enerally py	itic sulphid	es with numerous ban	ds & layers	Sulphide	331.32	<u>_</u>	70/25	1000	110/	10	1.05				
(1087	(194.5)	+ +		or po. Cp oc	curs as	r.g. dissemi	hations in p	y, as c.g. blebs in	as servage	225		,	(043	11094	1104		1.00	1 0.13			
		┟──┼		to po bands,	also as	s discrete ve	einlets & con	centrations in & aro	una, si liceous	<u> </u>	-		430	11104	1124		<u> </u>		+	╾┿╾╴╾	
				gangue. Some	massive	<u>pyrrhotite</u>	bands bear d	<u>isseminated</u> c.g. pyr	<u>ite often as</u>	0.1.1.1.1.	4.	1.1	437	1114	1124		1.50	0.11	+		
		$\downarrow \downarrow \downarrow$		rounded aggr	egates.	Below 334.98	3m magnetite	occurs as anastamosi	ng veins,	Sulphide			438	1124	1134	$\frac{10}{10}$	1.50	10.11	-<0.01	0.09	0.0
				bands & patc	hy segre	egations, of	en intimatel	y associated with c.	g. cp. 5111-	bands at	- }		439	1154	1144	10	1.58	0.097	÷	0.09	
				ceous cherty	bands,	veins & pod:	s are common	as well as vein-like	fillings of	$352m = 45^{\circ}$	-		440	1144	1154	10	$\frac{1.66}{1.00}$	0.092	0.01	0.05	0.0
				dark green t	o black	vitreous, bi	ittle,platy	material -probably s	tilpnomelane	Sulphide		1	441	1154	1104	10	1.89	0.091		0.05	
				Massive po	bands a	at 331.93, 33	33.30, 340.00	, 343.81-345.49, 349	.15, 352.35	bands at			442	1164	11/4		1.50	0.075	<0.01	0.05	0.0
				352.65 + n	mrs vein	ns & laminae.	·	_		363m =			443	1174	1184	10	1.58	0.083		0.05	
			T	333.15m:	Cp	o in qtz fill	led tension g	ashes.		35-40°		, BC	444	1184	1194	10	1.89	0.081	0.01	0.05	0.00
				Abundant chl	orite &	chloritic fr	agments near	end of section.						1							
			+									مم ا									
364.08	368.5	14%	34%	Fault zone:	in shear	red chloriti	c volcanics,	brecciated, gouged, w	vith clay		364.08	مر العوار سر العواد ال				$\Box$	_				
(1194.5	1209			development	& quart:	z veining							445	1194	1204	10	0.75	0.013		<0.05	
		++	+			<u> </u>	······································				368.59	2	446	1204	1214	10	0.02	0.007		<0.05	
368 5	372 77	30%	49%	Massive sult	bides: 8	80% sulphide	s 20% Otz vei	ns. matrix. stilpnom	elane. Trace				447	1214	1224	10	2.45	0.062	0.01	0.05	0.00
(1209	1223)		4 7 /0	magnetite S	Sulphide	s are predom	inantly pyrit	e: 60-70% pv. 20-25%	ο δ 5-10%		372.77 CAVI	TY						0.002		<u> </u>	
(120)	12237	╉╼╾┼			c inter	mixed with n	v & as discre	te hands bearing sph	peroidal pv	<u> </u>	376.12							•	1		
		┦──┼		cp. ro occur	s inter	amilar with p	on blebe Sti	Ippomelane occurs wi	th & without							-+					
		┟──┤		α euneurar p		eguial wavy	in-like filli	nge & fracture-filli	ings. Some cr						+	<u> </u>	····	<u> </u>			
		$\left  \right $		chlorite as	sneared	patches, ve		ate voine Dy tonde	to be		382.52					<del> </del>					
		+ +		15 associate	ed with	stilpnomelan	e as well as	quz veins. ry tenus	<u></u>		4			<u>├</u>	<u> </u>	<del> </del>			<u> </u>		
				coarser grai	ined that	n the po.	·····				4 1				+	r+			+		
				······································						- <u></u> -			}	·					<u> </u>		
372.77	376.12	0%	0%	Open Cavity.	No cor	e.	<u></u>					İ	k		<del>.                                    </del>			+	·		
(1223	1234)															<del>_</del>		ļ			
																<del>_</del>			 		
376.12	391.97	42%8	8%	Massive pyrn	rhotite-	rich sulphid	es with inter	bedded layer of volc	anic flows.												
(1234	1286)																				_
		T													<u>+</u>	<u>+</u>				-	
376.12	382.52	33%8	0%	Massive sult	ohides.	dominantly p	yrrhotite. Co	omposition overall is	з 60% ро,				448	1234	1244	10	2.00	0.087		<0.05	
(1234	1255)			20% py, 5-10	О% ср <b>+</b> .	5-10% magnet	ite, stilpnom	nelane, siliceous gar	igue in				449	1244	1254	10	2.87	0.12	0.03	0.05	0.002
				variable pro	oportion	through the	section. Py	rich bands occur the	coughout.	Sulphide								Í			
	· · · · · · · · · · · · · · · · · · ·			Some vilgev	sections		376,12-376,28	3m, 379,78-380.09m. F	Parts of the	bands								L			
				zone dienlas	v crude 1	banding, pos	sibly origina	al textures. Py occur	rs as dissem	380m = 35°											
			- †	cubes in mag	ssive no	. Cp occurs	as irregular.	m.gc.g. wispy ble	ebs in po,as												
		<u>├</u>		colugação to	0+7 101	ns at contac	ts between n	v &po bands & in sil:	iceous gangue											1	1
		<u>├</u>		Databas	410 VEL		<u></u>					ł					······				1
		┝──╁·		parenes.		<u> </u>	<u></u>														+
		$\vdash$										ł	h		+			······		+	+
														-	•					-	
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						Inclination	Bearing	PROPERTY		1	Length						HOI	LE NO:	11-82		Poge #	8 of 12
イルトト	HOL		KF	CORD	Collar			Location			Hor. Com	p.	/ Ve	rt. Co	mp.		She	et	of			
								Elevation			Bearing						Log	aed by				
CONBRIDG	E LIMI	TED						Coordinates		N	Beaun		/Cor	nolete	d		Som	noied by				
										E	Core si	Z 🕈	/Re	covery	[	%	Dri	ller	· · · · · · · · · · · · · · · · · · ·			
DEPT	H in metres	REC	N'V			DESCR	IPTION			INTE	RSECTION	GRAP	ніс		SAMP	LES		A	SSAYS		07	z /ton
FROM	ft.)	ROD	Core								ANGLE	1:50	00	No.	From	To	Ft	<b>C</b> u%	C0%	. Zn%	Aq	Au
FROM		270	0.0%	Davila arrest	6		hlaritized f	lour Chlorito-fill	ad amus dullas	Con	tact with	A CONTRACTOR		450	1254	1264	10	1.34	0.12		<0.05	
382.50	1 383.90	376	93/	Boorg 2 30c	<u>l.gm</u>	of massive c	anded sulphi	des, po & py subequ	al.	Sul	phides =	38390										
(12)5	1259.5)	+-1		Bears a Joc	in Tayer					45°	)										T	1
		50%	0.0%	Na saina Sul	mhidee	Dominantly D	o Very simi	lar to previous sec	tion 376.12-	1				451	1264	1274	10	2.31	0.12	0.03	0.05	0.002
383.90	J <u>391.97</u>	50%	93%	282 52m Ma	pillues.	bominanciy p	e & etringer	-like bands especia	ally towards	Sul	phide	391.97	W F	452	1274	1284	10	1.88	0.10		<0.05	+
11259.5	1200)	╉╼╼┫		bottom of a	ne magne	in discrete	massive band	s but usually as st	oheroidal &	ban	ding 48°	EA D										
		┼──┤		BOLLOM OI 2	one. ry	sive no. Sti	Innomelane o	ccurs in both vein	ike form & as	Fol	liation	1										1
<u>}</u>	+	+	+	cubic giain		$\frac{551}{(p-5-10\%)}$ ble	he in no & c	onc, blebs in silic	eous gangue	= 5	50°	· //	متسرر									+
	+	+	+		-• <u>B</u> • <u>P</u> y•				<u> </u>	+		E	<b>'</b>									
	+	+		a Qtz vein	5.					1	······		BQ									+
201 0	1 400 91	70%	1007	Maccine DY	-rich sul	Inhides. Some	po rich ban	ds.														
391.9	1 409.00	1/0%	100%	Massive py			- po 1200 0 0				<u> </u>	409.80	<u></u>								1	
(1286	1344.5	);					·····			+		412.09							1		+	
					1 1 1 1		f a to a f	with occ po-rich	bands bearing	Sul	lphide	:0	2	/ 5 3	129/	120/	10	2 83	0.10	0.02	0.05	10 002
391.97	7 409.80	070%	100	Massive su	iphides:	py dominant,	L.g. LU C.g	rix to sulphides in	n places. Some	bar	nding at	416.66		454	1294	1304	10	1.33	0.084		0.05	10.004
(1286	1344.5	4		disseminate	ed py Die	de and/or vei	De Coettore	d momotite pode &	stilnnomelane	400	0m=45°				120/	1214	10	1 02	0.067	0.02	0.05	
	+	+	+	chert side	rite band	ds and/or ver	ns. Scattere	a magnetite pous a	lebs in po &	Sulpl	hide band			459	1314	1324	10	1.62	0.071	<u> </u>	0.05	10.004
	+	+-+	-+	forming ve	ins & mar	trix to py. (	p disseminat	eu In py as m.g. b	iebs in po u	J.		5.1	í,	457	1324	1334	10	1.75	0.050	0.02	0.05	0.002
	+			in coarse	blebs in	siliceous ga	ingue.			$\frac{1n}{40^{\circ}}$	<u>t 405m</u>	11	<i>:</i>	/ 58	133/	1344	10	2 16	0.058		0.05	++
	·	+		<u>393.65m:</u>		Fault gouge	the lass down	lonmont		+0		430.23	1	430	1334	1,744	10	_2.10	0.000		1 0.05	++
	+			402.03m:		Shear zone w	th clay deve	eropment.		<u> </u>							┝──┾	·····				+
																			1			+
4.09.80	430.23	467	<u>85%</u>	<u>Semi-massiv</u>	ve to mas	<u>ssive pyritic</u>	sulphides i	n green cherts or o	cherty tuffs.			4		·			┝╼╌╂╸				1	+
(1344.5)	1411.5	-		Includes Vi	iggy part	tially oxidiz	ed zone with	subergene charcoc	LE										<u> </u>			+
	<b>_</b>	┦──┦																	0.000	0.00	10.05	
409.80	412.09	87%	100%	<u>Stringe</u> r to	o <u>semi-ma</u>	assive_sulphi	<u>des in green</u>	<u>cherty</u> f.g. <u>tuffs</u> .	Sulphides are	ļ				8460	1344	1354		1.26	0.038	0.02	<0.05	10.000
(1344.5	1352)			mostly py w	with subc	ordinate po c	ccurring in	semi-massive bands	, veins à			1								<u>}</u>	+	++
		<u> </u>		stringers.	Probably	y 40% sulphic	les overall.	Minor dissem. py co	ides in the	<u> </u>												
	<u> </u>	ļ		tuff & mind	or cp ver	inlets.														<u> </u>		++
		ļ												101	105/	1000		1 1 2	0.0(2	I	<0.05	++
412.09	416.66	58%	89%	<u>Massive to</u>	semi-mas	<u>ssive</u> sulphic	es in silice	ous green cherty ho	ost-possibly					461	1354	1364	10	1.12	0.063		<b>XU.US</b>	++
(1352	1367)	<u>↓</u> ↓		tuff. Most	ly massiv	ve py with mi	nor stringer	po f.g. dissem. cj	p down to											<u> </u>	+	++
				414.83. Lot	wer secti	ion is semi-n	assive pyrit	ic sulphides with	occ. po-rich					1.62	126/	127/	10	2 / 7	0.22	0.20	<0.05	10.000
				bands in cl	herty hos	st rock.Some	narrow vuggy	sections.						402	1304	15/4	10	2.4/	0.22	0.20	1 10.05	
														102	1 2 7 /	120/	10	11 6	0.02		<0.05	<u>+</u>
416.66	430.23	35%	82%	Partially o	oxidized	& supergene	enriched_vug	gy <u>semi-massive</u> to	massive					403	13/4	1384	10	11.0	0.23		1 10.05	+
(1367	1411.5)			<u>sulphides</u> i	in cherty	y(tuff?) host	rock. Visib	le hypogene sulphie	des are mostly	7									0.01	0.10		
				py with muc	ch cp as	cg patches &	disseminati	on. Only very mino:	r pyrrhotite					464	1384	1394	10	14.2	0.21	0.10	0.05	0.002
				is observed	d in irre	egular bands	& stringers.	Vuggy zones are n	umerous, partly	/												+
				connected,	with on I	ly minor iror	n oxide coati	ngs. Some vugs are	fringed by													+
				py, others	are part	tially filled	l by a soft b	lack powdery miner	al or occ.													+
				vein-like	blue-blac	ck metallic r	nineral - uno	loubtedly chalcocit	e. Some dark					+								+
				brown meta	llic pate	ches may be n	nixtures of i	intergrown hematite	& chalcocite	•											+	+
				Chalcocite	most abu	undant from 4	17m to 427.3	5m. Minor magnetit	e in places.										L	ļ	+	+
																						++
•	•	• •	'						anna ng sanatin ni manaka			-	•		•	,	,				1	1

