APPENDICES 9, 10 AND 11 OF THE

GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL AND

DRILLING REPORT

ON THE ISKUT JOINT VENTURE PROPERTY

NTS 104B/11
Latitude: 56° - 42' N
Longitude: 131° - 05' W
Liard Mining Division, British Columbia

Prepared for:

THE ISKUT JOINT VENTURE
(Prime Resources Group Inc., American Ore Ltd.
and Golden Band Resources Inc.)
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APPENDIX 9

Investigations of Previous Soil Anomalies (Southwest Grid) and Test Pit Descriptions

TABLE 7: Investigations of Previous Soil Anomalies Investigations (Southwest Grid) and Test Pit Descriptions

Location Grid Coordinates (1987)	(1990)	Previous Result 1987 ppb Au/ppm Cu	Remarks
L10N/21+25E	7+00S/22+00E	278/39	Mini grid of nine soils established 50 m east, upslope; no significant Au (1-20 ppb) or Cu (25-69 ppm) results. One float of sugary quartz returned 3 ppb Au and 57 ppm Cu. Abundant quartz vein float noted in soil holes, possible source(?).
L10N/25+50E	6+80S/25+75E	6/330	Northeast trending mineralized shear, 2 x 5 m exposed at site with 10% pyrite, 1% pyrrhotite, trace chalcopyrite, is possible source (rock 90Y-031R-003: 56 ppb Au and 603 ppm Cu). One soil and one silt collected in vicinity anomalous in Cu (431 and 325 ppm respectively).
L11N/24+75E	5+85S/25+10E	232/280	Siliceous metasediment with 10-15% pyrite (rock 90Y031R-007: 81 ppb Au and 284 ppm Cu) collected at presumed anomaly. Soil collected adjacent to outcrop returned 32 ppb Au and 471 ppm Cu.
L12N/22+00E	5+00S/22+25E	16/380	One soil sample collected at presumed anomaly returned 7 ppb Au and 43 ppm Cu. Quartz vein float noted in the B horizon possible source(?).
L12N/24+75E	4+80S/25+10E	20/260	One soil sample collected at presumed anomaly returned 22 ppb Au and 260 ppm Cu. No outcrop noted in the vicinity. Anomaly source undetermined.
L12+23N/ 20+35E	4+75S/21+00E	84/--	No new samples collected. No outcrop in immediate vicinity. Lack of grid control. General area prospected. Anomaly source undetermined.
L12N/27+00E L12+50N/-26+75E	4+35S/27+00E 3+95S/26+65E	54/600 100/--	Mini-grid of nine soils established, centred between anomalies. Four soils returned anomalous copper values (297 to 328 ppm Cu). No significant gold reported (1-30 ppb). Grab of metasediment with 5% disseminated pyrite enhanced in Au (362 ppb) and Cu (468 ppm). Area is within 25 m of ESE trending contact between orthoclase porphyry and metasediments. Anomaly source appears contact related.

TABLE 7: Investigations of Previous Soil Anomalies Investigations (Southwest Grid) and Test Pit Descriptions			
Location Grid Coordinates (1987)	**(1990)**	**Previous Result 1987 ppb Au/ppm Cu**	**Remarks**
L13N/23+50E	3+84S/23+80E	24/270	Two soils collected (18 and 8 ppb Au and 39 and 66 ppm Cu) within 10 m of L13N/23+75E. Mineralized (10% Py) metasediment float in B horizon possible anomaly source(?). Float source undetermined.
L13N/23+75E	3+90S/24+00E	116/210	
L12+98N/ 22+15E	3+85S/22+63E	1640/--	Mini-grid consisting of ten soils established to cover anomalies. Two soils anomalous in Au and Cu (226 ppb/345 ppm and 88 ppb/179 ppm). Two others anomalous in Cu only (1093 and 246 ppm). No rock samples collected, limited exposures of altered metasediment in general area. Anomaly source undetermined.
L12+92N/ 22+40E	3+90S/22+85E	204/--	
L13N/26+00E	3+33S/26+04E	506/540	Mineralized phyllitic metasediment with 8% pyrite and 1-2% chalcopyrite, from test pit located 12 m southeast of L13N/26+00E, anomalous in copper (448 ppm with 30 ppb Au). Of thirteen soils and one silt collected in the area, all but two elevated or anomalous in copper (104 to 995 ppm). Gold values 2-64 ppb. Mini soil grid crosses presumed NW trending intrusive contact.
L13N/26+25E	3+33S/26+29E	12/230	
L13N/27+00E	3+28S/26+91E	8/240	One soil sample collected 25 m west (downslope) from presumed anomaly returned 2 ppb Au and 1301 ppm Cu. One soil collected 45 m north (cross-slope) returned 103 ppb Au and 401 ppm Cu. Samples collected between two significant WSW flowing creeks separated by approximately 60 m; possible physiographic expressions of underlying shears.
L14N/19+00E	3+20S/19+75S	42/270	One soil sample collected 25 m east of presumed anomaly returned 3 ppb Au and 116 ppm Cu, taken from swampy creek bank. Anomaly source undetermined.

TABLE 7: Investigations of Previous Soil Anomalies Investigations (Southwest Grid) and Test Pit Descriptions

Location Grid Coordinates (1987)	(1990)	Previous Result 1987 ppb Au/ppm Cu	Remarks
L14N/22+75E L14N/23+00E L14N/23+25E L14N/23+50E	3+03S/23+00E 3+02S/23+22E 3+02S/23+44E 3+01S/23+69E	20/940 4/260 52/240 68/162	Soil sample collected in immediate vicinity of L14N/23+00E returned 10 ppb Au and 344 ppm Cu. Soil collected 22 m due east (upslope) returned 54 ppb Au and 442 ppm Cu. From creek bed, approximately 15 m to the north, float of schistose metasediment with up to 15% pyrite, 1% chalcopyrite returned 56 ppb Au and 984 ppm Cu. Area located near soil anomalies. Source of mineralized metasediment float undetermined.
L14N/21+75E	3+05S/22+10E	162/1020	Two grabs and one float sample collected 40 m west, downslope, of assumed anomaly. All returned enhanced Cu (439, 450 and 1198 ppm) with negligible Au (28, 24 and 33 ppb respectively) from metasediments with 7-10% pyrite as fracture fillings and veinlets. Mineralized metasediment extent undetermined.
L14N/23+75E	2+88S/23+90E	506/570	Single soil collected 35 m east of anomaly returned 4 ppb Au and 246 ppm Cu. Schistose quartz flooded metasediment float (8% pyrite fracture fillings), located 35 m west, downslope, in gully, returned 56 ppb Au and 984 ppm Cu. Source of mineralized float believed to be 125 m east, upslope, in vicinity of L14N/-25+50E (location of 50 ppb Au and 1190 ppm Cu soil anomaly - next page).
L14N/26+75E	2+80S/26+64E	2/540	50 m to the southeast, mylonitic orthoclase porphyry with 6% pyrite is present. Rock collected there returned 74 ppb Au and 99 ppm Cu. Anomaly source undetermined.

TABLE 7: Investigations of Previous Soil Anomalies Investigations (Southwest Grid) and Test Pit Descriptions			
Location Grid Coordinates (1987)	**(1990)**	**Previous Result 1987 ppb Au/ppm Cu**	**Remarks**
L14N/25+50E L14N/25+75E L14N/26+00E	2+80S/25+50E 2+80S/25+75E 2+80S/26+00E	50/1190 40/900 22/530	No new soils collected. One grab and two float samples of mineralized metasediments with 8% pyrite, up to 2% chalcopyrite, were collected 10 m south of L14N/25+50E, 25 m west of intrusive contact; quartz vein float with 3-5% pyrite, 1% chalcopyrite ran 7 ppb Au and 452 ppm Cu; schistose metasediment float with 10-15% pyrite, 1-2% chalcopyrite ran 38 ppb Au and 857 ppm Cu; and siliceous metasediment with 10-15% pyrite, 1% chalcopyrite ran 28 ppb Au and 1405 ppm Cu. Anomaly possibly related to potential splay structure off north-south trending intrusive contact with metasediments proximal to L14N/25+75E.
L14N/26+75E L14N/27+00E	2+80S/26+65E 2+80S/26+83E	2/540 58/142	Gneissic, mylonitic, quartz rich orthoclase porphyry float with gossanous fracture fillings and 5-10% pyrite in quartz stringers at 3+10S/27-+25E returned 74 ppb Au and 99 ppm Cu. Soil collected at L14N/26+75E anomaly site returned 2 ppb Au and 748 ppm Cu. Soil collected at L14N/27+00E anomaly site returned 103 ppb Au and 401 ppm Cu. Anomaly source undetermined.
L15N/20+00E	2+25S/20+65S	8/219	Detailed mini grid established 25 m east of anomaly site. Three of nine soils collected returned elevated or anomalous copper values (168, 287 and 319 ppm Cu). No anomalous gold values were returned. Anomaly source undetermined.
L14+75N/ 26+10E	2+20S/25+95E	200/--	A single soil sample collected 30 m northeast returned 96 ppb Au and 102 ppm Cu. Orthoclase porphyry talus noted in immediate vicinity. Area located in northern portion of a southwest trending Au anomaly. Anomaly source undetermined.

TABLE 7: Investigations of Previous Soil Anomalies Investigations (Southwest Grid) and Test Pit Descriptions

Location Grid Coordinates (1987)	(1990)	Previous Result 1987 ppb Au/ppm Cu	Remarks
L15N/23+25E	2+05S/23+60E	182/410	General area prospected. Metasediments with 5-7% pyrite as stringers and fracture fillings and trace chalcopyrite found within investigated area. Soils collected at 25 m intervals along L2+00S from 23+00E to 24+50E. All returned anomalous or elevated copper values (106 to 434 ppm) and one, at 23+25E, returned anomalous Au (650 ppb). Float collected at 2+00S/23+78E of altered orthoclase porphyry with 5-7% pyrite returned 23 ppb Au and 206 ppm Cu. Grab (2+00S/24+75E) of mylonitic orthoclase porphyry, proximal to intrusive contact, returned 67 ppb Au and 670 ppm Cu. Series of anomalous soils possibly related to potential structural splay off intrusive contact, up slope.
L15N/23+75E	2+00S/24+05E	24/240	
L15N/24+50E	1+91S/24+70E	152/540	
L15N+16/ 24+50E	1+77S/24+55E	68/--	
L15N/24+75E	1+85S/24+85S	116/530	
L15N/25+00E	1+85S/25+00E	122/290	
15+50N/- 23+75E	1+45S/23+75E	50/--	Nine soils collected from mini-grid established over anomaly. No outcrop in immediate area. Float consists of metasediments with 5-7% pyrite and trace chalcopyrite. Anomalous or elevated copper in all soils but one (26 to 710 ppm) with two soils anomalous in gold (80 and 198 ppb). Area is 75 m west, downslope of intrusive contact. Float is possible source of anomaly, float source undetermined.
15N/26+10E	1+35S/25+97E	50/--	Bedrock in immediate vicinity, consists of foliated orthoclase porphyry with minor quartz veinlets, trace pyrite and magnetite. Total of four soils collected. Three collected 50 m east, upslope from the 50 ppb Au anomaly, and one at L15N/26+75E. None anomalous in gold, however three anomalous in copper (232, 293 and 949 ppm). Trace chalcopyrite and malachite in orthoclase porphyry float from a test pit located in immediate vicinity of the 300 ppm Cu anomaly. Source of weakly mineralized float undetermined.
15N/26+75E	1+30S/26+52E	2/300	
16N/19+25E	1+45S/19+75E	54/290 (silt anomaly)	No soils collected. One float sample of metasediment with 3-5% pyrite and trace chalcopyrite returned 7 ppb Au and 454 ppm Cu; collected 70 m east of the anomaly. Anomaly source undetermined.

TABLE 7: Investigations of Previous Soil Anomalies Investigations (Southwest Grid) and Test Pit Descriptions

Location Grid Coordinates (1987)	(1990)	Previous Result 1987 ppb Au/ppm Cu	Remarks
L16N/22+08E	1+00S/22+10E	180/--	Mini-grid totalling 33 soil samples, (25 m spacings) established to cover anomalous area (50 x 250 m) which includes the metasediment intrusive contact at 1+00S/24+50E. Grid area bounded by 0+75S to 1+25S and 22+50E to 25+00E. From 23+25E to 25+00E numerous gold and copper soil anomalies verified with 1990 data. The gold anomalies concentrated between 23+50E and 24+00E (102 to 198 ppb). At 1+00S/23+75E, soil returned 138 ppb Au and 3846 ppm Cu. Between 22+50E and 23+25E, no significant gold or copper values returned. Total of 3 float and 5 grab samples collected. Gold values from 2-64 ppb, copper between 15 and 2459 ppm (0+65S/23+75E quartz vein float: 60 ppb Au and 2459 ppm Cu). Rocks west of 24+50E are sheared metasediments (locally up to 7% disseminated pyrite and 5% chalcopyrite associated with quartz veins up to 15 cm wide). East of 24+50E, orthoclase porphyry crosscut by northwest trending, east dipping quartz veins up to 1.5 m wide with 3-8% pyrite. Quartz vein grab samples returned low gold (2-64 ppb), while two samples returned elevated copper (217 and 230 ppm).
L15+95N/-22+75E	1+05S/22+75E	206/--	
L16N/22+95E	1+00S/23+00E	64/820	
L16N/23+00E	1+00S/23+05E	118/970	
L16N/23+12E	1+00S/23+25E	844/--	
L16N/23+50E	1+00S/23+50E	24/250	
L16N/23+75E	1+00S/23+75E	126/940	
L16N/24+38E	1+00S/24+46E	126/--	
L16N/24+63E	1+00S/24+64E	102/--	
16N/26+50E	0+35S/26+30E	106/22	Single point gold anomaly. One soil collected at presumed anomaly site, and three collected 20 m east upslope. No significant values returned. Trace to 1% pyrite noted in orthoclase porphyry float found in B horizon soils, possible source(?).
16+95N/-22+27E	0+05S/22+55E	70/--	Single point gold anomaly with anomalous copper values to east and west. Two mini-grids established centred at 0+05S/23+25E and 0+12.5S/23+00E. Total of 18 soils collected. No anomalous gold and one anomalous copper (206 ppm) returned. Anomaly source undetermined.

TABLE 7: Investigations of Previous Soil Anomalies Investigations (Southwest Grid) and Test Pit Descriptions

Location Grid Coordinates (1987)	(1990)	Previous Result 1987 ppb Au/ppm Cu	Remarks
L17N/25+60E	0+50N/-25+57.5E	8/230	Single point copper anomaly. Mini-grid of five soils established over presumed anomaly site. Gold values (1-40 ppb), two elevated/ anomalous in copper (188 and 468 ppm); 40 m northeast of anomaly, one grab sample of a 30 cm wide quartz vein returned 26 ppb Au and 188 ppm Cu.
L17N/18+40E L17N/20+0E	0+05N/18+90E 0+05N/20+50E	55/-- 54/260	Two distinct single point gold anomalies. Soil collected 110 m east of L17N/18+40E anomaly site, returned 146 ppb Au and 827 ppm Cu. Two other soils collected 5 m north and 25 m north of the other anomaly site returned 39 ppb Au and 145 ppm Cu, and 6 ppb Au and 172 ppb Au respectively. Bedrock exposed 75 m northeast of L17N/20+00E consists of metasediments with "minor" chalcopyrite and pyrite, returned 44 ppb Au and 882 ppm Cu (possible anomaly source).
L17+95N/-21+33E	0+95N/21+60E	50/--	Old sample presumed located in dry creek bed containing pyrite and chalcopyrite mineralized orthoclase porphyry and metasediment float. Three soils collected within 40 m of anomaly all elevated or anomalous in copper (115, 227 and 362 ppm) but not gold (4, 12 and 31 ppb). Of the four mineralized metasediment grabs (up to 25% pyrite ± chalcopyrite) collected within 50 m of anomaly, two elevated in gold (56 and 57 ppb) and all elevated or anomalous in copper (218, 714, 882 and 1210 ppm).
L18N/22+75E	0+90N/22+75E	26/250	Single point copper anomaly. Two soils collected, one 15 m west of presumed anomaly site (44 ppb Au and 187 ppm Cu) and one 15 m south-southeast, upslope (29 ppb Au and 496 ppm Cu). Two grabs and one float of gossanous "sulphide rich" (up to 25% combined pyrite ± chalcopyrite and possible trace arsenopyrite) metasediment (altered volcanic?) 15-20 m southwest of anomaly. All elevated or anomalous in copper (grabs 1061, 2478 ppm and float 734 ppm) and low in gold (grabs 25, 40 ppb and float 22 ppb).

TABLE 7: Investigations of Previous Soil Anomalies Investigations (Southwest Grid) and Test Pit Descriptions

Location Grid Coordinates (1987)	(1990)	Previous Result 1987 ppb Au/ppm Cu	Remarks
L18N/23+75E	0+85N/23+80E	88/480	One orthoclase porphyry float (11 ppb Au and 36 ppm Cu) and one soil (4 ppb Au and 89 ppm Cu) collected approximately 35 m SW of assumed anomaly. Anomaly source undetermined.
L18N/24+25E	0+90N/24+25E	202/172	Two soils and two rocks collected within 20 m of the assumed anomaly. No anomalous values returned. Rocks are orthoclase porphyry with up to 3-8% pyrite. Anomaly source undetermined.
L18N/26+75E	1+50N/26+50E	194/290	Mini-grid of eight soils established over assumed anomaly. Two samples located 25 m north, anomalous in gold (90 and 210 ppb). Sample over presumed anomaly site elevated in copper (141 ppm). Rocks in area are orthoclase porphyry with up to 2-3% pyrite. Anomaly source undetermined.
L19N/25+50E	1+90N/25+24E	104/109	Mini-grid of nine soils established over presumed anomaly. One sample anomalous in gold and elevated in copper (77 ppb Au and 151 ppm Cu), one anomalous in gold (69 ppb), and one elevated in copper (135 ppm). Anomaly source undetermined.
L20N/24+75E	2+90N/24+69E	6/250 15/146 (duplicate result, 1990)	One rock sample collected approximately 12 m southwest, downslope, of anomaly did not return significant values. Two soils collected, one from previous anomaly site and one 15 m east, upslope of previous anomaly (42 ppb Au and 28 ppm Cu). Anomaly source undetermined.
L20N/25+25E	2+90N/-25+14.5E	156/460 2/29 (duplicate result, 1990)	Previous sample collected on moss covered talus slope of orthoclase porphyry (up to 3% pyrite) and metasediments. Anomaly site proximal (within 40 m) to intrusive contact. Mini-grid of eight soils established, over previous anomaly. No significant values returned. Mineralized orthoclase porphyry talus float possible anomaly source. Float source undetermined.

ISKUT J.V PROJECT

PREVIOUS SOIL ANOMALY (Cu, Au) - 90 INVESTIGATION
Element(s) Year

1) **Location:** (1987) L10N/21+75E (Was looking for L10N/21+25E, 278ppb Au anomaly)
(1990) 7+00S/22+00E (inferred location no 1990 GRID TIE-INS)

2) **Previous Value(s):** 18 ppb Au, 70ppm Cu, (50M west, 278 ppb Au, 39 ppm Cu)

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 20/90

5) **Investigator(s):** TRAVIS/NOVAK

The grid established was intended to cover the 278ppb Au anomaly, but due to the lack of tie in data at the time, it was put in 50m to far east.

6) **Description of Previous Sample Collected:**

it appears that sample may have been a poor one, hole appears to be shallow, sample may have been a mixture of A horizon and ash?

7) **Description of New Sample:**

A detailed grid was establish around anomalous site. Generally a B horizon at ~40cm depth, an orange brown soil was sampled. An ash layer was also noted at some locations at ~15cm depth.

8) **Description of Topography:**

Generally a 25° slope westward of moss covered and heavily timbered areas.

9) **Results of Investigation:**

No outcrop was found in the immediate area of the detailed grid. Abundant quartz vein float though was found in soil sample holes. One rock sample (90TO31R-009) was taken of sugary, milky white quartz vein float. An ash horizon was noted in the soil holes (see TEST PIT)

10) **Conclusions:**

Quartz vein float which was found in new soil sample holes could possible account for anomalous values. The previous soil sample may have also been a poor one.

C.K
D.O.

IGKUT J.V PROJECT

PREVIOUS SOIL ANOMALY (Cu) - 1990 INVESTIGATION
Element(s) Year

1) **Location:** 6+80S 25+75E (1990), L10N/25+50E (1987)

2) **Previous Value(s):** 330 ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** 10/20/90

5) **Investigator(s):** C.K / P.D

6) **Description of Previous Sample Collected:**
old site not found, grid (1987) degenerated.

7) **Description of New Sample:** 5cm ash in A-horizon
B-horizon
60silt 30sand 10clay

8) **Description of Topography:**
30° NE slope
heavily wooded

9) **Results of Investigation:**
no bedrock found @ 80cm
resample

10) **Conclusions:**
no bedrock I.D.C
resampled to see if previous result can be duplicated

C.K
P.D

Lakut J.V PROJECT

PREVIOUS SOIL ANOMALY (Au/Cu - 1990 **INVESTIGATION**
Element(s) Year

1) **Location:** 5+85 S 25+10E (1990), L11 N/24+75 E (1987)

2) **Previous Value(s):** 280 ppm Cu 232 Au-silt

3) **Year Collected:** 1987

4) **Date of Investigation:** 21/10/90

5) **Investigator(s):** C.K / P.D.

6) **Description of Previous Sample Collected:**

old site not located; 1987 grid degenerated

7) **Description of New Sample:**

Soil - 50 silt 40 sand 10 clay
Rock - sediments 10% py
silt - 40 silt 40 gravel 20 sand

8) **Description of Topography:**

25° E slope

9) **Results of Investigation:**

- found bedrock sampled silicified o/c
- resampled silt

10) **Conclusions:**

Cu anomaly caused possibly by o/c (10% py)
Au anomaly inconclusive

Keewatin Engineering Inc.

031 **PROJECT**

PREVIOUS SOIL ANOMALY (Au, Cu) - 1990 **INVESTIGATION**
Element(s) Year

1) **Location:** 9040315-W; 5+005/22+25E

2) **Previous Value(s):** 16 ppb Au, 380 ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 20/90

5) **Investigator(s):** Dave Barker, Rick Honsinger

6) **Description of Previous Sample Collected:**
Previous hole not found, L12N/22+00E old grid coordinates.

7) **Description of New Sample:**
DARK ORANGE BROWN SOIL WITH GOOD B HORIZON SOIL DEVELOPMENT, 20 CM OF DEPTH WHERE SAMPLED. LOCATION IN GULLEY TO EAST SLIGHTL SWAMPY GROUND. PREVIOUS HOLE NOT FOUND. SUB TOUNDER

8) **Description of Topography:**
>5°N HEAVILY WOODED, LITTLE UNDERBUSH. → QUARTZ VEIN FLOAT → FOUND IN → SAMPL

9) **Results of Investigation:**
Phyllitic schistose-metasediments, dk. grey to <1% Py. constitutes bedrock in the immediate area. Schistosity 129/62S.

10) **Conclusions:**
Sample located in swampy gully, which may have elevated concentrations of Cu, Au in soils from upslope drainages.

CURT KRUSS
DAVE O'BRIEN

ISKUT J.V PROJECT

PREVIOUS SOIL ANOMALY (Cu) - 1990 INVESTIGATION
Element(s) Year

1) **Location:** 4+80S 25+10E (1990) L12N/2475E

2) **Previous Value(s):** 260 ppm Cu, <2ppb Au

3) **Year Collected:** 1987

4) **Date of Investigation:** 10/20/90

5) **Investigator(s):** C.K/D.O

6) **Description of Previous Sample Collected:**
could not find old site due to 1987 grid degeneration.

7) **Description of New Sample:**
rd brown/B-horizon/90 cm
50% silt/30 sand/20 clay/no frags

8) **Description of Topography:**
25° slope in gulley 330°
3m water filled

9) **Results of Investigation:**
could not find old site/bedrock dug pit to 90 cm resampled soil

10) **Conclusions:** took soil sample to duplicate previous result no rock o/c!!

ISKUT J.V PROJECT

PREVIOUS SOIL ANOMALY (Au) - 90 INVESTIGATION
Element(s) Year

1990 GRID: 4755/21400 E

1) **Location:** (~ 12+23N / 20+35E ? Contour soil JV2141 ?)

2) **Previous Value(s):** 84 ppb Au

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 20/90

5) **Investigator(s):** TRAVIS / NOVAK

6) **Description of Previous Sample Collected:**

Sample site not located - 87 grid degenerated, contour soil lines plotted incorrectly.

7) **Description of New Sample:**

no new samples were taken in the area

8) **Description of Topography:**

Generally a 25° slope westward of heavily timbered areas.

9) **Results of Investigation:**

Contour soil line was not found from previous prospecting and tie-ins of contour line it appears that the contour lines are not plotted in correct locations. General area was prospected.

10) **Conclusions:**

Contour soil lines need to be "tied-in" to new grid and station locations determined for anomalous values.

✓

D. O'BRIEN
C. KAUSS

Iskut J.V PROJECT

PREVIOUS SOIL ANOMALY (Au/Cu - 1990 INVESTIGATION
Element(s) Year

1) **Location:** (1990 grid) 4+34S 26+75E

2) **Previous Value(s):** 34 ppm Cu / 2 ppb Au

3) **Year Collected:** 1987

4) **Date of Investigation:** OCT 20/90

5) **Investigator(s):** D.O. / C.K.

6) **Description of Previous Sample Collected:**

no can find of dig pit; was attempting to follow 152 ppb Au, as plotted on 87 compilation map, which in actual fact is a 15,2 Au. Plotting error on the 1987 map led to this work.