					Inclination	Bearing	PROPERTY		Length						но	LE NO:	11-82			Poge #9	of 12
	IOLE	RE	CORD	Coller			Location		Hor. Con	np.	/	Vert. C	0 m p		She	<u>et</u>	of				
		•••					Elevation		Bearing						Log	ged by				· · · · · · · · · · · · · · · · · · ·	
ONBRIDG	E LIMITE	ΞD					Coordinates		N Begun		/(	omolet	ed		Sor	noled by					
							-		E Core si	ze	1	Recove	ry	%	Dri	ller					
DEPTY	t the b	reading		L	DESCI	RIPTION			INTERSECTION	N GR	APH	I C	SAMP	PLES		۵	SSAYS			07	z./ton
	(in metres <b>F</b>								ANGLE	1	L:500	No.	From	To	Ft	Cu%	<u> </u>	.Zn%	РЪ%	Ag	Au
FROM			CONTINUED FI	DOM DREV	TOUS PACE													<u> </u>			
416.66	430.23		CONTINUED FF	$\frac{10-15\%}{10-15\%}$	1005 FAGE	tion with so	cattered natel	hes up to $35\%$ e.g.				r									
			Up averages	$\frac{510-10}{7}$	oction from	$19 \text{ Im to } 42^{\circ}$	3.2m (1375' t)	o 1388.5') runs clos	e			46	5 1394	1404	10	7,56	0.17	₊	+	<0.05	_
			41/-41/.00	I. The S	ection filom	no is much 1	less vuggy &	oxidized (below		7											_
			to 20% cp.	Lower p (02 f+))	but has a 1	for pod of se	emi-massive ci	o at end of the zone		-							<u> </u>	<b>_</b>			
			427.55m (14	+02 11//	but has a r.	Jem pou or po											ļ				-
		6 11 0 01	No. Sul	labidoo	Po dominate	overall wit	th occ. py-ri	ch zones. Cherty hos	st												_
430.23	448.516	6%1007	Massive Su	iphides:	- 1 chloritic	sheared part	tings (remnan	t volcanics?).				i						+			
	14/1.5		FOCK WILLI	occasion		والمتلود بالخالية بالكافر للمتعاد						46	6 1404	1414	10	1.64	0.12		+	0.05	0.002
1 1 2 0 0 0		6 %1 009	Magaina su	Inhide i	n cherty gr	een to grav l	host rock. Su	lphides dominantly		43023		46	7 1414	1424	10	1.80	0.064			0.05	
430.23	448.510	0/11/00/	no Overal	1 sulphi	de compositi	on is 55-60%	ро, ру 25%,	cp 12-15%. Occ py-		1.500	17	46	8 1424	1434	10	2.72	0.059		+	0.09	0.002
	14/1.5		rich seams	& hands	Po forms d	issem. blebs	in py bands	& vice-versa. Cp	Sulphide		"	46	9 1434	1444	10	2.32	0.067			0.09	
			diccem thr	oughout	in Otz-chal	cedony veins	, in & around	siliceous gangue &	bands at		1.1.1	47	0 1444	1454	10	2.55	0.090	+	+	0.09	0.002
			as discret	e bands	or stringers	. Magnetite	occurs as pat	chy disseminations &	$x 439m = 45^{\circ}$			_47	1 1454	1464	10	3.05	0.080		+	0.09	0.070
			occ. veins	. Massiv	ve py bands o	ccur from 43	4.95-437.54 &	at 439.52m. Minor			1	47	2 1464	1474	10	3.16	0.069		+	0.09	0.020
			stilpnomel	ane is c	observed in p	arts. Dark g	reen chloriti	c volcanics form						L			<u></u>		-		
		-	thin parti	ngs (15-	-20cm width)	at 438m & at	439.60m.			AA954	,						4				
										41.01				Ļ							
448.51	495,76 8	302100	Massive to	semi-ma	ssive pyriti	c sulphides	in cherty tuf	fs or siliceous vol-	-		مر			<b></b>				+	+		
(1471 5	1626.5)		canics. Mi	nor po-r	ich bands. T	races of sph	alerite at de	pth.				30		ļ			+				
										457.66				ļ					+	0.05	
448.51	457.66 8	307100	Massive py	ritic su	lphide with	thin bands o	of po. Cp in s	tringers, qtz veins	Sulphide	458.72	17	47	3 1474	1484	10	1.87	0.071			0.05	0 002
(1471.5	1501.5)		& f.g. dis	seminati	ions in py. S	ome well ban	ded sections.	Portions of the	bands at			47	4 1484	1494	10	2.84	0.000	+	+	0.15	
			pyritic ba	nds are	c.g. subhedr	al aggregate	es due to recr	ystallization? Over-	- 451.5m=45°a	t ·	1 Jul	47	5 1494	1504	10	2.16	0.051	+	+	0.09	
		_	all py 75%	, po 15%	%, cp 5-10%.				$456m = 38^{\circ}$	F.P	1.5			<b> </b>							
											in all			<b> </b>				+	+		
547.66	458.72	83%100	% Dark green	chlorit	tized volcani	<u>cs</u> (flows?).	Intensely ve	ined by coarsely	Contact at		1100						+		+		
(1501.5	1505)		crystallin	ie qtz-ca	alcite veins	with calcite	e forming marg	ins of veins & show;	- 457.66m=48											1	++
			ing crysta	al growth	h perpendicul	ar to vein w	valls.Upper co	ontact is very													++
			sheared, c	hloritio	с.						11		( 150)	1.5.1		1.50	0.055		2	0.00	10.007
		1								-	5 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	47	6 1504	+ 1514		1.56	0.055	10.0		0.09	10.002
458.72	488.147	9% 100	% Massive py	ritic su	ulphides with	n some semi-n	massive section	ons. Occ. narrow	$Contact=40^{\circ}$	488.14		47	/ 151/	1524	<u>+ 10</u>	2 75	0.0/8	0.0	1	0.05	0.007
(1505	1601.5)		partings c	of chlor:	itic sheared	volcanics. C	Contact with a	above volcanics con-	Sulphide	-		47	0 152	1 1 5 /	10	1 / 2	0.007	0.0		0.05	+
			sists of c	coarser	grained cubic	py (to 2mm)	) grading down	wards into finer	banding at	4		4/	7 1034	1 1 344	10	1.45	0.040	0.0		0.03	
	<b> </b>	<del> </del>	grained py	y. Po ri	ch bands are	common occur	rring irregula	arly within the sec-	461.5m=50°	-		48	0 1544	1554	4 10	1.84	0.050		3	0.13	10.039
			tion. Cp a	also occ	urs in discre	ete bands in	places but m	ore often occurs as	$e^{464m} = 50^{\circ}$	-		48	1 1554	1 1 2 2 4	10	2.55	0.000	0.0	20.00	0.00	0.015
			f.g. disse	eminatio	ns in pyrite	or as c.g. t	blebs in sili	ceous veins, in po	$10468m = 40^{\circ}$	4		48	2 1564	158	<u>+ 10</u>	2 46	0.057	0.0	6	0.09	0.010
			bands or a	around s	iliceous gang	gue fragments	s. Pyrite ban	ds occ. display	(2473m = 50)	-		40		1.504		2.40	0.004		1	0.15	10.010
			alternatin	ng f.g	m.g. banding	e.g. 466.35-	-468.93m. Sil	iceous veining is	@484m - 47°	-		48	4 1584	1594	+ 10	2.62	0.064	0.1	± <u> </u>	0.15	10.020
	1	1	common in	the sul	phides, often	n with sider:	ite ± magneti	te or stilpnomelane							<u> </u>			<u> </u>			+
			469m:		15-20cm zon	e of sheared	, chloritic r	ock, poss original	<u></u>	4											
					volcanics.	Shear zone?				4							+				+
			Semi-mass:	ive sect	ions are com	posed primar:	ily of banded	massive pyrite ±cp		4					+		+				+
	1	1						t agent a superior and the superior as well-the	1					<b>_</b>	<b></b>	ļ	+			<del> </del>	+
		•	•														T I	•	-		

These lass			11					Location		Hor. Cor	mp.	1	/ert. Co	mp.		Sheel	1	of			
			_					Elevation		Bearing						1000	hd hy				
ONBRID	RUGE LIMITED							Coordinates		N Bagin		IC				60446					
								-		E Core si	7.	/6	PCOVER		•/	Deille	ied by				
DEP	TH in metre	S RE	cov'y			DESC	RIPTION			INTERSECTION			d	5 4 4 4 0	1 5 6	<u> </u>		ACCAVE			
FROM	(ft.) TO	RQI	Core									1:500		JAMP		-	Cu%		1 7n%	. Ph % .	,
458.7	2 488 1	4	1-1	CONTINUED FR	OM DDEVT	OUS DACE				AIGLE		1.500		From						10%	
		+	++	lesser po b	and wit	h interveni	a lavara of	amoon about (b.f.	2 1		-		}	+							
	-	-	+	Sulphides of	anus with	50% of th	ing tayers of	green cherty (turi	C) FOCK.		-			+							
		+	┼╌┼	470 76- 5 / 6		> 50% OI LIN	ese zone, e.	<u>g. 4/1-3/ - 4/3.35m</u>	, 476.55 -		-			+					+		
	+		+-+	Sphalarita	$\frac{1}{10}$	100.14m.	atod atodiao	- 1:h- 11-h-			-										-
		+	╋	and/or cido	ritio vo	veu as Isol	aled stringe	r-like blebs associ	ated with qtz		-		485	1594	<u>1604</u>	10	1.06	0.044	0.01		0.1
	+	+	╉──┼	blobe Spha	lorito n	atod at 472	35 spharerit	e often appears to	rim py & cp		-								-		
	+	+	╉╼╍╂	Diebs. Splia		oled at 475	.35 (1555)	α 402.03-402.00m (	1565.5-1584*)		4							+	+		
488 1	/ // // 7'	2 81	1004	Purito stri	ncer zon	o in dark a	roop giligi	fied w f a short	tuff(2) Minor		488.14			<b>  </b>					+		
(1601 =	1610)	101	100%	aidonito (	magnatit	o voisis	Dunite har 1	f at windows -1	Luit. Minor		490.73	ANT AND A		┝──┤					+		
1001.5	1010)	+	+ +	siderite &	magnet1t	Appress (0%)	ryrice bands	α stringers abound	T minor dis-		-			┝──┤				+	+		
	+		+	totol)	y cubes.	Approx. 40%	py overall.	Minor cp in pyriti	c veins(= 5%		495.76			┝──┤					+		
	+	+	+	total). Ira	ces stil	phomerane.						1		└──┤					4		
/00 7	2 /05 7	0.00		Chains							-		488	1604	1614 1	10	0.72	0.028	0.02		0.0
490./2		02	1008	Stringer, s	em1-mass	ive to mass	ive pyritic	<u>sulphides in</u> dark g	reen to black		مرًا		489	1614	1624	10	0.71	0.020	0.01		0.0
1610	1626.5		┼──┼	cherty host	rock in	part silic	ified argill	ite. Numerous magne	tite bands, pod		504.19	BO									
	+	+	<u>∔</u> }-	& veinlets.	Subordi	nate Qtz-si	derite veins	. Traces stilpnomel	ane. Stringer			1 39	<b></b>			_					
	+	+	┼──┼	a dissem. i	.g. cp 1	n py & arou	na siliceous	gangue. Stringer z	one of py +		┥╿	19 19 19 19 19 19 19 19 19 19 19 19 19 1									
	+	+	+	minor po oco	curs in	silicified	black argill	ite from 493.93-494	.69m(1620.5 -		513.59	de la contra de la	L			_					
	+	+	┼─┼	1023 ).																	
495 76	533 / (	649	0.7%	Ctringer (				1.1.1.											↓		
(1626 5	1750)	104/	97%	Stringer a	semi-mas	sive to mas	sive py-rich	sulphides in inter	bedded sequence										$ \downarrow $		
1020.5	1750)	+	┼──┼	of argilite	es siits	tones, chio	ritic Volcan	ics & cherty tuffs.	Sulphides pri									· .	<b> </b>		
		1		mailly in c	nerty no	SL IOCKS.													+ - +		
405 76	50/ 1/	729	100%	Diocominata	1 5 atui		les in short					المحتجر بمرجع						<u> </u>			
(1626 5	1654)	1/5%	100%	obloritio w		Rodo repo	des in cherr	v argillites silfst	ones & minor		51240		490	1624	634 1	0 (	0.75	0.012	0.01		0.1
(102015	10347	+		Euroleanice	orcanics	60% of any		Lo Sem Enick. Silie	ified sediments	Bedding @	355.102		491	1034	044 1		J.20	0.008	0.01		0.0
	<u>†</u>			+ stilpnomo	lano Pu	6 DO 00000	e, py 20%, p	0 15%, 2-3%Cp, 2-3%	Qtz-calcite	49/m=53°		1	492	1644	<u>654 1</u>	0 (	0.68	0.012	0.06		0.1
	<u> </u>	+		formable to	hadding	a po occur	both as dis	sem. blebs & as mas	sive bands con-	501m=35°		-	·					÷			
		<u>+</u>			/06 02-	407 65- 5 C	Ling Strin	gers. Unioritized g	reen volcanics									<b>_</b>	<u> </u>		
	<u> </u>	<b>+</b>		occur irom 4	- 70.020	497.00m & fi	LOII 499.5/M	to SUU./9m. Shear z	one at 503.38m.			-							┝╍╌┥		
50/ 1/	513 50	60%	100%	Somi-mossi-	o oulet.	log (mast1	nw)						1/02	165/ 1	661-	_		0.00	<u>                                     </u>		
(1654	1685)	100/	100%	lites min-		Tes (mostly	bort the	Much stiles in	cnerty argil-	De 111			493	1054 1	004 1			0.020	0.18		0.0
11034				codony main	e f e +	ones, some (	The and the let	to in patche immedian	lar mainlat-	bedding=55			494	1664 1	674 1		.98	0.020	0.71		0.0
		<u>├</u>		ceuony veing	5. 1.g to	-512 co /	Lype sphaler	Spondie of 11.1					495	10/4 1	084 1		.32	0.032	1.17	(	0.0
		++		cherty argi	$\frac{11}{11}$	<u>1-313.39m (</u>	$1003 - 1005^{-}$	sporadic cp blebs.	ry JU/2,												
				netite 5-109	y		-P, sphateri	LE 2-J%. QLZ, STIIP	iomerane, mag-												
				neerce 5-10/	/0 •								/8496	1684 1	694 1		.70	0.028	0.33	(	).15
513 50	533 40	62%	0.5 %	Magging									497 1	694 1	704 11		.03	0.032	0.27		).15
(1685	1750)	02%	3.5%	massive to s	semi-mass	sive pyritic	sulphides v	vith some minor int	erlayered				498 1	704 1	/14 10	0 0	.94	0.020	0.36		).15
1005	1,20)			10-12%	to black	argillites	Approximat	cely 75% py, 2-5% c	. 10% po &				499 1	/14 1	/ 24 10		.29	0.020	0.48		).23
				Minor 1-1	ie in ove	erall compos	sition. Numer	ous cross cutting	uartz veins				500 1	724 1	734 10	$\frac{2}{2}$	.73	0.012	0.08	C	).19
		$\vdash$		minor sphale	erice als	so occurs fr	om 1-4% as	rregular stringer-	Like blebs				201 1	/ 34 1	/44 1(		.02	0.008	0.03	C	).19
				associated w	with qtz	and/or calc	ite veins e	g. at 514.65m(1688	5'), 515.57-				502 1	744 1	749	$5 \mid 1$	.02	0.008	0.04		).19
	1					I) F-A	(1 - 0 0 - )	/			1										

	C	r				Inclination	Bearing	PROPERTY		Length				
	.C				Collar			Location		Hor. Com	<u>م</u> ا	/	Vert. Co	omp.
								Elevation		Bearing				
NBRIDGE LIN	ill	ΕD						Coordinates	N	Begun		/Ç	omplete	td
						E			<u> </u>	Core si	z e	<u> </u>	lecover	Y
DEPTH in metri FROM (ft.) TO	es <b>R</b> R	ECO	N'Y :ore			DESCF	RIPTION		INT	ERSECTION ANGLE	GR /	500	C No.	SAMF From
513,59 533,4	.0			CONTINUED	FROM PREV	TOUS PAGE		•						T
	Ť	-			Pvrrh	otite occurs	s in distinct	t veins & bands scattered through	h		1			T
				the section		v 1cm-3cm wi	de. Cp occu	rs as previous both in f.g. inte	r-		1			
	Ť		-+	growths wit	th py. co	arser string	er blebs in	po & in Qtz veins & siliceous			1			
	-1-			patches. Ma	ignetite	is locally a	bundant in j	pods & patchy stringers up to 20	%.		1			
	$\top$			e.g. 525.48	8-526.24m	(1724-1726.	5') & 526.69	9-530.96m (1728 to 1742'). Some	ру		1			
		+-		occurs diss	seminated	in massive	magnetite (a	also cp & Qtz siderite veins &			1			
	+			bands usual	lly accom	pany the mag	metite conce	entrations.		······································	1 .			
	+		-+	526.69-52	27.61m: (	1728-1731'):	Po increase	es to almost 50% & c.g. cp is			1			
	-				a	bundant (to	10%) in str:	inger-like veins. Magnetite 10-1	5%		]			
	1			Below 530	).96m (17	42') becomes	semi-massiv	ve & pyrrhotite rich with sulphi	des		]			
			-†		f	orming semi-	massive band	ls & cross cutting stringers in .	a		1			
	1				s	ilicified bl	ack cherty l	nost rock - probably siltstone o	r		1	1		
	-			· · · · · · · · · · · · · · · · · · ·	a	rgillite ori	ginally. Sor	ne dark green, cherty tuff? at			<b>1</b> i			
	+				e	nd of sectio	on.	<u> </u>	1		1			
	+	_												
533,40 616,0	04	5%9	8%	Interbedded	i black c	alcareous ar	gillites, ca	alcareous siltstones & limestone	s					
1750 2021)				Occ thin be	edded vol	canics (tuff	s, flows).	Stringer sulphides up to 30%.	Τ		555.40			
				Mode: 15-20	)%	·						Sec.		
								······································			F			
533.40 583.3	9 5	51%9	8%	Black v.f.	g. <u>calcar</u>	eous argilli	te interbed	ded with thin grey <u>calcareous</u>	Be	dding at				
750 1914)	T			siltstones	& very o	cc thin bedd	led <u>volcanic</u>	s. Sulphides occur as stringers,	53	34m=55°				
				veins blebb	by patche	s & occ conf	ormable lay	ers & trains of disseminated	53	35.5m=10°				
	$\top$	-		blebs. Po a	& py occu	r subequally	with very	minor cp. Sulphides are erratic	53	36.5m=15°		BQ		
				in distrib	ution wit	h some narro	ow but massi	ve lenses & some sections of onl	y Ba	anding of				
			-	sparsely d	issem ble	bs. Sulphide	es form perh	aps 25-30% of the section overal	1. po	o+calcite				
	 i		1	Some section	ons displ	ay small sca	ale folding	in sediments with boudinage of	a	t 540m =				
				siltstone	layers in	nto clast-li	ke elongate	lenses. Occ Calcite-filled ten-	4:	3°	Ĩ			
				sion gashe	s.				T				[	
		-		533.40-5	34.0m: E	Boudinaged s:	iltstone, wa	vy & stretched bedding. Conform-	Be	edding at	e.	Tops		
1					e	able py bands	s.		54	6.8m=20°		Ĩ		
				534.62-5	35.84m: H	Folded po bar	nds // beddi	ng.	55	3.2m=40°				
	+			538.89m:	N	inor fault,	py-lined.		56	0.0m=60°				
			$\neg \uparrow$	545.59-5	45.89m: '	"Clasts" of o	calc. siltst	one 1mm to 1cm diameter.	57	0.7m=50°				
	-+-	<del> </del>		546.81m:	ŀ	Massive py ve	ein/layer //	bedding.	57	3.63m=50°				
	1			549.86-5	50.77m: N	lassive nv h	ands conform	able to bedding.Pv in tension on	shee			P		
		-+-		553.06-5	53.36m: 4	As above.	<u></u>				583.39			
		-+-	-+-	561 14-5	61.31m: 1	Lt green wel	ded(?) tuff	subrounded gtz clasts to 30%	1					
		-+-	-+-	564 49-5	66 01m• 0	Calc silteto	ne houding +	o 2mm in length.	1			ł	<u> </u>	
	+-	-+-	-+-	566 01-5	66 16m · 1	Porphyritic :	me oreen and	esitic flow with atz phenocrysts	s <b>.</b>					
	+	-+-		571 20-5	71 25m 1	[t] aroon for	wolded tuff	with dtz clasts	1			l		
	+			571 50	<u>ו :שככיוי</u> ז	ur, Riefi Ig Pu hand with	load struct	with giz clasts.	,		l			
	+		-+-	<u></u>		of hole	TUAU SLIUCI	ures indicating tops towards to	1					
	+		-+-			<u></u>	<u></u>		1					
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	Sh	eet		of							,
	Lo	bapp	by								,
	Sa	mpie	d by								
%	Dr	iller									
ES			4	ASSA	YS			COM	POSI	TES	
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# DRILL