7) **Description of New Sample:**

1.0 m deep test pit
no bedrock / large angular frag. found
60 silt 30 sand 10 clay

8) **Description of Topography:**

30° E slope heavily wooded

9) **Results of Investigation:** no bedrock / large fragment (float) found (15% py)

sampled rock / soil

put in mini-grid

10) **Conclusions:** source of anomaly not conclusive
float possible source

Keewatin Engineering Inc.

ISKUT J-V PROJECT

C. KAUSS
D. O'BRIEN

PREVIOUS SOIL ANOMALY (Au) - 1990 INVESTIGATION
Element(s) Year

1) **Location:** 3+85S 22+63E 1990 Grid (12+98N/22+15E) 1987 grid

2) **Previous Value(s):** 1640 ppb.

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 19, 1990

5) **Investigator(s):** CK DOB

6) **Description of Previous Sample Collected:** Could not find soil hole.

7) **Description of New Sample:** 0-20cm duff, roots, org. soil — A hor.
20-110cm well dev., min B, min small ang frag sst/GRY ± up to 2% diss. py.

8) **Description of Topography:** 30% NE slope, heavily wooded Hemlock, sparse underbrush, total moss cover, No O/C, little float, rounded knolls, creek/fault cut to North.

9) **Results of Investigation:** No visible explanation of anomaly, resampled and put in mini-grid.

10) **Conclusions:**

✓

C. KAUSS
D. O'BRIEN

Bobtail J.V. PROJECT

PREVIOUS SOIL ANOMALY (Cu) - 1990 INVESTIGATION
Element(s) Year

1) **Location:** 3+84S 23+80E (1990) (13N/23+50E - 1987)

2) **Previous Value(s):** 270 ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** 19/10/90

5) **Investigator(s):** C.K / D.O.

6) **Description of Previous Sample Collected:**

no can find old site.

7) **Description of New Sample:**

dug pit 1.0m / ash in A-horiz. 5cm
B-horizon 60 silt 30 sand 10 clay

8) **Description of Topography:**

30° NE slope
heavily wooded no o/c

9) **Results of Investigation:**

could not find bedrock
resampled to check 1988 results

10) **Conclusions:** inconclusive saw no o/c

✓

C. KAUSS
D. O'BRIEN

Lakeview PROJECT

PREVIOUS SOIL ANOMALY (Au Cu - 1990 INVESTIGATION
Element(s) Year

1) **Location:** 3+905 24+00E (1990) 13N/23+75E (1987)

2) **Previous Value(s):** 116 ppb Au/Cu 210 ppm

3) **Year Collected:** 1987

4) **Date of Investigation:** 19/10/90

5) **Investigator(s):** C.K/D.O

6) **Description of Previous Sample Collected:**

could not find site

7) **Description of New Sample:**

70 cm deep B-horizon / no bedrock
float with 10% py 50 silt 30 sand 20 clay

8) **Description of Topography:**

30° slope E no visible o/c
heavily wooded

9) **Results of Investigation:**

resampled anomaly

10) **Conclusions:** greywacke / siltstone float
possible source of anomaly

031 PROJECT

PREVIOUS SOIL ANOMALY (Au, Cu) - 1990 INVESTIGATION
Element(s) Year

1) Location: (90H03I5-E; 3+335/26+04E 1990), (L13N / 26+00E (1987) 3+33S/26+29E 1990 L13N / 26+05E (1987))

2) Previous Value(s): 506ppb Au, 540ppm Cu, (230ppm Cu)

3) Year Collected: 1987

4) Date of Investigation: Oct 20/1990

5) Investigator(s): Dave Baker, Rick Honsinger

6) Description of Previous Sample Collected:
Old sample hole not found 87 grid coordinates L13N/26+00E

7) Description of New Sample:
90H03I5-E; 3+335/26+04E
Orange brownish red soil good B horizon, 35cm depth.

8) Description of Topography:
35°NW Heavily wood mature forest with little underbush, sta at creek, old sample may have been taken from bank. silt sample. New sample

9) Results of Investigation:
subcrop of phyllite metased - w 5% Py, 1-2% Cpy, injection was encountered in a test pit located approx 12m to the SE. A 12.5m x 25m grid centred around anomaly (12.5m E-W, 25m N-S) was established and sampled. Sample 90H03IR-007 was collected from test pit.

10) Conclusions:
Mineralized subcrop in test pit located 12m SE is mineralized (5% Py, 1-2% Cpy) phyllite metased indicates source of anomalous Au, Cu proximal to original soil std.

J

031 PROJECT

PREVIOUS SOIL ANOMALY (Cu) - 1990 INVESTIGATION
Element(s) Year

1) **Location:** 96H03IS-E: 31285/26+91E (1990) (13N/27+00E (1987)

2) **Previous Value(s):** 240 ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 20/1990

5) **Investigator(s):** Dave Baker

6) **Description of Previous Sample Collected:**
Old sample location not found. Previous ET grid coord L13N/27+00E

7) **Description of New Sample:**
MEDIUM ORANGE BROWN SOIL GOOD SOIL DEVELOPMENT BUT HAD A LITTLE C HORIZON IN SOIL > 2% C OLD HOLE NOT FOUND.

8) **Description of Topography:**
LEVEL HEAVILY WOODED WITH LITTLE UNDERBUSH.

9) **Results of Investigation:**
Bedrock exposed 4m west of site (downslope) consists of dk-grey schistose mafic intrusive w 1-2mm feldspar phenos ∀ <1% Py. Schistosity 138/37W
Joints ∀ 165/86W

10) **Conclusions:**
No immediate source for the anomalous Cu in soils was discovered.

Iskut J.V. PROJECT

PREVIOUS SOIL ANOMALY (Au, Cu) - 1990 INVESTIGATION
Element(s) Year

1) **Location:** 3+20S/20+00E (1990) L14N/19+25E (1987)

2) **Previous Value(s):** 36 ppb Au, 64 ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 19/1990

5) **Investigator(s):** Dave Barker & Rick Honsinger

6) **Description of Previous Sample Collected:**
Old sample hole not found. Was attempting to follow 270ppm Cu anomaly located 25 m W. (L14N/19+00E) 1987 (L3+20S/19+75E) 1990

7) **Description of New Sample:**
90HC315-E; 3+20S/20+00E
Medium orange brown soil with good B horizon developme
Sample taken from uplifted stump that was once in th
stream slightly to west.

8) **Description of Topography:**
10°W Heavily wooded mature forest, little underbush
creek 1m to west.

9) **Results of Investigation:**
Probable sample location (old sample) in swampy
muck bank - bedrock not exposed in area.

10) **Conclusions:**
No immediate source for the anomaly was determined.
The swampy stream may have concentrated Au, Cu
in muck.

ISKUT J.V. PROJECT

PREVIOUS SOIL ANOMALY (Au, Cu Elements) 1990 INVESTIGATION

1) **Location:** L 3+03 S / 23+22 E, L14 N / 23+00 E (1987)

2) **Previous Value(s):** 4 ppb Au, 260 ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 18/90

5) **Investigator(s):** Dave Barker, Rick Honsinger

6) **Description of Previous Sample Collected:**
L14 N / 23+00 E, Old sample hole not located

7) **Description of New Sample:**
90H0315-W: 3+03 S / 23+22 E
medium orange brown soil with good B horizon development sampled at a depth of 40cm.

8) **Description of Topography:**
35°N Heavily wooded with little underbrush forest a gulley 30m to the North.

9) **Results of Investigation:**
Bedrock not reached

10) **Conclusions:**
No immediate source for the anomaly was discovered

Isaac J.V. PROJECT

PREVIOUS SOIL ANOMALY (Au, Cu 1990 INVESTIGATION
Element(s)

1) **Location:** 23+02S/23+44E L14N/23+25E

2) **Previous Value(s):** 52 ppb Au, 240 ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 18/90

5) **Investigator(s):** Dave Baker, Rick Honsinger

6) **Description of Previous Sample Collected:**
L14N/23+25E Old sample site not found.

7) **Description of New Sample:**
90HO315-W: 302S/23+44E
medium orange brown soil with good B horizon deve
Sampled at a depth of 45cm, right beside a st
stump.

8) **Description of Topography:**
25°N Heavily wooded mature forest with little un
bush, with a gulley to the north, 20m.

9) **Results of Investigation:**
Bedrock not reached.

10) **Conclusions:**
No immediate source for the Cu in soil anomaly
was located.

Iskut J.V. PROJECT

PREVIOUS SOIL ANOMALY Au, Cu 1990 INVESTIGATION
Element(s)

1) **Location:** L 3+01 S/23+69E (L14N/23+50E, 1987)

2) **Previous Value(s):** 68 ppb Au, 162 ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 18/90

5) **Investigator(s):** Dave Barker, Rick Honsinger

6) **Description of Previous Sample Collected:**
L14+00N/23+50E, Old sample hole not located.

7) **Description of New Sample:**
90H0315-W: 3+01S/23+69E
Orange brown heavily oxidized rusty pod with good B horiz soil development. Sampled at a depth of 50 cm. Schistose ortho clase porphyry angular fragments 1/2 pyrite in soil.

8) **Description of Topography:**
35°N Heavily wooded mature little underbush forest mosse.

9) **Results of Investigation:**
Bedrock not reached. Mineralized float in C horiz

10) **Conclusions:**
Mineralized float of schistose orthoclase-porphyry (1% Py) may be responsible for Au/Cu soil anomaly.

ISKUT J.V PROJECT

PREVIOUS SOIL ANOMALY (Au) - 90 INVESTIGATION
Element(s) Year

1) **Location:** 3+00S/21+00E? (1987GRID 13+98N/20+12E, CONTOUR SOIL JV 2150?) 1990

2) **Previous Value(s):** 2 ppb Au, 23ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 20/90

5) **Investigator(s):** TRAVIS/NOVAK

6) **Description of Previous Sample Collected:**

Previous sample hole/site not located.

7) **Description of New Sample:**

No new soil samples were taken, however two rock samples (90TO31R-007, R-008) were taken nearby?

8) **Description of Topography:**

Generally a 25° slope westward of heavily timbered areas, which are occasionally cut by small gulleys and creeks

9) **Results of Investigation:**

Sample site was not found. From previous experience Contour soil could be plotted in wrong position. Meta-Sed's and possibly a feldspar porphyry. The rocks contained pyrite up to 7-10% as veinlets and fine fractures.
An error in the 1987 compilation map led to this work. The plotted Au value was 152 when in fact they are two values 15 and 2.

10) **Conclusions:**

Did not find sample site, could possibly be some distance away. Sulphide (Py=7-10%) content is anomalously high and may account for anomalous value.

ISKUT J.V PROJECT

PREVIOUS SOIL ANOMALY (Au, Cu) - 90 INVESTIGATION
Element(s) Year

(5 anomalies in total)

1) **Location:** 2TOOS 24+50E to 23TOOE

2) **Previous Value(s):** BEST VALUES 410 ppm Cu, 182 ppb Au (@ L15 N/2375 E 87 GRID)

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 18/90 + Oct 22/90

5) **Investigator(s):** TRAVIS/NOVAK

6) **Description of Previous Sample Collected:**
Very difficult to tell from map exact location, station varies from where casted from, General area prospected

7) **Description of New Sample:**
SAMPE TAKEN IN LIGHTLY WOODED MATURE FOREST AT A DEPTH OF 30 cm. GOOD B HORIZON, MEDIUM ORANGE BROWN IN COLOR. 20° SLOPE NORTH.

8) **Description of Topography:**
Heavily timbered, moss covered slopes with a 20° Slope westward.

9) **Results of Investigation:**
Meta-sediments with 5-7% Pyrite as stringers and fracture fills were found within the investigated area. Trace chalcopyrite was also noted.

10) **Conclusions:**
An average 5-7% Pyrik with trace Chalcopyrite in meta-sediments could possibly account for anomalous values.

ISKUT J.V PROJECT

PREVIOUS SOIL ANOMALY (Au) - 90 INVESTIGATION
Element(s) Year

TRAVIS/NOVAK

1) **Location:** 2+20S / 25+95E (Contour Soil JV 2114) (L14+75N/26+10E 1987)

2) **Previous Value(s):** 200 ppb Au (Right location?)

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 21/90

5) **Investigator(s):** TRAVIS

6) **Description of Previous Sample Collected:**

Previous hole not located.

7) **Description of New Sample:**

90T0315E: 40 cm depth, a very poor rocky, clayey light brown 2+05S/26+25E soil, 30° slope westward, taken approximately 30 m NE of assumed anomaly centre.

8) **Description of Topography:**

Generally a 30° slope westward of heavily timbered and moss covered areas.

9) **Results of Investigation:**

Talus blocks covered with moss composed of orthoclase porphyry.

10) **Conclusions:**

No immediate source of mineralization was found to account for anomalous value.

ISKUT J.V PROJECT

PREVIOUS SOIL ANOMALY (Au, Cu 90 INVESTIGATION
Element(s) Year

1) **Location:** 2+25S / 20+87.5E (1990) (1987 GRID : L15N/2(+25E)

2) **Previous Value(s):** 4 ppb Au, 34 ppm Cu.

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 19/90

5) **Investigator(s):** TRAVIS / Novak

6) **Description of Previous Sample Collected:**

Previous sample hole not located,

7) **Description of New Sample:** 90FFC315-W: 2+25S/20+87.5E

SAMPLE TAKEN IN MEDIUM WOODED MOSS COVERED AREA. DEPTH 65cm. ASH LAYER AT 30 cm. DEPTH, 10 cm WID SOIL LIGHT BROWN IN COLOR.

8) **Description of Topography:**

A 25° slope westward covered with moss and heavily timbered.

9) **Results of Investigation:**

Very little outcrop occurs within the investigated area. To the north of the detailed grid a sizeable gulley - creek occurs. Here a strong foliation (120/48SW) is developed in a meta-sediment? Was attempting to follow up anomaly 25m to the west (L15N/20+00E, 219ppb Au but could not locate stn.

10) **Conclusions:**

No immediate source of mineralization was found to account for anomalous value.

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Iskut J.V. **PROJECT**

PREVIOUS SOIL ANOMALY (Au, Cu) - 1990 **INVESTIGATION**
Element(s) Year

1990 GRID: ① L21+80S/23+50E ② L21+80S/25+75E ③ L21+80S/26+00E

1) **Location:** ① L14N/23+50E ② L14N/25+75E ③ L14N/26+00E

2) **Previous Value(s):** ① 1190 ppm Cu, 50ppb Au ② 900ppm Cu, 40ppb Au, ③ 530ppm Cu, 22ppb Au

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 17th, 1990

5) **Investigator(s):** R. Honsinger, D. Bragier

6) **Description of Previous Sample Collected:**

Old stn's not found.

7) **Description of New Sample:**

76 new soils were collected

8) **Description of Topography:**

20° west slope, mature stands of timber, little underbrush, devil's club along gulley flanks.

9) **Results of Investigation:**

Altered, siliceous metasediments (possible mafic intrusives) are present in the immediate vicinity which contain up to 8% Py, 2% CPy. Four samples in the area were collected (grab rock) 90K 031R-003, 004, 005 and 006.

10) **Conclusions:**

Mineralized metaseds (8% Py, 2% CPy) in the area of investigation may be responsible for the Au, Cu anomalies in soils.

Iskut J.V. PROJECT

PREVIOUS SOIL ANOMALY (Au, Cu) - 1990 INVESTIGATION
Element(s) Year

1) **Location:** L 2+80S/26+83E (1990) 14N/27+00E (1987)

2) **Previous Value(s):** 58 ppb Au, 142 ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct/18/90

5) **Investigator(s):** Dave Barker, Rick Horsinger

6) **Description of Previous Sample Collected:**
L14N/27+00E, Old sample hole not located.

7) **Description of New Sample:**
90H0315-E: L 2+80S/26+83E
Dark red orange soil with good B horizon development sample at a depth of 55cm.

8) **Description of Topography:**
30°W Heavily wooded mature forest with little underbush.

9) **Results of Investigation:**
Arenic, mylonitic O.P., qtz rich, gossanous ff, as qtz stringer to 10-15% py as ff. (overall 6%) found on grab from west side of gully. Sample # 90H0315R-001 collected.

10) **Conclusions:**
Mineralized O.P. to the SE (upslope) probable source.

ISKUT J.V. PROJECT

PREVIOUS SOIL ANOMALY (Au, Cu 1990 INVESTIGATION
Elements

1) **Location:** L2+88S/23+90E (1990), (L14N, 23+75E, 1987)

2) **Previous Value(s):** 506ppb Au, 570 ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** oct 18/1990

5) **Investigator(s):** Dave Barker, Rick Honsinger

6) **Description of Previous Sample Collected:**

L14+00N/23+75E, Old sample hole not located.

7) **Description of New Sample:**

90H0316-W: L2+88S/24+22E, sample collected approx 35m to E from anomaly site. Orange brown heavily oxidized rusty pod, with good B h[orizon] development. A horizon 8cm, B horizon 35cm. Ang[ular] fragment in sample 1% disseminated pyrite.

8) **Description of Topography:**

Heavily wooded mature forest with little underbush, th[e ground] was mossy and had a gulley 7m to South. the slope was 30° to the west.

9) **Results of Investigation:**

Schistose mafic intrusive, locally qtz flooded found in immediate vicinity. 35m west, down gully, mineralized phyllitic metaseds w 8% Py as FF and along 3mm wide qtz veinlets was discovered as creek bed float.

10) **Conclusions:**

Mineralized float in area probably responsible for anomalous soils. Source located upstream of gully(?) in vicinity of L3+00S/23+50E (~125m upslope)

Iskut J.V. PROJECT

PREVIOUS SOIL ANOMALY (Cu) - 1990 INVESTIGATION
Element(s) Year

1) **Location:** L2+80S/26+64E (1987), L14N/26+75E (1990)

2) **Previous Value(s):** 540ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 18/90

5) **Investigator(s):** Dave Barker, Rick Honsinger

6) **Description of Previous Sample Collected:**
L14N/26+75E, Old sample hole not located

7) **Description of New Sample:**
90H031S-E: L2+80S/26+64E
Medium red orange soil with good B horizon development sampled at a depth of 45cm, split tree 4m to N.E..

8) **Description of Topography:**
20°W Heavily wooded forest with little underbush, creek 20m to North.

9) **Results of Investigation:**
Felsic, grey O.P., locally bleached w/ 1% Py was found 20m to the South.

10) **Conclusions:**
No immediate source for the anomalous Cu in soils was determined. Approximately 50m SE, quartz, mylonite O.P. w/ 5-10% Py was found (90N031R-001). This may be the source for the anomaly.

ISKUT J.V PROJECT

PREVIOUS SOIL ANOMALY (Au,Cu - 90 INVESTIGATION
Element(s) Year

1) **Location:** (L15N) 24+50E - 24+75E (1987)
~ 2+10S, 24+70E to 24+85E (1990)

2) **Previous Value(s):** 152,116 ppb Au 540,530 ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 18/90

5) **Investigator(s):** TRAVIS / Novak

6) **Description of Previous Sample Collected:**

No previous sample holes were located.

7) **Description of New Sample:**

No new soil samples were taken. A rock sample (90T031R-003) was taken in the investigated area.

8) **Description of Topography:**

Generally a 35° slope westward covered with moss and heavily timbered.

9) **Results of Investigation:**

Moss covered talus blocks of orthoclase porphyry were found in the investigated area. The intrusive is mylonitized in places with up to 5-7% Pyrite and ~ 1cm qtz veins with trace Chalcopyrite.

10) **Conclusions:**

Trace Chalcopyrite was found within the investigated area.

031 PROJECT

PREVIOUS SOIL ANOMALY (Au, Cu 20) INVESTIGATION
Element(s)

1) **Location:** 90H03/S-W: 1+915/24+70E (1990 coord) (L15N/24+50E) R-1987

2) **Previous Value(s):** 152 ppb Au, 540 ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct/22/1990

5) **Investigator(s):** Dave Barker, Rick Honsinger

6) **Description of Previous Sample Collected:**
Not found, grid degenerated.

7) **Description of New Sample:**
medium red brown soil with good B horizon development, Dep
creek 20m down slope to the west, 15% to 20% Angular
in sample. 4% pyrite tract chalcopyrite, subcrop? talus bou
consist dark grey phyllite mafic intrusive with 1 to 2 mm q aug
Shape feldspar phenocrysts in dark grey aphanitic matrix

8) **Description of Topography:**
70° N Heavily wooded light underbush
creek 20m to the West.

9) **Results of Investigation:**
Travis sample # 003 (90T031R-003) previously sampled.
Bedrock in area consists of O.P. + meta seds (meta seds 4% Py
Tr-1% (Py). 5 soils were collected 12.5m upslope (E)
in a N-S line.

10) **Conclusions:**
The mineralized meta-sed is the probable source
for the anomaly.

ISKUT J.V PROJECT

PREVIOUS SOIL ANOMALY (Au) - 90 INVESTIGATION
Element(s) Year

1) **Location:** ~ 1+705/24+40E? (1987 GRID: 15+25N/24+24E)

2) **Previous Value(s):** 300 ppb Au

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 22/90

5) **Investigator(s):** TRAVIS/NOVAIC

6) **Description of Previous Sample Collected:**

Previous sample site and station not located

7) **Description of New Sample:**

THREE SOILS TAKEN UPSLOPE OF INFERRED SAMPLE LOCATION. SLOPE: 40°W, B HORIZON, LIGHT ORANGE BROWN IN COLOR. SEE SAMPLES: 1+665/24+75E.

8) **Description of Topography:**

Moss covered talus and heavily timbered slopes at ~ 30° westward.

9) **Results of Investigation:**

Talus blocks of orthoclase porphyry with 1-3% Pyrite and occassionally trace amounts of chalcopyrite. Minor amounts of quartz vein float with trace pyrite and chalcopyrite were also noted.

10) **Conclusions:**

This area is probably close to possible contact of orthoclase porphyry and meta-sediments. Anomalous value could possibly be related to this contact.

ISKUT J.V PROJECT

PREVIOUS SOIL ANOMALY (Au) - 90 INVESTIGATION
Element(s) Year

1) **Location:** 1+45S/23+75E (1987 GRID 15+50W/23+75E)

2) **Previous Value(s):** 50 ppb Au

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 18/90 + Oct 22/90

5) **Investigator(s):** TRAVIS/NOVAK

6) **Description of Previous Sample Collected:**

Previous sample hole not located.

7) **Description of New Sample:**

SAMPLE TAKEN AT BOTTOM OF TEST PIT, AT A DEPTH OF 70 Cm. GOOD B HORIZON, SOIL DEVELOPMENT, MEDIUM ORANGE BROWN IN COLOR. 25° SLOPE WEST.

8) **Description of Topography:**

A ~25° slope westward of moss covered and heavily timbered areas

9) **Results of Investigation:**

No outcrop occurs within the detailed grid. Float and nearby outcrop appear to be of pyrite rich (~5-7%) meta-sediments. Trace amounts of chalcopyrite were also noted.

10) **Conclusions:**

Relatively high sulphide (~5-7% Py) content may be a possible source for anomalous value.

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ISKUT J.V PROJECT

PREVIOUS SOIL ANOMALY (Cu, Au 90 INVESTIGATION
Element(s) Year

1) **Location:** 1+45S / 19+75E (1990) L16N/19+25E

2) **Previous Value(s):** 290ppm Cu, Au, 54ppb

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 19/90

5) **Investigator(s):** TRAVIS / NOVAK.

6) **Description of Previous Sample Collected:**

Previous soil hole not located.

7) **Description of New Sample:**

No new soil samples were taken. However a rock sample was taken (90703 R-605) ~70m east of anomaly centre. (~1+40S/20+50E) 1990

8) **Description of Topography:**

A 25° slope westward of moss covered and heavily timbered areas.

9) **Results of Investigation:**

A very brief inspection found no outcrop in the immediate area. However a float sample nearby from a overturned root contained trace Chalcopyrite, 3-5% Pyrite in a Meta-Sediment?

10) **Conclusions:**

Trace Chalcopyrite in float sample and similar mineralization could account for anomalous value.

ISKUT J.V PROJECT

PREVIOUS SOIL ANOMALY (Au) - 90 INVESTIGATION
Element(s) Year

1) **Location:** 1+35 s / 25+97E (1987 GRID: 15000N/26+40E)

2) **Previous Value(s):** 50 ppb Au

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 21/90

5) **Investigator(s):** TRAVIS / NOVAK

6) **Description of Previous Sample Collected:**

Sample hole not located.

7) **Description of New Sample:** 90FF031S-E: 1+32s/26+15E. SAMPLE TAKEN AT BOTTOM OF TEST PIT AT A DEPTH OF 50 cm. GOOD B HORIZON DEV., DARK ORANGE BROWN IN COLOR. Total of 4 samples collected, approx 20 m E, upslope from anomaly centre.

8) **Description of Topography:**

Generally a 35° slope westward of mossy covered and heavily timbered areas.

9) **Results of Investigation:**

Bedrock of orthoclase porphyry was hit at ~40cm depth. It was slightly foliated with orthoclase ~2cm, minor quartz veinlets, trace pyrite and magnetite.

10) **Conclusions:**

No immediate source of mineralization was found to account for anomalous value.

ISKUT J.V PROJECT

PREVIOUS SOIL ANOMALY (Cu) - 90 INVESTIGATION
Element(s) Year

1) **Location:** 1+30S/26+52E (1987 GRID : 15+00N/26+75E)

2) **Previous Value(s):** 300 ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 21/90

5) **Investigator(s):** TRAVIS / NOVAK

6) **Description of Previous Sample Collected:**

Sample hole not located

7) **Description of New Sample:**

SAMPLE TAKEN AT 72 cm. FROM BOTTOM OF TEST PIT.
MEDIUM ORANGE BROWN IN COLOR.
90FF0315-E: 1+30S/26+52E.

8) **Description of Topography:**

Generally 25° slope westward of moss covered and heavily timbered areas.

9) **Results of Investigation:**

Orthoclase porphyry float with tr-1% Py and one piece out of test pit had tr CPy and malachite.

10) **Conclusions:**

Copper anomaly could possibly be explained by trace Chalcopyrite noted in float boulder within test pit.