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				0000		Inclination	Bearing	PROPERTY			Length						HOI	EN	<b>2</b> : 11-	·82			Poge	<b>#</b> 12 of 1
	HUL	ヒト	(E	CURD	Coller			Location	,		Hor. Com	<b>p</b> .		Vert. C	omp.		She	<u>et</u>		of				
									Bearing				•		Log		¥							
FALCONBRIDO	SE LIM	ITED			Coordinates						Beaun		/C	omolet	ed		Som	pled	by					
										ε	Core siz	z <b>e</b>	/ F	Recove	ry	%	Dri	ler						
DEPT	"H in metres	RECO	in			DESCE	RIPTION			INTER	RSECTION	GR	APHI	С	SAM	PLES			ASS	SAYS			COMP	OSITES
FROM	(ft) TO	BOD .C	ore			0200					ANGLE	1	:500	No.	From	To	Ft	1	1	1	l.	ł	1 1	1 1
FROM							· · · · · · · · · · · · · · · · · · ·		······································					-1		1							1-1	
533.4	0 283.3	9		E72 (2m)	RUM PRE	Probanda dana		na in anaillita		Pode	ling of	1			+	+	+						+}	
			+	5/3.03m:		Py dands depr	essing beddi	ng in argittite.	• • •	Deac	$\frac{1100}{6} at$			}	+	+	+						+	
		+		575.0-580	).03m: ]	Boudinaged 11	mestone beds	present with calc.	siltstone in	576-	.om=50			}	+	+	┼╌┾						+	
	+		<u> </u>		é	argillite seq	uence. Cross	cutting po veins +	dissem py	5701	<u>u - 55</u>					+	┼─┼						╂───┼	
·	+	╉╼╌╂				blebs // bedo	ling .	asft addiment load	atructuras	<u> </u>	·····			}		+	┼╌╌┼						╉╼╌┼	
	┥	+	-+-	<u>5/8m:</u>		Truncation of	beas que to	dimention Comp con	structures	<u> </u>		1		<u> </u>	+	+	+ +						╉╼╼╼╊	
		╶┼──┼╸				indicates top	os in up-noie	direction.some conv	voluce bedding	<u>ه.</u>			(F)	}		+	┼╌╌┾						╉──┥	
	+							T 1 . 3 1. 3	this last last one	1		583.39				+	┝╼╌╄╴						++	
583.3	<u>9 598.3</u>	<u>280%   9</u>	5%	Transitiona	al secti	on from above	e to followir	g zone. Interbedded	thinly layere	<u>ea</u>		, u		}		+	╉──┾				-+		++	
(1914	11963)	+-+	<del> </del> _	mixture of	grey <u>ca</u>	incareous silt	<u>Community</u> as pre	vious with some grey	y <u>rimescones</u>				G		-+	+	╪╾╌┼						+	
	<del> </del>	+		in black <u>ca</u>	ilcareou	is argillite.	convolute be	us, warping & Doudin	nageu Deus In						+	+	┟──┼─					+	╉──┼	
		+ +		places. Int	tense po	and/or py ve	eining: veins	often folded or she	eared. Abun-								┼──┼						+	
	<u> </u>	+		dant calcit	te veins	s, minor shear	s & slick 'r	' sided fracture pla	anes.					}	+	+	┟╌┠						+	
	-	+ +										598.32	B	₂ <b>├</b> ──			<u>├</u>						╉╼╼╞	
598.3	2 616.0	041% 9	<u>9%</u>	Vf.g calcar	<u>ceous to</u>	non-calcared	ous black are	illite interbedded	with minor				Tor.	·		+	┼─┼					- <del> </del>	╋┈╍╉	
(1963	2021)	<u> </u>		grey f.g. g	calcareo	ous siltstone	& limestone.	Limestone increase.	s in abundance	e			TOPS		+	<b> </b>	+ +						╉──╁	
ļ	<u> </u>			relative to	o siltst	one with dept	h. Several s	ections of boudinage	ed conglomer-	Bed	ding at						+						╋╼╼╍╋	
				atic silts	tone/1st	: in argillite	e. Minor inte	rcalated volcanic.	Py & po vein-	599ı	$m=53^{\circ}$		تركي										┝──┼	
				ing ± confo	ormable	layers are pi	esent but ge	nerally less abundan	nt & form	599	.8m=60°		- <sup>ع</sup> ما و الم		+	<b> </b>	- +						╋┯╋	
				<10% of roo	k. Bed	lding thicknes	ss of sedimer	ts range from 4mm to	o lcm. Schis-	601	.68m=75°	مبر . م				<u> </u>	╞──┼						┝──┟	
				tosity in a	argillit	es parallels	bedding ofte	n defined by v.f.g.	elongate po/			616.00				ļ	┝──┼-						╇╌╌┼╴	
				py lenticul	lar bleb	S						E.O.H			<u> </u>	ļ							ļ	
				600.15-60	00.46m:	Calcareous si	ltstone boud	ins, rounded & stre	tched with														<u> </u>	
		T				feathery end	s. 2mm to 2cm	in length.														_		
				605.5m:		Graded beddin	ng indicates	tops in up-hole dir	ection.							Į								
	·			605.64-60	06.25m:	"Conglomerat:	ic" breccia d	of clast-like siltst	ones & lime-															
						stones in bla	ack argillit	e. Likely due to def	ormation &					ļ		ļ	┝┞-							
						boudinage. C	onglomerates	occur in bed-like z	ones separate	d		i		L								_		
						by argillite	. Po & py oc	cur in matrix to cla	sts.														Ļ	
			T	606.86m:		Qtz vein bear	ring fragmen	ts of green chloriti	zed volcanic.			:												
				607.77m:	· - ·	Graded py in	siltstone in	dicating tops in up	-hole direc-			ł												
	1		-			tion.												<u> </u>						
	1	1 1		608.69-6	12.34m:	Boudinaged 1	imestone cla	sts & pinch & swell	limestone	Bedd	ing at													
· · · · · · · · · · · · · · · · · · ·	1	+				beds in blac	k argillite.	Limestone "clasts"	to lcm -very	610m	1=75°													
	1	++-				abundant - p	roduces appe	arance of framework-	supported	614m	n=75°													
	1				·····	cglm.	·····																	
	1			612.34-6	12.65m:	Strong fract	ure zone(fau	lt?) in graphitic ar	gillite.			ł												
	1	+ +		613.56m:		Semi-massive	po band & v	eins with 3% stringe	er cp.			1		·										
	†	++-	-+-	613.71-6	14.48m:	Boudinaged 1	imestone "cl	asts"+Otz-siderite v	veins with pd						1	[			1			T		
h	†		+			& CD-																		
<u> </u>	†	++-		615.09-6	16.00m:	Intenselv ve	ined by Otz-	calcite-producing br	recciated						1			-				1		
	†	╉╍╌╂╌	+			appearance	Strongly fra	stured with channel	+ 615 00-						1						1	1		
	1	++-	-+-			615 40m s 61	5 95 616 00	cureu with snears a							1							1		
	t	╉╌╄	+-	 F	0 <sup>1</sup>	616 00m (2	021 f+)	<u>.</u>							1							1		
ſ	1	1 1	1	<u> </u>		<u> </u>	<u>vai il/</u>					1	I.	÷		<b>+</b>	┝ <b>───</b>					1	r	