Ghut J.V. PROJECT

PREVIOUS SOIL ANOMALY (Au .) - 1990 INVESTIGATION
Element(s) Year

2 Follow-ups.

1) **Location:** old station ~24+63E & 24+38E/16+00N
new station ~24+64E & 24+46E/1+00S

2) **Previous Value(s):** 102 ppb Au, 126 ppb Au.

3) **Year Collected:** 1987

4) **Date of Investigation:** October 18th,

5) **Investigator(s):** C. Davies, P. Lutynski

6) **Description of Previous Sample Collected:**
Old stn & sample hole not located.

7) **Description of New Sample:**
B horizon (orange brown) often mixed with rock fragments

8) **Description of Topography:**
Hat slope ~ 35-40°

9) **Results of Investigation:**
Investigated area is partly covered by overburden. locally abundant talus which consists of O.P.
3 white qtz veins were mapped above anomalous soil samples. in the O.P. outcrops.
Rock samples. 901031 R-004, R-007, 008 & 009.
O.P. as well as qtz. v. contain up to 3/4% (Py (& Py).

10) **Conclusions:**
Mineralization in the anomalous soil samples could be related to mineralization in the qtz v. and their contact with O.P. If the assays will return good Au values it would indicate this source of mineralization. Presently there is not immediate source of the mineralization found.
Area was covered with new soil grid which hopefully will confirm presence of the anomalous Au values.

Ishut J.V PROJECT

PREVIOUS SOIL ANOMALY (Au, Cu 1990 INVESTIGATION
Element(s)

7 ANOMALIES

1) **Location:** Old line 16+00N/22+75E – 24+25E was impossible to follow and place where anomalous soils were taken was not found. Therefore new grid put on the investigated area. 0+75S, 1+00S, 1+25S/22+50E –
2) **Previous Value(s):** and soil samples were taken each 25m (no N/S). 180 ppb Au, 206 ppb Au, 116 ppb Au & 970 ppm Cu, 844 ppb Au, 250 ppm Cu.
3) **Year Collected:** 1987
4) **Date of Investigation:** October. 19th.
5) **Investigator(s):** C. Davies P. Lubyushd.
6) **Description of Previous Sample Collected:**
Not located due to grid degeneration.

7) **Description of New Sample:**
Generally dark brown. locally orange brown.

8) **Description of Topography:**
0° – 40° N
well developed to poor developed on. steep slopes with talus.

9) **Results of Investigation:**
Central part of the investigated area is located in the gulley followed by the creek. Outcrops of. Meta-sediments are exposed in several places in the creek. Rock is strongly sheared (an attitude - °/10° N) and contains disseminated Py (locally Cpy) up to 5-7%. Several old samples were taken from that area. JV 2563® | JV 2588, 2589, 2590R | JV 7025-3 | JV 7026-R | JV 2579 R | JVR-2581 | JV 2582
New samples. 902031R-001, 902031R-005
10) **Conclusions:**
If the assays from the soil samples taken in 1990 will return anomalous Au values. area should be again investigated with a detail soil sampling. (detail grid).

A. TRAVIS.

ISKUT J.V PROJECT

PREVIOUS SOIL ANOMALY (Au) - 90 INVESTIGATION
Element(s) Year

1) **Location:** 0+355 / 26+30 E (1987 GRID: 16TOON / 26+50 E)

2) **Previous Value(s):** 106 ppb Au

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct 21/90

5) **Investigator(s):** TRAVIS / NOVAK

6) **Description of Previous Sample Collected:**

Previous hole not located.

7) **Description of New Sample:** 90FF0315-E: 0+355/26+30E. SAMPLE TAKEN IN A MEDIUM WOODED AREA, AT A DEPTH OF 35 cm. SAMPLE QUALITY WAS POOR CONSISTING OF MIXED A AND B HORIZONS, WITH APPROX. 40% ROCK FRAGMENTS.

8) **Description of Topography:**

Generally 35° slope westward of moss covered and heavily timbered areas.

9) **Results of Investigation:**

No outcrop was found in the immediate area. Most sample holes had blocks of orthoclase porphyry with tr-1% Pyrite and Chalcopyrite

10) **Conclusions:**

No immediate source of mineralization was found to account for anomalous value.

C.D.
P.L.

031 PROJECT

PREVIOUS SOIL ANOMALY (Au, Cu - 1990 INVESTIGATION
Element(s) Year

1) Location: 0+05^{S}/22+55^{E} (1990) 16+95^{N}/22+27^{E} (1987)

2) Previous Value(s): 70ppb Au, 55ppb Cu

3) Year Collected: 1987

4) Date of Investigation: October 20, 1990

5) Investigator(s): C. Davies & P. Fitzgerald

6) Description of Previous Sample Collected:
Old sample site not located, assumed location was L23+00^{E} (incorrect) therefore, mini grid was established approx 70 m east. However, A.D.'s mini grid was also put in approximately 25 m to the east,

7) Description of New Sample:
hole is 32 cm deep
dark reddish brown soil
0° slope, excellent soil development.

8) Description of Topography:
Heavily wooded, mature virgin forest
Gentle to steep hills.

9) Results of Investigation:
Investigated area is covered by overburden.

Anomalous soil sample was taken from the depression which strikes ~ NNW - SSE

10) Conclusions:
Source of the mineralization in the anomalous soil sample was not found.

Ishut J.V. PROJECT

PREVIOUS SOIL ANOMALY (Au 1990 INVESTIGATION
Element(s)

1) **Location:** (1987) L17^N/18+40^E (1990) L0+05^N/18+90^E

2) **Previous Value(s):** 55 ppb Au,

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct. 20/90

5) **Investigator(s):** Steve McTague / Andy Dupras

6) **Description of Previous Sample Collected:**

no sample found, sample site not located, grid degenerated, 1987 chaining inaccurate.

7) **Description of New Sample:**

a new sample of Red brown at a depth of 35 cm was taken. a good B Horizon was reached, sample collected at L0+00^N/20+00^E (110m east of anomaly centre)

8) **Description of Topography:**

Area of anomaly has gulleys to S.W. with creek to E running almost N/S. most of surrounding area was full of small hills and gulleys.

9) **Results of Investigation:**

Bed Rock was Reached and [illegible] [illegible] Nodo Bed [illegible] Mineralization [illegible] PY.

10) **Conclusions:**

Possible Reason for anomalous Au [illegible] for Bedrock Beneath The Overburden.

031 PROJECT

PREVIOUS SOIL ANOMALY (Cu.) - 1990 INVESTIGATION
Element(s) Year

1) **Location:** old grid 17+00N/25+60E → new grid 0+50N/25+57.5E

2) **Previous Value(s):** 250 ppm Cu.

3) **Year Collected:** 1987

4) **Date of Investigation:** October 21, 1990

5) **Investigator(s):** C. Davies P. Lutynski

6) **Description of Previous Sample Collected:**
Old sample site not located due to degeneration of 1987 grid.

7) **Description of New Sample:**
New hole is 70cm deep. A horizon is 65cm deep, very dark brown soil & sticky wet. There is a B horizon but it developes under a pool of water that has formed. It is 5cm and a light orangy brown colour and also sticky & wet, almost like a clay.

8) **Description of Topography:**
The slope is 5° NW.
Mature virgin forests
gentle → steep sloping hills.

9) **Results of Investigation:**
Investigated area is mostly covered by overburden. Single outcrops of Orthoclase Porphyry occur on the north and south East side of the mini grid.

10) **Conclusions:**
Source of the mineralization, in the anomalous soil sample, was not found.

ISKUT JV 031 PROJECT

PREVIOUS SOIL ANOMALY (Cu-Au) - 1990 INVESTIGATION
Element(s) Year

1) Location: L18N/2385E (87 Grid) (L0+85N/23+80E)

2) Previous Value(s): 480 ppm Cu, 88ppb Au

3) Year Collected: 1987

4) Date of Investigation: Oct. 18, 1990

5) Investigator(s): M Ettegue

6) Description of Previous Sample Collected:
Previous sample not located due to 1988 grid degradation.

7) Description of New Sample: Sample was collected ~35m SW from anomalous soil location
9040031-S-W Taken 40 cm. Depth. Good Rusty Brown colour. Bedrock Face 3m. E.
Wooded area Trees up to 2' Dia.

8) Description of Topography:
Very Steep 45° Slope - Bed Rock Close By; Vertical in Places.

9) Results of Investigation:
Took Rock Sample and got good Sulphides - Chalco and Py. in Orthoclase Porphyry. Epidote and Feldspar Porphyry -

10) Conclusions:
Anomalous area could Very Likely come from the Bed Rock up Slope - as it is Well mineralized - 5-8% Sulphides

Exhibit 5.V.

PREVIOUS SOIL ANOMALY (Cu 1990 INVESTIGATION
Element(s)

1) **Location:** 22+75 E / 0+90 N (L18 N / 22+75 E)

2) **Previous Value(s):** 250ppm Cu

3) **Year Collected:** '87

4) **Date of Investigation:** Oct. 18/90

5) **Investigator(s):** Steve McTague / Audrey Duperas

6) **Description of Previous Sample Collected:**
No evidence of Sample Hole.

7) **Description of New Sample:**
a red orange brown soil was collected at 35cm. a good B horizon was noticed. (90ADO31 22+75 E / 0+90 N)

8) **Description of Topography:**
Area of anomaly has a slope of 20° E and. sparsely wooded.

9) **Results of Investigation:**
No outcrop found. Took Soil sample & Double check.

10) **Conclusions:**
Anomaly probably Derived from. some outcrop up hill?
Dug Holes but could not find outcrop overburden too Deep.

Eskat S.U. PROJECT

PREVIOUS SOIL ANOMALY (Au, Cu Elements) 1990 INVESTIGATION

1) **Location:** 24+25E/0+00N (1990), L18N/24+25 (1987)

2) **Previous Value(s):** 202ppb Au, 172 ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** Oct. 18/90

5) **Investigator(s):** Steve Mitague / Andy Dupras

6) **Description of Previous Sample Collected:**

Old sample site not located.

7) **Description of New Sample:**

A red brown soil was taken at 30cm depth. a good B horizon was sampled. (90ADO31 24+25E/1+00N)

8) **Description of Topography:**

Areas of anomaly is usually 20° - 30° in slope and one numerous gullys in area.

9) **Results of Investigation:**

This is a new soil taken just because soil looked good and was close to a anomalous zone.

10) **Conclusions:**

Double checked. This soil with previous anomaly this soil was further up the hill. as a double check.

031 PROJECT

PREVIOUS SOIL ANOMALY (Au, Cu) - 1990 INVESTIGATION
Element(s) Year

1) Location: L 18+00 N / 26+75 E (old grid) → L 11+50 N / 26+50 E (New grid)

2) Previous Value(s): 194 ppb Au, 290 ppm Cu.

3) Year Collected: 1987

4) Date of Investigation: October 21, 1990

5) Investigator(s): C. Davies - P. Kuttapski

6) Description of Previous Sample Collected:
Old sample site not located.

7) Description of New Sample:
Hole is 23cm deep. Soil is a light orange brown colour. Full of rock fragments. The soil development is poor and the hole is on a 40° NW slope.

8) Description of Topography:
Mature virgin forests
gentle – steep sloping hills.

9) Results of Investigation:
Investigated area consists of orthoclaze Porphyry which occurs in several outcrops within investigated area. Rock contains up to 2(3)% of Py.

10) Conclusions:
No immediate source of the mineralization was found.

✓

031 PROJECT

PREVIOUS SOIL ANOMALY (Au) 1990 INVESTIGATION

Element(s):

1) **Location:** old station 25+50E/14100N, new station 14+90N/25+24E

2) **Previous Value(s):** 104 ppb Au., 109 ppm Cu

3) **Year Collected:** 1987

4) **Date of Investigation:** October 20, 1990

5) **Investigator(s):** C. Davies & P. Lutynski

6) **Description of Previous Sample Collected:**

Old sample site not located due to grid degeneration.

7) **Description of New Sample:**

New hole is 35cm deep on a 40° NW slope.
The soil is dark brown in colour and there are rock fragments and a lot of organics present. The soil development is poor.

8) **Description of Topography:**

Mature Virgin forests
Gentle to steep sloping hills.

9) **Results of Investigation:**

Within mineralized area two small outcrops of Orthoclase porphyry occure. Rock appears to be well developed joint system 237/36°SE
Below anomalous soil sample a garnetous zone within OP was mapped and sampled. (90L031R-010). Garnetous zone contains up to 6(8)% of Py + some gh. bases.
North from mineralized a OP dyke is exposed.

10) **Conclusions:**

Source of the mineralization was not found

C.D
P.L ✓

031 PROJECT

PREVIOUS SOIL ANOMALY (Cu .) - 1990 INVESTIGATION
Element(s) Year

1) **Location:** 2190N/24+69E (new location), 20+00N/24+75E (old location)

2) **Previous Value(s):** 250ppm Cu.

3) **Year Collected:** 1987

4) **Date of Investigation:** October 20, 1990

5) **Investigator(s):** C. Davis T. Latynski

6) **Description of Previous Sample Collected:**
Old hole is 20cm deep. Very rooty & clay
dark brown soil on a 40° NW slope. Medium development.

7) **Description of New Sample:**
21cm deep
dark brown.
lots of rock fragments on the 40° NW slope.

8) **Description of Topography:**
Heavily wooded mature virgin forest.
gentle to steep hills.

9) **Results of Investigation:**
Anomalous soil sample was taken just below - 6m high cliff. (Meta-sediment) Rock is black-greenish v. strongly sheared 312/37°NE enriched in chlorite (& biotite). Rock appears to be SLT/Argillite or a conglomerate.

10) **Conclusions:**
Source of the mineralization in the anomalous soil sample was not found.

C-D
P.L.

O31 PROJECT

PREVIOUS SOIL ANOMALY (Au, Cu) - 1990 **INVESTIGATION**
Element(s) Year

1) **Location:** 2+90N / 25+14.5E (actual 1987 grid coord L20N/25+25E)

2) **Previous Value(s):** 156 ppb Au, 460 ppm Cu.

3) **Year Collected:** 1987

4) **Date of Investigation:** October 20, 1990

5) **Investigator(s):** C. [illegible], P. [illegible]

6) **Description of Previous Sample Collected:**

Old hole is 33cm deep.
Very mossy & rock fragmented soil. Dark brown in colour
30° NW slope

7) **Description of New Sample:**

22cm deep
very organic soil, dark brown in colour, on the same 30° slope
rock fragments.

8) **Description of Topography:**

- heavily wooded, mature virgin forest.
gentle to steep hills.

9) **Results of Investigation:**

Old anomalous soil sample is located on the talus slope where O.P. & meta-sediments occure mixed together. O.P. appears to be more abundant. O.P. fragments found in Talus contain up to 2(3)% of Py

10) **Conclusions:**

Source of the mineralization in the anomalous soil sample was not found.

ISKUT J.V **PROJECT - TEST PIT**

Date: Oct 20/90

TRAVIS / NOVAK

1) **Location:** 7400S / 22+12.5E
(interred location : no "ties-in" to 1990 GRID)

2) **Description of Soil Horizon Development:**

0-20 cm: "A" horizon - dark brown/black
- 2 cm ash layer at 10 cm depth

20cm-70cm: "B" horizon - light orange brown
- 2 cm ash layer at 35 cm depth
- 3 cm ash layer at 50 cm depth

3) **Description of Topography:**

Generally a 25° slope westward, of moss covered and heavily timbered areas. No outcrop in immediate area of detailed grid.

4) **Results of Investigation:**

Multiple ash horizons were found in test pit

C. KAUSS
D. O BRIEN

Lookout Jill PROJECT - TEST PIT

Date: 21/10/90

1) **Location:** 6180S 25+75E

2) **Description of Soil Horizon Development:**

5cm organic in A horizon?
5 cm ash level

B-horizon 80 cm no bedrock
60 silt 30 sand 10 clay

3) **Description of Topography:**
30° E slope

4) **Results of Investigation:**

no o/c found no bedrock
resampled

Keewatin Engineering Inc.

C. KAUSS
P. DUNLEVY

Skut Cr PROJECT - TEST PIT

Date: 21/10/90

1) **Location:**

5+85S 25+10E

2) **Description of Soil Horizon Development:**

A-horizon 10 cm roots/org
B - 90 cm - 60 silt 30 sand - 10 clay
found bedrock exposed surface

3) **Description of Topography:**

30° NE slope
heavily wooded

4) **Results of Investigation:**

found bedrock / sampled
resampled soil / silt

C. KAUSS
D. O'BRIAN

ISKUT JV **PROJECT - TEST PIT**

Date: OCT 20 / 1990

1) **Location:** L 4+80S 25+10E

2) **Description of Soil Horizon Development:**

A = 5cm, poorly developed mainly org
B = 10 cm - 90 cm, no bedrock / no C - horizon
50% silt / 30 sand / 20% clay
rd brown

3) **Description of Topography:** 25° NE slope, gully waterfilled, probable fault 3cm wide (330°) heavily wooded

4) **Results of Investigation:** No rock of any kind @ 90 cm could not locate actual original sample site

Re-sampled: 90Y031SE:
4+80S
25+10E

C.K
D.D.

Lokut **PROJECT - TEST PIT**

Date: 10/20/90

1) **Location:**

4+34S 26+75E

2) **Description of Soil Horizon Development:**

B - 50 silt 30 sand 20 clay
A - duff / roots / org

B-horizon beautiful red brown soil up to 1.0m

3) **Description of Topography:**

30° slope E

4) **Results of Investigation:**

put in mini-grid and sampled float

CURT KAUSS
PAVE O'BRIEN

ISKUT JV PROJECT - TEST PIT

Date: 19/10/90

1) **Location:** L 3+90S testing Au anomaly
24+00E 116 ppb / Cu 210 ppm

2) **Description of Soil Horizon Development:** 1pit dug 70 cm
A - some organic / fine silt
B - good red / brown silt / sand clay
- could not find bedrock
- located angular pieces of float with up to 10% pyr

3) **Description of Topography:**
30° slope E
heavily wooded
no visible o/c

4) **Results of Investigation:**
- resampled anomaly
- greywacke / siltstone float (up to 10% py
possible source of gold anomaly.

CURT KAUSS
DAVE O'BRIEN

ISKUT JV **PROJECT - TEST PIT**

Date: 19/10/90

1) **Location:** 3+845
23+80E 1990 grid checking 1988
270 ppm Cu
anomaly

2) **Description of Soil Horizon Development:**

dug pit 1.0m deep could not find
bedrock at this depth
A-horizon 20 cm, some roots/organics
layer of ash 10 cm
B-horizon 60 cm

3) **Description of Topography:**

30° NE slope
heavily wooded little a/c

4) **Results of Investigation:**

could not find bedrock
resampled anomaly to check
1988 results

031 **PROJECT - TEST PIT**

Date: Oct 18/90

1) **Location:** 90HOTP 5-E: L 2+88S/24+22E

2) **Description of Soil Horizon Development:**

Orange brown heavily oxidized rusty pods.
A horizon 8cm
B horizon 35cm
BC horizon 35cm
bedrock not reached
B-C contained orthoclase porphyry fragments 1% disseminated pyrite and minor clay.

3) **Description of Topography:**

30°W Heavily wooded mature forest with little underbush, mossy. Gulley 7m to South.

4) **Results of Investigation:**

Test pit revealed bedrock composed of phyllitic metased. in 5-15cm wide qtz vein 110/37S, <1% total sulphides.

031 **PROJECT - TEST PIT**

Date: Oct 19/90

1) **Location:** 90H031S-E; L2+60S/2G+83E

2) **Description of Soil Horizon Development:**
Dark red orange heavily oxidized rusty pods
A-horizon 20 cm
B-horizon 25 cm
Sheared bleached altered orthoclase porphyry fragment 1 to 3% pyrite with trace to 1% Po.

3) **Description of Topography:**
30° W Heavily wooded mature forest with little under-bush, mossy and had huckleberry bushes.

4) **Results of Investigation:**
The test pit revealed mineralized O.P. float, to the SE. sample 90H031R-001 was collected of my best O.P. ~ 5-10% Py as qtz filled fs.

Keewatin Engineering Inc.

ISKUT J.V. **PROJECT - TEST PIT** S. NOVAK.

Date: OCT 18 1990

1) **Location:** 15+50 N/24+50 E (OLD GRID)
1+45 S/23+75 E (NEW GRID)

2) **Description of Soil Horizon Development:**
Original hole not found. Test pit dug to a depth of 70 centimeters. Top 20 centimeters of hole consisted of dark Brown/black A horizon - lower fifty centimeters consisted of medium orange - Brown soil. Soil sample taken from bottom of test pit.

3) **Description of Topography:**
A 25° slope of moss covered and heavily timbered area

4) **Results of Investigation:**
VERY LITTLE/NO OUTCROP WAS FOUND IN IMMEDIATE AREA. A deep "B" horizon was noted to bottom of pit. (~70cm)

031 PROJECT - TEST PIT

NOVAK
TRAVIS
DAVIES

Date: Oct. 15/90

1) Location:

15:00 N / 26+25 E (on the '37 grid)
17+37 S / 26+25 E (1990)

2) Description of Soil Horizon Development:

A horizon → 10cm black in colour
B horizon → 35cm dark brown as well as reddish brown.

very thick, sticky + fine soil. Good development.

The hole is 2½ feet wide, 3½ feet long + 45cm deep.
It is on a 10° slope facing west.
Bedrock throughout the bottom of the hole.

3) Description of Topography:

Mature mature forest. Virgin timber. Gently sloping hills.

4) Results of Investigation:

Test pit reached a bedrock (Porphyry) on the depth of ~ 45cm

031 PROJECT - TEST PIT

LUTYNSKI
CAINES

Date: Oct 15, 1990

1) Location: 15+00N / 26+75E (1787)
1+37S / 26+75E (1990)

2) Description of Soil Horizon Development:

A horizon → 15cm deep
B horizon → 90 cm deep.

- Pit is 3½ feet deep. 3 feet wide and 4½ feet long.
Rock fragments throughout. The soil is very fine. Very good development.
- Hard clay-like soil at the bottom.

3) Description of Topography:

- Mature virgin forest.
Gently sloping hills.

4) Results of Investigation:

Test pit did not reach a bed rock.
No ash horizon.

A. TRAVIS.
S. NOVAK.

ISKUT J.V **PROJECT - TEST PIT**

Date: Oct 21/90

1) **Location:**

1+30S/26+52E (1987 GRID: 15+00N/26+75E)

2) **Description of Soil Horizon Development:**

TEST PIT DEPTH: 72 cm. A HORIZON: 20 cm. DARK BROWN TO BLACK. CLAY LAYER AT 30 cm, APPROX. 23 cm WIDE. GOOD B HORIZON, RED ORANGE IN COLOUR.

3) **Description of Topography:**

AREA WAS A MATURE FOREST WITH MOSS COVERED SOIL. LITTLE OR NO OUTCROP FOUND

4) **Results of Investigation:**

FOUND TRACE OF Cpy IN CLAY LAYER AT 30cm WHICH COULD LEAD INTO GEOCHEM RESULTS.

031 PROJECT - TEST PIT

Lutynski
DAVIES

Date: Oct 18, 1990

1) Location: 16+00 N / 22+50 E (1987)
L1100S / 22+50 E (1990)

2) Description of Soil Horizon Development:

A horizon → 20cm
B horizon → 100cm

Hole is 2 ft wide, 2 1/2 ft long, 3 ft deep.
Rock fragments are present.
Dark reddish brown soil. Very rooty.
The soil has an ash layer running through it. There is an inconsistant ash 15cm through the B horizon. At the end of it, there is a solid ash layer 2cm thick. B horizon continues with an orangy brown colour, flowing into a dark reddish brown.

Pit is in a gulley running at 279°, the hole is on the south bank.
The helipad (big one) is 75m E of the pit.

3) Description of Topography:

Mature forest
gentley sloping hills.

4) Results of Investigation:

Test pit did not reach bed rock
2 ash horizons were described.

Ishkt JV **PROJECT - TEST PIT**

Date: Oct 20/90

1) **Location:** 20+00E/0+00N

2) **Description of Soil Horizon Development:**

0-15cm. A Horizon, rooted, Dark brown, mossy
15-35cm. B Horizon, possible B/C mix bedrock float in B. soil is Red brown. good development.
35 cm 1.5 in. Hall in upper area of soil colour of Orange light brown. still bedrock fragments.

3) **Description of Topography:**

Area of anomaly has gullys to S.W. with creek to E. running almost N/S. most of surrounding area was fairly small hills and gullys

4) **Results of Investigation:**

No Cinnabar found.

McTague

Iskut J.V. **PROJECT - TEST PIT**

Date: Oct. 20/90

1) **Location:** 20+50E/01 78N

2) **Description of Soil Horizon Development:**

0-5cm mossy, dark brown

5-25cm orange brown, good dev.

25-90cm brown, clayish, good dev.

90-? creek bed, no bedrock, float with 1-3% sulfides

3) **Description of Topography:**

area of anomaly was in a dry creek bed with gullys running on each side. Mature forest and sparsely wooded.

4) **Results of Investigation:**

No Bed Rock. anomaly probably Derived from Mineralized float in Dry creek Bed - 90cm. Down.

McTague

Keewatin Engineering Inc.

Eskut J.V. **PROJECT - TEST PIT**

Date: Oct. 18/90

1) **Location:** 22+75 E / 0+90 N

2) **Description of Soil Horizon Development:**

0 - 7cm. A Horizon - rooted and mossy
7 - 12cm. B Horizon - good development
12 - 22 cm C Horizon

Gossan reached at 22 cm depth, heavily mineralized.

3) **Description of Topography:**

Area of anomaly has a slope of 25°
and is sparsely wooded.

4) **Results of Investigation:**

Anomaly Probably resulted from Gossan at 22 cm Depth.
Which is well mineralized

Keewatin Engineering Inc.