	Coller				/ \/+	Co	1	Shaat		of			
HULE RECORD	Collor	Location	Hor. Com	<b>)</b>	/ vert.	Lomp.	+	Sneer		01	· · ·		
		Elevation	Bearing				+		Dy				
GE LIMITED		Coordinates	N Begun		/Comple	ted		Sample	d by				
			E Core siz	e	/Recov	ery	%	Driller					
FOOTAGE RECOVIN	DESC	RIPTION	INTERSECTION	GRAPI	ніс	SAM	PLES		ASS	AYS		CO	MPOSI7
From To Bun Core	0200		ANGLE		N	o. From	To	Ft	1		++		
				1									
							11						-
							+				1		
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							╉───┼	+	++-		++-		
PF	JARI INSTRUMENT	BOREHOLE SURVEY RESULTS					+ - +		++-		++		
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DF	PTH	INCLINATION					$ \downarrow                                   $				+		_
				:			<b>_</b>				+		
Cc	llar (0)	-54 °						_			++		
	5m (15f+)	-52°									+		
	5m (100f+)												
30.	$\frac{2\pi}{2\pi} (10010)$	-46°		-									
		400											
91.	<u>im (300ft)</u>				-								
	)m (4001E)	-41					1				T		
182.	<u>)m (600ft)</u>	-420					<del> </del> +		+		1		1
	3m (800ft)	-40°					+-+		++-		++		
304.	3m (1000ft)	-40°			-	_	++		+		++		
335.	3m (1100ft)	-42°				-+	╂╌╌┼				++		
365.	3 (1200ft)	-40°				-+	++				++		
423.	7m (1390ft)	-39°					╉┼				+		
493.	8m (1620ft)	-37°					+ - +				++		
554.	7m (1820ft)	-36°			-		+ - +				+		-+
616.	Om (2021ft)	-31°									++		
							44				++		
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han ikan 🕴	IULI								lom	<u>p.</u>	/	Vert. C	) mp.		She	291	of			
	DEPTH in metres RECOV'Y DESCRIPTION						Elevation	Bearin	g						Log	ged by				
NBRIDGI							Coordinates	N Begun			/C	omplet	d		Sor	noled by				_
								E Core	Siz	e	/	Recove	Y	•/。	Dri	ller				
DEPTH in								INTERSECT	ION	GR	APHI	C	SAM	PLES		4	SSAYS		oz	/tor
FROM	.) 10	RQDICor						ANGLE			1:500	No.	From	To	Ft	Cu%	<u>Co%</u>	Zn%	Ag	
37.80	54.86	5	CONTINUED FROM PI	REVIOUS PAGE			·													
	interstitial clay minerals & minor seams of clay minerals. Some of zor remnant massive sulphide in weathering zone adjacent to fault. A large							у		:										
								-		•										
			portion is proba	ably re-cemen	ted seco	ndary pyr	ite.													
													<u> </u>	<b> </b>			<b>_</b>			
54.86	70.41	42%82%	Massive sulphide	es, mostly py	rite. Son	me second	ary minerals in upper portion	•				. 	<u> </u>	ļ						$\bot$
(180	231)					والمتجافية والمحوية التلف				1				┟						
					. <u></u> ,								<u> </u>	ļ						
54.86	64.01	20777	Massive pyrite,	appears to b	e slight	ly weathe	red form of original massive			54.86		51	1 178	188	10	6.68	0.068	0.85	1.65	0
(180	210)		sulphides. Still	l friable but	more in	durated t	han previous. Strongly fractu	red			, - , - , - , - , - , - , - , - , - , -	51	2 188	198	10	3.95	0.14	0.07	0.13	10
	occasionally brecciated with turquoise to blue chalcanthite infilling ma										51	3 198	207	9	0.49	0.22	<0.01	0.19		
			fractures. Some	rusty coatin	gs on fra	actures &	cherty-limonitic bands in					Ì								_
	·	<b></b>	places. Chalcant	thite infilli	ngs espec	cially pr	evalent from 56.69-61.26m			64.01	3 1			<b> </b>						4
			(186-201ft).										<u> </u>	┣					·	+
				. <u> </u>						7041	1.1	514	207	217	10	2.45	0.11	0.05	0.09	10
64.01	70.41	747,90%	Massive pyrite,	minor semi-m	assive le	engths de	veloped in dark green cherty				N	3 51	217	227	10	4.44	0.13	0.10	0.05	10
(210	231)		host-rock. Core	is well indu	rated, c	ompetent,	relatively unweathered. Pyrit	e				510	5 227	231	4	2,18	0.098	0.04	0.05	-10
			is f.g. with bra	assy tinge du	e to f.g.	. interst	itial cp. Some cp stringers &				·	1	<u> </u>	ļ			<u> </u>			+
			c.g. blebs. Up t	to 15% cp. Oc	c blue s	pecks & t	arnish noted - possibly chal-		-		1-		<u> </u>	ļ	$\left  \right $				· · · · · ·	+
			canthite (traces	s only). Po i	s sparse	ly dissem	inated in places & also occur	s		-				<b> </b>	$\left  \right $		<u> </u>		······	+
			as minor bands.	Some po occu	rs with (	qtz & cal	cite in veins. Some c.g. py	·			12			<b> </b>			· · · · · · · · · · · · · · · · · · ·			+
			occurs in irregu	ular bands &	patches.	Rusty fi	lms are observed on fracture						<b>_</b>	<b> </b>			<u> </u>			+
			planes.			<del> </del>		<u>_</u>		en 17.4										+
		<b></b>	68.88m: 10cm ba	and of massiv	e po with	h cp vein	S.			1			<u> </u>	<b> </b>						+
	<del></del>		Below 69.5m: (22	28ft) Py occu	rs up to	45% as s	tringers & semi-massive pods				ł	ļ	ļ	<b> </b>					•	╇
			in a da	ark green aph	anitic cl	herty hos	t rock (silicified tuff?)			İ										+
		İ											+	<u> </u>	┦──┦				<u> </u>	+
70.41	91.74	817,997	Massive sulphide	es, dominantly	y pyrrhot	tite (po)	with cp stringers & dissemin	-					+	┼───	$\left  \right $			i		+
(231	301)		ated blebs. Mind	or py.																+
		ļ												1 2/1	10	0 / 0	0.15		<0.05	+
70.41	91.74	81%99%	<u>Massive pyrrhoti</u>	itic sulphide	s with mu	ucn cp in	bands stringers $\alpha$ I.g. also	Cohistori				518	241	251	10	3.49	0.092	0.05	0.15	6
(231	301)	┝──┼──	inations (up to	20% in place	s). Uvera	all po av	erages 60% cp 10-12% py 8-13%	Schistosi				E 10	251	261	10	2 01	0.11	0.14	0.00	+
			& gangue 15-20%.	. Gangue 15 m	ostly a	dark gree	h cherty rock with Qtz, calc					520	261	271	10	2.44	0.13	0.01	<0.05	₩
			sideritic veins	Chalcopyrite	00 82.5m	rationa	s tend to be more banded (thi	n Pondina o				521	271	281	10	3.62	0.13	0.02	<0.05	+
		├	2/0 5f+) 70 /0	(257 EEL)	70 04 00				-			522	281	291	10	5.04	0.12	0.02	<0.05	40
		<b>├</b> ── <b>├</b> ──	2+7.511, 70.491	(257.517),	1 50-01	7/m (202	-2031LJ, 90.0/m(293.3IL)	$0.1 - 2.5^{\circ}$				522	201	301		3 36	0.12	0.02	<0 05	1
+			97-(296 EE.)	- <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u> - <u>2</u>	1.39-91.	/4m (300.	J-JUIL).	$y_{III} = 35^{\circ}$				-123	1 <u>-271</u>	100			V.14			ť
			0/m(200.JIE)	. Greyish soa	py miner	ai in icm	wide vein pyrophylilite or ta	<u>iic:</u> )		-		<u> </u>	+		1		1			$\dagger$
91 7/	142 04	779 079	Massivo to comi	magging	<b>i</b> o1-1-	ida, mi	or sections with handed po					524	301	311	10	3.46	0.11	0.03	0.09	6
(301	466)	1/0 71/0	Host rocks are o	herty volcani	cs. Magn	lides. Will	scattered voine & pode					525	311	321	10	2.80	0.09	0.04	0.05	0
	,,			ucrey vorcalli	cs. nagii	LECTLE III	Scalleren verns & pous,						†	<b>I</b>						T
				<u></u>									1	<b></b>						T
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			DC			111011110		Dearring					-	/ \ /		-		Sho	a t	of		
				LURD	Collor				Loc	ation		Hor. Lom	P	/v		imp.		Long	ad by			
<b>0</b> 1100000		<b>.</b>							EI	evation		Bearing			······			LUUU				
ONBRIDG	E LIMI	JEL	)						<u> </u>	ordinates	!	Begun		/00	molet e	<u>d</u>	•/.		Died Dy			
												Lore SIZ	e		ecover	<u>y</u>		T	<u></u>	SEAVE		07
DEPTH in	metres	REC	OV'Y			۵	DESCR	IPTION				INTERSECTION	GR	<b>APH</b> I 500		SAM	PLES	1	Cu%		<b>7</b> n%	ι Δα
FROM	TO	RQD	Core									ANGLE			NO.	From	10		1 0 4 / 0	0.10		10.05
91.74	142.04	779	97%	Massive pyr	itic sul	lphides	in par	ts semi-mas	issive	, in green cherty vol	canic?		91.74		526	321	331	10	1.84	0.13	0.03	
(301	466)			Cut by nume	rous qtz	z-sideri	te vei	ns through	out.	Irregular bands & pat	chy con-			1.	521	331	541	10	1.70	0.15	0.04	0.03
				centrations	of magn	netite.	Minor	po in bands	ls, ve	ins & disseminations	s. Cp as				528	341	351	10	2.47		0.12	0.09
				f.g. inters	stitial o	dissemir	nations	in pyrite	e & i	n streaky blebs,strin	ngers &				525	1351	501	10	1.05	0.10	0.00	0.05
		1		veins. Some	e stilpno	omelane	in fra	ctures & ve	vein-1	ike stringers. Overa	11 60% ру			1	530	361	$\frac{371}{201}$		0.67	+ 0.10	0.04	0.05
				5-10% cp, 1	0-15% pc	o, 15% c	cherty	host rock,	, 5% q	tz-siderite + calcite	e, magne-				531	3/1	381	10	1.49	0.086	0.05	0.09
				tite stilpn	omelane	. Traces	s sphal	erite.						1.71	552	- 501	1,00		1.00	0.050	0.02	0.13
				102.41:	magneti	te pod.									533	391	402		0.82	0.063	0.04	0.13
		1		102.41-1	03.48m:	cp stri	ingers	abundant +	⊦ stil	pnomelane, minor po	veins.				554	402	407		0.09	0.077	0.02	0.09
		1		105.92-1	13.39m:	(347.5-3	372ft)	Semi-massiv	ive py	, much magnetite as	irregular	Sulphide		BC	535	407	417		0.90		0.32	0.13
		1				pods &	veins.	Dissem py	y in m	agnetite, Qtz with c	p in	banding at:	-	ź	536	41/	421	10	0.//	0.082	1./0	0.13
		•				magnet	ite.					107m = 55°		110	537	427	437	10	1.00	0.14	0.58	0.13
				111.25-1	112.78m:	(365-3	70ft) N	Numerous qt	tz-sid	lerite veins.		@118.88m=38°		11	538	437	447	10	1.29	0.10	0.53	0.09
		1		120.40-1	121.92m:	(395-40	Oft) Se	emi-massive	e py l	ands in grey cherty	host rock	.@129.5m=16°		-	539	447	457	10	2.16	0.098	0.40	0.15
				122.83-1	124.21m:	(403-40	7.5ft)	As above				$(e^{132m} = 42^{\circ})$		1.	540	457	467	10	0.96	0.095	0.90	0.13
				130,15-1	131.06m:	(427-43	Oft) Se	emi-massive	ерот	with py bands.Traces	sphaleri	e	ć	<u>/</u> .		┿───	<b>_</b>	┠		╉─────┤		
		1		131.52-1	132.89m:	(431-43	6ft) Sı	ubequal ban	nded 1	o, py.		$(2135m = 40^{\circ})$						+ +		╂╂		·
		1		133.35-1	133.50m:	(437.5-	438ft)	Massive po	o ban	l, also at 134.11(440	ft).			1		<u> </u>	<u> </u>	-+				
		1		134.42-1	135.03m	& 136.0	9-136.	55m (441-44	43 &	446.5-448ft) Banded s	emi-							╂──╂╸		╂─────────────────────────────────────		
		1				massiv	e po &	py,cp in s	silic	eous bands. Qtz-sider	ite band		-					+				
						abunda	nt, +2	-3% Sphaler	rite.				142.04			+	+	- +		++		
		1		139.00-1	139.29m(	456-457	ft) Su	bangular py	y cla	sts in sandy siliceou	is matrix		144 61				+	┟──╁				
						rework	ed?							•			+	+-+		++		
				140.21-	140.51m:	(460-46	lft) A	ngular & el	longa	te pyritiferous silts	stone					+	<u> </u>	┝──┼				
		1				clasts	s in ma	ssive py.								<u> </u>	+	+-+		<del> </del>		<b></b>
		1		140.51-	140.97m	:(461-46	52.5ft)	Semi-massi	sive p	o in cherty green hos	st-rock.							┨				
		•				Numero	ous cp	stringers &	& sev	eral magnetite pods.						+	+	+ -+		+		+
		1														+	+	+		<u> </u>		<u>+</u>
142.04	146.61	50%	99%	Massive sul	phides,	pyrrhot	titic w	ith banded	1 ру &	stringer cp in grey	black						+	┼──┼				+
(466	481)	1		cherty host	. Sphale	erite co	ommon.									+						+
	<u>_</u>															+	+	+				0.10
142.04	146.61	50%	99%	Massive sul	phides.	mostly	pyrrho	tite with s	strin	gers,bands & dissemi	nated py-				54	467	477		1.24	0.078	0.80	0.19
(466	481)			rite. Cp oc	curs in	stringe	er-like	veins, in	ı bleb	s associated with che	erty				542	4//	484 -	++	1./2	0.000	1.07	
		1		gangue & as	f.g. di	issemina	itions.	Gangue is	s cher	ty gray black rock of	ccurring				.	+	+	┼──┼		+		<del> </del>
				in brecciat	ed frag	ments &	as mat	rix to sulp	lphide	(10-15% overall). Num	nerous					+	+	┼──┼				+
				qtz siderit	e ± calo	cite bar	nds & v	eins. Stilp	pnome	lane occurs in fract	ure fil-					+		┽──┼				
				lings & ana	stamosi	ng veinl	lets. M	linor gypsu	um on	some fracture planes	. Sphal-				ļ	+		╉──╋		+	·	t
				erite occur	s from	2-5% as	veinle	ets or strin	inger	blebs irregularly di	stributed				ļ			┼╌╌┼			<u> </u>	<u>+</u>
				through sec	tion.											+	+	┼──┼		+		<del> </del>
																+	+	┼──┼			· ·	
146.61	169.77	53%	96%	Massive Sul	phides.	pyrite	domina	tes with so	some p	o rich zones. Minor :	inter-							+				+
		t		Lallal abou		1 1	ing M	in an ianhald	orito	throughout			1 1	1			1					+

<b>-</b>				lachantion	Bearing	PROPERTY		Length						HO	LE No:	12-82		Poge # 4	of 12
RILLI	HOL	ER	ECORD	Callar		Location		Hor. Com	ND.	/ 1	Vert. Co	mp.		She	et	of			
		·				Bearing						Log	aed by						
LCONBRIDO	SE LIMI	TED				Coordinates	N	Begin		/C	omoiet	d		Son	noled by				
						COOTAINOTES	E	Core si	ze	/F	Recover	Y	%	Dri	ller				
DEPTH	in metres	broav	J		RIPTION		IN	TERSECTION	GR	APHI	c	SAMP	LES		A	SSAYS		oz/	ton
	(ft.)	ROD	1	DE SC				ANGLE		1:500	No.	From	To	FI	Cu%	Co%	Zn%	Ag	Au
FROM	+ 10				1. Voine 6 1	late almost at it monol and	Mindr				-1	1							11
146.6	1 147.68	64%/47	Massive pyri	ite with some po bar	$\frac{10s}{2\%}$	stockwork of striphometalle.	<u></u>		147.68	A STAND		1		1 1				1	+
(481	484.5)	<u> </u>	gypsum veins	s. weak sphalerite i	-2% as scatte	red blebs & stringers.			148.44	11		1	<u> </u>	1-1				<u> </u>	+
									152.01	-	79500	1.0%	487	1 3	0.03	0.006	0.12	<0.05	0.002
147.68	<u>8 148.44</u>	0% 67%	Dark green,	f.g. strongly fract	ured, chiorit	rized follated turis with 16			-		10200	1 404	1	+ - +	0.00				+
(484.5	487)	╉╾╋╾	disseminated	і ру.						B	Q	1	<u>† – – – – – – – – – – – – – – – – – – –</u>						+
					<u> </u>		(50%)		1	1.21	7854	3 487	497	10	0.66	0.035	1.82	0.29	0.002
148.44	4 153.01	43%96%	Massive sulp	ohides; consisting o	of well banded	i pyrrhotite (35%) & pyrite (	<u>50%</u>												+
(487	502)	╉──┿──	with minor s	stringers & blebs of	cp (3-5%) 1n	a cherty grey green nost ro	DCK.		163.98			+		††					+
ł		<b>↓</b>	Gangue inclu	ides siderite & Qtz	veins + very	minor stilphometane complish	ling		100.75	30	5/1/	4.97	507	10	1 1/	0.040	1 43	0.42	0 002
		+	8-10% of zon	ne. Sphalerite occur	s as wispy if	regular veins & scattered bi			169.77	and the second			1 307		1.14	0.040	1.15	0.12	0.002
	<u> </u>	÷	2-3%.	<u> </u>					11/0-25			+		╉╌╌╉					
					1.1.1.1	showing anon heat work with				1	5/5	507	517		0.60	0.040	1 98	0.38	0.020
153.01	1 163.98	52%98%	Massive to s	semi-massive pyritic	sulphides if	i cherty grey nost rock with					546	517	527	10	0.69	0.040	1.77	0.05	0.020
(502	538)	<b>↓</b>	erous sideri	itic bands & pods. A	Accessory mine	rais include fracture illin	igs				540	1507	527		0 (0	0.01(	2.0/	0.03	0.002
	<b> </b>	┥	of gypsum, S	Stilpnomelane & pato	to vein-li	the concentrations of magnet			-		547	527	53/	101	0.40	0,016	2.24	0.29	0.002
			Composition	varies over zone bu	it overall is	65% py, 10% po, 5% cp,15% ga	angue		-		}	┼───		+					+
	<u></u>	↓	& 2-5% sphal	lerite as wispy irre	egular blebs &	veinlets.			-			+		╉──╋					
	<b>_</b>		157.58-15	58.34m:(517-519.5ft)	Abundant sid	lerite bands & veins with dis	ssem-		$\mathbf{I}$		<u> </u>			+					<u> </u>
			<u> </u>	inated & vei	n-like sphale	erite.			-			<u> </u>		┼──┼					<u>+i</u>
		ļļ	161.70-16	52.15m:(530.5-582ft)	Abundant def	ormed Qtz-siderite bands & c	lis-		-			+		┼─┼					+
			1	seminated sp	phalerite.				4			+		┦─┤					╉━━━┥╵
	<u> </u>		162.46-16	62.76m:(533-534ft) A	bundant magne	etite stringers.			4					┝──╉					┣──┥
	<b></b>		162.61-16	63.98m:(533.5-538ft)	) Semi-massive	e py with numerous qtz-sider:	ite							+					┝╌╌╍┥╵
				veins, occ.	brecciated. I	Black cherty fragments in pyr	rite							+					<b>+</b>
	<b>_</b>			& numerous t	nagnetite band	ls. Sphalerite common as irre	egu-			- 1			<b> </b>	+					╂┫
				larly distr	ibuted wispy l	olebs. Observed po rimmed by	ср					<u> </u>		+-+					<u> </u>
	L			rimmed in tu	irn by sphaler	ite. Minor gypsum.						<del> </del>		-+					<u> </u>
														+					
163.98	166.42	60%100	% Massive pyrr	rhotitic sulphides,	Some minor py	v bands & veins. Cherty,dark	grey				548	537	547	10	1.46	0.040	3.00	0.82	0.010
(538	546)		host rock &	numerous siderite b	ands/layers.	Some stringer cp, perhaps 4-	-5%												÷i
			overall.	······································										+					<b>├</b> ───┥
																			<u> </u>
166.42	169.77	70% 100	Massive pyri	itic sulphides. Brea	ciated at beg	ginning by abundant calcite	± s	ulphide			549	547_	<u> 557 -</u>	10	1.65	0.058	2.12	0.88	0.020
(546	557)		qtz-siderite	e bands & veins. Dan	ck grey cherty	host rock-probably volcanic	c b	anding at			ļ	<b> </b>		╞──┼					<u> </u>
	•		tuff origina	ally. Cp to 6% as d	isseminated st	tringer-like blebs. Sphaleri	te   1	$69.5m = 42^{\circ}$			·			┞──┼					<b>İ</b> İ
			to 5%. Proba	able disseminated ma	agnetite in pa	arts judging by magnetic pro	per-												<b></b>
			ties of the	pyritic core. Occ g	gypsum & stilp	onomelane veins or fracture	filling	s.			ļ			$ \downarrow $					<b>  </b>
														┟──┤					ļi
169.77	187.45	84%100	% Massive to s	semi-massive sulphic	les within alt	ered brecciated volcanics &						ļ		$ \downarrow  \downarrow $		<u> </u>			<b> </b>
(557	615)		cherty host	rocks. Minor interc	alated schist	ose tuffs.								$ \downarrow \downarrow$					
					·							L		$ \downarrow \downarrow$					
169.77	170.23	727100	& Light gray,	v.f.g. <u>schistose tu</u>	ff, Schistosi	ty well defined by porphyro-	·	ontact=20°			7858	557	558		0.24	0.012	0.96	0.05 <	0.002
(557	558.5)		blastic(?) m	nuscovite (to 2mm) i	n aphanitic m	atrix.					<b> </b>			┟──┤					ļ
			1		· · · · · · · · · · · · · · · · · · ·														<u> </u>
		·	+						3 I		1	1		1 1	i	1	1		1