Mctague.

Isk. + S.V. **PROJECT - TEST PIT**

Date: Oct 18/90

1) Location: 24+25 E / 1+00 N

2) Description of Soil Horizon Development:

0-10 cm A horizon - mossy + rooted.
10 - 11.5 cm Ash horizon - small chunks in ash
11.5 cm - 45.0 cm. B horizon - good horizon developed.
45 - 55.0 cm C horizon

3) Description of Topography:

Area of Anomaly is usually 20° 30° in slope and are numerous gullys in area.

4) Results of Investigation:

No Bedrock was found

Steve McTague

Keewatin Engineering Inc.

APPENDIX 10

Drill Logs

LOCATION: 25m due 205° from DDH-I89-10 Collar; RPX Zone

DRILL HOLE LOG

HOLE NO. I90-1 | PAGE NO. 1 of 18

AZIM: 025°
DIP: -65°

ELEV: Approximately 150m
LENGTH: 174.04m

CORE SIZE: B.Q.

DIP TEST

METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.
177.04		-69°	-62°

PROPERTY: ISKUT JOINT VENTURE

CLAIM NO: Hemlo West 16
SECTION:

STARTED: June 15th, 1990
COMPLETED: June 17th, 1990
PURPOSE: To test lateral extension of mineralization found in top of I-89-7 and down dip extension of mineralization in I89-10

LOGGED BY: E.R. Honsinger
DATE LOGGED: June 16th, 1990
DRILLING CO: Falcon
ASSAYED BY: TSL

CORE RECOVERY: 96.73%

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
0	7.92	Overburden (casing) - rounded monzonite pebbles at bedrock contact										
7.92	9.45	Altered Greywacke - light greenish brown, crosscut by numerous quartz micro-stringers, < 1 to 3mm wide, 65° - moderately siliceous, carbonate fracture surface coatings, minor epidote, biotite alteration - some fracture surfaces limonitic - 1-2% pyrite, 1% pyrrhotite, trace chalcopyrite	29001 29002	7.92 8.92	8.92 9.92	1.00 1.00	<0.001 <0.001	<1 <1	<5 5	260 210	4 5	21 15
9.45	15.25	Silicified Greywacke - light greenish grey 9.45-10.08m - sheared, contorted discontinuous quartz veinlets up to 0.8cm wide, 1% pyrite 10.08-15.25m - fewer quartz veinlets and only local shear zones 2-4cm wide - abundant < 1mm wide pyrite/pyrrhotite filled fracture surfaces, overall 1-2% - 1cm wide barren quartz vein at 10.31m - sharp lower contact 60°	29003 29004 29005 29006 29007	9.92 10.92 11.92 12.92 13.92	10.92 11.92 12.92 13.92 15.25	1.00 1.00 1.00 1.00 1.33	<0.001 <0.001 <0.001 <0.001 <0.001	<1 <1 <1 <1 <1	5 15 <5 <5 <5	120 70 72 150 74	3 3 3 2 4	20 17 12 17 16
15.25	20.58	Altered Siltstone - light cream grey - bleached, moderately siliceous - local chloritic, slickensided fracture filling - very fine grained pyrite blebs on fracture surfaces, locally 2%	29008 29009 29010 29011	15.25 16.25 17.25 18.25	16.25 17.25 18.25 20.58	1.00 1.00 1.00 2.33	<0.001 <0.001 <0.001 <0.001	<1 <1 <1 <1	<5 5 <5 <5	15 27 22 26	5 4 5 5	18 14 19 21

DRILL HOLE LOG

INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
15.25	20.58 Cont.	- epidote chlorite altered fragment at 15.50-15.63m - sheared appearance - darker grey siltstone interbeds, locally argillaceous - crosscut by numerous quartz, chlorite and epidote veinlets, < 1mm wide, often discontinuous - light green calcite fracture filling blebs up to 2cm - gradational lower contact										
			29013	20.58	21.58	1.00	<0.001	<1	10	23	3	13
20.58	23.46	Sheared Altered Siltstone	29014	21.58	22.58	1.00	<0.001	<1	<5	21	4	16
		- light cream grey matrix with wavy dark grey < 1mm banding generally 65°	29015	22.58	23.46	0.88	<0.001	<1	10	44	4	16
		- ptygmatic 3-5mm barren milky white quartz veining between 20.78 and 21.94m - minor pyrite blebs (1%) on fracture surfaces - epidote and chlorite fracture fillings - silicified from 23.00-23.48m (cream yellow green quartz flooding between 23.00-23.18m) - brecciated sheared between 23.18-23.46m, tan brown - overall < 1% sulphides - calcite fracture surface coatings										
23.46	29.02	Interbedded Siltstone/Greywacke										
		- predominantly siltstone (approximately 80%)	29016	23.46	24.46	1.00	<0.001	<1	5	190	5	29
		23.46-24.79m - rock sheared, locally brecciated	29017	24.46	25.72	1.26	<0.001	<1	5	140	5	32
		- blebby calcite fracture surface coatings	29018	25.72	25.97	0.25	<0.001	<1	5	320	5	38
		- pyrite blebs and fracture fillings 1%	29019	25.97	26.97	1.00	<0.001	<1	<5	170	4	30
		- abundant discontinuous quartz and carbonate micro stringers (< 1mm wide)	29020	26.97	27.97	1.00	<0.001	<1	10	110	4	29
		25.14-26.57m - moderate to intense sulphides	29021	27.97	29.02	1.05	<0.001	<1	5	74	5	30
		25.72-25.97m - patchy, fine grained pyrrhotite blebs up to 1cm wide associated with quartz/carbonate veining, 7% pyrrhotite, 1-2% pyrite, trace arsenopyrite										
		- siltstone/greywacke banding (bedding?), approximately 15°										
		- overall 2% pyrrhotite, < 1% pyrite, trace arsenopyrite										

DRILL HOLE LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
29.02	37.49	Biotite Altered Greywacke	29022	29.02	30.02	1.00	<0.001	<1	5	180	5	29
		- medium brownish grey	29040	30.02	31.02	1.00	<0.001	<1	15	180	6	35
		- mottled appearance	29041	31.02	32.02	1.00	<0.001	<1	15	170	6	29
		- numerous discontinuous calcite veinlets < 1mm wide	29042	32.02	33.02	1.00	<0.001	<1	10	150	6	22
		- local biotite alteration intense, coarse grained, with silvery pyrrhotite (2%)	29043	33.02	34.02	1.00	<0.001	<1	10	110	7	32
			29044	34.02	35.02	1.00	<0.001	<1	10	110	7	31
		- patchy yellow calcite fracture filling	29045	35.02	36.02	1.00	<0.001	<1	10	130	6	27
		- upper contact has 0.5cm wide (1% pyrrhotite) quartz/calcite veinlet, 80°	29046	36.02	37.02	1.00	<0.001	<1	5	120	8	27
			29047	37.02	37.49	0.47	<0.001	<1	10	290	7	35
		- minor intercalated siltstone 0.30-1.7m, moderate to intense silicified, chloritic fractures 70°										
		- siltstone contains fewer crosscutting calcite veinlets than greywacke										
		- calcite micro-veinlets increase with depth (average 11cm to 21cm)										
		- overall 1% pyrrhotite (very silvery) <1% pyrite, trace arsenopyrite, chalcopyrite										
		29.45-29.59m - breccia, silicified, intercalated greywacke/siltstone with 7% pyrrhotite, 1% pyrite, trace arsenopyrite, strong biotite alteration										
		30.00-30.02m - 1.0-2.0 cm wide contorted quartz vein with 1-2% pyrrhotite, trace pyrite										
		32.02m - sharp contact with overlying moderately silicified siltstone and underlying biotite altered greywacke, 15° (quartz filled 0.5cm)										
		34.86-35.06m - sheared, micro faulted silicified intercalated siltstone/greywacke, 11° (fragmental)										
		37.31-37.49m - very coarse grained biotite altered greywacke with tin silver pyrrhotite, approximately 5%										
37.49	49.21	Chlorite Altered Siltstone	29048	37.49	37.99	0.50	<0.001	<1	5	120	6	23
		- greenish grey to dark grey	29049	37.99	38.99	1.00	<0.001	<1	5	100	6	21
		- minor intercalated moderate biotite altered greywacke	29050	38.99	39.99	1.00	<0.001	<1	10	90	6	24
		- moderate to intense silicification	29051	39.99	40.99	1.00	<0.001	<1	10	200	5	23
		- green rocks generally chlorite altered greywacke	29052	40.99	41.99	1.00	<0.001	<1	15	150	5	25
		- local cream yellow feldspar alteration, invariably associated with intensely silicified rocks in breccia matrix	29061	41.99	42.99	1.00	<0.001	<1	<5	130	7	26
			29053	42.99	43.99	1.00	<0.001	<1	<5	150	5	30
		- quartz veinlets 1-2mm, locally up to 10% pyrrhotite, 3% pyrite, <1% chalcopyrite	29054	43.99	44.99	1.00	<0.001	<1	15	130	5	24
			29055	44.99	43.99	1.00	<0.001	<1	10	37	5	23
		- greasy chloritic fracture fillings	29056	45.99	46.99	1.00	<0.001	<1	10	56	5	25
			29057	46.99	47.99	1.00	<0.001	<1	15	110	6	22

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
37.49	49.21 Cont.	- sheared between 43.40-43.80m, with sharp upper contact with greywacke 82° - overall 3% pyrrhotite, 1% pyrite, < 1% chalcopyrite 37.59-37.99m - sheared, brecciated, silicified, contorted, with 1-3mm crosscutting quartz veinlets which contain 5-8% pyrrhotite, 3% pyrite (only in veinlets), trace chalcopyrite ± arsenopyrite? 43.40-43.80m - as 37.59-37.99m but 2-4% pyrrhotite, 1% pyrite, trace chalcopyrite 46.02-46.57m - as 43.40-43.80m	29058	47.99	49.21	1.22	<0.001	<1	20	98	7	24
49.21	51.25	Sheared, Brecciated Chlorite Altered Siltstone - greenish grey - moderately to intensely silicified - minor sheared intercalated chlorite altered greywacke - shear direction generally 65°, but also randomly orientated 1mm crosscutting quartz veinlets - unsheared section between 49.99-50.25m with carbonate fracture fillings at 50.25m - local unsilicified, unsheared sections with 1mm calcite veinlets, chloritic, moderately graphitic fracture surfaces - overall 2% pyrrhotite, < 1% pyrite	29059 29060	49.21 50.21	50.21 51.25	1.00 1.04	<0.001 0.001	<1 <1	15 <5	110 92	6 3	27 40
51.25	53.09	Moderately Chloritic Siltstone - greenish grey - moderately sheared - locally siliceous, crosscut by numerous discontinuous 1-2mm quartz/calcite veinlets, 60° - chloritic, graphitic fracture filling - patchy limonitic blebs on fractures - 0.1cm to 1.5cm bands of greywacke, 85°, within these bands discontinuous 1-2mm quartz/carbonate veinlets 65°, many of which are probable tension gashes - overall 1-2% pyrrhotite, 1% pyrite, trace chalcopyrite, at lower contact 1.5cm wide quartz vein 80°, 1% pyrrhotite	29088	51.25	53.09	1.84	0.001	<1	5	160	2	30
53.09	59.24	Sheared Interbedded Siltstone/Greywacke - similar to above but with brecciated sections and greywacke interbeds - local ptygmatic folding of bands across 1cm - siltstone generally silicified, chlorite altered - greywacke interbeds biotite altered	29062 29063 29064	53.09 55.09 57.09	55.09 57.09 59.24	2.00 2.00 2.15	<0.001 <0.001 0.004	<1 <1 <1	<5 10 <5	220 130 120	3 1 <1	33 25 31

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
53.09	59.24 Cont.	57.39-58.26m - 90% greywacke, moderately biotite altered with minor 0.2-3.0cm green chlorite altered siltstone - abundant quartz filled tension gashes, generally 70° but also random - overall 1-2% pyrrhotite, 1% pyrite, trace chalcopyrite, mainly along veinlets - irregular lower contact										
59.24	63.03	Interbedded Siltstone/Greywacke - greenish grey, locally siliceous, sheared - moderately biotite altered (mainly greywacke) and chlorite altered (mainly siltstone) - 0.5-4.0cm quartz vein at 59.55m - greasy chloritic fracture fillings - abundant 1mm wide, average 2-4cm long calcite filled tension gashes in siltstone (minor in greywacke) - overall <1% pyrite, pyrrhotite 62.78-62.84m - quartz/carbonate veining with greywacke bands 1-2mm, 55°, <1% total sulphides	29065 29066	59.24 61.24	61.24 63.03	2.00 1.79	0.020 0.005	<1 <1	<5 <5	100 82	<1 <1	44 47
63.03	68.67	Sheared Interbedded Greywacke/Minor Siltstone - dark greenish to brownish grey - yellow brown patchy calcite fracture fillings - medium to fine grained - moderate biotite alteration - moderate chlorite alteration - minor feldspar/siliceous alteration locally with 3% pyrrhotite - generally not siliceous - minor local brecciation 64.31-64.84m - abundant calcite filled, 1-2mm tension gashes, <1% sulphides and again at 65.75-67.67m, where calcite content relatively abundant, tension gashes randomly orientated - calcite veinlets 1-2mm, 65° - overall <1% pyrrhotite >pyrite	29067 29068 29069 29070	63.03 64.39 65.75 67.19	64.39 65.75 67.19 68.67	1.36 1.36 1.44 1.48	0.004 0.007 0.006 <0.001	<1 <1 <1 <1	<5 10 15 60	110 66 99 99	<1 <1 <1 <1	41 60 53 51
68.67	71.13	Sheared Silicified Siltstone - brownish grey to dark green - lesser greywacke interbeds (20%) - contorted quartz veinlets with tension gashes, 1mm wide	29071 29072	68.67 69.87	69.87 71.13	1.20 1.26	<0.001 <0.001	<1 <1	10 <5	46 94	<1 2	41 37

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
68.67	71.13 Cont.	- local intense brecciation, chlorite altered, quartz flooded breccia at 71.56-71.60m - shear direction appears 25-30° 68.01-68.09m - intensely chlorite altered greywacke fragments - overall <1% pyrrhotite, >pyrite										
71.13	91.24	Sheared Greywacke with Minor Siltstone	29073	71.13	73.13	2.00	0.005	<1	<5	72	<1	39
		- brownish green	29074	73.13	75.13	2.00	0.011	<1	5	190	<1	40
		- moderate chlorite ± biotite alteration	29075	75.13	76.63	1.50	0.009	<1	260	230	4	94
		- not silicified	29076	76.63	78.13	1.50	0.001	<1	20	210	2	40
		- 1-3mm wide quartz/calcite veinlets and tension gashes	29023	78.13	78.63	0.50	<0.001	<1	15	400	3	18
		- quartz/calcite veinlets 85°, tension gashes random	29086	78.63	79.77	1.14	0.004	<1	10	370	<1	17
		- overall 1% pyrrhotite > >pyrite, trace ± arsenopyrite?	29087	79.77	80.92	1.15	0.002	<1	140	280	2	20
		- gradational upper contact	29024	80.92	81.67	0.75	0.004	<1	490	430	6	21
		- siltstone interbeds becoming more frequent with depth	29025	81.67	82.67	1.00	0.005	<1	20	290	3	14
		- siltstone silicified, chlorite altered (dark greenish grey)	29077	82.67	83.63	0.96	0.005	<1	430	240	3	21
		- local 0.5cm siltstone/greywacke banding 35°	29078	83.63	85.63	2.00	0.003	<1	360	240	2	19
		- overall 1% pyrrhotite > >pyrite, trace chalcopyrite	29079	85.63	87.63	2.00	0.007	<1	220	120	<1	29
		78.13-78.63m - quartz vein breccia, light cream yellow subrounded 0.5-1.0cm siliceous clasts in dark grey greywacke matrix with 3-5% pyrrhotite, 1% pyrite, trace ± arsenopyrite? 2% chalcopyrite	29080	87.63	89.63	2.00	<0.001	<1	90	80	<1	31
			29081	89.63	90.40	0.77	<0.001	<1	10	120	<1	36
			29026	90.40	90.75	0.35	0.006	<1	20	420	3	18
		80.92-81.67m - sheared siltstone/greywacke, locally brecciated, sulphide bearing fracture fillings, 65° 3% pyrrhotite, 1-2% pyrite, 1% chalcopyrite, <1% arsenopyrite, locally up to 2% arsenopyrite as in 0.5cm quartz vein, 60° along contact at 81.21m										
		81.67-82.67m - reduced shearing and brecciation than above sample, chlorite altered, 3% pyrrhotite, 1% pyrite, <1% arsenopyrite										
		90.40-90.75m - chlorite ± biotite altered greywacke with numerous sheared quartz veinlets, 1-2mm wide. 2% pyrrhotite (mainly as fracture fillings), 1% pyrite, possible 1-2% arsenopyrite (tin silver fine grained aggregates ± disseminated pyrrhotite, appears magnetic due to pyrrhotite?)										

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
91.24	97.14	Silicified Siltstone	29083	90.75	92.24	1.49	<0.001	<1	10	140	<1	20
		- dark greenish grey, very fine grained	29084	92.24	93.24	1.00	<0.001	<1	10	140	<1	18
		- segmented 0.5-2.5cm wide siliceous banding, generally 35°	29085	93.24	93.81	0.57	<0.001	<1	5	120	2	21
			29027	93.81	94.31	0.50	0.004	<1	15	290	5	25
		- local pyrrhotite (6%), pyrite 2% on <1mm wide fracture fillings	29089	94.31	95.38	1.07	<0.001	<1	20	210	2	23
			29090	95.38	96.46	1.08	<0.001	<1	40	160	<1	16
		- relatively few crosscutting quartz/calcite veinlets, 67°, <1mm wide	29028	96.46	97.14	0.68	0.008	<1	10	450	5	20
		93.81-94.31m - sheared quartz flooded biotite altered greywacke with irregular dark grey siltstone clasts, abundant rounded quartz blebs ± chlorite, 3-5% pyrrhotite, <1% chalcopyrite, pyrite										
		96.46-97.14m - sheared locally brecciated biotite ± chlorite altered greywacke. Mineralization associated with contorted 4mm wide quartz veins. 1-2mm wide quartz/calcite veinlets 25°, tension gashes random and perpendicular to veinlets; 3% pyrrhotite, 1-2% pyrite, trace chalcopyrite										
		- overall 1-2% pyrrhotite, 1% pyrite, trace chalcopyrite										
97.14	100.89	Biotite Altered Greywacke, Minor Siltstone	29091	97.14	99.14	2.00	0.003	<1	40	160	<1	44
		- tan brown to greenish grey	29092	99.14	100.89	1.75	<0.001	<1	5	97	<1	39
		- abundant patchy calcite blebs on fracture fillings										
		- sheared texture from 98.75-99.80m, contains 1-2mm wide quartz calcite veinlets										
		99.90-99.94m - sheared quartz calcite veinlet with 5% pyrrhotite, 2% pyrite, 60°										
		- overall <1% pyrite, pyrrhotite										
100.89	103.65	Silicified Siltstone	29093	100.89	102.27	1.38	<0.001	<1	5	100	1	20
		- greenish grey	29094	102.27	103.65	1.38	<0.001	<1	35	41	7	21
		- chlorite altered ± biotite										
		- local interbeds of greywacke										
		- brecciated between 103.01-103.65m										
		- marked reduction in quartz/calcite veinlets										
		- overall <1% pyrite, pyrrhotite										

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
103.65	104.14	Breccia - siltstone clasts 0.5 to 2.0cm, quartz/calcite and chlorite altered greywacke matrix - no visible sulphides - siltstone clasts, moderately siliceous - matrix not silicified	29095	103.65	104.14	0.49	<0.001	<1	15	25	9	25
104.14	106.57	Altered Greywacke - moderately biotite altered, tan brown - very fine grained, possible siltstone - quartz/calcite 1mm veinlets 20° - calcite fracture fillings - overall < 1% pyrrhotite > pyrite	29096 29097	104.14 105.35	105.35 106.56	1.21 1.21	<0.001 <0.001	<1 <1	65 55	31 24	11 12	28 31
106.57	106.95	Calcite and Lesser Quartz Vein - 80% calcite, 20% quartz - upper contact irregular (45°?), brecciated - lower contact irregular, brecciated - contains subrounded 1.0-4.0cm wide brown greywacke fragments - minor chlorite veinlets - 7-10% pyrrhotite as blebs, < 1% pyrite	29098	106.56	106.95	0.39	<0.001	<1	45	19	5	51
106.95	110.12	Altered Siltstone, Minor Greywacke - moderately biotite altered ± chlorite - crosscut by dark greenish gray (chlorite?) 1mm veinlets 55°, and 1mm quartz/calcite veinlets - locally brecciated - blebby calcite fracture fillings - minor pyrite/pyrrhotite fracture fillings (patchy) - overall 1% pyrite > > pyrrhotite 110.05-110.12m- (lower contact) quartz/calcite vein, barren, with greasy chlorite fracture filling, possible sericite at 110.05m, 35°; overall < 1% pyrite, pyrrhotite	29099 29100	106.95 107.95	107.95 110.12	1.00 2.17	<0.001 <0.001	<1 <1	100 70	16 15	9 8	52 28
110.12	112.53	Biotite Altered Greywacke, Minor Siltstone - quartz/calcite veinlets and veins increasing in density with depth - local remnant banding, 0.5cm - randomly orientated tension gashes - sheared quartz/calcite veining at 110.92-111.08m	29101 29102	110.12 110.92	110.92 112.51	0.80 1.59	<0.001 <0.001	<1 <1	55 25	54 48	9 15	110 280

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
110.12	112.53 Cont.	- abundant fine grained pyrite (4-6%) at 111.08m and 112.44m along fracture fillings (after above veining) 112.44-112.51m- quartz calcite veining - irregular upper and lower contact - overall, 3% pyrite, <1% pyrrhotite										
112.53	115.24	Silicified Siltstone/Greywacke - brown to greenish grey - patchy calcite blebs on fracture surfaces - quartz/calcite filled tension gashes - minor sub-mm sized quartz/calcite veinlets 30° - 3cm wide quartz vein 60°, <1% pyrite at 113.97m and 114.74m - overall, 2-3% pyrite, <1% pyrrhotite - lower contact quartz vein 65° - abundant calcite and pyrite (local 10%) along fracture fillings, 5°	29103 29104	112.51 114.51	114.51 115.24	2.00 0.73	<0.001 <0.001	<1 <1	25 20	49 68	9 7	42 30
115.24	115.34	Quartz Vein - milky white, no visible sulphides - irregular upper and lower contact										
115.34	119.34	Silicified Siltstone/Minor Greywacke - greenish grey - crosscut by 1-3mm quartz >> calcite veinlets, 55° density 1-2 per 10cm, with occasional blebs of pyrrhotite >> pyrite - locally brecciated generally at greywacke/siltstone contacts (35°?) - pyrite blebs along fresh surfaces, approximately 1-2% - pyrrhotite blebs generally associated with quartz/calcite veinlets 1-2% 117.13-117.28m- sheared quartz vein, upper contact approximately 50°, lower contact irregular, 1% pyrite - overall 1-2% pyrrhotite, 1-2% pyrite	29105 29106	115.24 117.24	117.24 119.34	2.00 2.10	<0.001 <0.001	<1 <1	25 30	84 66	14 8	37 24
119.34	126.98	Altered Interbedded Greywacke/Siltstone - siltstone greenish gray, greywacke tan brown - moderate to extensive biotite > chlorite alteration - sheared, local brecciated - blebby calcite fracture fillings, 75°	29107 29108 29109 29110	119.34 121.34 123.34 125.34	121.34 123.34 125.34 126.98	2.00 2.00 2.00 1.64	<0.001 <0.001 <0.001 <0.001	<1 <1 <1 <1	20 <5 5 15	61 81 72 35	10 1 2 <1	32 29 12 14

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
119.34	126.98 Cont.	124.00-124.32m- completely silicified, light green siltstone? 1-2% pyrite - brecciated between 125.62-126.23, < 1% pyrite, pyrrhotite - irregular lower contact - overall < 1% pyrite > pyrrhotite										
126.98	131.65	Heavily Altered Meta Sediments - pinkish brown to light cream brown - generally brecciated quartz/calcite matrix (10%) - heavy propylitic alteration, chlorite, epidote, calcite - interbedded, banded siltstone? and greywacke? - locally strongly siliceous, bleached - local feldspar quartz alteration at 129.02-129.07m 127.03-127.85m- quartz flooded, brecciated 1-2% pyrite, pyrrhotite 128.84-129.40m- quartz flooded, 2% pyrite 130.31-131.64m- blocky, fractured, pitted, < 1% pyrite, pyrrhotite - overall < 1% pyrrhotite, < 1% pyrite	29111 29112 29113	126.98 128.84 130.31	128.84 130.31 131.64	1.86 1.47 1.33	<0.001 0.015 <0.001	<1 <1 <1	15 10 5	53 200 52	1 <1 <1	36 26 25
131.65	133.61	Partly Silicified, Sheared Siltstone/Greywacke - greenish brown - moderate chlorite, biotite alteration - locally brecciated, especially in strongly siliceous zones - crosscut by abundant quartz/calcite veinlets, 60° with random tension gashes - siltstone 70%, greywacke 30% - overall 1% pyrite > pyrrhotite	29114	131.64	133.61	1.97	<0.001	<1	5	69	2	19
133.61	136.78	Biotite Altered Greywacke - speckled tan brown with 1-2mm dark brown biotite clasts - locally brecciated, chlorite altered - scattered 1-2mm wide 3% pyrite > pyrrhotite bearing quartz > calcite veinlets, density approximately 3 per metre - sulphide mineralization associated with 1-2mm wide quartz/calcite veinlets - overall 1% pyrite > pyrrhotite, trace ± arsenopyrite? 137.31-137.39m- milky white quartz vein, irregular upper contact, 40° lower contact, 1% pyrite, 1% pyrrhotite	29115 29116	133.61 135.61	135.61 136.78	2.00 1.17	<0.001 <0.001	<1 <1	<5 <5	190 130	<1 <1	25 41