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			ככ	CODOL		Inclination	Bearing	PROPERTY			Length						но	LE No:	12-82		Poge #5	of 12
	HUL	. <u> </u>						Location			Hor. Com	<u>1p.</u>	/	Vert. Co	) mp.		She	et	of			·
	~ <b>~</b>			E			1	Elevation			Bearing				·		Log	ged by				
	JE LIN	HEU		E				Coordinates		N	Begun		<u>/Ç</u>	omplet	2 <b>d</b>		Son	noled by				
				F			+	┥	······	<u> </u>	Core si	z e	<u> </u>	lecover	Y	%	<u>  Dri</u>	ller				
DEPT	H in metro	es RECO	N, A			DESC	RIPTION			INT	ERSECTION	GR	APHI	C	SAMP	PLES	.	4	SSAYS		OZ,	/ton
FROM	<u>TO</u>	ROD	Core				·			+	ANGLE		500	No.	From	To	Ft	Cu%	<u> </u>	Zn%	Ag	Au
170.2	3 175.	3 <b>788%</b> 1	100%	<u>Semi-massive</u>	sulphid	<u>es in sider</u>	itic matrix.	Some massive py	bands & layers	Co	ntact at	170.23		7 <u>855</u> (	558	568	10	0.61	0.022	1.31	0.29	0.02
(558.5	577)			& minor po ba	ands + n	umerous pyr	itic stringe	rs veins & pods.	Numerous sider-	17	'5.87m=35°			55	1 568	578		1.28	0.022	1.29	0.57	0.02
		_		itic veins in	n sulphi	des also. C	p disseminat	ed in py & as occ	stringer blebs	<u> </u>		175.87	//// B	۹ <b></b>		<u> </u>	┟──┤					
	-			in siderite.	Dissemi	nated wispy	sphalerite	blebs.				176.48	10			ļ	╏──╁					4
+	<b></b>			173.13-174	4.35m:(5	68-572ft) A	bundant vein	-like sphalerite	blebs up to 3mm	<b>_</b>		178.61			+	ļ	┨───┤					
	<b>_</b>	_			W	ide.	······································			+		183.49				<b> </b>	- +					- <b> </b>
	<b></b>					, <u></u>				<u> </u>		4						<u> </u>		<u></u>		
175.87	7 176.4	8 67%1	00%	Stringer sulp	<u>bhides</u> i	n dark gree	n f.g. schis	tose chloritized	<u>volcanic(tuff?)</u> .			4				ļ	-					
(577	579)			F.g. dissem.	po bleb	s are elong	ated paralle	l to foliation. M	inor clay alter-	·		4			+							
	+	++		ation of clas	sts(?) i	n matrix. S	ulphides are	pyrite for most	part with subor-	·	·····	4			+							
	<u> </u>			dinate po, mi	inor cp.	Intensity	of stringer	mineralization in	creases with	<u> </u>		4			┢────							
	<u> </u>	<u> </u>		depth to almo	ost semi	-massive (4	0-50%) bands	. Grades into fol	lowing zone.			4									· · · · ·	+
	╡	_		Numerous side	eritic v	eins & diss	eminated wav	y sphalerite bleb	S.													
	+				<u>.</u>					╂───					570	500		1 01	0.025		0.00	
176.48	3 178.6	1 88%1	<u>00%</u>	Semi-massive	to mass:	<u>ive sulphid</u>	<u>es (55-80%)</u>	in chloritized vo	Icanics as above				• 1	552	5/8	589		1.91	0.035	1.61	0.68	0.030
(579	586)		-+-	& cherty rock	<u>s (sili</u> )	cified sect	ions?). Nume	rous sideritic day	nds & veins in	<u> </u>				}	<u> </u>							<u> </u>
	<del>}</del>	╶┼──┼		places brecci	ating s	ulphides. P	y & po are s	ubequal in amount	Sabalarita again			┦ ╎										┥───
	<b>-</b>	++		Sphalerite di	stribut	ed irregula	rly througho	ut as wavy blebs.	Spharerite occu			{		}								+
	╂────	┥┥		in siderite a	It 170.5					<b> </b>					+		┝╼╼╋					+
170 (1	1 100 /	001%1	0.0%	Chuinaan ta a		aive banda	of culphidos	in wariable bost	volcanics Dom-		<u> </u>	1		79593	580	59/	5	0.52	0.029	1 23	0.15	0.005
1/0.01	(02)	190161	00%	inent heat ro	sewr-mas	dark green	v f g wea	kly schistose chl	oritized volcani	c –				553	594	604	10	1.54	0.025	1.22	0.53	0.005
(300	602)	┿┈┼╴		mant nost ro	intore	alated lave	re & claste	of more felsic ch	erty tuffs or	S., 1	nhide										0.55	1.010
		+ $+$		daoite tuffe		iving annea	rance of vol	canic breccia in	places. Some	ban	ding									· · ·		<u> </u>
	<u> </u>	+ +		hands of mass	sive pyr	ite and/or	pyrrhotite o	ccur but most sul	phide appears in	180	$m = 32^{\circ}$		1									+
	<u> </u>	++	-+	irregular str	ringers	& veins, Si	derite veins	& dissem, sphale	rite are common									·				
	<u> </u>		-+-	179 Om: 15	5cm thic	k massive p	o band with	minor stringer cp		· · · ·								<u> </u>				†
				179.00.179	9.83m:(5	$\frac{1}{87.5-590ft}$	Stretched.	sub parallel "cla	sts" of cherty	Cor	ntact at	÷	1	<b> </b>								<u>+</u>
		+			t	uffs & soft	chloritized	tuffs cut by str	inger po + minor	180	$14m=32^{\circ}$											
	· ·			<u> </u>		n sphaleri	te pv. Rotat	ed lavered cherty	tuffs also													†
	<u> </u>			······		beerved: vo	lcanic breck	ia?														1
		++		179 83-18	0 14m·("	590-591ft) M	lassive pyrit	e, irregularly ba	anded by po, cp	Coi	ntact at				1							
				175.05 100	<u></u>	tringers, r	mrs sphaleri	te veinlets-some	as selvages to	18	0.59=32°				1							
	<b></b>	+	-+-			sideritic ve	ins.															
	· · ·	+ +		180.14-180	0.29m:Sl	neared breco	iated, dark	green, v.f.g. scl	histose chloriti	с												
		++-	-+-	<u></u>	t	uff(?) with	dissem. sti	etched po blebs	// foliation.													
· · ·		┩╌╌┥╴	-+-			Some gypsum	in shears.															
				180.29-180	0.59m:G1	ey brown, n	n.g. massive	to faintly schist	tose dacitic tuf	f.												
		+ +		180.59-18	3.49m:(	592.5-602ft	- ) 45% pyriti	sulphides as st	ringers & narrow													
		1 +	-†-		n	assive band	ls in volcani	c breccia host ro	ock (as 179.07-	·												
		+-+-		<b></b>	]	79.83m). Nu	merous side	tite veins.5%cp in	n stringers.													
				<del></del>		5% sphaleri	te.															
													1									
		+ +	-										1				T					

					Inclination	Bearing	PROPERTY		Length	I						НО	LE NO:	12-82		Poge # (	<u>6 of 1</u> 2
DRILL	HULL			Callar			Location		Hor. (	Comp	p	/ Ver	t. Co	mp.	<u> </u>	She	et	of			
							Elevation		Bearin	ng						LOO	ged by				
FALCONBRIDG	SE LIMIT	TED					Coordinate	25	N Begun			/C 011	olete	d		San	noled by				
									E Core	siz	e	/Rec	over	Y	%	Dri	ller				
DEPTI	H in metres	RECOVY			DESCR	IPTION			INTERSECT	ION	GRAP	HIC		SAMP	LES			ASSAYS		oz	/ton
FROM	(ft.) TG	ROD :Core							ANGLE		1:500		No.	From	To	FI	Cu%	Co%	Zn%	Ag	Au
183.49	187.45	85%100%	Semi-massive	pyritic	sulphides i	n dark green	chloritize	d volcanic & minor vo	1-		183.40		78554	604	614	10	1.72	0.028	1.56	0.67	0.020
(602	615)	03/100/	canic brecci	a as pre	vious, Sulph	ides to 50%.	Overall co	mposition is 40% pv.	Sulphide		100.71										1
1002	0157		10% po $5%$ c	$D_{\rm r} = 5\%$ sp	halerite, 25	% chloritic	volcanic, l	5% siderite ± Otz/cal	- banding a	it	187.45	Γ									1
	<u> </u>		cite Access	ory magn	etite in nar	ts. Intensiv	re sulphide	& siderite veining	187.30=55	5°		ant	·								1-1
			throughout s	ection	Some of mass	ive sulphide	bands are	brecciated by later	1												
<u>+</u>	1		veine Volc	anic bre	ccia of cher	tv. grav aph	anitic tuff	s in chloritic volcan	4												1
	1+		ics occurs a	t 186.23	-186.84m (61	1-613ft) & 1	.87.15-187.4	5m (614-615ft). Abun-													
			dant sphaler	ite & si	derite veini	ng from 187-	187.15m. So	me po bands with cp-			199.49	-									
	++		veined pyrit	e clasts	occur at en	d of the zon		······													
+	<u> </u>		veineu pyrre						1												
107 / 5	261 57	279969	Sequence of	variable	volcanic fl	ows tuffs.	breccias +	minor cherty argillit	e.											_	
10/ 4)	204.37	57/200/2	Sulphides or	ratio ac	dicceminate	d blebs str	ingers & oc	c hands, generally				-									
1015	000)		loce than 10	1 overal	1		Ingelb u de	e builde, generally	1									1			+
			Tess chan to	/% Overai	· · ·	· · · · · · · · · · · · · · · · · · ·			1	_	Ì									]	1
197 / 5	100 /0	1,29,929	Votorogeneou	e sectio	n of interhe	dded cherty	grav aphani	tic tuffs, dark green									<u> </u>				1
(615	45/ 5	43/102/0	abloritized	$f \alpha + u$	ffs & some v	olcanic brec	cia. Sulphi	des are erratic in	Bedding a	t								1			1
(015	054.57		distribution	mostlv	as py &po st	ringers with	trace cp.	Minor sphalerite	$193m = 35^{\circ}$	•										1	1
			associated w	ith atz-	siderite ban	ds/veins.		<u></u>													1
	<u> </u>		187 / 5-18	17 60m • D	ark green ch	loritic volc	anics	<u> </u>				-									1
	<u> </u>		187 60-18	$\frac{1}{100}$	$\frac{15}{15} = 620f + 1$	Cherty grev-	areen volca	nics with siderite &	+												+
	┟┈╾╌┥		107.00 10		o veins with	sphalerite	in places.	mics with sidelite d				-							1		
f	f †		180 50-10	<u> </u>	$\frac{1}{22-628ft}$ As	above Some	e gypsim vei	ns & graphite in frag	/	-1		-									1
	<u> </u>		107.57 12	t.+1 <u>m.</u> (0	ures.		- <u>6) po un</u> voi												T	1	1
	<b> </b> +		191,41-19		28-630ft F.	g, grev tuff	. calcite v	eins & stringer po.	<u> </u>												
		- + - +		<u></u>	Some no as ro	ds to walls	s of stilpho	melane veins.													
			192.02-19	94.01m:(6	30-636.5ft)	Well bedded	(2mm-2cm th	ick) black aphanitic												1	1
				t	uff? foliate	d parallel 1	to bedding.	Several clasts occur	<b></b>												
	<u> </u>			······································	of sub angula	r cherty gre	ev-green vol	canics. Otz-siderite				-									
				 V	veins & convo	lute bands a	are common a	as well as conformable				-									
	+			r	o bands. & s	ub parallel	veins. Mind	or gypsum on fracture	\$.			-									1
				P	linor sphaler	ite veins.		0,1 -				-									1
			194.01-19	94.92m:(6	36.5-639.5ft	) Dark green	n f.g. chlor	itized volcanic (cry													
	+				stal tuff/).	Gypsum at u	oper contact	& in fractures.							;						
			194 92-10		39 5-640 5ft	) F.o. greet	-brown, mil	dly foliated tuff.													
+			195 22-10	$99 49m \cdot (6)$	640 5-654 5ft	) Mostly vol	lcanic brecc	ia of cherty.angular		_											
				<u>ه) ۹۰۱، در د</u>	rev tuff cla	sts in matr	ix of sideri	te with dissem. po &													
				<u></u>	ov. Many tuff	clasts are	silicified	& chloritized. Some													
				<u>н</u>	$y \pm po clast$	s observed.	Po also occ	curs as stringer-like	Foliation	at		•									
		-++		1 r	veins. Up to	30% sulphid	e as 15% po.	, 5% cp & 10% py.	$198m = 30^{\circ}$			F									
					Interbedded v	volcanics (f	.g. green cl	hloritic tuffs) occur													
					from 195.83-1	97.21m (642	.5-647ft) &	197.97-198.27m				L L									
		-++			(649.5-650.51	t).															
h			<del></del>									F-									
		-++																			

		-			ation Bearing PROPERTY		Length					HOL	E No:	12-02		<u>    Po qe #</u>
ILL H	IOL	<u>.</u> h	₹E		Location		Hor. Com	p	/ Vert	Comp.		Shee	1	of		
e e e e e e e e e e e e e e e e e e e					Elevation		Bearing					Loga	ed by			
NBRIDGE	ELIMI	TED			Coordinates	N	Begun		Como	leted		Some	oled by			
						E	Core siz	z e	/Reco	very	%	Drill	er			
DEPTH in	n metres	RECO	iv		DESCRIPTION	1	NTERSECTION	GRAFH	+ I C	SAM	PLES		A	SSAYS		COMPOS
FROM (ft	<b>1)</b>	RQD	ore				ANGLE	1:500		No. From	TO	Ft			j	<b> </b>
199.49	243.54	48%9	9%	Dominantly dark green f.g	m.g. chloritized crystal(?) tuff. Prob orig	ginally	Contact at	199 49								
(654.5	799)			basaltic in composition.	Some clasts are replaced by calcite.Clasts an	re white	199.50m=42°	الريسي المراجع					·		·	
				up to 1.5mm in length, ir	regularly shaped & suspended in v.f.g. chlor:	itic		المركبة للمركبة المركبة							······································	
				matrix. Minor sulphide ve	ins & disseminations (5%) with a few narrow	sections	Internal								L	
h			-+-	well banded with po & sub	ordinate py. Fractures often slick "n" sided	&	contact at								·	1
				chlorite-lined.			201.31m=55°	التقريبية								
				208.18-210.31m:(683-69	Oft) More crystal rich with larger white cry	stals.			L						j	<u> </u>
				219.30m:Concentrated w	nite(feldspar?) crystals gradually diminishing	ng down	Sulphide		L						·····	<u> </u>
			-	hole.			banding at									<u> </u>
1				221.89-222.20m:(728-72	9ft) Semi-massive banded po, bands parallel :	frac-	$222m = 42^{\circ}$	1 Sta			_					<u> </u>
			1	tures,	minor cp in calcite veins, very minor py ve	ins.						ļ				<u> </u>
		· · · · ·		223.42-223.88m: As abo	ve with clasts of chloritic volcanics.		Bedding at		BQ							<u> </u>
	· · · · · · · · · · · · · · · · · · ·			223.88-226.77m:(734.5-	744ft) M.g. sandy grey tuff with elongate ch	loritic	$225m = 43^{\circ}$		F -		<u> </u>	<b> </b>			·	<u> </u>
				volcan	ic clasts. Po, py stringers.			A standard	~ L		<b>_</b>	╞──┾─			······	<u> </u>
				233.32-234.09m:(765.5-	768ft) As above no sulphides. Gypsum at cont	act.	Contact at					┠──┠─			,/	<u> </u>
				234.39m: Fault gouge:	pebbly.		233.32m=20°									<u> </u>
				235.15-238.20m:(771.5-	781.5ft) Interbedded cherty chloritic tuffs	with	Bedding at					<b>↓↓</b>				<u> </u>
				darker	more chloritic tuffs.Po + minor py veins. S	ome qtz	$236m = 35^{\circ}$	243.54	·  _		<u> </u>	┣──┣─				<b> </b>
				veins.					-		-+					
				238.35m:(782ft) Semi-m	assive po as numerous veins in cherty volcan	ics.						┟──┤┈				<b> </b>
			_	trace	cp			250.24 2	. –			<b>├</b>				<u> </u>
								172	-		+	┟╼╼╌┠╌╸				
243.54	250.24	18% 8	88%	Black, v.f.g. <u>cherty tuff</u>	or argillite with interbedded tuffs & flows.	. Minor		254	-			┠──╂──				<u> </u>
(799	821)			dissem. py, po & stringers	s of same occur up to 15%. Numerous Qtz-calc	ite I	<u>foliation at</u>	FRAN	÷		+	┠╌╍╂╼				<u> </u>
				veins. Tuffs are schistos	e in places.	2	$244m = 35^{\circ}$	- Alter	-  -		+	++-				<u> </u>
				245.52-246.74m: Coarse	c grained tuffs(?) with white crystals & clas	sts.		264.57	-		+	╉┈╌╉╌				
				Slight	ty more dissem po in matrix.		Bodding at		•		1	<u>├</u>				<u> </u>
			-+-	247.65-248.26m: (812.5-)	514. JIL) Gray porphyritic & amygdaloidal bas	rm '	$749  \text{Om} = 15^{\circ}$		+		+	<u></u> <u></u>				1
				cherty	grey to plack arguintes. Dissem py $\alpha$ po to	0000 (	$a_{249,5m=40^{\circ}}$		-		+	<u></u> <u>+</u> −− <u></u> †−−			d	<u> </u>
<u> </u>				layers	// bedding. several po verns closscal beds	ng	in opposite		-		+	<u>├</u> ├-				
		<u> </u>		with c	of argillites is sub parallel to core axis t	i11	sense		-		1					
	· · · · ·				n when it steepens in the opposite sense. Pr	obable			F		1 .					
			-+-	249.90	fold structure.				-							
									· 🕇		1					
250 2/	261. 57	69 1.0	87	Dark green chloritized	a -f a volcanic tuffe Strongly fractured	with F	Bedding at		+-		T					
(821	204.3/	0/ 40	0/0	slick 'n' sides Minor di	asem po ( $<5\%$ ). Occ hears white feldspar cryst	tals. 2	257m - 23°				1					
	0007		-+-	Below 255, 12 is silicifie	& cherty with increased sulphides as string	gers. I	Foliation =		+-							
		<u> </u>		Moderately schistose			35°		-							
		-+-		254.81-254.97m: (836-83	5.5ft) Light gray green m.g. tuff. Not as ch	lori-	(subnormal									
				tized	as surrounding rock.	t	o bedding <)		Γ							L
				258,47-263,96m+ Fault												L
				Fault	zonc, pour recovery.											<b>_</b>
-										T	1				1	1