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
136.78	141.63	Altered Interbedded Siltstone/Greywacke - brownish green - calcite fracture fillings, 65° - greywacke/siltstone 0.5cm banding 65° - pyrite blebs, 2%, on fracture fillings - overall pyrite > pyrrhotite, <1% to 1% 136.78-137.28m- sheared contorted quartz vein, abundant fine grained biotite, chlorite altered, 1% pyrrhotite > pyrite, trace chalcopyrite - greywacke interbeds strongly biotite altered - local siliceous, brecciated	29117 29118 29119	136.78 138.40 140.02	138.40 140.02 141.63	1.62 1.62 1.61	<0.001 <0.001 <0.001	<1 <1 <1	<5 <5 <5	98 55 110	<1 <1 <1	98 52 28
141.63	143.64	Biotite Altered, Bleached Greywacke - light tan brown to dark green - calcite veinlets, 1-2mm 30° - locally brecciated - mottled appearance in greywacke - siltstone siliceous, patchy chlorite ± biotite alteration - overall 1-2% pyrrhotite > pyrite	29120	141.63	143.64	2.01	<0.001	<1	<5	110	<1	27
143.64	145.24	Silicified Siltstone - greenish gray - rare 1mm calcite veinlets 20-30° - pyrrhotite > pyrite 2% overall	29121	143.64	145.24	1.60	<0.001	<1	<5	280	<1	16
145.24	145.89	Biotite Altered Greywacke - tan brown - quartz veinlets 1-2mm, 60° - medium grained - gradational upper and lower contact - overall 2% pyrrhotite >> pyrite	29122	145.24	145.89	0.65	<0.001	<1	<5	120	<1	37
145.89	146.98	Interbedded Siltstone/Greywacke - tan brown to greenish grey - sheared quartz flooded chlorite altered zone at 146.37-146.61m - sharp lower contact 70° - overall 2% pyrrhotite >> pyrite	29123	145.89	146.98	1.09	<0.001	<1	15	140	10	25

DRILL HOLE LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
146.98	147.69	Silicified Siltstone - green to bluish gray - minor quartz filled tension gashes - overall 2% pyrrhotite > > pyrite - gradational lower contact	29124	146.98	147.69	0.71	0.003	<1	10	410	7	29
147.69	149.28	Quartz Flooded Interbedded Siltstone/Greywacke - mottled cream brown - sheared - contains subrounded quartz clasts 3mm to 1cm - low sulphides, pyrrhotite <1%, trace pyrite - strong biotite ± chlorite alteration	29125	147.69	149.28	1.59	<0.001	<1	10	190	7	19
149.28	153.59	Sheared Moderately Silicified Greywacke	29126	149.28	150.28	1.00	<0.001	<1	10	49	10	32
		- dark greenish gray	29127	150.28	151.59	1.31	<0.001	<1	10	45	10	30
		- ubiquitous, subrounded 1-3mm quartz porphyroblasts	29128	151.59	152.59	1.00	0.003	<1	20	29	9	27
		- sulphide content increasing with depth from 1% pyrite > > pyrrhotite to 2-3%	29129	152.59	153.59	1.00	<0.001	<1	25	32	12	35
		- overall 1-2% pyrite, <1% pyrrhotite										
153.59	157.17	Sheared Silicified Siltstone	29130	153.59	154.59	1.00	<0.001	<1	20	20	11	33
		- greenish gray	29131	154.59	155.59	1.00	<0.001	<1	15	82	8	24
		- strong chlorite alteration	29132	155.59	156.59	1.00	<0.001	<1	20	56	8	21
		- locally brecciated, quartz flooded	29133	156.59	157.17	0.58	<0.001	<1	15	77	7	16
		- patchy pyrrhotite blebs, locally 4%, 1% pyrite										
		- abundant quartz filled randomly orientated tension gashes, 1-2mm wide										
		- chlorite veinlets 1mm 74°, quartz and chlorite veinlets 32°										
		- overall 2% pyrrhotite > > pyrite ± trace arsenopyrite										
157.17	162.95	Sheared Interbedded Siltstone/Greywacke	29134	157.17	157.94	0.77	0.003	<1	15	160	11	30
		- greenish gray	29135	157.94	158.79	0.85	<0.001	<1	15	350	9	29
		- shear direction approximately 66°	29136	158.79	159.64	0.85	<0.001	<1	5	170	9	34
		- generally silicified, numerous quartz filled tension gashes	29137	159.64	160.49	0.85	<0.001	<1	15	280	14	38
		- strong chlorite and biotite alteration	29138	160.49	161.72	1.23	<0.001	<1	15	66	18	40
		- increased sulphide content, overall 3% pyrrhotite, 1% pyrite, trace chalcopyrite, arsenopyrite	29139	161.72	162.95	1.23	<0.001	<1	<5	51	42	190
		157.94-158.79m- intensely sheared siltstone and greywacke with abundant contorted discontinuous quartz veinlets, pyrrhotite 3-4%, pyrite 2%, trace chalcopyrite ± arsenopyrite										

INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
157.17	162.95 Cont.	158.79-159.64m- sheared siltstone and greywacke with subrounded 0.2-1.5cm quartz clasts, pyrrhotite 2-3%, pyrite 1% as disseminations and along fracture fillings and tension gashes 159.64-162.95m- biotite altered greywacke, calcite fracture fillings 50°, pyrrhotite 1-2% > pyrite										
162.95	164.35	Quartz Vein - milky white, includes clasts of biotite and chlorite altered wall rocks? - upper contact 50°, lower contact irregular - overall <1% to 1% pyrite >> pyrrhotite 163.95-164.35m- brecciated, with biotite altered, brown greywacke angular clasts, 0.1 to 2.0cm wide. Calcite crystals up to 0.4cm	29029	162.95	164.35	1.40	0.003	<1	25	19	2	11
164.35	172.71	Biotite Altered Greywacke - lesser interbeds of siltstone, often siliceous - numerous crosscutting quartz/calcite veinlets, 1-2mm wide and tension gashes with pyrite locally up to 30% across 1mm wide fracture fillings - rocks generally sheared, local silicified - pyrite >>> pyrrhotite, overall pyrite 2%, pyrrhotite <1%, trace chalcopyrite, abundant calcite fracture fillings 167.66-167.79m- calcite and minor quartz, lower contact 42°, upper contact irregular, 1% pyrite >> pyrrhotite 170.37-170.85m- biotite altered greywacke with 1.0-1.5cm wide quartz > calcite filled fractures, chlorite altered, 05°, sheared, 30% pyrite, 2% pyrrhotite 171.27-171.62m- milky white to brown 1-2cm angular quartz rubble, very poor recovery (10%?) <1% pyrite, lower contact sheared siltstone/greywacke	29030 29031 29032 29033 29034 29035 29036 29037 29038	164.35 165.35 166.35 167.35 168.35 169.35 170.37 170.85 171.71	165.35 166.35 167.35 168.35 169.35 170.37 170.85 171.71 172.71	1.00 1.00 1.00 1.00 1.00 1.02 0.48 0.86 1.00	<0.001 <0.001 <0.001 <0.001 <0.001 0.006 0.004 <0.001 <0.001	<1 <1 <1 <1 <1 <1 <1 <1 <1	30 10 15 10 5 5 10 15 20	46 56 38 75 170 170 310 310 250	9 8 7 2 1 2 6 7 3	46 43 35 24 27 30 31 45 31
172.71	174.04	Biotite Altered Blocky, Rubbly Greywacke - very poor recovery (20%?), sheared - abundant calcite fracture fillings - overall 2% pyrite >> pyrrhotite mainly as <1mm scattered cubes and dissemination 173.80-173.88m- quartz vein rubble with 1% pyrite	29039	172.71	174.04	1.33	<0.001	<1	15	130	1	38

DRILL HOLE LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
172.71	174.04 Cont.	- rocks generally pitted - shear direction 45-50° - approximately 30% recovery at 172.53-174.04 - END OF HOLE - 174.0m/571 ft.										

KEEWATIN ENGINEERING INC.

Keewatin Engineering Inc. DRILL LOG Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29001	7.92	8.92	1.00		81	-0.19		<0.001		<1	<5	260	4	21
29002	8.92	9.92	1.00		83	-0.17		<0.001		<1	5	210	5	15
29003	9.92	10.92	1.00		63	-0.37		<0.001		<1	5	120	3	20
29004	10.92	11.92	1.00		64	-0.36		<0.001		<1	15	70	3	17
29005	11.92	12.92	1.00		88	-0.12		<0.001		<1	<5	72	3	12
29006	12.92	13.92	1.00		88	-0.12		<0.001		<1	<5	150	2	17
29007	13.92	15.25	1.33		91	-0.12		<0.001		<1	<5	74	4	16
29008	15.25	16.25	1.00		92	-0.08		<0.001		<1	<5	15	5	18
29009	16.25	17.25	1.00		93	-0.07		<0.001		<1	5	27	4	14
29010	17.25	18.25	1.00		93	-0.07		<0.001		<1	<5	22	5	19
29011	18.25	20.58	2.33		99	-0.02		<0.001		<1	<5	26	5	21
29013	20.58	21.58	1.00		100	0.00		<0.001		<1	10	23	3	13
29014	21.58	22.58	1.00		100	0.00		<0.001		<1	<5	21	4	16
29015	22.58	23.46	0.88		100	0.00		<0.001		<1	10	44	4	16
29016	23.46	24.46	1.00		100	0.00		<0.001		<1	5	190	5	29
29017	24.46	25.72	1.26		99	-0.01		<0.001		<1	5	140	5	32
29018	25.72	25.97	0.25		96	-0.01		<0.001		<1	5	320	5	38
29019	25.97	26.97	1.00		100	-0.01		<0.001		<1	<5	170	4	30
29020	26.97	27.97	1.00		99	-0.01		<0.001		<1	10	110	4	29
29021	27.97	29.02	1.05		99	-0.01		<0.001		<1	5	74	5	30
29022	29.02	30.02	1.00		99	-0.01		<0.001		<1	5	180	5	29
29040	30.02	31.02	1.00		99	-0.01		<0.001		<1	15	180	6	35
29041	31.02	32.02	1.00		98	-0.02		<0.001		<1	15	170	6	29
29042	32.02	33.02	1.00		98	-0.02		<0.001		<1	10	150	6	22
29043	33.02	34.02	1.00		97	-0.03		<0.001		<1	10	110	7	32
29044	34.02	35.02	1.00		95	-0.05		<0.001		<1	10	110	7	31
29045	35.02	36.02	1.00		95	-0.05		<0.001		<1	10	130	6	27
29046	36.02	37.02	1.00		95	-0.05		<0.001		<1	5	120	8	27
29047	37.02	37.49	0.47		98	-0.01		<0.001		<1	10	290	7	35
29048	37.49	37.99	0.50		98	-0.01		<0.001		<1	5	120	6	23
29049	37.99	38.99	1.00		97	-0.03		<0.001		<1	5	100	6	21
29050	38.99	39.99	1.00		97	-0.03		<0.001		<1	10	90	6	24
29051	39.99	40.99	1.00		94	-0.06		<0.001		<1	10	200	5	23
29052	40.99	41.99	1.00		94	-0.06		<0.001		<1	15	150	5	25
29061	41.99	42.99	1.00		94	-0.06		<0.001		<1	<5	130	7	26

Keewatin Engineering Inc. **DRILL LOG** **Sample Data**

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29053	42.99	43.99	1.00		95	-0.05		<0.001		<1	<5	150	5	30
29054	43.99	44.99	1.00		95	-0.05		<0.001		<1	15	130	5	24
29055	44.99	45.99	1.00		95	-0.05		<0.001		<1	10	37	5	23
29056	45.99	46.99	1.00		95	-0.05		<0.001		<1	10	56	5	25
29057	46.99	47.99	1.00		94	-0.06		<0.001		<1	15	110	6	22
29058	47.99	49.21	1.22		96	-0.06		<0.001		<1	20	98	7	24
29059	49.21	50.21	1.00		94	-0.06		<0.001		<1	15	110	6	27
29060	50.21	51.25	1.04		96	-0.05		0.001		<1	<5	92	3	40
29088	51.25	53.09	1.84		95	-0.11		0.001		<1	5	160	2	30
29062	53.09	55.09	2.00		102	+0.04		<0.001		<1	<5	220	3	33
29063	55.09	57.09	2.00		100	0.00		<0.001		<1	10	130	1	25
29064	57.09	59.24	2.15		92	-0.17		0.004		<1	<5	120	<1	31
29065	59.24	61.24	2.00		95	-0.09		0.020		<1	<5	100	<1	44
29066	61.24	63.03	1.79		95	-0.09		0.005		<1	<5	82	<1	47
29067	63.03	64.39	1.36		98	-0.03		0.004		<1	<5	110	<1	41
29068	64.39	65.75	1.36		94	-0.08		0.007		<1	10	66	<1	60
29069	65.75	67.19	1.44		99	-0.01		0.006		<1	15	99	<1	53
29070	67.19	68.67	1.48		111	+0.16		<0.001		<1	60	99	<1	51
29071	68.67	69.87	1.20		103	+0.03		<0.001		<1	10	46	<1	41
29072	69.87	71.13	1.26		94	-0.07		<0.001		<1	<5	94	2	37
29073	71.13	73.13	2.00		91	-0.17		0.005		<1	<5	72	<1	39
29074	73.13	75.13	2.00		101	+0.02		0.011		<1	5	190	<1	40
29075	75.13	76.63	1.50		95	-0.07		0.009		<1	260	230	4	94
29076	76.63	78.13	1.50		102	+0.03		0.001		<1	20	210	2	40
29023	78.13	78.63	0.50		108	+0.04		<0.001		<1	15	400	3	18
29086	78.63	79.77	1.14		96	-0.04		0.004		<1	10	370	<1	17
29087	79.77	80.92	1.15		105	+0.06		0.002		<1	140	280	2	20
29024	80.92	81.67	0.75		103	+0.02		0.004		<1	490	430	6	21
29025	81.67	82.67	1.00		108	+0.08		0.005		<1	20	290	3	14
29077	82.67	83.63	0.96		111	+0.11		0.005		<1	430	240	3	21
29078	83.63	85.63	2.00		97	-0.05		0.003		<1	360	240	2	19
29079	85.63	87.63	2.00		105	+0.10		0.007		<1	220	120	<1	29
29080	87.63	89.63	2.00		102	+0.04		<0.001		<1	90	80	<1	31
29081	89.63	90.40	0.77		104	+0.03		<0.001		<1	10	120	<1	36
29026	90.40	90.75	0.35		103	+0.01		0.006		<1	20	420	3	18

Keewatin Engineering Inc. DRILL LOG Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29083	90.75	92.24	1.49		95	-0.08		<0.001		<1	10	140	<1	20
29084	92.24	93.24	1.00		102	+0.02		<0.001		<1	10	140	<1	18
29085	93.24	93.81	0.57		98	-0.01		<0.001		<1	5	120	2	21
29027	93.81	94.31	0.50		106	+0.03		0.004		<1	15	290	5	25
29089	94.31	95.38	1.07		98	-0.02		<0.001		<1	20	210	2	23
29090	95.38	96.46	1.08		104	+0.04		<0.001		<1	40	160	<1	16
29028	96.46	97.14	0.68		100	0.00		0.008		<1	10	450	5	20
29091	97.14	99.14	2.00		93	-0.13		0.003		<1	40	160	<1	44
29092	99.14	100.89	1.75		102	+0.03		<0.001		<1	5	97	<1	39
29093	100.89	102.27	1.38		107	+0.10		<0.001		<1	5	100	1	20
29094	102.27	103.65	1.38		98	-0.03		<0.001		<1	35	41	7	21
29095	103.65	104.14	0.49		102	+0.01		<0.001		<1	15	25	9	25
29096	104.14	105.35	1.21		99	-0.01		<0.001		<1	65	31	11	28
29097	105.35	106.56	1.21		103	+0.04		<0.001		<1	55	24	12	31
29098	106.56	106.95	0.39		89	-0.05		<0.001		<1	45	19	5	51
29099	106.95	107.95	1.00		95	-0.05		<0.001		<1	100	16	9	52
29100	107.95	110.12	2.17		101	+0.02		<0.001		<1	70	15	8	28
29101	110.12	110.92	0.80		104	+0.03		<0.001		<1	55	54	9	110
29102	110.92	112.51	1.59		93	-0.11		<0.001		<1	25	48	15	280
29103	112.51	114.51	2.00		94	-0.12		<0.001		<1	25	49	9	42
29104	114.51	115.24	0.73		93	-0.05		<0.001		<1	20	68	7	30
29105	115.24	117.24	2.00		97	-0.06		<0.001		<1	25	84	14	37
29106	117.24	119.34	2.10		99	-0.02		<0.001		<1	30	66	8	24
29107	119.34	121.34	2.00		100	0.00		<0.001		<1	20	61	10	32
29108	121.34	123.34	2.00		97	-0.05		<0.001		<1	<5	81	1	29
29109	123.34	125.34	2.00		97	-0.06		<0.001		<1	5	72	2	12
29110	125.34	126.98	1.64		95	-0.08		<0.001		<1	15	35	<1	14
29111	126.98	128.84	1.86		98	-0.03		<0.001		<1	15	53	1	36
29112	128.84	130.31	1.47		95	-0.07		0.015		<1	10	200	<1	26
29113	130.31	131.64	1.33		85	-0.20		<0.001		<1	5	52	<1	25
29114	131.64	133.61	1.97		93	-0.14		<0.001		<1	5	69	2	19
29115	133.61	135.61	2.00		96	-0.09		<0.001		<1	<5	190	<1	25
29116	135.61	136.78	1.17		115	+0.17		<0.001		<1	<5	130	<1	41
29117	136.78	138.40	1.62		99	-0.02		<0.001		<1	<5	98	<1	98
29118	138.40	140.02	1.62		106	+0.10		<0.001		<1	<5	55	<1	52

Keewatin Engineering Inc. DRILL LOG Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29119	140.02	141.63	1.61		99	-0.02		<0.001		<1	<5	110	<1	28
29120	141.63	143.64	2.01		98	-0.05		<0.001		<1	<5	110	<1	27
29121	143.64	145.24	1.60		96	-0.06		<0.001		<1	<5	280	<1	16
29122	145.24	145.89	0.65		103	+0.02		<0.001		<1	<5	120	<1	37
29123	145.89	146.98	1.09		106	+0.07		<0.001		<1	15	140	10	25
29124	146.98	147.69	0.71		97	-0.02		0.003		<1	10	410	7	29
29125	147.69	149.28	1.59		101	+0.02		<0.001		<1	10	190	7	19
29126	149.28	150.28	1.00		104	+0.04		<0.001		<1	10	49	10	32
29127	150.28	151.59	1.31		92	-0.10		<0.001		<1	10	45	10	30
29128	151.59	152.59	1.00		98	-0.02		0.003		<1	20	29	9	27
29129	152.59	153.59	1.00		96	-0.04		<0.001		<1	25	32	12	35
29130	153.59	154.59	1.00		100	0.00		<0.001		<1	20	20	11	33
29131	154.59	155.59	1.00		100	0.00		<0.001		<1	15	82	8	24
29132	155.59	156.59	1.00		98	-0.02		<0.001		<1	20	56	8	21
29133	156.59	157.17	0.58		100	0.00		<0.001		<1	15	77	7	16
29134	157.17	157.94	0.77		100	0.00		0.003		<1	15	160	11	30
29135	157.94	158.79	0.85		100	0.00		<0.001		<1	15	350	9	29
29136	158.79	159.64	0.85		98	-0.02		<0.001		<1	5	170	9	34
29137	159.64	160.49	0.85		98	-0.02		<0.001		<1	15	280	14	38
29138	160.49	161.72	1.23		100	0.00		<0.001		<1	15	66	18	40
29139	161.72	162.95	1.23		92	-0.10		<0.001		<1	<5	51	42	190
29029	162.95	164.35	1.40		90	-0.14		0.003		<1	25	19	2	11
29030	164.35	165.35	1.00		92	-0.08		<0.001		<1	30	46	9	46
29031	165.35	166.35	1.00		84	-0.16		<0.001		<1	10	56	8	43
29032	166.35	167.35	1.00		85	-0.15		<0.001		<1	15	38	7	35
29033	167.35	168.35	1.00		94	-0.06		<0.001		<1	10	75	2	24
29034	168.35	169.35	1.00		94	-0.06		<0.001		<1	5	170	1	27
29035	169.35	170.37	1.02		110	+0.10		0.006		<1	5	170	2	30
29036	170.37	170.85	0.48		94	-0.03		0.004		<1	10	310	6	31
29037	170.85	171.71	0.86		84	-0.14		<0.001		<1	15	310	7	45
29038	171.71	172.71	1.00		78	-0.22		<0.001		<1	20	250	3	31
29039	172.71	174.04	1.33		50	-0.66		<0.001		<1	15	130	1	38

DRILL HOLE NO. I90-1

DRILL HOLE LOG

HOLE NO. I90-2 | PAGE NO. 1 of 5

LOCATION: Gregor Area; 35m SE, down 1989 trench, from top of auriferous trench section

AZIM: 324°
DIP: -45°

ELEV: Approximately 322m
LENGTH: 50.29m

CORE SIZE: BQ

STARTED: June 17, 1990
COMPLETED: June 18, 1990
PURPOSE: Test auriferous trench section at depth

CORE RECOVERY: 92.58%

DIP TEST

METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.
50.00		-47°	-39°

PROPERTY: ISKUT J.V.

CLAIM NO: ISK 1
SECTION:

LOGGED BY: R. Pegg
DATE LOGGED: June 19, 1990
DRILLING CO: Falcon
ASSAYED BY: TSL

INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag (oz/t)	As ppm	Cu ppm	Pb ppm	Zn ppm
0.00	2.13	Casing										
2.13	17.68	Andesitic Lapilli Tuff (polylithic)	29201	2.13	4.13	2.00	<0.001	<0.05	15	33	11	35
		- pyroxene rich (10%); medium to dark greyish green										
		- very sheared but siliceous	29202	4.13	6.13	2.00	<0.001	<0.05	20	54	10	36
		- *fragments not obvious; mostly rounded to subrounded* chlorite altered (to 1.2 x 1.3cm); minor felsic fragments (2 x 1.5cm maximum)	29203	6.13	8.13	2.00	<0.001	<0.05	25	84	6	32
		- patchy light to medium green siliceous/feldspathic alteration	29204	8.13	10.13	2.00	<0.001	<0.05	20	110	8	29
		- minor carbonate fracture filling (60°-66°)										
		- 3-5% pyrrhotite and minor pyrite fracture filling, patches and disseminations	29205	10.13	12.13	2.00	<0.001	<0.05	25	83	10	56
		2.13-4.05m - broken core	29206	12.13	14.13	2.00	<0.001	<0.05	25	190	6	28
		4.70-4.75m - ground and broken core										
		4.94-4.98m - ground and broken core	29207	14.13	16.13	2.00	<0.001	<0.05	20	160	6	26
		7.75-7.93m - ground and broken core										
		- minor slips at 35°-55°	29208	16.13	17.68	1.58	<0.001	<0.05	15	150	6	26
17.68	20.51	Altered Andesitic Lapilli Tuff	29209	17.68	18.92	1.24	<0.001	0.07	15	260	8	35
		- appears to be more intensely sheared and altered										
		- minor biotite alteration, mostly chlorite	29210	18.92	20.51	1.59	<0.001	<0.05	25	110	5	32
		- pyroxene porphyry fragments (4-6%)										
		- 3-5% pyrrhotite and 1-2% pyrite fracture filling, patches and disseminations										
		17.68-17.94m - dirty white carbonate patches, approximately 50%										
		18.19-18.92m - 5-7% pyrrhotite and 2-3% pyrite; sulphide fracture fillings 26° (most very irregular)										

DRILL HOLE LOG

HOLE NO. I90-2 | PAGE 2 OF 5

INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag (oz/t)	As ppm	Cu ppm	Pb ppm	Zn ppm
20.51	26.76	Sheared and Altered Andesitic Lapilli Tuff (?) - well fractured and brecciated; upper contact (slip) at 45° - irregular light to medium grey-green siliceous/feldspar alteration (patchy and segmented); very minor biotite alteration - dark to medium greenish grey; pyroxene porphyry fragments; 2-3% pyrite and 1-2% pyrrhotite fracture filling, disseminated and patches (pyrite more prevalent in patches) - minor carbonate (± quartz) fracture filling 20.51-20.96m - 30% carbonate (± quartz) patches with volcanic fragments and patches (soft) (roughly 0°-30° - irregular) - irregular lower contact	29211	20.51	22.11	1.60	<0.001	0.05	15	140	8	43
			29212	22.11	23.71	1.60	<0.001	0.06	15	250	15	54
			29213	23.71	25.31	1.60	<0.001	0.07	5	270	13	44
			29214	25.31	26.76	1.45	<0.001	0.06	15	200	9	32
26.76	37.09	Altered Andesitic Tuff to Lapilli Tuff - pyroxene porphyry fragments (3-7%) - medium greenish grey - minor chlorite altered and biotite altered; minor chlorite patches - sheared and fractured - ≤1% pyrite and pyrrhotite fracture filling and disseminations - core moderately broken 27.46m - ground core 29.24-29.87m - intense light greenish grey - siliceous/feldspar altered; brecciated and well fractured - below tuff has >minor biotite ± chlorite alteration 33.20-33.62m - moderate, irregular, light greenish grey siliceous/feldspar patches (brecciated) 34.01-34.18m - ground and broken core 34.52m - ground core - much lost core 33.97-35.97m	29215	26.76	28.51	1.75	<0.001	<0.05	<5	110	<1	31
			29216	28.51	30.26	1.75	<0.001	<0.05	50	75	2	26
			29217	30.26	32.01	1.75	<0.001	<0.05	<1	35	6	39
			29218	32.01	33.97	1.96	<0.001	<0.05	<1	95	4	35
			29219	33.97	35.97	2.00	<0.001	0.05	<1	76	3	39
			29220	35.97	37.09	1.12	<0.001	0.05	<1	61	5	62
37.09	38.72	Chlorite - Carbonate - Quartz Zone - chlorite (± minor biotite), 50-60%, carbonate patches and streaks 30% (most appear low angle) - irregular upper contact approximately 16°	29221	37.09	37.72	0.63	<0.001	0.05	<1	31	6	51