1 1				Inclination Bearl	PROPERTY		Lengin						LE IND;			Poge	8 of
					Location	<del></del>	Hor. Com	np.	/ Vert. C	Omp.		She	et	Of			
	<b>-</b>	<b>T C D</b>			Elevation		Bearing			·		LOG	ged by				
BRIDG	E LIMI	IED			Coordinates	<u>N</u>	Begun		/Complet	ed		Son	pled by				· · · · · · · · · · · · · · · · · · ·
						<u>E</u>	Core si	<u>ze</u>	/Recove	ery		Dry	lier				
DEPTH i	in metres	RECOV'Y		DESCRIPTIC	N	1	NTERSECTION	GRAPI	ніс	SAMI	PLES			ASSAYS	•	oz/	ton
FROM	<b>H.</b> ]	ROD Core					ANGLE	1:500	No	From	To	Ft	<u> </u>	<u> </u>	Zn%	Ag	A
264.57	300.84	55%96%	Stringer sulphides in	n mixed volcanics:	cherty tuffs to chloriti	c volcanics.					ļ	$ \rightarrow $	. <u></u>		+		
.868	987)										<b> </b>	$\downarrow$			<u> </u>		
											<b></b>	$ \downarrow \downarrow \downarrow$			· · · · · · · · · · · · · · · · · · ·		
264.57	268.83	48%100	Stringer po, minor py	, cp in cherty gre	en-grav f.g. tuffs. Acce	essory magne- (	ontact at	264.57			ļ	┟──┼					
868	882)		tite in irregular pat	tchy pods & veins.	Some po bands occur para	allel to bed-	.64.57m= 36°				<b></b>	$\vdash$	••••		<u> </u>		
			ding. Py in veins, al	lso disseminated as	f.g. cubes. Up to 2% cp	o in po veins		268.83	785	<u>55 876</u>	883	17-1	0.79	0.008	0.06	<0.05	<u> </u>
			& Qtz ± calcite vein	s. Siderite bands o	ccur but are not abundar	nt.		1 King	、		╂	+		+			
			267.31-267.61m:(87	77-878ft) Abundant	po with associated chlor	ritization of					<b> </b>	┨──┤		+		-	
			tı	uffs. Minor cp in v	eins.			276.15				┢╌╌┝		+	÷		
			268.22-268.68m: (88	80-881.5ft) Numerou	s pods, veins of po + cp	p stringers.			<		<b> </b>	┢──┼		+	<u>+</u>		
							<u></u>		<b>B</b> Q	-+		+		+			
268.83	276.15	637100	& Dark green, <u>chloritic</u>	c, volcanic tuff si	milar to previous section	on from 250.24	Contact at	here a	58	8 883	893	$\frac{10}{10}$	0,84	0.010	<0.01	<0.05	-  <(
882	906)		264.57m. Only minor	dissem py, po & po	stringers to $\approx$ 10%. Cha	lcedonic veins	268.83m=35°		2 58	89 893	905		0.15	<0.005	<0.01	<0.05	
			(± cp,po) numerous.						<sup>w</sup>			┟──┼		+			
			271.58m:(891ft) Q	tz-siderite veins v	ith bleached envelopes	. Some po & cp		211.01		_	<b> </b>	┼──┼		+	<u> </u>		
			b	lebs, stringers.				F SS	、		<b> </b>	┨──┼		+	<u> </u>		
	L		274.93m:(902ft) A	bundant po, minor (	p in chalcedony veins.C	p usually in						┝─┼					
			S	elvage of veins.			. <u></u>	300.84	₹		ļ	$ \longrightarrow $					
															0.0/	(0.05	
276.12	291.39	61%98%	Dominantly cherty app	nanitic grey tuffs.	Contact (upper) has int	terbedded 1	ledding at	4	$\frac{1}{5}$	56 905	915	10	0.58	0.026	0.04		$-\frac{10}{10}$
906	956)		cherty grey tuffs & c	lark green chloriti	c tuffs of upper unit. S	Some clasts	276.50m=40°	4		915	925		0.58	0.042	0.02	.0.05	
		<b> </b>	of grey tuffs are cau	ught up in chloriti	c tuff beds.Zone is abur	idantly veined .	285m = 35	4	1 55	0 025	935	$\frac{20}{10}$	0.52		<0.01	<0.05	-10-
			by po both crosscutt	ing & parallel to t	edding. Some po in thin	massive bands.		4		9 935	945		0.44	0.038	0.01	1 10.05	-10.
		<b> </b>	Disseminated siderite	e (replacing py?).	Cp in stringers + patchy	y blebs.		4	- 50	0 945	950	┼╧┽	0.48	0.044	0.01	<0.05	-10.
		<b>↓</b>	277.83-278.43m:(9)	11.5-913.5ft) Mass	ve po with stringer cp.	Stilphometane		4			<b> </b>	┼──┼	<u> </u>	+	<u> </u>	+	
			11	n fractures.							<b> </b>	+-+					-+-
		I	280.42-281.94m: (9)	20-925ft) Massive I	o, stringer cp, patchy p	y aggregates.					<del> </del>	+ - +		+	+		
			282.85-284.38m:(9)	28-933ft) As above	py more abundant, some	chloritized		4				+			<u>+</u>		-+-
			f:	ragments in sulphic	les.	stringer po py		4			<del> </del>	┼──┼		+	<u>↓</u>		-+
			284.38-284.53m:(9	33-933.5ft)Dark gro	en chloritic tuil with	stringer po,py.			<u>}</u>			┼╌╌┼			<u> </u>		-+
			285.14-285.29m:(9	35.5-936ft) Pebbly	chloritic shear? zone.	Iling impo						╉╼╼╼╉		1		+	
			285.60-288.65m:(9	37-94/ft) Cherty g	rey turis with warped be	ading, illeg.				-+				+			-+
			d	eformation axes.	in chloritic releanie			4			<u> </u> `	┟──┼	·····	1		+	
ł		┝──┼──┤	288.65-289.56m:(9	4/-950ITJ Massive	o in chioritic volcanic	3.		4	.	-+	<u> </u>	┼──┼		1	<u> </u>	1	
		┝──┼──┨						4	56	1 956	966	10	0.62	0.063	0.01	<0.05	
291-39	300.84	46%95%	Stringer sulphides wi	<u>th semi-massive se</u>	ction in heterogeneous z	one of mixed C	ONTACT AT	4	- 705	85 044	070	12	0 15	0.0/4	0.01	20.05	10
156	<u>987)</u>		volcanics-mostly dark	green chloritic f	Lows & turis with less a	ndod structure	271.39m=42	4	785	62 979	989		0.65	0.098	i 0.03	<0.05	0.
<del> </del>			& brecciated fragment	s of cherty grey t	ITIS & CONCENTRICALLY DA	nded structures		4	1.05			++		+		+	1
			- possibly representi	ng pillows. Sulphi	des mostly po, minor cp.	ру.		4				┼──┼		+			
			291.69-292.46m:(95	7-959.5ft) Patchy	p. Concentric shaped ch	erty struc- C	ontact at	1		+	<u> </u>	<u>  -                                   </u>		<u>†</u>	<u> </u>	1	-†-
		┝──╁──╁	tu	res enclosed by tu	tr-breccia clasts. Some	or the struc- 2	93.22m= 15	4			<u> </u>	┝──┼		<u> </u>	<u> </u>	+	+
+			tu	res have amygdaloi	dal centres. (Edges of p	STITOWS) (		4			t	+		+	<u> </u>	1	-+
1			······································					4   4	h		<b> </b>	╉╾╼╋		+	+	+	-+

<b>—</b> ———————————————————————————————————		_	0		]	Inclination	Bearing	PROPERTY		Length	<u></u>					HO	LE No:	12-82		Poge #	9 of
KILL	HOL		KE		Coller			Location		Hor. Co	mp.	<u>/ Ve</u>	rt. Con	٩p.		She	et	of			
								Flevation		Bearing		·······		1 - E		Log	aed by				
LCONBRID	GE LIN	ATE	D			_		Condinates	······································	N Begun		/Con	neted			Son	noied by				
								Coordinores		E Cores	ze	/Re	covery		%	Dri	ller				
DEPT	d in metres		cavin		1		RIPTION	<u>1</u>	·····	INTERSECTIO	N GRA	PHIC	S	AMP	LES		4	SSAYS		oz/*	ton
E POV	(fi,) TO					DESC	NIF 210N			ANGLE	1:50	00	No.	romi	To	Ft	Cu%	Co%	Zn%	Ag	E.
FRUM	10										1 +			-				1		1	-+
291.3	9 300.8	84		CONTINUED FI	ROM PREV	VIUUS PAGE	Character and a	- tuffa with comi-ma	agive po t cp		-							+	t		
				293.22-2	93.90m:	(902-904.511)	t) Dark gree	n m a smuddloidal	chloritic									+	<u> </u>		
				294.59-2	98.250:	(900.J-970.JI	L) Dark gree	abos f an woing no	comotimes rime				+	+				+	+	+	-+
						andesite. Fo	veins & pau	by quarte Fault for	o ot 297 50m		-		+	+				+	+		-+
	+					$\frac{1}{(20-1)}$	irii enclosed	by quartz. Fault 201	le al 297.50m		-							+	+	+	-+-
		-+		000 05 0	00 0/	(30cm wide).	Chamter day	k aroon tuffe with r			-							+	t		-+-
				298.25-3	00.84m:	(9/0.5-90/10)	cherty, uar	k green currs with b			-				{			+	f		
			+			bands & vein	is + stringer	cp.			-							+	+		-+
					· · ·													+	+		-
300.8	<u>4 390.</u>	<u>14259</u>	<u>)%?95</u>	& Stringer to	semi-ma	assive to mas	sive pyrrhot	itic sulphides in ne	illite		-		+					+			
(987	1280)		- <u> </u>	mixture of	chloriti	ic volcanics,	cherty tuff	s & minor cherty arg	,1111Le.									+	+		
	+										-		562		000	10	0.66	0.000	- 0.02		-
300.8	<u>4 315.</u>	<u>16 58</u>	<u>37100</u>	<u>&amp; Semi-massiv</u>	<u>e to ma</u>	ssive pyrrhot	ite with min	or py & cp stringers	in a cherty		300.84		564	909	003	4	0.00	0.093			$\frac{10}{10}$
(987	1034)	_ <u> </u>		dark green,	chlori	tic, f.gm.g	. andesite t	uff or tuff breccia.	Sulphides		-	),	10506	1000	1000			0.000			
			╧	comprise 60	-65% ov	erall but con	tent varies	widely from massive	sections to		- 8		8586	1003	1004	$\frac{1}{10}$	0.88			<0.05	10.
	<u> </u>		++	patchy bleb	s & str	ingers in hos	st rock. Cher	ty "clasts" are obse	erved in the			<b>`</b> .	1020	1004	1014	10	0.00	0.000	<u> &lt;0.01</u>		10.
	<u> </u>			volcanics.	Slick '	n' sided frac	tures & shea	rs are nmrs.					566	014	1024	10	0.60	$\frac{1}{1}$ 0.11	<0.01	<0.05	0.
				305.71-3	06.17m:	(1003-1004.5f	t) Cherty da	irk grey volcanic tu	f abundant					.024	1034	10	1.44	0.082	<u></u>	<0.05	-0.
						qtz veins ±	cp in string	gers.			- 515.10		+				<u>_</u>	+	<b>+</b>	-+	+
				309.07-3	09.37m:	(1014-1015ft)	Po rods in	massive po.										<u>+</u>	<u> </u>		
				309.98-3	310.29m:	(1017-1018ft)	Po rods & 1	adiating textures.	Chalcedony				·				<u> </u>	<b></b>	<b>+</b>		+
						veins. Cp te	ension gashe	3 <b>.</b>		······								<u></u>	<u> </u>		
				310.44-3	811.51m:	(1018.5-1022	ft) Po angula	ar "clasts" sometime	s elongated									<b></b>	<b>_</b>		4
						up to lcm lo	ong axis, 0.	5cm short axis.Abund	ant cp,py vein	S.	329.18							<b></b>	<b></b>		4
				312.57-3	314.10m:	(1025.55-1030	0.5ft) Abund	ant stringer cp, pat	chy blebs								<u></u>	<b></b>	<u> </u>		4_
	I					with po veir	ns & clasts.											<b></b>	+		4
	Γ	1																	<u></u>		
315.1	6 329	18 43	%96%	Disseminate	d & stri	inger sulphid	es (30%) in	dominantly dark gree	n m.g. <u>chlor-</u>	Bedding at		1	8587	034	1050	16	0.82	0.014	<0.01	<0.05	0.
(1034	1080)			itized tuff	interbe	edded with th	in layers of	dark green, v.f.g.	tuffs & flows.	$320m = 32^{\circ}$		1	8568	050	1055	5	1.20	0.043	0.01	<0.05	0.
			1 1	Sulphides a	re most]	ly in stringe	r veins with	minor dissem po in	elongate blebs	5		7	8590	055	1065	10	0.12	0.010	<0.01	<0.05	₹0.
	1	_		Overall po	is 15-20	0%, py 10%, c	p ≦5%.						591	.065	1073	8	0.31	0.016	<0.01	<0.05	40.
	1		+	316.38-3	17.30m:	Strongly fra	ctured, clay	s developed.					8569	073	1080	7	0.52	0.024	0.01	<0.05	0.
				319.58-3	20.04m:	(1048.5-1050f	t)Dark greer	amygdaloidal basalt	.,3% dissem pø	•					-			<u> </u>	· · · · · · · · · · · · · · · · · · ·		
t	1	-+	+-+	321.56-3	22.33m:	(Pebbly tuff.	blocky frac	tures, clay - Fault	zone?		]		T						L		
<b>†</b>	1	-+	++	324.00-3	24.31m:	(1063-1064ft)	Mostly dark	green v.f.g. chlor:	tic tuff with			· · I									
[	1	-	+ +			elongate sub	rounded c.s	. tuff clasts. Diss	em elongate		]										
	1		┽┈┼		<u></u>	po blebs par	allel folia	ion.			7										
1	1		<u>+</u> +	326 75-3	27,20m•	Strongly fra	actured m.g.	tuff.			7										T
	+	-+	+-+	327 20-3	327.51m	(1073.5-1074	.5ft) F.g. ti	iff or flow with m.g	. tuff clasts	<u></u>	1										1
	+		╉╾╌╉	527.20 3		$\frac{10,000}{10,00}$	veine				<b>1</b> i					1					Τ
<b> </b>	+		┼──┼	·		<u> </u>				······································	1										Τ
<b></b>	+	+	╉╌╌╊		······································	·····					1			†				<b></b>	1	1	T
	+		╉╼╋		······································						1							1	T	1	1
	╉┈───		╉──╉	<u> </u>							1	1	+	†					1	1	1
L	1	1								`			+					t	1	+	+