DRILL HOLE LOG

HOLE NO. I90-2 | PAGE 3 OF 5

INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag (oz/t)	As ppm	Cu ppm	Pb ppm	Zn ppm
37.09	38.72 Cont.	- 1-2% fine grained pyrrhotite and pyrite fracture filling and disseminations - lower contact at 50°										
38.72	38.87	Sheared Andesitic Volcanic - tuffaceous appearance - >moderate biotite and chlorite altered - >minor carbonate (± quartz) fracture filling and irregular patches - minor streaky and patchy light grey siliceous/feldspar alteration; 1-2% fine grained pyrite (± pyrrhotite) - irregular lower contact	29222	37.72	38.87	1.15	<0.001	0.06	<1	49	68	830
38.87	42.06	Chlorite - Carbonate ± Quartz Zone - approximately 50% chlorite ± biotite patches, 20-30% carbonate (± quartz) patches and fracture filling (irregular), 1-2% fine grained to very fine grained disseminated galena, 1% streaky red sphalerite, 2-3% pyrite and pyrrhotite fracture filling, patches and disseminations - most fracture filling is low angle (15-20°) 39.55-40.47m - concentration of galena and sphalerite (2-3%) 42.05m - carbonate fracture filling at 25° - streaky sphalerite - pyrite and minor galena at bottom of unit (end of run)	29223 29224	38.87 40.47	40.47 42.06	1.60 1.59	<0.001 <0.001	0.28 0.15	2 <1	200 130	1700 630	5000 1200
42.06	46.70	Sheared and Altered Andesitic Tuff - moderate chlorite alteration; medium greyish green to grey - rounded to subrounded chlorite patches - minor irregular, patchy light grey siliceous/feldspar alteration - some pyroxene grains visible - 1-2% fine grained pyrite and pyrrhotite 43.62-44.31m - broken core	29225 29226 29227	42.06 43.61 45.16	43.61 45.16 46.70	1.55 1.55 1.54	<0.001 <0.001 <0.001	0.06 <0.05 <0.05	<1 <1 90	61 62 14	170 17 6	530 71 68

DRILL HOLE LOG

HOLE NO. I90-2 | PAGE 4 OF 5

INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag (oz/t)	As ppm	Cu ppm	Pb ppm	Zn ppm
46.70	49.67	Altered and Sheared Andesitic Lapilli Tuff - chlorite (± minor biotite) alteration - 10-15% carbonate (± quartz) patches and fracture filling - > minor patchy, broken light grey siliceous/feldspar alteration - most fracture filling at 20°-30° (some to 50°) - 1-3% pyrrhotite and 1-2% pyrite fracture filling and patches, < 1% red, streaky sphalerite (at 48.16m), bottom 36cm 30% carbonate and quartz 47.39m - ground core 48.28-49.03m - lost core (ground)	29228	46.70	47.70	1.00	<0.001	0.09	<5	150	26	170
			29229	47.70	48.70	1.00	0.008	0.09	25	85	59	1400
			29230	48.70	49.67	0.97	<0.001	0.06	<5	64	32	1400
49.67	50.29	Pyroxene Porphyry Andesite Tuff - medium greenish grey - < moderate fractures - minor carbonate fracture filling - trace pyrite - END OF HOLE -	29231	49.67	50.29	0.62	<0.001	<0.05	<5	15	5	260

Keewatin Engineering Inc.					DRILL LOG										Sample Data
SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS							
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn	
29201	2.13	4.13	2.00		52	-0.96		<0.001	<0.05	<1	15	33	11	35	
29202	4.13	6.13	2.00		87	-0.25		<0.001	<0.05	<1	20	54	10	36	
29203	6.13	8.13	2.00		91	-0.17		<0.001	<0.05	<1	25	84	6	32	
29204	8.13	10.13	2.00		105	+0.09		<0.001	<0.05	<1	20	110	8	29	
29205	10.13	12.13	2.00		96	-0.07		<0.001	<0.05	<1	25	83	10	56	
29206	12.13	14.13	2.00		101	+0.01		<0.001	<0.05	<1	25	190	6	28	
29207	14.13	16.13	2.00		104	+0.07		<0.001	<0.05	<1	20	160	6	26	
29208	16.13	17.68	1.58		98	-0.03		<0.001	<0.05	<1	15	150	6	26	
29209	17.68	18.92	1.24		100	0.00		<0.001	0.07	<1	15	260	8	35	
29210	18.92	20.51	1.59		104	+0.06		<0.001	<0.05	<1	25	110	5	32	
29211	20.51	22.11	1.60		79	-0.33		<0.001	0.05	<1	15	140	8	43	
29212	22.11	23.71	1.60		97	-0.05		<0.001	0.06	<1	15	250	15	54	
29213	23.71	25.31	1.60		94	-0.10		<0.001	0.07	<1	5	270	13	44	
29214	25.31	26.76	1.45		94	-0.08		<0.001	0.06	<1	15	200	9	32	
29215	26.76	28.51	1.75		106	+0.11		<0.001	<0.05	<1	<5	110	<1	31	
29216	28.51	30.26	1.75		100	0.00		<0.001	<0.05	<1	50	75	2	26	
29217	30.26	32.01	1.75		126	+0.45		<0.001	<0.05	<5	<1	35	6	39	
29218	32.01	33.97	1.96		97	-0.06		<0.001	<0.05	40	<1	95	4	35	
29219	33.97	35.97	2.00		48	-1.05		<0.001	0.05	<5	<1	76	3	39	
29220	35.97	37.09	1.12		84	-0.18		<0.001	0.05	65	<1	61	5	62	
29221	37.09	37.72	0.63		100	0.00		<0.001	0.05	30	<1	31	6	51	
29222	37.72	38.87	1.15		101	+0.01		<0.001	0.06	50	<1	49	68	830	
29223	38.87	40.47	1.60		107	+0.11		<0.001	0.28	25	2	200	1700	5000	
29224	40.47	42.06	1.59		84	-0.26		<0.001	0.15	<5	<1	130	630	1200	
29225	42.06	43.61	1.55		87	-0.20		<0.001	0.06	75	<1	61	170	530	
29226	43.61	45.16	1.55		94	-0.09		<0.001	<0.05	20	<1	62	17	71	
29227	45.16	46.70	1.54		104	+0.06		<0.001	<0.05	<1	90	14	6	68	
29228	46.70	47.70	1.00		86	-0.14		<0.001	0.09	<1	<5	150	26	170	
29229	47.70	48.70	1.00		66	-0.34		0.008	0.09	<1	25	85	59	1400	
29230	48.70	49.67	0.97		65	-0.34		<0.001	0.06	<1	<5	64	32	1400	
29231	49.67	50.29	0.62		100	0.00		<0.001	<0.05	<1	<5	15	5	260	

DRILL HOLE LOG

HOLE NO. I90-3 | PAGE NO. 1 of 5

LOCATION: Gregor Area; 35m SE, down 1989 trench, from top of auriferous trench section

AZIM: 324°
DIP: -90°

ELEV: Approximately 322m
LENGTH: 53.34m

CORE SIZE: BQ

DIP TEST

METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.
53.00		-86°	-84°

PROPERTY: ISKUT J.V.

CLAIM NO: ISK 1
SECTION:

STARTED: June 18, 1990
COMPLETED: June 18, 1990
PURPOSE: Test auriferous trench section at depth

CORE RECOVERY: 97.54%

LOGGED BY: R. Pegg
DATE LOGGED: June 19, 1990
DRILLING CO: Falcon
ASSAYED BY: TSL

INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag (oz/t)	As ppm	Cu ppm	Pb ppm	Zn ppm
0.00	3.05	Casing (overburden)										
3.05	5.96	Pyroxene Andesitic Tuff (?) - >minor chlorite alteration and very minor biotite alteration	29232	3.05	4.51	1.46	<0.001	0.05	90	52	4	99
		- medium to light greenish grey - vague fragment outlines - trace disseminated pyrite 3.96-5.96m - oxidized and broken core (a lot of lost core)	29233	4.51	5.96	1.45	<0.001	0.05	210	43	1	98
5.96	8.84	Fault (?) - sand - washed core, no recovery										
8.84	15.75	Sheared and Altered Lapilli Tuff (?) - medium greyish green; well sheared	29234	8.84	10.23	1.39	<0.001	0.06	35	74	5	40
		- 20-25% patchy and fractured filling biotite alteration (± minor chlorite) - 10% carbonate fracture filling and patches (± quartz)	29235	10.23	11.62	1.39	<0.001	0.06	10	120	3	32
		- fracture filling is irregular but at top of unit at 45°-50° and slips at 50°-60°	29236	11.62	13.01	1.39	0.007	<0.05	10	38	<1	36
		- fragments are vague and maybe due to alteration (siliceous/feldspar); some zeolite (?) grains in a few of the biotite patches; 2-4% pyrrhotite and 1-2% pyrite fracture filling, small concentrations and disseminations	29237	13.01	14.40	1.39	<0.001	<0.05	20	21	<1	36
		- minor pink grey to cream siliceous/feldspar alteration patches	29238	14.40	15.75	1.35	<0.001	<0.05	10	38	<1	38

DRILL HOLE LOG

HOLE NO. I90-3 | PAGE 2 OF 5

INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag (oz/t)	As ppm	Cu ppm	Pb ppm	Zn ppm
15.75	46.32	Andesitic Tuff Breccia (polylithic)	29239	15.75	16.85	1.10	<0.001	0.05	5	110	<1	62
		- sheared and well altered	29240	16.85	17.95	1.10	0.010	0.05	<5	120	<1	25
		- medium greenish grey	29241	17.95	18.94	0.99	<0.001	0.06	<5	160	<1	26
		- >minor carbonate (± minor quartz) fracture filling and	29242	18.94	19.94	1.00	<0.001	<0.05	<5	86	3	210
		patches	29243	19.94	20.94	1.00	<0.001	<0.05	5	69	2	26
		- >minor chlorite/biotite alteration										
		- minor light greyish green siliceous/feldspar alteration	29244	20.94	21.94	1.00	<0.001	<0.05	<5	96	<1	73
		(patchy)	29245	21.94	22.94	1.00	<0.001	<0.05	5	140	<1	23
		- alteration overprint and fracture/shears make fragment	29246	22.94	23.94	1.00	<0.001	<0.05	45	88	5	11
		outlines vague (to approximately 18.94m, fragments	29247	23.94	24.94	1.00	<0.001	<0.05	20	71	2	12
		difficult to pick out)	29248	24.94	25.94	1.00	<0.001	0.06	20	79	1	18
		- brecciation of fragments and sulphides; 3-7% pyrrhotite,										
		2-4% pyrite, trace sphalerite	29249	25.94	26.94	1.00	0.004	0.05	15	65	1	13
		- mafic (pyroxene porphyry) fragments to 38cm across	29250	26.94	27.94	1.00	<0.001	<0.05	5	75	2	21
		(biotite and chlorite alteration)	29251	27.94	28.94	1.00	0.003	0.05	15	100	5	15
		- felsic fragments usually subangular (to 5cm); medium	29252	28.94	29.94	1.00	<0.001	0.06	10	140	<1	26
		pinkish grey; a few light green felsic fragments (?) up to	29253	29.94	30.94	1.00	<0.001	0.07	5	210	1	24
		20cm across with chlorite altered phenocrysts										
		- brecciation/shearing at least partly post sulphide	29254	30.94	31.94	1.00	0.002	0.05	10	150	<1	26
			29255	31.94	32.94	1.00	<0.001	0.05	5	160	2	49
		23.17-24.82m - moderate to <intense light greenish grey	29256	32.94	34.40	1.46	<0.001	<0.05	<5	110	4	35
		siliceous/feldspar alteration - patchy	29257	34.40	35.70	1.30	<0.001	0.07	50	360	7	29
			29258	35.70	36.70	1.00	<0.001	<0.05	10	98	5	29
		- mafic fragments appear to be andesitic and pyroxene										
		porphyritic (chlorite and biotite altered)	29259	36.70	37.70	1.00	<0.001	<0.05	10	92	<1	25
		- felsic fragments also altered (soft)	29260	37.70	38.70	1.00	<0.001	<0.05	5	88	<1	27
		- sulphide-rich sections usually more contorted and	29261	38.70	39.70	1.00	<0.001	<0.05	5	58	<1	29
		sheared and commonly have associated carbonate	29262	39.70	40.70	1.00	<0.001	0.05	15	150	1	64
		fracture filling and patches	29263	40.70	41.70	1.00	<0.001	<0.05	10	95	2	40
		- very minor to trace epidote altered streaks and small										
		patches	29264	41.70	42.70	1.00	<0.001	<0.05	15	69	2	32
			29265	42.70	43.70	1.00	<0.001	<0.05	10	76	2	36
		17.65-17.77m - 10-15% pyrrhotite, 5-10% pyrite patches with	29266	43.70	44.70	1.00	<0.001	<0.05	20	99	2	45
		chlorite (irregularly masses)	29267	44.70	45.70	1.00	<0.001	<0.05	20	70	1	30
		19.39-19.48m - carbonate fracture filling (65°) with 1% brown	29268	45.70	46.32	0.62	<0.001	0.05	20	130	9	42
		streaky sphalerite, 3-5% pyrrhotite and 1%										
		pyrite fracture filling										
		25.00-25.14m - 30-35% brecciated pyrite, 3-5% interstial										
		pyrrhotite, carbonate fracture filling at bottom										
		(70°)										

DRILL HOLE LOG

HOLE NO. I90-3 | PAGE 3 OF 5

INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au (oz/t)	Ag (oz/t)	As ppm	Cu ppm	Pb ppm	Zn ppm
15.75	46.32 Cont.	26.19-26.33m - subround to subangular carbonate - pyrite (20-30%) ± pyrrhotite (1-2%), 6.5 x 14cm; minor chlorite patches and trace epidote 27.93-28.64m - 10-15% pyrite patches and fracture filling (brecciated) and 2-4% pyrrhotite 29.95-30.48m - 5-7% pyrrhotite and 5-7% pyrite fracture filling and patches 31.61-31.83m - 6-8% both pyrrhotite and pyrite, > moderate biotite alteration, carbonate patches and quartz veinlets 34.40-35.70m - 15-20% pyrite patches, 3-5% pyrrhotite (more concentrated at bottom), some subrounded to rounded grains 40.31-40.48m - 10%-15% pyrite, 5-7% pyrrhotite									
46.32	46.98	Carbonate - Biotite (± Chlorite) Zone - 10-15% biotite patches and fracture filling (45°-55°), shear zone; dirty white brown - minor quartz with the carbonate; 2-3% pyrite, 1-2% pyrrhotite, fine grained disseminations and fracture fillings	29269	46.32	46.98	0.66	<0.001	0.05	35	51	19	550
46.98	47.65	Altered Andisitic Lapilli Tuff - medium greyish green; pyroxene porphyry fragments - patchy biotite alteration (10-20%) ± chlorite - >minor carbonate patches; 2-3% pyrite, 1-3% pyrrhotite fracture filling and small patches	29270	46.98	47.65	0.67	<0.001	0.05	10	130	8	57
47.65	53.34	Andesitic Lapilli Tuff - medium to dark greyish green - minor white quartz lenses (2 x 2.5cm) and fracture filling - minor to local moderate chlorite alteration; minor patchy biotite - minor light grey patchy silicification - relatively unaltered; 1% pyrrhotite and pyrite disseminations and fracture filling (fine grained) - END OF HOLE -	29271	47.65	49.65	2.00	<0.001	<0.05	10	63	3	33
			29272	49.65	51.65	2.00	<0.001	<0.05	10	81	<1	28
			29273	51.65	53.34	1.69	<0.001	<0.05	10	55	<1	32

Keewatin Engineering Inc.					DRILL LOG									Sample Data
SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29232	3.05	4.51	1.46		63	-0.54		<0.001	0.05	<1	90	52	4	99
29233	4.51	5.96	1.45		52	-0.69		<0.001	0.05	<1	210	43	1	98
29234	8.84	10.23	1.39		99	-0.02		<0.001	0.06	<1	35	74	5	40
29235	10.23	11.62	1.39		97	-0.04		<0.001	0.06	<1	10	120	3	32
29236	11.62	13.01	1.39		93	-0.10		0.007	<0.05	<1	10	38	<1	36
29237	13.01	14.40	1.39		98	-0.03		<0.001	<0.05	<1	20	21	<1	36
29238	14.40	15.75	1.35		98	-0.03		<0.001	<0.05	<1	10	38	<1	38
29239	15.75	16.85	1.10		100	0.00		<0.001	0.05	<1	5	110	<1	62
29240	16.85	17.95	1.10		100	0.00		0.010	0.05	<1	<5	120	<1	25
29241	17.95	18.94	0.99		103	+0.03		<0.001	0.06	<1	<5	160	<1	26
29242	18.94	19.94	1.00		99	-0.01		<0.001	<0.05	<1	<5	86	3	210
29243	19.94	20.94	1.00		99	-0.01		<0.001	<0.05	<1	5	69	2	26
29244	20.94	21.94	1.00		88	-0.12		<0.001	<0.05	<1	<5	96	<1	73
29245	21.94	22.94	1.00		112	+0.12		<0.001	<0.05	<1	5	140	<1	23
29246	22.94	23.94	1.00		99	-0.01		<0.001	<0.05	<1	45	88	5	11
29247	23.94	24.94	1.00		100	0.00		<0.001	<0.05	<1	20	71	2	12
29248	24.94	25.94	1.00		104	+0.04		<0.001	0.06	<1	20	79	1	18
29249	25.94	26.94	1.00		100	0.00		0.004	0.05	<1	15	65	1	13
29250	26.94	27.94	1.00		100	0.00		<0.001	<0.05	<1	5	75	2	21
29251	27.94	28.94	1.00		100	0.00		0.003	0.05	<1	15	100	5	15
29252	28.94	29.94	1.00		100	0.00		<0.001	0.06	<1	10	140	<1	26
29253	29.94	30.94	1.00		90	-0.10		<0.001	0.07	<1	5	210	1	24
29254	30.94	31.94	1.00		103	+0.03		0.002	0.05	<1	10	150	<1	26
29255	31.94	32.94	1.00		100	0.00		<0.001	0.05	<1	5	160	2	49
29256	32.94	34.40	1.46		100	0.00		<0.001	<0.05	<1	<5	110	4	35
29257	34.40	35.70	1.30		100	0.00		<0.001	0.07	<1	50	360	7	29
29258	35.70	36.70	1.00		100	0.00		<0.001	<0.05	<1	10	98	5	29
29259	36.70	37.70	1.00		100	0.00		<0.001	<0.05	<1	10	92	<1	25
29260	37.70	38.70	1.00		103	+0.03		<0.001	<0.05	<1	5	88	<1	27
29261	38.70	39.70	1.00		100	0.00		<0.001	<0.05	<1	5	58	<1	29
29262	39.70	40.70	1.00		100	0.00		<0.001	0.05	<1	15	150	1	64
29263	40.70	41.70	1.00		98	-0.02		<0.001	<0.05	<1	10	95	2	40
29264	41.70	42.70	1.00		100	0.00		<0.001	<0.05	<1	15	69	2	32
29265	42.70	43.70	1.00		100	0.00		<0.001	<0.05	<1	10	76	2	36
29266	43.70	44.70	1.00		100	0.00		<0.001	<0.05	<1	20	99	2	45

Keewatin Engineering Inc. | DRILL LOG | Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29267	44.70	45.70	1.00		100	0.00		<0.001	<0.05	<1	20	70	1	30
29268	45.70	46.32	0.62		97	-0.02		<0.001	0.05	<1	20	130	9	42
29269	46.32	46.98	0.66		100	0.00		<0.001	0.05	<1	35	51	19	550
29270	46.98	47.65	0.67		103	+0.02		<0.001	0.05	<1	10	130	8	57
29271	47.65	49.65	2.00		101	+0.01		<0.001	<0.05	<1	10	63	3	33
29272	49.65	51.65	2.00		100	0.00		<0.001	<0.05	<1	10	81	<1	28
29273	51.65	53.34	1.69		109	+0.15		<0.001	<0.05	<1	10	55	<1	32

DRILL HOLE NO. I90-3

DRILL HOLE LOG

LOCATION: 75m at 205° from I89-1/I88-8
Gorge Zone

HOLE NO. I90-4 | PAGE NO. 1 of 25

AZIM: 025°
DIP: -60°

ELEV: Approximately 162m
LENGTH: 299.92m

CORE SIZE: B.Q.

DIP TEST

METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.
299.92		68°	62°

PROPERTY: ISKUT J.V.

CLAIM NO: Hemlo West 16
SECTION:

STARTED: June 18, 1990
COMPLETED: June 21, 1990
PURPOSE: Test Mineralization found in I89-1 and I88-8, at depth

LOGGED BY: R. Honsinger
DATE LOGGED: June 23, 1990
DRILLING CO: Falcon
ASSAYED BY: T.S.L.

CORE RECOVERY: 97.36%

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
0.00	3.05	Casing - Overburden										
3.05	4.29	Silicified Siltstone Boulders - blocky, limonitic fracture filling - very minor pyrite blebs, 1mm cubes on fracture surfaces - overall <1% pyrite >> pyrrhotite, locally 5% pyrite fracture filling - poor recovery, 46% at top of hole to 4.29	29196	3.05	4.29	1.24	<0.001	<1	<5	160	440	440
4.29	5.87	Moderately Silicified Siltstone - dark bluish grey - sheared texture - generally unaltered - conspicuous lack of crosscutting veinlets - silicification gradually decreasing with depth - rare chlorite altered greywacke fragments up to 2cm with 8% pyrrhotite, 1% pyrite - upper contact fragmented 5.67m - 0.5cm wide quartz vein, 55° with 5% pyrrhotite, 10% pyrite 5.25-5.33m - quartz/calcite veinlets, up to 1cm wide, 60° with 20% pyrite, 5% pyrrhotite, rusty, limonitic. This interval 10% pyrite, 3% pyrrhotite, lower contact approximately 50° (moderately gradational) - overall 1% pyrrhotite, <1% pyrite	29197	4.29	5.87	1.58	<0.001	<1	<5	110	<1	150

DRILL HOLE LOG

HOLE NO. I90-4 | PAGE 2 OF 25

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
5.87	16.76	Interbedded Siltstone/Greywacke	29198	5.87	7.87	2.00	<0.001	<1	<5	37	<1	180
		- dark brown to grey	29199	7.87	9.78	1.91	<0.001	<1	<5	55	<1	130
		- moderately sheared, calcite fracture filling	29200	9.78	10.46	0.68	<0.001	<1	<5	120	<1	100
		- moderate biotite altered ± chlorite altered	29401	10.46	10.91	0.45	0.014	<1	<5	800	5	110
		- numerous < 1mm chlorite fracture filling, 45°	29402	10.91	12.00	1.09	0.003	<1	<5	180	<1	260
		- 1mm wide pyrite, and pyrrhotite veinlets, approximately 80° after 8.50m	29403	12.00	12.46	0.46	<0.001	<1	<5	130	<1	320
			29404	12.46	13.18	0.72	<0.001	<1	<5	120	<1	87
		- abundant black (chlorite?) filled tension gashes < 1mm wide 0.5cm long, random	29405	13.18	14.18	1.00	<0.001	<1	<5	37	<1	64
			29406	14.18	15.18	1.00	<0.001	<1	<5	68	<1	63
		9.78-10.12m - highly sheared chlorite minor gouge, abundant calcite fracture filling, 1% disseminated pyrite										
		10.46-10.91m - quartz/calcite flooded zone with 35% pyrite, 5% pyrrhotite, as contorted 1-3mm wide veinlets 65-70°										
		12.00-12.46m - similar to 10.46-10.91 but with reduced quartz and sulphides, pyrite 15%, pyrrhotite 2%										
		12.00-13.18m - quartz flooded sheared siltstone/greywacke with 20% pyrite, 5% pyrrhotite. Pyrite coarse grained, pyrrhotite generally disseminated										
		16.52-16.76m - breccia quartz flooded siliceous greywacke with 1% fine grained pyrite, < 1% pyrrhotite										
		- overall 1-2% pyrite, < 1 to 1% pyrrhotite										
16.76	26.43	Biotite Altered Greywacke	29407	15.18	16.76	1.58	<0.001	<1	<5	49	<1	80
		- tan brown, medium grained	29408	16.76	18.76	2.00	<0.001	<1	<5	24	<1	45
		- yellow brown, patchy calcite fracture surface coatings	29409	18.76	20.76	2.00	<0.001	<1	<5	24	<1	46
		- crosscut by 1-5mm quartz/calcite veinlets running 75-90° and 30°	29410	20.76	22.76	2.00	<0.001	<1	<5	79	<1	43
			29411	22.76	24.76	2.00	<0.001	<1	<5	29	<1	44
		- 30° quartz calcite veinlets generally wider than steeper, 75-90° veinlets, 0.5cm, very minor pyrite < 1% ± trace sphalerite	29412	24.76	26.43	1.67	<0.001	<1	15	38	<1	47
		- overall < 1% pyrite, pyrrhotite, sphalerite										
		- minor chlorite altered, especially along fracture filling										
		- 0.5cm wide quartz/calcite veinlets often containing elongate, soft 1 x 3mm wall rock fragments										
		- upper contact gradational										
		- lower contact approximately 80°										

DRILL HOLE LOG

HOLE NO. I90-4 | PAGE 3 OF 25

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
26.43	30.90	Sheared Silicified Greywacke	29413	26.43	27.93	1.50	0.005	<1	<5	81	13	350
		- dark brown to bluish grey, moderate biotite alteration	29414	27.93	29.43	1.50	<0.001	<1	<5	41	5	57
		- from 26.43 to 28.87m abundant crosscutting 1mm pyrite fracture filling, 50° and random, 5%	29415	29.43	30.90	1.47	<0.001	<1	15	70	12	47
		- core crosscut by ubiquitous <1mm random chlorite veinlets after 28.87m chlorite veinlet density increased giving rock a brecciated texture										
		27.53-27.84m - very fine grained pyrite scattered throughout and sphalerite within quartz veinlets. Pyrite 8%, sphalerite 2%, pyrrhotite <1%										
		26.81m - 1.5cm wide quartz vein, 1% pyrite, 60°										
		28.29m - 2.0cm wide quartz vein, 2% pyrite, 65°										
		29.16m - 3.0cm wide quartz vein, sericite blebs, <1% pyrite										
		29.74m - 2.0cm wide quartz vein, <1% pyrite, 55°										
		30.48m - 3.0cm wide quartz vein, <1% pyrite, 60°										
		- overall 3% pyrite, 1% sphalerite, 1% pyrrhotite										
30.90	56.92	Biotite Altered Greywacke, Minor Siltstone	29416	30.90	32.90	2.00	<0.001	<1	<5	73	3	41
		- tan brown, locally chlorite altered	29417	32.90	34.90	2.00	<0.001	<1	5	78	2	52
		- scattered 1mm pyrite cubes from 30.90-31.40m, approximately 1%	29418	34.90	36.90	2.00	<0.001	<1	<5	50	<1	43
			29419	36.90	38.90	2.00	<0.001	<1	<5	51	<1	47
		- local pyrite concentrated up to 10% at 34.41-34.48m and at 35.19 to 35.23m generally associated with abundant fine grained chlorite	29420	38.90	40.90	2.00	<0.001	<1	5	23	<1	42
			29421	40.90	42.90	2.00	<0.001	<1	20	16	<1	46
			29422	42.90	44.90	2.00	<0.001	<1	15	39	2	44
		- very minor local gouge 1mm, at 35.23m and 42.20m	29423	44.90	46.90	2.00	<0.001	<1	<5	55	2	41
		- abundant discontinuous quartz/calcite veinlets, random orientation, 1-5mm	29424	46.90	48.90	2.00	<0.001	<1	5	63	2	43
			29425	48.90	50.90	2.00	<0.001	<1	5	34	<1	42
		- rare chlorite altered siltstone? greywacke? fragments (possible differential alteration patterns), bluish green, moderately to completely silicified, up to 5cm wide, irregular, often rimmed with 1mm wide border of fine grained pyrite, and associated with increased quartz/calcite veinlets	29426	50.90	52.90	2.00	<0.001	<1	20	33	<1	39
			29427	52.90	54.90	2.00	<0.001	<1	<5	42	<1	47
			29428	54.90	56.92	2.02	<0.001	<1	<5	61	1	75
		- overall <1% pyrite, trace pyrrhotite (disseminated)										
		44.25-46.75m - slight increase in sulphides in form of 1mm wide crosscutting pyrite veinlets, 1% pyrite, <1% pyrrhotite										
		56.92-56.95m - 3cm x 4cm bleb of coarse grained pyrite and pyrrhotite, pyrite 60%, pyrrhotite 10%, quartz 10%, chlorite 20%										
		- 3cm ground core at 43.11m										

DRILL HOLE LOG

HOLE NO. I90-4 | PAGE 4 OF 25

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
56.92	61.90	Biotite Altered Greywacke	29429	56.92	58.92	2.00	<0.001	<1	<5	49	1	61
		- very similar to above unit but with slight increase in sulphides in form of 1mm crosscutting pyrite veinlets as in 44.25-46.75m	29430	58.92	60.92	2.00	<0.001	<1	15	61	<1	49
		- overall 2% pyrite, <1% pyrrhotite	29431	60.92	61.90	0.98	0.005	<1	40	160	4	42
61.90	62.20	Semi Massive Sulphide	29140	61.90	62.20	0.30	0.029	1	110	460	5	38
		- Sheared contact with overlying siltstone/greywacke and underlying biotite altered siltstone	29432	62.20	62.87	0.67	<0.001	<1	10	31	2	49
		- upper contact and lower contact gradational, no core axis possible										
		- crosscut by discordant 0.3 to 0.9cm wide quartz/calcite veinlets, 20°										
		- pyrite 20%, pyrrhotite 6%, minor hematite blebs, blood red, 1-2mm										
62.20	63.54	Siltstone										
		- tan brown, chlorite altered fracture filling and biotite	29433	62.87	63.54	0.67	<0.001	<1	20	68	12	160
		- segmented 0.5cm dark brown banding (relict bedding?) 30°-35°										
		- calcite fracture filling up to 2mm wide 10°										
		- soft										
		- 1% pyrite > > pyrrhotite										
63.54	66.00	Heavily Altered Bleached Metasediments	29141	63.54	64.00	0.46	0.025	4	110	130	120	550
		- cream yellow to white	29434	64.00	65.00	1.00	<0.001	2	45	59	54	740
		- strong feldspar alteration	29435	65.00	66.00	1.00	<0.001	3	10	72	43	340
		- sheared, local breccia										
		- crosscut by 0.2-0.6cm wide quartz> >calcite veinlets, 1 to 2 per 10cm, 60°										
		- gouge upper contact 40°										
		- lower contact gradational										
		- pyrite veinlets, 2-3mm 60° (pyrite > > pyrrhotite)										
		- overall 2-3% pyrite, 1% pyrrhotite, sphalerite <1%										
		63.54-64.00m - quartz flooded, sheared, up to 15% pyrite, 3% pyrrhotite, 1% sphalerite, poor recovery, approximately 70%										
66.00	76.05	Interbedded Siltstone/Greywacke	29436	66.00	67.07	1.07	<0.001	<1	<5	44	7	190
		- light tan to dark brown	29437	67.07	68.13	1.06	<0.001	<1	<5	75	5	370
		- sheared	29438	68.13	69.19	1.06	<0.001	1	<5	63	16	1200
		- strong biotite alteration of greywacke	29142	69.19	70.12	0.93	0.008	2	20	220	21	880

DRILL HOLE LOG

HOLE NO. I90-4 | PAGE 5 OF 25

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
66.00	76.05 Cont.	- siltstone generally moderately siliceous	29452	70.12	71.18	1.06	<0.001	<1	<5	70	5	110
		- calcite fracture filling 35°	29453	71.18	72.24	1.06	<0.001	<1	<5	75	2	90
		66.74-67.74m - abundant quartz/calcite veinlets 0.2-1.0cm, subparallel, 1% pyrite, 70°	29143	72.24	73.24	1.00	0.006	2	15	740	12	120
			29144	73.24	74.24	1.00	0.003	1	50	300	9	89
		- 0.5cm banding locally segmented	29145	74.24	75.24	1.00	0.006	2	10	560	25	230
		- overall 3% disseminated pyrite >> pyrrhotite, <1% sphalerite	29146	75.24	76.05	0.81	0.006	<1	5	150	15	130
		- local pyrite concentrations up to 15%, pyrrhotite 5%										
		69.19-70.12m - sheared, quartz flooded interbedded siltstone/greywacke with 7% pyrite, 5% pyrrhotite, 1-2% sphalerite										
		72.24-73.24m - sheared greywacke/siltstone with locally pyrite 20%, pyrrhotite 5%, sphalerite <1%. Overall pyrite 1.0%, pyrrhotite 3%										
		73.24-74.24m - Continuation of above interval										
		74.24-75.24m - Continuation of above interval with increase in pyrrhotite content 5%, chalcopyrite 1-2% and slightly less pyrite 8%. Trace sphalerite. Quartz flooded between 74.74-75.05m										
		75.25-76.05m - similar to above with reduced sulphides, pyrite 3%, pyrrhotite 1%, 2cm wide quartz vein, 65°										
76.05	79.46	Sheared Quartz and Calcite Flooded Greywacke	29439	76.05	76.90	0.85	<0.001	<1	25	110	4	76
		- 30% quartz/calcite veining, sheared, contorted	29440	76.90	77.75	0.85	<0.001	<1	40	270	4	73
		- locally 4% pyrite, 2% pyrrhotite trace sphalerite	29441	77.75	78.60	0.85	<0.001	<1	20	84	3	51
		- gradational upper contact, lower contact	29442	78.60	79.46	0.86	<0.001	<1	5	150	4	77
		- sulphide mineralization often along vein/wallrock contact										
		- in quartz pyrite 2-3%, pyrrhotite 1%, trace sphalerite in greywacke pyrite 1% >> pyrrhotite.										
		- overall 1-2% pyrite, <1% pyrrhotite, trace sphalerite										
79.46	81.48	Sheared Greywacke/Minor Siltstone	29443	79.46	80.47	1.01	<0.001	<1	20	150	9	120
		- Biotite altered ± chlorite altered	29444	80.47	81.48	1.01	<0.001	<1	<5	360	48	330
		- Quartz/calcite veinlets reducing in density with depth										
		- Quartz/calcite 1-2mm tension gashes generally 0.5cm long random orient.										
		- Overall pyrite 3%, Pyrrhotite 1-2% trace sphalerite										

DRILL HOLE LOG

HOLE NO. I90-4 | PAGE 6 OF 25

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
81.48	83.77	Semi-Massive Sulphide	29147	81.48	82.24	0.76	0.066	6	90	1500	110	660
		- Hosted in sheared biotite altered greywacke and siliceous siltstone	29148	82.24	83.00	0.76	0.031	11	240	1200	420	360
			29149	83.00	83.77	0.77	0.046	9	2700	980	280	1400
		- Abundant quartz, overall 15% as sheared veinlets and 1-30cm wide quartz flooded zones.										
		- Overall 20% pyrite, 5-8% pyrrhotite, trace chalcopyrite, 2% sphalerite, locally 70% pyrite, 20% pyrrhotite, as in 82.48-82.84m.										
		83.29-83.72m - sheared quartz flooded, direction ~35°										
83.77	90.74	Biotite Altered Greywacke/Minor Siltstone	29445	83.77	84.77	1.00	0.003	20	120	82	12	80
		- Light tan brown	29446	84.77	85.77	1.00	0.012	<1	340	200	280	240
		- locally bleached	29447	85.77	86.77	1.00	0.004	<1	40	35	12	67
		- Cross-cut by 1mm quartz/calcite veinlets 65°	29448	86.77	87.77	1.00	0.003	<1	20	40	8	70
		83.77-84.11m - abundant quartz/calcite veinlets and tension gashes, contorted, discontinuous 3% pyrite, 1% pyrrhotite	29449	87.77	88.77	1.00	<0.001	<1	10	52	8	74
			29450	88.77	89.77	1.00	<0.001	<1	10	7	9	95
			29451	89.77	90.74	0.97	<0.001	<1	<5	62	11	84
		87.68-87.73m - quartz vein 62°, no visible sulphides										
		- Overall 2% pyrite, 1% pyrrhotite										
90.74	91.82	Quartz Flooded Sheared Greywacke	29150	90.74	91.82	1.08	0.004	<1	15	230	27	57
		- Contorted quartz veining and elongated blebs of quartz, veining generally parallel to core axis.										
		- Pyrite 4%, pyrrhotite 2-3%, sphalerite 1%										
		- Upper contact and lower contact irregular										
91.82	103.26	Biotite Altered Greywacke, Minor Siltstone	29454	91.82	92.82	1.00	<0.001	<1	10	110	15	140
		- Generally sheared	29455	92.82	93.82	1.00	<0.001	2	10	230	39	270
		- Cross-cut by numerous 1mm to 4mm wide quartz/calcite veinlets running 40 and 65°	29456	93.82	94.81	0.99	<0.001	<1	<5	140	21	150
			29151	94.81	95.21	0.40	0.026	21	230	810	280	3100
		- Overall 4% pyrite, 2% pyrrhotite, 1% sphalerite, trace chalcopyrite	29457	95.21	96.26	1.05	<0.001	<1	25	320	30	570
			29152	96.26	96.51	0.25	0.009	4	260	1600	66	4300
		93.30-94.02m - increased quartz/calcite veining, local breccia, Pyrite 4%, pyrrhotite 3% <1% sphalerite	29458	96.51	97.56	1.05	<0.001	<1	50	150	41	520
			29459	97.56	98.61	1.05	<0.001	<1	50	270	26	170
		94.85-95.21m - semi-massive sulphide with 12% pyrite, 8% pyrrhotite (as blebs and disseminations) 2% sphalerite. Pyrite cubes 0.10 to 0.7cm wide, associated with quartz veining	29153	98.61	99.24	0.63	0.007	3	95	840	61	640
			29460	99.24	100.15	0.91	<0.001	<1	35	87	29	120
			29461	100.15	101.06	0.91	<0.001	<1	25	36	15	95
			29462	101.06	101.97	0.91	<0.001	<1	15	150	10	67
		96.26-96.51m - semi-massive sulphide, 20% pyrite, 10% pyrrhotite, 1% sphalerite, trace chalcopyrite	29463	101.97	102.89	0.92	<0.001	<1	15	150	7	53
			29154	102.89	103.26	0.37	0.002	2	120	430	10	120
		98.61-99.24m - semi-massive sulphide within quartz/carbonate vein system; upper contact										

DRILL HOLE LOG

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INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
91.82	103.26 Cont.	65°, lower contact 35°(?); pyrrhotite concentration increasing with depth, pyrite 15%, pyrrhotite 15%, chalcopyrite 2%, trace sphalerite - 1.0cm wide quartz/calcite veinlets @ 101.34m upper contact 16°, lower contact fault gouge 1/2cm 102.89-103.26m 3-4% pyrite, 2-3% pyrrhotite in sheared biotite altered greywacke/siltstone										
103.26	111.90	Biotite Altered Greywacke, Minor Siltstone	29464	103.26	104.26	1.00	<0.001	<1	40	230	14	51
		- Tan brown	29465	104.26	106.26	2.00	<0.001	<1	40	130	13	46
		- Medium grained	29466	106.26	108.26	2.00	<0.001	<1	20	37	17	42
		- Cross-cut by 1mm wide quartz/calcite veinlets 55° & 25°	29467	108.26	110.26	2.00	<0.001	<1	110	22	22	57
		- Occasional 1-10mm gouge along quartz/calcite veinlets	29468	110.26	111.26	1.00	<0.001	<1	120	44	28	73
		- Overall 2% pyrite, 1% pyrrhotite, <1% chalcopyrite	29469	111.26	111.90	0.64	<0.001	<1	15	220	34	210
		- ± chlorite fracture filling 105.60m - 1.5cm wide barren quartz vein 45° 106.80m - 4.0cm wide quartz vein 65°, 1% pyrite 109.17m - 0.5cm wide carbonate vein with wall rock clasts, 30° - Lower contact with quartz vein ~60° and irregular										
111.90	112.83	Sheared Mineralized Quartz/Carbonate Vein	29155	111.90	112.83	0.93	0.024	17	<5	1200	310	210
		- Abundant carbonate 50% from 112.10 to 112.83m - Sheared, contorted, upper contact 60° - Lower contact brecciated, gougy - Overall 10% pyrrhotite, 2% pyrite, 2% chalcopyrite 112.57-112.83m 40% pyrrhotite, 5% pyrite, 4% chalcopyrite										
112.83	113.23	Gougy Quartz Carbonate Veining in Greywacke	29470	112.83	113.23	0.40	<0.001	<1	55	130	29	170
		- Breccia from 112.83-112.97m - Vein running 0°-10° - <1% pyrite, <1% pyrrhotite										
113.23	115.52	Biotite Altered Greywacke	29471	113.23	114.37	1.14	0.006	<1	65	53	24	120
		- Tan brown	29472	114.37	115.52	1.15	0.004	5	85	170	250	180
		- Upper contact gougy - Lower contact gradational - Cross-cut by 2mm quartz/calcite veinlets 10° and 40° 115.01-115.02m 1cm wide massive sulphide lens, 90% pyrrhotite, 9% pyrite, <1% chalcopyrite - Overall 3% pyrrhotite, 1% pyrite.										

DRILL HOLE LOG

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INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
115.52	116.92	Mineralized Quartz Carbonate Vein - Abundant discontinuous 1mm chlorite veinlets 65°, and wall rock clasts - Overall 10% pyrrhotite, 2% pyrite, 2% chalcopyrite 115.54-115.94m 60% pyrrhotite, 5% pyrite, 4% chalcopyrite, 2% sphalerite - Upper contact irregular - Lower contact approximately 60° with sheared siltstone/greywacke	29156	115.52	116.92	1.40	0.066	9	140	1500	220	2400
116.92	118.42	Sheared Interbedded Siltstone/Greywacke - Tan brown to light grey - Altered fragments often bleached - Strong chlorite, moderate biotite altered - Shear direction ~50° - Locally siliceous, brecciated - Locally well mineralized along 0.1 to 1.5cm stringers and blebs pyrite > pyrrhotite, trace arsenopyrite, chalcopyrite 118.21-118.42m brecciated greywacke in a quartz/carbonate matrix. Clasts up to 3cm, 40% matrix, 60% clasts 3% pyrite, 2% pyrrhotite, trace chalcopyrite	29473	116.92	118.42	1.50	0.142	9	10	580	150	290
118.42	145.82	Biotite Altered Greywacke, Minor Siltstone - Tan brown, abundant calcite fracture filling ± chlorite - Gradation upper contact, lower contact gradational - Rare (1per 25 cm) cross-cutting 0.2-0.5cm wide quartz.calcite veinlets 60° to 80° (calcite>quartz) - Quartz/calcite veinlets occasionally with pyrite, pyrrhotite minor blebs especially at contacts with wall rocks 123.44-123.61m locally moderate chlorite, pitted with 3cm wide quartz/calcite veinlets at upper contact with 20% pyrite, 2% pyrrhotite, 60° - Overall 2% pyrite, <1% pyrrhotite, <1% chalcopyrite 126.53-126.66m Quartz flooded zone with 2% pyrrhotite (1mm stringers), 1% pyrite 127.10-127.25m Quartz flooded zone 2cm wide subparallel to core axis with 10% pyrrhotite, 1% pyrite, 1% chalcopyrite 127.60-127.62m 2cm quartz veinlets 30° with 6% pyrrhotite, 2% pyrite	29474 29475 29476 29477 29533 29534 29535 29536 29537 29538 29539 29540 29541 29542 29543 29544	118.42 119.42 121.42 123.42 125.42 127.42 129.42 131.42 133.42 135.42 137.42 139.24 141.42 143.42 144.63 145.24	119.42 121.42 123.42 125.42 127.42 129.42 131.42 133.42 135.42 137.42 139.24 141.42 143.42 144.63 145.24 145.84	1.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 1.82 2.18 2.00 1.21 0.61 0.60	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	30 25 5 15 50 <5 10 10 10 10 10 15 <5 <5 20 <5	47 25 18 60 130 150 50 59 52 58 57 38 31 34 94 220	26 18 20 21 2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 3	55 79 70 59 230 110 64 62 41 44 44 49 51 59 57 80

DRILL HOLE LOG

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INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
118.42	145.82 Cont.	136.70-136.91m Quartz flooded, partially brecciated zone with 2% pyrite, <1% pyrrhotite 139.24-139.54m Quartz flooded breccia with 3% pyrite, 1-2% pyrrhotite - Increase pyrite, pyrrhotite content from 145.24 to 145.84m to 2% pyrite, 1% pyrrhotite										
145.84	146.65	Mineralized, Sheared Quartz/Calcite Flooded Greywacke/Siltstone - Quartz>>calcite (90°), biotite altered - Mineralization associated with veins and along contacts - Sharp upper contact ~85°, lower contact 70° - Locally brecciated, segmented, offset quartz calcite veinlets and tension gashes - Overall 5% pyrrhotite, 2% pyrite, 2% chalcopyrite ± trace sphalerite	29157	145.84	146.65	0.81	<0.001	2	20	330	39	210
146.65	157.00	Biotite Altered, Locally Sheared Greywacke - Tan brown to greyish brown - Minor siltstone interbeds - Sheared sections 148.48-148.65m, 148.69-148.96m, 149.29-150.64m - Shear direction appears 50-60°, 1-2% pyrrhotite, 1% pyrite in sheared sections 147.51-147.73m barren milky white quartz vein, upper contact approximately 75°, lower contact 55° 150.97-151.34m Sheared quartz>>calcite flooded biotite altered greywacke. Gougy upper contact 28°, lower contact 60°. 3-4% pyrrhotite, 2% chalcopyrite, 1% pyrite - Overall 1% pyrrhotite, <1% pyrite	29545 29546 29547 29548 29549 29158 29550 29551 29552 29553 29554 29555	146.65 147.51 148.37 149.23 150.09 150.97 151.34 152.28 153.22 154.16 155.10 156.04	147.51 148.37 149.23 150.09 150.97 151.34 152.28 153.22 154.16 155.10 156.04 157.00	0.86 0.86 0.86 0.86 0.88 0.37 0.94 0.94 0.94 0.94 0.94 0.96	<0.001 0.004 <0.001 0.006 <0.001 0.034 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<1 <1 <1 2 <1 15 <1 <1 <1 <1 <1 <1 1	<5 5 15 <5 <5 15 <5 10 5 <5 <5 <5	54 26 59 750 250 2000 80 25 85 47 27 55	<1 <1 <1 2 <1 18 <1 <1 <1 1 3 7	53 34 56 160 100 110 54 68 51 50 33 35
157.00	158.95	Massive to Semi Massive Sulphide - Hosted in sheared biotite altered greywacke, locally quartz/calcite flooded - Overall 45% massive sulphide; within massive sulphide sections: 90% pyrrhotite, 3% chalcopyrite, 1-2% pyrite 157.00-157.10m 80% pyrrhotite, 10% chalcopyrite, 2% pyrite, 8% quartz 158.39-158.95m massive sulphide 90% pyrrhotite, 3% chalcopyrite, 1-2% pyrite ± trace sphalerite? 157.92-158.39m 20% pyrrhotite, 8% chalcopyrite, 2% pyrite - Overall 25% pyrrhotite, 1% chalcopyrite, 1% pyrite	29159 29160 29161 29162	157.00 157.46 157.92 158.39	157.46 157.92 158.39 158.95	0.46 0.46 0.47 0.56	0.009 0.007 0.002 0.004	5 6 2 4	<5 5 20 15	1100 1600 660 1100	25 30 34 21	66 240 160 39

DRILL HOLE LOG

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
158.95	160.79	Biotite/Chlorite Altered Greywacke	29556	158.95	159.87	0.92	<0.001	<1	<5	72	14	87
		- Greenish grey	29557	159.87	160.79	0.92	<0.001	<1	<5	140	15	90
		- Fine grained										
		- Variably altered clasts, angular, green up to 4cm wide										
		- Occasional cross-cutting <1mm wide calcite>quartz veinlet 35°										
		- Locally brecciated at 159.95-160.03m, calcite matrix 30% with breccia clasts of greywacke up to 1.5cm										
		- Upper and lower contact gradational										
		- Overall 2-3% pyrrhotite, 1% pyrite, <1% chalcopyrite										
160.79	164.56	Mineralized, Sheared Interbedded Greywacke/Siltstone	29163	160.79	161.73	0.94	0.004	2	20	320	39	130
		- Brown to blue grey	29164	161.73	162.67	0.94	0.002	1	5	240	31	59
		- Locally quartz/calcite flooded	29165	162.67	163.61	0.94	<0.001	2	55	250	30	81
		- Mild mineralization trend ~40°	29166	163.61	164.56	0.95	<0.001	<1	20	200	29	71
		- Mineralization associated with, but not limited to, quartz flooded sheared zones										
		- Overall 15% pyrrhotite, 3% chalcopyrite, 1% pyrite										
		160.79-161.46m 20% pyrrhotite, 2% chalcopyrite, 1% pyrite										
		161.46-162.26m relatively barren sheared greywacke/siltstone										
		162.26-162.35m massive sulphide 90% pyrrhotite, 5% chalcopyrite, 5% pyrite										
		162.50-162.67m 20% pyrrhotite, 2% chalcopyrite, 1% pyrite										
		162.67-163.61m sheared greywacke/siltstone with 8% pyrrhotite, 1% chalcopyrite, 1% pyrite										
		163.61-164.56m 10% pyrrhotite, 1% chalcopyrite, 1% pyrite										
		- upper contact gradational, lower contact 35°										
164.56	167.97	Interbedded Siltstone/Greywacke	29665	164.56	165.56	1.00	<0.001	<1	<5	120	<1	53
		- Tan brown to greenish grey	29666	165.56	166.97	1.41	<0.001	<1	<5	140	9	89
		- Shearing less intense	29667	166.97	167.97	1.00	0.008	<1	<5	130	15	150
		- Quartz/calcite veinlets, 1mm running 15° and 50°										
		- Biotite ± chlorite altered										
		- Sharp lower contact 20° with mineralized quartz vein @ 167.50m 2cm fault gouge calcite? <1% pyrrhotite, <1% pyrite, <1% chalcopyrite										