	HOLE	•	27		Callar			Location			Hor. Con	мр	<u> </u>	<u>ert. Co</u>	mp.		Shee	1	T			
						1		- Elevation	<u> </u>		Bearing				•	1 - 11 - 1	Loga	ed by				
ONBRIDG	ELIMI	TED						Coordinates		N	Beau		/Co	moleter	đ		Sam	oled by				
										E	Core si	ze	/R	ecovery	1	*/6	Dril	ler				_
		DECO	لدنية			DES	RIPTION			INT	ERSECTION	GRA	PHIC	:  :	SAMP	LES		۵	SSAYS		oz	:/
TROM	n in merres (ft.) דים	ROD				023					ANGLE	1:50	00	No.	From	TO	Ft	Cu%	<u>Co%</u>	Zn%	Ag	
220.11	2 222 15	660		Magging to	omi-mac	sive sulphi	dee mostly	nvrrhotite and	roximately 60-65%					570	1080	1090	10	1.35	0.057	<0.01	<0.05	ł
1080	1002	00/	1006	massive to s	orall i	n bedded gr	een f.g. che	rty tuff or arg	illite. Nmrs gtz-	Bed	lding 30°	329.18										
1000	1093)			sulphides ov	e Po i		v 10-15%, cp	$\approx 5\%$ . Massive t	o section sometime	s		333.15										
	<u> </u>			bear clast-l	ike sub	rounded po	bodies. Not	all po is conf	ormable to host ro	clk		336.19										
	+			bedding Son		ntrically b	anded/bedded	structures in	the host rocks wit	h												
1	+			sub-conforma	ble po	lavers - po	ssible pillo	w structures?												<u> </u>		
	+	┞───┤	-+	Sub contormo	bie po		<u> </u>															·
333 11	336 19	63%	1001	Grev-green m		esite (tuff	?) with 2% d	isseminated py	cubes. Cut by nmrs	Co	ontact at			78592	1090	1103	13	0.12	0.018	<0.01	<0.05	
(1093	1103)	0.5%	1000	otz & calcit	e veins	, tension g	ashes. Dark	grey to black o	nerts/cherty argil	- 333	8.15m=40°											
1-0/5	f	<u>}</u>		lites occur	in cont	act zone at	beginning o	f unit. A light	green layer of m.	g			BQ BQ						ļ	<u> </u>		
	1	<u>↓</u> †		tuff occurs	from 33	3.15-333.30	m(1093-1093.	5ft).										·-		+		_
	<b>†</b>	•																		<u> </u>		_
336.19	360.88	?64%	?95%	Stringer to	semi-ma	ssive pyrrb	otite with m	inor py & cp in	cherty f.gm.g.	Cor	ntact at	360.88	Server 1	8571	1103	1113	$\frac{10}{10}$	0.78	0.056	<0.01	<0.05	
(1103	1184)			dark grey to	black	argillite(?	). Sulphides	form 35-55% of	zone, erratically	336	5.19m=40°			5/2	1113	1123	10	1.01	0.038	<b>NU.UI</b>	<u> </u>	
				distributed	from mi	nor stringe	rs to massiv	e sections. Som	e po blebs are	Bed	lding at			573	1123	1133	10	2.58	0.071	0.01	<0.05	_
			T	stretched pa	rallel	to bedding.	Numerous sc	attered qtz vei	ns,minor gypsum.	340	$m = 50^{\circ}$			574	1133	1143	10	1.02	0.082	<u> </u>		
				Magnetite ve	eins, ba	nds pods ar	e common bel	ow 342.90m(112	ft).			4		575	1143	1153	10	0.12	0.065	<0.01	<0.05	
				342.60-34	2.90m:(	1124-1125ft	) Warped bed	ding at shallow	angle to core-					50/	1155	1103	$\frac{10}{10}$	$\frac{1.44}{1.49}$	0.048		$\frac{<0.05}{<0.05}$	
						possibly du	e to sedimen	tary load struc	tures.	+		374.90	1000		1105	11/5		1.49	0.042	0.01		~
L				354.18m: (	(1162ft)	Fault goug	e. Enveloped	by fracture zo	ne down to 354.79	+			4	595	1173	1183	10 +	0.68	0.044	<0.01	- 0.05	
						(1164 ft).			1			4								+		_
	ļ			354.79-3	58.14m:(	1164-1175f	) Sulphides	as minor string	ers & bands, much	+		$\left\{ \right\}$								<u> </u>		-
	ļ	<b> </b>				less abunda	int, only 20%	overall.				4							<u> </u>		+	-
<b> </b>	ļ			357.53-3	57.84m:(	1173-1174f	) pebbly cor	e - shear zone	·····	+		4					+-				+	-
	<b></b>			358.14-3	58.75m:(	11/5-11//f	) Massive py	rrnotite.	in groon f g -m (	<u>_</u>		4 1								1		-
	<u> </u>			358.75-30	50.88m:(	11//~11841	) Stringer s	appointly adj	in green, 1.g. m.			1										-
	<u> </u>		+			tuff. Chert	y in places	d Approx 20% r	2-3% cp. 7-8% pv.	-		4									1	_
+	<u> </u>	<b>├</b> ──-				veins - als	o chioritize	d. Approx.20% F	0,2 5% cp; F	+		1	ļ							1	1	-
<u> </u>		<u>  </u>				00%1-h:	$\frac{1}{100}$ to $\frac{1}{100}$	Of charty green	m g tuff & minor	+		1		596	1183	1196	13	0.18	0.049	<0.01	<0.05	
360.88	374.90	<u>263%</u>	<u>1938</u>	Massive Sulp	hides.	>90% sulphi	aes with 51	of zone with 5%	py & 5-10% cp. Cp	+		-	Ì	597	1196	1206	10	2.11	0.072	<0.01	<0.05	
(1184	230)	+	+	in voinlike	etringe	rs & often	forming selv	ages to gtz. ve	ins.	1		1		598	1206	1216	10	2.33	0.080	<0.01	<0.05	
		┝──┤		364 69m · (	1196 5f	t) Abundant	stilpnomela	ne with py.		1		1		599	1216	1226	10	1.82	0.057	<0.01	<0.05	
<u>}</u>	+	┞──┤		366.06m &	367.28	m:(1201 ft	& 1205 ft) A	bundant cp in p	o stringers + qtz.	1		]								· · · · · · · · · · · · · · · · · · ·		_
t	<u> </u>	┝──┼	-+	368.66m: (	1209.5f	t) Massive	py vein.			1		]							ļ	<b></b>	4	
<b> </b>	<u> </u>	┝──┦		368 96m (	1210 5f	t) "		bundant cp in s	tringers.			]							ļ			
<u> </u>	1	┝╼╾┽	+	372,92-37	3.84m:(	<u>-/</u> 1223.5-1226	.5ft) Cherty	light grey-gre	en aphanitic tuff.										<b></b>	·		
			+		<u>,,,,,,,(</u>							]								ļ	-	
·	1		-+					<u></u>						L					į	<u> </u>		
	1	┝╌╶╁	-+											ļ					<u> </u>	- <u> </u>		
	1										·····				ļ				ļ	- <u> </u>		
	1														l				<u> </u>	+		_
		<b>├</b>						والمحصود التنابي ويسهد ومحمد فيعتمانهم والمحمول و		1		1	1	1	1 I		1		1	1	1	

				1	Inclination	Bearing	PROPERTY			Length							HOL	LE No:	12-82		Poge#	11 of 12
DRILL	HOL	E KI		Coller			Location	· · · · · · · · · · · · · · · · · · ·		Hor. Com	np.		/ Vert	I. Cor	np.		She	et	of			
_							Elevation			Bearing							Log	aed by				
FALCONBRID	GE LIM	ITED					Coordinates		N	Beaun		/	/Conc	deted			Sam	pied by				<u></u>
									E	Core si	ze	/	Reco	overy		%	Dri	lier				
DEPTH	l in metres	RECOVY			DESCR	PTION			INTE	RSECTION	GF	RAPH	110	S	AMP	LES		4	SSAYS		OZ	/ton
FROM	(ft.) TO	RODICOre								ANGLE		1:500		No.	From	To	Ft	Cu%	<u> </u>	Zn%	Ag	Au
374.9	0 390 1/	12607290	Stringer su	Inhides w	with occ semi	-massive se	ctions in mixed che	rty tuffs.			374.90	JS.	,	600	1226	1236	10	2.53	0.046	< 0.01	<0.05	0.015
1230	280)	1.00/2.50	chloritic ti	uffs & ch	verty argilli	te. Sulphide	es erratically dist	ributed in			13/7.10	2		601	1236	1246	10	0.90	0.025	<0_01	<0.05	0.002
		+	stringers.	veins & m	nassive bands	. Mostly po	with subordinate p	у, ср.	1		1		-	602	1246	1256	10	0.52	0.022	<0.01	<0.05	40.002
	1	†	374.90-3	79.48m:(1	230-1245ft)C	herty green	aphanitic tuff wit	h po.pv string	ers.		1		1	603	1256	1266	10	0.54	0.016	⊲0.01	<0.05	0.002
	+	++	379.48-3	83.13m:(1	1245-1257ft)	Cherty dark	green to black arg	illite or tuff	Con	tact at	1		-	604	1266	1276	10	1.56	0.024	<0.01	<0.05	0.002
1		++	<u> </u>		Po.pv in stri	ngers.Cp ve	ins from 379.48-379	.78(1245-1246	386	.64m=40°	1			1								
	-	++		f	Et) & 380.09-	380.39m(124)	7-1248ft).	· · · · · · · · · · · · · · · · · · ·			390.14											
1		+	383.13-3	86.49m:(]	1257-1268ft)	As 374.90-3	379.48m with minor	magnetite vein	16		1		BQ									
	1	+ +	386.49-3	86.64m:(1	1268-1268.5ft	) Massive p	o, f.g. cp, some ch	erty black	1		1		1									
f		+			argillite nod	lules or con	cretions(concentric	laminae).														
	1	4	386.64-3	87.10m:()	1268.5-1270ft	) grev-gree	n m.g. crystal? tuf	f with sider-	1	····	- F~		F				- 1					
		+			ite veins.				<u>†</u>		1											-+
			387.10-3	88.32m:()	1270-1274ft	Cherty apha	nitic argillite wit	h stringer po	<u> </u>		1			+		-	-+				+	
	+	+			+ cp.	<u> </u>		ourser fo	1		1		F								1	
}	+	╂╌╌┨╴╌┥	388, 32-3	90.14m:(	1274 - 1280 ft	Semi-massiv	e po with massive h	oands in cherty	<u>,</u>		1								<u>†</u>			
	+	╂╼╍╂╼╌┥			tuff, some po	ortions less	cherty-more chlori	itic. Cp vein-	1		1											+
	+	++			lets observed	d. Also magn	etite. gtz & sideri	ite veins. Some	ŧ		415.14		-1								+	+
	+	╋╌┼╌┤			f.g. dissem	<u>, in no.</u>					1	E.Q.H	1-		†				· · ·		+	
		┼╌╌┥──┤			1.000	opp					1		1-	+							<b></b>	+
390.1	4 415.14	41% 95%	Grev to blac	ck argill	lites with si	licified che	erty sections Stri	nger & dissem.			1		_	605	1276	1286	10	1.24	0.020	<0.01	<0.05	0.002
(1280	1362)		sulphides so	cattered	irregularly	throughout	Mostly no with min	or ny & verv	Band	ing at	1		- -	606	1286	1296	10	0.27	<0.005	<0.01	<0.05	0.002
(1200	1302)		irreg scatt	tered str	ringers & ble	be of cp A	rgillites are well	bedded moder-	392	89m=60°	1			607	1296	1306	10	0.21	<0.005	<0.01	<0.05	0.002
	+	++	ately schist	tose in r	parts. Colour	varies from	n grav (silicified	zones) to	Bedd	ing=57°	1										T	
	+	┼──┼──┤	black.	<u></u>					Foli	ation =	1										1	+
		+-+-+	390 14-30	91 67m · (1	280-1285ft)	Very light	ray silicified che	rty zone be-	56°	in oppo-	1										1	+
	1	╄╍╌╄╾╌╉		<u>۲) ۱۰۰/۱۰</u>	coming less c	herty & dark	ver with denth.	LLY ZONE DE	site	sense	1		+-								1	+
	1		396.85:(1	1302ft) 5	ocm wide po b	and.	<u> </u>	· · · · · · · · · · · · · · · · · · ·	to b	edding.										[		
ļ	1		206 95 20	0, 75 - (1)	202-1211 555	) Chooned S	trongly fractured	black cherty	Foli	ation at				608	1306	1316	10	0.22	0.014	<0.01	<0.05	0.002
+	+	++		<u>а () а</u>	rgillite wit	h abundant w	white crystals close	elv packed.	45°	to bed-	1			609	1316	1326	10	0.12	0.008	<0.01	<0.05	0.002
	1	++		N	lumerous magn	etite veins	& pods. also sider	ite.gtz & occ	ding	@396.24	m		-	610	1326	1336	10	0.15	0.008	0.02	<0.05	0 002
	<u> </u>	<b>├</b> ── <b>├</b>	<u></u>		vosum veins.	Po as disse	em. elongate blebs	both parallel	Bedd	ing at			-	611	1336	1346	10	3.40	0.008	0.02	<0.05	0.002
	+	+++		<u>م</u>	crosscuttin	g foliation.	Chloritic slick '	n' sided shear	401.	42m=40°	1		-	612	1346	1356	10	0 10	<0.005	<0.01	<0.05	0.010
	+	<u> </u>		<u>~</u>	lanes Fault	zone or mai	ior shear at end.		402.	34m=35°	1			613	1356	1362	6	0.16	0.006	0.02	<0.05	0.002
		┠──┼──┤	399,75-4(	<u> </u>	loritic blac	k soft argil	lite or volcanic t	uff. Much po	406m	$= 40^{\circ}$	1								<u>`</u>		1	
	+	┠╾╍╋╼╼╉		i	in veins.						1										1	
	+		402.18m:	(1319.5ft	) Stretched.	boudinaged	grey f.g. beds (si	ltstone?)	408m	= 58°	1								1		1	
	1	┞╼╍╁╼╾╂	405.38-40	06.91m:(1	(330-1335ft)	Interbedded	cherty argillite &	chloritized	Foli	ation at				+				·····			1	
	1	<u>├</u> ┼		+	tuffs(?) Warn	bedding du	e to minor warning.	Foliation cuts	408m	= 60°			-								1	
	†	┞━─┼──┼	<u></u>		across heddin	g planes. Ni	merous co veins st	ringers.	in o	pposite			-						<del> </del> -		1	+
	<u> </u>	┝╌┼╾┼	406.91-40	07.82m:(1	1335-1338f+)	Semi massiv	e(50%) po + minor	cp(3-5%)	sens	e to			F		†						1	1
	1	┟╌╴╂╌╌╁		(	Cherty & chlo	ritized host	t rock, some atz-sid	lerite veins.	bedd	ling.					t						T	11
	1	┝╌┼╌┽			Typsum in fra	ctures									†				1		1	11
	+	┝╍╴╁╌╸╀			-, -, -, -, -, -, -, -, -, -, -, -, -, -										+						I	1 1
·	ł ·	┝╼╾╋╼╾┥	·····				<u> </u>											· · · · · · · · · · · · · · · · · · ·				

					Inclination	Bearing	PROPERTY		Length						HOL	£
DRIL		EH	ECORD	Collor	+		Location	-	Hor. Com	p	/ Ve	ert. Co	mp.		Shee	t
				F			Elevation		Bearing						Loga	2
FALCON	NBRIDGE LIM	ITED					Coordinates	N	Begun		/Cor	rolete	d		Some	21
								Ε	Core siz	e	/Re	cover	У	%	Drill	e
	DEPTH in metres	RECOV	·'Y		DESCR	RIPTION		INT	ERSECTION	GRA	рніс	;	SAMP	LES		
Ĺ		ROD	H						ANGLE	1:500		No.	From	To	Ft	
Γ	390.14 415.14		CONTINUED FR	ROM PREVI	LOUS PAGE											_
Γ		1-1-	407.82-40	08.89m:()	1338-1341ft)	Chloritized	bedded tuffs. Elongate po blebs	T		!!						_
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APPENDIX B

Photos



Photo 1-82 Base Camp - Tats Lake



Photo 2-82 View of Windy-Craggy Mountain looking North. Tats Glacier in foreground.



Photo 3-82 Close up view of South face of Windy Craggy Mountain showing Holes 9-82, 11-82 and footwall stratigraphy.



Photo 4-82 Setting up Longyear 44 at site of DDH 11-82, Section I'I', July, 1982 (view towards east)



Photo 5-82 View to NNE showing drill site and Fly-38 rig DDH 12-82. Section M-M'.



Photo 6-82 Telephoto view of Tweedsmuir Glacier, looking west from DDH 12-82.



Photo 7-82 Mapping "footwall" volcanics, metasediments, south face of Windy Craggy ridge. Tats Glacier in background.



Photo 8-82 Minor fold structure in footwall metasediments, south face of Windy Craggy ridge.

#### APPENDIX C

# 1982 Programme Cost Analysis, PN 052

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## 1982 PROGRAMME COST ANALYSIS - PN 052

## 70501 Diamond Drilling

#### 001 Salaries

Month	Ĩ	Personnel	Time	Activities Total
		Di	stributi	Lon
Jan.	J.	McDougall	85%	1981 Programme Report, Assessment Report
	I.	King	308	Typing for above
	Ρ.	Seale	50%	Typing for above
	G.	Thomassen	908	Drafting for above
				\$8,710.25*
Feb.	No	charges		nil
Mar.	т.	Chandler	20%	Windy Craggy Summary Report
	J.	Gammon	12.5%	Windy Craggy Summary Report
	J.	McDougall	20%	Tats, Kowall Option Reports
	G.	Thomassen	15%	Drafting for above Reports
				see below
Apr.	т.	Chandler	10%	Windy Craggy Summary Report
	J.	Gammon	7.5%	Windy Craggy Summary Report
	G.	Thomassen	2.58	Drafting for above
				see below
Мау	Τ.	Chandler		Windy Craggy Report; Claim status, Assess. Report
	G.	Thomassen	15%	Drafting for above
	Ρ.	Andexer	458	Drafting, field supply organization
	Ρ.	Seale	10%	Typing
		- Combine	d total M	March, April, May 7,342.30*
June	т.	Chandler	90%	Drill/Helicopter contract tenders and
	J.	Gammon	15%	negotiations. Windy Craggy. Claim status research, WC Assessment
	C	Thomasson	358	Drafting Field Preparations.
	Р.	Andexer	40%	Drafting, Field Preparations.
	Р.	Seale	25%	Typing.
			-	6,965.35

### 001 Salaries cont.

Month	Ī	Personnel	<u>Time</u> Distribution	Activities	Total
July	т.	Chandler	858	Project supervision, Field work	
	Ρ.	Andexer	57%	Field work	
	G.	Thomassen	57%	Field work	
	т.	Heah	408	Field work	
	J.	Gammon	20%	Field visits, project	
				management	
	J.	McDougall	20%	Field visits	
	Ρ.	Seale	20%	Typing progress report	s,
				Drill logs	
					8,825.16
Aug.	т.	Chandler	878	Project supervision, Field work	
	G.	Thomassen	82%	Field work	
	Ρ.	Andexer	848	Field work	
	т.	Heah	82%	Field work	
	J.	McDougall	25%	Field visits, Project	
				supervision	
	J.	Gammon	15%	Field visits, Project	
			_	management	
	J.	Hugi	20%	Transport of core to Delta	
	J.	Wilson	5%	Assessing snow/ice	
	J.	Oliver	5%	line and safety path	
	Ρ.	Seale	358	Drill Log, progress	
				report typing. Drafti preliminary drill sect	ing zions
					15,134,63
					10,10,100
Sept.	т.	Chandler	85%	Collation of field dat Map and section drafts Drill logs, Assessment	:a, ;, -
				Report	-
	G.	Thomassen	100%	Drafting	
	Р.	Andexer	408	Storage and organizati	Lon
			- • •	of drill core, Delta	
	т.	Heah	15%	Data collation, storag	Je
				and organization of	
				drill core	
	Ρ.	Seale	10%	Typing	
					7,807.37

# 001 <u>Salaries cont.</u>

Month	Per	sonn	el <u>I</u> Dist	<u>ime</u> ributi	on	<u>Activities</u>	Total
Oct.	т.	Chan	dler	70%	7	Assessment report, m drafts, core samplin for cobalt studies,	ap g
	G. P.	Thom Ande	assen xer	50% 60%	ر {	visitors Drafting, copying Drafting, copying, colouring, report	
	т.	Heah		45%	1	Core sample selectio cobalt & thin sectio	n n
	Ρ.	Seal	e	15%		Typing	6,340.52
TOTAL SA	ALAF	RIES	JANUARY	то ост	OBER	1982	\$61,125.58
	120	Tra	velling	and Ex	pens	es	
A) <u>Air</u> Pers	Tra	vel nel:	- To and C. Nile P. Ande J. McDo	l From es, T. exer, T ougall	Proj Heah . Ch	ect , G. Thomassen, andler, J. Gammon,	3,420.21
B) Hote Demo tra:	els, obi nspo	Fie Lizat	ld Exper ion. Inc	lises:	Mobi fuel	lization and costs for Local	3,833.71
TOTAL T	RAVI	ELLIN	IG AND EX	KPENSES	JAN	UARY TO OCTOBER/82	\$7,253.92
	600	Con	itract Pa	ayments	<u>5</u>		
Per	iod		Contra	actor		Services	
Feb,Mar	ch,/	Apr	G. A. 1	loel	D P	. Hoy-reports on 1981 rogramme	6,903.05*
Mar	ch		Alaska Trading	-Yukon J	B D	ulldozing strip, ezadeash Lake for Mar	rch
July,Au Auqu	gus <sup>.</sup> st	t	Longyea Underh:	ar ill and		egal Claim Post	215,825.88
۰۰ ر			Underh	i11	S	urvey	1,857.28
TOTAL C	ONTI	RACT	PAYMENTS	5 JANUA	ARY T	O OCTOBER 1982	\$ <u>225,786.21</u>

### 604 Field Expenses

Period	Supply/Service Description	Remarks	Total
JanJuly	JD450 Tractor rental	Incurred expense - 1981 Programme	12,000.00*
January January	Core Racks Propane	1981 cylinder return credit	(303.20)*
January JanMar.	J. Hugi, field expenses Office supplies,	1981 Camp close-up J. J. McDougall/	137.57*
MarJune	Office supplies,	J.B.Gammon/T.Chandle	1,087.73* er
MarApr.	Fuel supplies.	summary report on Windy Craggy. Fuel Haul to	449.96*
1102 • 11-22 •	Transport Fuels	Tats Lake Adjustments for	56,911.50
May-June	Field equipment, drafting/office	1981 cnarges '82 field season supplies	12,330.43"
Мау	supplies, safety gear Overhaul of Survey	Field season	757.74
May June	Transit Radio Licences 2040 ft. of 2" pipe-	Drill Water-line	120.00
July	line and couplings Fuel costs	extensions Adjustment on 1981	2,901.01
July	Drill Mud, Soda Ash, Kwik Seal	Drill supplies	3,344.52
June-July	Vehicle Rentals	Mobilization/ Assessment Filing	1,095.48
July-Auq.	Air North Float	hours Personnel/supply	54,646.62
	Plane Charters	flights (parts, drill supplies, groceries)	9,937.11
June-Aug.	Helicopters Hughes 500D	changes, visits, comm cations. 99.8 hrs Mobilization, supply	ves, uni- /
		parts flights. 32.4 hrs. Demobiliz of drill personnel gear, empty fuel dru	ation and ms,
		camp demob and Ferr flight. 19.1 hrs D drill core. 14.6 hr	y emob. s.
		Posts Total 360.8 hrs.	136,439.56

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#### 604 Field Expenses cont.

Period	Supply/Service Description	Remarks	Total
July-Aug.	Supplementary Fuel Supply White Pass/ Diemert Dist.	E.R.A. Helicopter Fuel for mobilizatio demobilization fuel	on & 15,540.10
August	Local Vehicle Rentals	s Supply trips/fuel hauls & return of empty duel drums to	
August	Fuel Credits	Whitehorse Return of empty drums	2,623.10 (20,908.00)
July-Aug.	Bags of mud, soda ash, poly drill,	Drilling supplies	
July-Sept.	Expediting Services Communications	Radio telephone	9,428.03
T.1.1. D.1.~	Vobialo Pontala	courier charges	422.51
July-Aug.	venicie kentais	transport of core to Delta office	5,820.60
June-Sept.	Vehicle Fuel Bills	Mob, demob, local supply trips, core transport, fuel hau	ls
July-Aug.	Field Equipment	etc. Ropes, climbing gea: ice axes, clamps mi for securing Hole 1	2,043.62 r, sc 2
	Office Courties	path.	772.66
AugOct.	Reproduction Costs	Field Maps/sections	488.41
July-Sept.	Field Expenses	Hotels, meals, misc supplies	822.13
September	Transport Charges	Return of JD450 Cat to Vancouver	1,971.92*
TOTAL FIELD	EXPENSES JANUARY TO	OCTOBER 1982	\$312,767,01

#### 608 <u>Assays</u>

January	anuary General Credit from 1981 Accrual	
FebMar.	Min-Fn - Acme Charges (JJM check assay report, 1981 Assays)	2,045.72*
July-Oct.	7,065.00	
TOTAL ASSAY	S JANUARY TO OCTOBER 1982	\$4,110.72

#### 71001 Camp Operation

001 Salaries

Camp set-up, mobilization June J. Hugi 55% of field supplies to camp. J. Hugi jr. 55% Camp set-up, mobilization of field supplies to camp. 2,482.17 July J. Hugi Camp Maintenance & operation 50% Camp Mainten. & operation 2,555.13 J. Hugi jr. 95% TOTAL SALARIES JANUARY TO OCTOBER 1982 \$5,037.30

616 Camp Supplies

Period	Item/Supply Category	Remarks	Total		
February	Air North Charter flight	1981 Bill out- standing	349.12*		
MarApr.	Stove oil	Spring Fuel haul	2,780.16		
June-Sept	Camp Equipment	Cots, tools, bags, building materials			
		First aid supplies	2 247 20		
June-Sent	Propane, naptha	Camp operation	. 2,247.20		
oune bepe	gasoline	fuel	1,738.06		
June-Sept	Misc. Supplies,	-			
<b>_</b> _	vehicle fuel, food		766.02		
June-Sept	Communications	Radio licences,			
		radio telephone			
		charges, Radio	1 ()( 70		
		Rental	1,626./0		
Tune Comb	(incl. /36.00 inc	Gregories gamp	o relay links)*		
June-Sept	flights	supplies, camp	1 978 00		
June-Sent	Equipment Rental	FL camp equipment	1,970.00		
oune bepe	Charges	in camp carpione	7,290,00		
June-Sept June-Sept	Longyear Board Charges Cook's wages, grocery	\$18.00/man-day	4,428.00		
-	charges		2,248.61		
TOTAL CAME	SUPPLIES JANUARY TO OCTO	BER 1982 \$	25,451.87		

#### 620 Hotels & Meals

June/July Dezadeash Lodge & minor misc. expenses \$4,193.93

TOTAL PN 052 CHARGES JANUARY TO OCTOBER 1982 \$645,726.54 (Excluding Property Maintenance)

 \* 1981 Programme outstanding bills, expenses, accruals etc. Total \$49,025.85 including cost of reports on 1981 programme. Does not include proportionate cost of helicopter demobilization of FLY 38 rig & JD450 tractor from site.

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EXPERION PRIOR YEARS — 5 Foreiast Current Year — 5 Geographie Escation 001 Sci	EXPLORATION PROJEC July 31 \$	T STATEMENT AUG. 31 1	- 1932 TO DAT SEPT 30 S	PROJECT NU E NAME ALSE UCT•31 p	UMBER 052 -01 K/GEDDES PESDUA NOV• 30 \$	CES LTD Dec• 31 \$
701 GENEPAL & JEDLOGY - 001 SALARIES - 120 TRAVELLING & EXPENSES - 500 CUNTRAUT PAYMENTS - 504 FIELD EXPENSES	1,357.78 495.89	495.59	1,357.28	1.50		
- 503 ASSAYS	120.00	12.3•03	129.30			
TUTAL	2,003.67	515.69	1,978.78	121.50		
<ul> <li>TO2 GEUPHYSICS <ul> <li>OOI SALARIES</li> <li>I20 TRAVELLING &amp; EXPENSES</li> <li>500 CUNTRACT PAYMENTS</li> <li>504 FIELD EXPENSES</li> <li>TOTAL</li> </ul> </li> <li>TOTAL <ul> <li>TOTAL</li> </ul> </li> <li>TO3 GEUCHEMISTRY <ul> <li>OOI SALARIES</li> <li>I20 TRAVELLING &amp; EXPENSES</li> <li>SGD CONTRACT PAYMENTS</li> <li>SGD CONTRACT PAYMENTS</li> <li>SGD CONTRACT PAYMENTS</li> <li>SGD ASSAYS</li> </ul> </li> </ul>						
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705 DIAMONO DRILLING - JOI SALARIES - 120 TRAVELLING & EXPENSES - 50J CONTRACT PAYMENTS - 50+ FIELD EXPENSES - 503 ASSAYS	31,843.06 549.23 120,390.90 212,130.52 (1,354.23)	40,977.69 3,795.47 227,485.73 207,560.44 (1,487.78)	54 •7 35 •05 5 •2 20 •41 2 23 •4 93 • 33 3 13 •4 39 • 0 3 4 •0 44 • 72	61,125.58 7,007.17 225,350.01 314,521.47 4,110.72	5/8. 312,549.55	
TJTAL	303,559.43	544,531.55	602 .032 .55	612,115.55		
710 CAMP UPERAFION - 051 SALARIES - 616 CAMP SUPPLIES - 620 HUTELS & 4EALS	5,037,30 11,589,35 14,00	5+037+30 16++45+82 4+193+93	5 •0 37 • 30 24 • 207 • 63 4 • 1 73 • 9 3	5,037.30 26,505.70 4,193.93	s/a 25,352.77	
TITAL	16,640.55	25,577.05	33 • 4 38 • 86	25,736.93		
720METALLURGY & MINERALOGY725FEASIBILITY STUDIES730OPTION PAYMENTS & PARTIC741PROPERTY MAINTENANCE750ORAUGHTING755REGIONAL OFFICE EXPENSES763OTHER EXPENSES	1,041.30	7 •4 51 •3 3	4 •981 • 30	4,891.30		
790 PARTICIPANTS SHARE 790 PARTICIPANTS SHARE FERENE FERENE PROJECT TOTAL	(383+245.05) ==========	(573,405.7))	(642,331.49) ====================================	(552,355.28) ============	-5/B. 649 730,43	*******
COULDE FUIRE						