DRILL HOLE LOG

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
167.97	168.27	Mineralized Quartz Vein - Upper contact 20° - Lower contact 25° - 2% chalcopyrite, <1% pyrrhotite, trace pyrite - 168.14m, 3 x 2mm angular bleb of malleable soft silvery mineral, possible electrum?	29167	167.97	168.27	0.30	0.017	<1	15	140	220	92
168.27	168.95	Mineralized Biotite Altered Greywacke - Dark brown - Cross-cut by pyrite and pyrrhotite stringers 1-3mm wide every 5cm 65° and 10-20° - Gradational upper contact and lower contact - Overall pyrite 3%, pyrrhotite 3%, chalcopyrite 1%, sphalerite <1% 169.23-169.33m quartz carbonate vein upper contact, lower contact 55°	29168	168.27	168.95	0.68	<0.001	2	40	360	220	220
168.95	170.23	Mineralized Quartz/Carbonate Flooded Sheared Greywacke - Greenish grey to cream grey - Strong chlorite alteration - Quartz/calcite blebs, elongate clasts (65°) and discontinuous stringers throughout to 170.04m 168.95-170.04m quartz/calcite flooded greywacke with 15% pyrite, 12% pyrrhotite, 5% chalcopyrite ± trace sphalerite? 170.04-170.23m chlorite altered sheared greywacke with sulphides disseminated 4-8% pyrrhotite, 1-2% pyrite	29169 29170	168.95 169.59	169.59 170.23	0.64 0.64	0.009 0.009	5 5	50 30	420 390	400 550	1300 710
170.23	174.30	Biotite Altered Greywacke - Tan brown - Rare cross-cutting quartz/calcite veinlets, 15°, 65° - Locally (over 5cm) pyrite and pyrrhotite disseminated up to 3%. Talcy fracture filling (locally) - Upper contact gradational - Lower contact bounded by 1.5cm wide quartz vein <1% pyrite > pyrrhotite, 20° @ 174.04m 1cm wide, quartz vein 20° <1% pyrrhotite, <1% pyrite - Overall <1% pyrrhotite, <1% pyrite	29668 29669 29670 29671	170.23 171.25 172.27 173.29	171.25 172.27 173.29 174.30	1.02 1.02 1.02 1.01	<0.001 <0.001 <0.001 <0.001	<1 <1 <1 <1	<5 <5 10 <5	60 59 75 59	7 4 5 5	98 52 51 39

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INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
174.30	174.90	Siltstone - Dark grey - Fine grained sharp upper contact 20° with quartz vein - Not sheared or silicified - <1mm wide, 2-3cm long fine grained pyrite stringers - Overall <1 to 1% pyrite, <1% pyrrhotite	29672	174.30	174.90	0.60	<0.001	<1	<5	73	1	34
174.90	176.34	Interbedded Biotite Altered Greywacke and Siltstone - Tan brown - Medium grained - Pervasive biotite altered - Rare cross-cutting 0.1-0.5 quartz/calcite veinlets 35° - Remnant banding ~30° - Blebby calcite fracture filling - Lower contact gradational - Minor pyrite blebs, 1mm - Overall <1% pyrite, <1% pyrrhotite	29673 29674	174.90 175.62	175.62 176.34	0.72 0.72	<0.001 <0.001	<1 <1	<5 <5	94 68	2 <1	33 33
176.34	177.56	Mildly Mineralized Biotitic Greywacke - Tan brown - Fine to medium grained - Pervasive biotitic altered - Minor sheared segmented silicified siltstone interbeds ~75° with local pyrite content up to 20% over 1cm - 1% disseminated pyrrhotite, 1% disseminated pyrite - Blebby concentration of pyrite>>pyrrhotite associated with quartz/calcite veinlets - Overall 3% pyrite, 1-2% pyrrhotite, lower contact gradational	29675 29676	176.34 176.95	176.95 177.56	0.61 0.61	0.071 <0.001	<1 <1	5 <5	190 310	<1 <1	36 41
177.56	187.54	Biotite Altered Greywacke, Minor Siltstone - Tan brown - Medium to fine grained - 0.5cm wide silicified siltstone banding from 177.56-178.99m <1% pyrite, <1% pyrrhotite - Pervasive biotite altered >> chlorite altered - Rare cross-cutting quartz/calcite micro veinlets 25° - Locally sections segmented, feldspar altered, silicified rocks, generally over 1.0cm - Quartz/calcite filled tension gashes proximal to veinlets lower contact sheared - Overall <1% pyrite, <1% pyrrhotite	29677 29678 29679 29680 29681 29682 29683	177.56 178.56 180.06 181.56 183.06 184.56 186.06	178.56 180.06 181.56 183.06 184.56 186.06 187.53	1.00 1.50 1.50 1.50 1.50 1.50 1.47	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<1 <1 <1 <1 <1 <1 <1	<5 <5 <5 <5 10 <5 <5	76 89 46 37 50 44 33	2 2 <1 1 <1 <1 2	41 43 41 38 39 40 49

DRILL HOLE LOG

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INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
187.53	188.17	Sheared Biotite Altered Greywacke/Siltstone - Mottled dark grey to tan brown - Highly sheared contorted, very fine grained - Strong biotite, chlorite, silica and feldspar altered - Calcite fracture filling - Silicified 2-3mm halos around chlorite fracture filling - 40% sheared segmented silicified siltstone fragments - Lower contact gradational with variably chlorite biotite altered greywacke - Very minor 2-3mm pyrite blebs within quartz/calcite veinlets - Overall <1% pyrite, <1% pyrrhotite	29684	187.53	188.17	0.64	<0.001	<1	10	58	4	54
188.17	192.25	Variably Chlorite and Biotite Altered Greywacke - Tan brown to greenish grey - Medium grained - Biotite alteration grades to chlorite alteration of greywacke - Few cross-cutting quartz/calcite veinlets 35° - Lower contact gradational - Locally pyrite 1mm blebs 2% over 10cm - Overall 1% disseminated pyrite, <1% pyrrhotite 188.48-188.50m quartz/calcite veinlet with 1% pyrite as scattered 1mm cubes	29685 29686	188.17 190.17	190.17 192.25	2.00 2.08	<0.001 <0.001	<1 <1	10 10	110 60	2 <1	50 35
192.25	211.84	Fine Grained Greywacke, Minor Siltstone - Very fine grained - Not silicified, moderate biotite altered - Cross-cut by discontinuous quartz/calcite veinlets 1-3mm wide and tension gashes - Overall 1-2% disseminated pyrite > pyrrhotite - Veinlets 90° and 15° - <1mm wide chlorite veinlets, random, giving rock locally breccia character, 1-2cm angular clasts - Occasional 0.5-1.0cm wide pyrite > > pyrrhotite veinlets 85° to 50° increasing in frequency with depth 193.88-194.26m sheared quartz/calcite flooded zone, 45cm with 10% pyrrhotite, 5% pyrite 201.57m 0.5cm wide pyrite 80%, pyrrhotite 20% veinlet 75° 201.86m 0.5cm wide pyrite/pyrrhotite/quartz veinlet, pyrite 40%, pyrrhotite 5%, quartz 55%, 85°	29687 29688 29689 29690 29691 29692 29693 29694 29171 29695 29696 29697 29172 29698 29699 29700 29801	192.25 193.88 194.26 195.26 197.26 199.26 201.26 202.45 203.45 204.54 205.54 207.54 208.80 209.02 210.02 210.56 210.97	193.88 194.26 195.26 197.26 199.26 201.26 202.45 203.45 204.54 205.54 207.54 208.80 209.02 210.02 210.56 210.97 211.84	1.63 0.38 1.00 2.00 2.00 2.00 1.19 1.00 1.09 1.00 2.00 1.26 0.22 1.00 0.54 0.41 0.87	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.003 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<1 <1 <1 <1 <1 <1 <1 <1 1 <1 <1 <1 <1 <1 <1 <1 <1	<5 <5 10 10 <5 <5 <5 <5 30 <5 <5 <5 10 <5 10 <5 <5	120 760 130 62 30 22 160 220 190 94 100 61 200 65 55 180 89	<1 <1 <1 <1 <1 <1 <1 <1 32 <1 <1 <1 <1 <1 <1 <1 <1	37 35 41 39 42 42 48 41 73 39 37 40 37 43 41 43 32

DRILL HOLE LOG

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INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
192.25	211.84 Cont.	202.20m 1.0cm wide pyrite 80%, pyrrhotite 5%, quartz 15% veinlet 35° 203.04m 1.0cm wide pyrite 40%, pyrrhotite 30%, quartz 30% veinlet 55° 203.45-204.54m biotite altered greywacke with numerous cross-cutting 0.5-1.0cm wide pyrite>>pyrrhotite veinlets, generally 65°. Pyrrhotite disseminated in surrounding wall rocks 10% Overall pyrite 6%, pyrrhotite 4%, trace chalcopyrite 208.80-209.02m quartz/calcite flooded greywacke with 8% pyrite, 1% chalcopyrite, 4% pyrrhotite 210.56-210.97m quartz calcite/flooded greywacke with 10% pyrite, 3% pyrrhotite - Gradational lower contact (based on increased mineralization of fracture filling)										
211.84	219.08	Locally Mineralized Greywacke, Minor Siltstone - Generally tan brown - Moderate biotite altered ± chlorite - Pyrite, pyrrhotite mineralization associated with increased quartz/calcite veining - Mineralized veinlets quartz>>carbonate, carbonate veinlets with no quartz generally not mineralized - Abundant randomly orient, tension gashes - Overall 5% disseminated pyrrhotite - Fractures often 55° and 80° - Locally (across 4cm) pyrite up to 30%, 10% pyrrhotite, 8% chalcopyrite - Mineralization generally coarse grained 213.57-214.01m sheared quartz/calcite flooded biotite altered greywacke with 20% pyrite, 10% pyrrhotite, 10% chalcopyrite	29173	211.84	213.04	1.20	<0.001	<1	10	74	<1	39
			29174	213.04	214.24	1.20	0.006	<1	<5	310	<1	44
			29175	214.24	215.44	1.20	0.005	<1	<5	350	2	73
			29176	215.44	216.64	1.20	<0.001	1	10	460	<1	42
			29177	216.64	217.84	1.20	<0.001	1	<5	490	<1	52
			29178	217.84	219.08	1.24	<0.001	<1	<5	330	<1	44
219.08	221.57	Biotite Altered, Greywacke with Disseminated Sulphides - Similar to overlying rocks but with very fine grained pyrrhotite (5%?) and pyrite (<3%) - Occasional cross-cutting pyrite>pyrrhotite veinlet, 1-3mm wide, 55° - Not silicified 220.18m 3cm wide 45° quartz/carbonate veinlet 3% pyrite, 2% pyrrhotite	29179	219.08	220.33	1.25	<0.001	<1	<5	450	7	67
			29180	220.33	221.57	1.24	<0.001	<1	5	260	<1	34

DRILL HOLE LOG

HOLE NO. I90-4 | PAGE 15 OF 25

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
219.08	221.57 Cont.	- Calcite filled fracture filling becoming more abundant with depth										
221.57	226.03	Mineralized Sheared, Quartz/Calcite Flooded Greywacke	29181	221.57	222.68	1.11	<0.001	<1	5	320	<1	37
		- Sheared siltstone fragments, silicified, up to 3cm	29182	222.68	223.79	1.11	0.003	<5	2	580	2	32
		- Abundant pyrrhotite (20%) as blebs and disseminated, pyrite 10%, chalcopyrite 2%, locally over 20cm	29183	223.79	224.90	1.11	0.006	<5	1	340	<1	40
		- Mineralization associated with quartz/calcite veinlets	29184	224.90	226.03	1.13	<0.001	<5	<1	140	<1	32
		- Strong local chlorite alteration										
		- Sheared texture										
		- Veinlets and shear direction 60°										
		224.64-224.78m semi-massive sulphide, pyrite 30%, pyrrhotite 30%, chalcopyrite 1% (ground core)										
		- Slightly brecciated character towards end of interval between 222.17-222.28m										
		- Overall 8% pyrrhotite, 4% pyrite, <1% chalcopyrite										
226.03	227.67	Biotite Altered Greywacke	29185	226.03	226.85	0.82	<0.001	<5	<1	82	<1	38
		- Tan brown to light grey	29186	226.85	227.67	0.82	<0.001	<5	<1	100	<1	42
		- Upper contact ~65° not sharp										
		- Lower contact gradational with locally brecciated greywacke										
		- Veinlets running 40° and 15°, 1mm calcite>quartz										
		- Minor local shearing										
		- Marked reduction in sulphide mineralization from overlying unit										
		- Overall pyrite 1%, pyrrhotite 1%, trace chalcopyrite										
		228.24m 0.5cm wide gougy quartz veinlet 40° <1% sulphides										
227.67	230.70	Greywacke Breccia	29187	227.67	228.68	1.01	<0.001	<5	<1	71	<1	32
		- Quartz and calcite matrix 10-40% angular biotite altered greywacke clasts, 0.1 to 4.0cm 90-60%	29188	228.68	229.69	1.01	<0.001	5	<1	57	1	32
		- Minor segmented 0.5cm banding	29189	229.69	230.70	1.01	<0.001	<5	<1	18	<1	51
		- Locally gouge over 3.0cm @ 229.86m										
		- Patchy mineralization up to 10% pyrite, 3% pyrrhotite, 2% chalcopyrite, especially in quartz flooded breccia zones where matrix exceeds 20% and section is moderately silicified, generally blue grey										
		- Overall 5% pyrite, 2% pyrrhotite, 1% chalcopyrite										
		228.27-228.39m silicified siltstone breccia with 10% pyrite, 3% pyrrhotite, 1% chalcopyrite										

DRILL HOLE LOG

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
230.70	237.05	Biotite Altered Interbedded Greywacke/Siltstone	29190	230.70	231.76	1.06	<0.001	<5	<1	55	<1	44
		- Tan brown to light cream grey	29191	231.76	232.82	1.06	0.019	<5	<1	170	<1	47
		- Locally well mineralized (over 0.2-7.0cm)	29192	232.82	233.88	1.06	<0.001	<1	<5	80	<1	36
		- Locally sheared quartz flooded	29193	233.88	234.94	1.06	<0.001	<1	5	120	<1	29
		- Abundant 1-2mm wide 1.0-3.0cm long quartz>calcite>pyrite>pyrrhotite filled, tension gashes	29194	234.94	236.00	1.06	<0.001	<1	5	160	3	33
		- Shear direction 40-50°	29195	236.00	237.05	1.05	<0.001	<1	15	190	<1	32
		- Overall pyrite 3%, pyrrhotite 1% trace chalcopyrite										
		231.09m 2cm wide barren quartz vein 60°										
		231.77m 1.5cm wide quartz vein 25% pyrite, 5% pyrrhotite, <1% chalcopyrite 40°										
		232.59-232.67m Quartz/calcite flooded veinlet, 50° with 30% pyrite, 15% pyrrhotite, 1% chalcopyrite										
		234.31-234.54m Breccia, quartz/calcite flooded moderately silicified greywacke with 8% pyrite, 2% pyrrhotite, trace chalcopyrite mineralization to less then 1% overall										
237.05	277.50	Greywacke with Lesser Banded Siltstone Interbeds	29802	237.05	239.05	2.00	<0.001	<1	5	73	<1	43
		- Brownish grey to locally greenish grey	29803	239.05	241.05	2.00	<0.001	<1	<5	66	2	39
		- Generally medium grained to fine grained silty interbeds	29804	241.05	243.05	2.00	<0.001	<1	<5	54	<1	41
		- Relatively unsheared, patchy calcite fracture filling	29805	243.05	245.05	2.00	<0.001	<1	<5	35	<1	45
		- Biotite altered, locally chlorite altered fracture filling	29806	245.05	246.85	1.80	<0.001	<1	10	55	1	190
		- 1cm wide 2mm banded moderately silicified light cream brown fine grained silty interbeds ~25°	29807	246.85	247.48	0.63	<0.001	<1	<5	120	2	41
			29808	247.48	248.48	1.00	<0.001	<1	10	63	<1	36
		- Interbeds occasionally segmented, offset 0.5cm by biotite and chlorite filled, 1mm wide fractures with patchy pyrite blebs, <1%	29809	248.48	250.48	2.00	<0.001	<1	<5	94	1	25
			29810	250.48	252.48	2.00	<0.001	<1	<5	110	<1	28
			29811	252.48	254.48	2.00	<0.001	<1	5	81	2	25
		- Quartz/calcite filled veinlets 1-3mm wide cross-cutting core at 25-30° becoming more abundant between 239.70-247.50m. This section also contains abundant quartz/calcite tension gashes and is slightly more chlorite altered than surrounding rocks.	29812	254.48	256.48	2.00	<0.001	<1	5	78	2	28
			29813	256.48	258.48	2.00	<0.001	<1	<5	120	<1	26
			29814	258.48	260.48	2.00	<0.001	<1	10	100	<1	21
			29815	260.48	262.48	2.00	<0.001	<1	5	74	<1	25
			29816	262.48	264.01	1.53	<0.001	<1	5	57	<1	24
		- Lower contact gradational based on increased siltstone	29817	264.01	264.50	0.49	<0.001	<1	<5	57	<1	34
		- Overall <1% pyrite, <1% pyrrhotite	29818	264.50	265.50	1.00	0.004	<1	<5	98	<1	32
		238.75-238.80m quartz veinlet 40° <1% pyrite	29819	265.50	267.50	2.00	<0.001	<1	<5	93	<1	27
		245.78-245.82m chlorite calcite>quartz veinlet with 3% pyrite, <1% pyrrhotite	29820	267.50	269.50	2.00	<0.001	<1	<5	47	<1	27
			29821	269.50	271.50	2.00	<0.001	<1	10	120	4	26
		246.85-247.48m chloritic sheared section, quartz/calcite veinlets up to 3cm, locally brecciated, 1-2% pyrite, <1% pyrrhotite	29822	271.50	273.50	2.00	<0.001	<1	10	46	5	26
			29823	273.50	275.50	2.00	<0.001	<1	5	39	4	20
			29824	275.50	277.50	2.00	0.002	<1	10	68	5	24

DRILL HOLE LOG

HOLE NO. I90-4 | PAGE 17 OF 25

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
		251.93-252.03m Chloritic quartz/calcite flooded with 1% pyrite, <1% pyrrhotite 255.12-255.15m Quartz>calcite veinlet, 40° <1% pyrrhotite, <1% pyrite 260.79-260.85m Sheared, chloritic, quartz calcite flooded zone with 1-2% pyrrhotite as blebs and stringers <1 to 1% pyrite 262.72-262.74m Milky white quartz calcite veinlet ~90° with 1% pyrrhotite, <1% pyrite as one 0.2 x 0.5mm bleb at contact 264.01-264.50m Sheared biotite and chlorite altered siltstone/greywacke with 3 distinct 4cm wide zones of quartz calcite flooding 264.01m,264.20m and 264.46m localized blebs of pyrite and pyrrhotite overall 1% pyrrhotite, <1% pyrite 269.26-269.29m Quartz/calcite flooded heavy biotite altered section, very sharp upper contact 37° minor gouge lower contact 37° <1% pyrrhotite, <1% pyrite 271.09-271.11m Sheared quartz calcite flooded section, irregular upper and lower contact <1% pyrrhotite, <1% pyrite - Slight increase in quartz/calcite microveining from 273.41 to 274.70m										
276.35	299.92	Interbedded Siltstone and Greywacke - Color variable tan brown to greenish grey, dependant on extent of biotite and chlorite alteration - Generally fine grained. Sections with strong biotite alteration occasional coarse grained due to abundance of coarse grained biotite - Variably biotite and chlorite altered; biotite alteration dominant. Chlorite altered sections often grade from biotite altered sections from a tan brown to greenish grey color - Bluish grey sections, generally 0.5 to 2.0cm wide of silicified siltstone, overall 10% siltstone, often associated with increased quartz calcite microveining, core axis highly variable but often 20°-35°	29825	277.50	279.50	2.00	<0.001	<1	25	77	8	20
			29826	279.50	281.50	2.00	<0.001	<1	30	32	9	23
			29827	281.50	283.50	2.00	<0.001	<1	25	71	7	22
			29828	283.50	285.50	2.00	<0.001	<1	10	45	5	23
			29829	285.50	287.50	2.00	<0.001	<1	<5	63	5	21
			29830	287.50	288.60	1.10	<0.001	<1	10	83	6	19
			29831	288.60	290.20	1.60	<0.001	<1	<5	50	<1	27
			29832	290.20	291.20	1.00	<0.001	<1	<5	48	<1	21
			29833	291.20	293.20	2.00	<0.001	<1	<5	130	<1	23
			29834	293.20	295.20	2.00	<0.001	<1	<5	33	<1	19
			29835	295.20	297.20	2.00	<0.001	<1	15	63	<1	29
			29836	297.20	299.20	2.00	<0.001	<1	5	22	<1	22
			29837	299.20	299.92	0.72	<0.001	<1	<5	55	<1	56

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au (oz/t)	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
276.35	299.92 Cont.	- Rare quartz/calcite veinlets, 0.2-0.5cm wide, 20-35°. Where veinlets cross-cut biotite altered sections, a 2-8mm blue greenish grey silica altered halo surrounds veinlet. - Veinlet contacts often chloritic, slickensided - Altered bands occasionally segmented with 0.5cm offset perpendicular to plane of bedding - Locally sheared, silicified *NOTE: distinction between siltstone and greywacke often made based on grain size (fine grained siltstone, coarse grained to medium grained greywacke) which in turn appears to be locally dependant on alteration (fine grained chlorite, coarse grained to medium grained biotite) possible that "interbedded" units are in fact an expression of a single variably chlorite and biotite altered unit - Overall <1% pyrite, <1% pyrrhotite mainly as blebs associated with quartz/calcite veinlets (pyrrhotite > pyrite) and very minor disseminations 287.50-288.60m blocky, fractured biotite altered greywacke with 2% pyrite along fracture surfaces 289.31m minor clay gouge 2mm thick on chlorite slickensided fracture surface 288.65-290.20m overall sheared character to rocks which include the above two sections, <1% pyrite > pyrrhotite 291.29-291.30m Quartz/calcite veinlet, 40°, 1% pyrite, 1% pyrrhotite 292.72-292.73m quartz/calcite veinlet, 40° with 7% pyrrhotite, <1% pyrite END OF HOLE 299.92m										

Keewatin Engineering Inc. | DRILL LOG | Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29196	3.05	4.29	1.24		35	-0.80		<0.001		<1	<5	160	440	440
29197	4.29	5.87	1.58		97	-0.05		<0.001		<1	<5	110	<1	150
29198	5.87	7.87	2.00		100	0.00		<0.001		<1	<5	37	<1	180
29199	7.87	9.78	1.91		100	0.00		<0.001		<1	<5	55	<1	130
29200	9.78	10.46	0.68		97	-0.02		<0.001		<1	<5	120	<1	100
29401	10.46	10.91	0.45		100	0.00		0.014		<1	<5	800	5	110
29402	10.91	12.00	1.09		96	-0.04		0.003		<1	<5	180	<1	260
29403	12.00	12.46	0.46		100	0.00		<0.001		<1	<5	130	<1	320
29404	12.46	13.18	0.72		92	-0.06		<0.001		<1	<5	120	<1	87
29405	13.18	14.18	1.00		100	0.00		<0.001		<1	<5	37	<1	64
29406	14.18	15.18	1.00		100	0.00		<0.001		<1	<5	68	<1	63
29407	15.18	16.76	1.58		97	-0.05		<0.001		<1	<5	49	<1	80
29408	16.76	18.76	2.00		102	+0.04		<0.001		<1	<5	24	<1	45
29409	18.76	20.76	2.00		94	-0.11		<0.001		<1	<5	24	<1	46
29410	20.76	22.76	2.00		98	-0.04		<0.001		<1	<5	79	<1	43
29411	22.76	24.76	2.00		100	0.00		<0.001		<1	<5	29	<1	44
29412	24.76	26.43	1.67		97	-0.05		<0.001		<1	15	38	<1	47
29413	26.43	27.93	1.50		100	0.00		0.005		<1	<5	81	13	350
29414	27.93	29.43	1.50		92	-0.12		<0.001		<1	<5	41	5	57
29415	29.43	30.90	1.47		97	-0.04		<0.001		<1	15	70	12	47
29416	30.90	32.90	2.00		95	-0.10		<0.001		<1	<5	73	3	41
29417	32.90	34.90	2.00		97	-0.06		<0.001		<1	5	78	2	52
29418	34.90	36.90	2.00		100	0.00		<0.001		<1	<5	50	<1	43
29419	36.90	38.90	2.00		98	-0.04		<0.001		<1	<5	51	<1	47
29420	38.90	40.90	2.00		93	-0.13		<0.001		<1	5	23	<1	42
29421	40.90	42.90	2.00		100	0.00		<0.001		<1	20	16	<1	46
29422	42.90	44.90	2.00		97	-0.06		<0.001		<1	15	39	2	44
29423	44.90	46.90	2.00		100	0.00		<0.001		<1	<5	55	2	41
29424	46.90	48.90	2.00		93	-0.14		<0.001		<1	5	63	2	43
29425	48.90	50.90	2.00		94	-0.12		<0.001		<1	5	34	<1	42
29426	50.90	52.90	2.00		90	-0.20		<0.001		<1	20	33	<1	39
29427	52.90	54.90	2.00		97	-0.05		<0.001		<1	<5	42	<1	47
29428	54.90	56.92	2.02		100	0.00		<0.001		<1	<5	61	1	75
29429	56.92	58.92	2.00		100	0.00		<0.001		<1	<5	49	1	61
29430	58.92	60.92	2.00		100	0.00		<0.001		<1	15	61	<1	49

Keewatin Engineering Inc. | DRILL LOG | Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29431	60.92	61.90	0.98		99	-0.01		0.005		<1	40	160	4	42
29140	61.90	62.20	0.30		100	0.00		0.029		1	110	460	5	38
29432	62.20	62.87	0.67		96	-0.03		<0.001		<1	10	31	2	49
29433	62.87	63.54	0.67		100	0.00		<0.001		<1	20	68	12	160
29141	63.54	64.00	0.46		102	+0.01		0.025		4	110	130	120	550
29434	64.00	65.00	1.00		83	-0.17		<0.001		2	45	59	54	740
29435	65.00	66.00	1.00		80	-0.20		<0.001		3	10	72	43	340
29436	66.00	67.07	1.07		100	0.00		<0.001		<1	<5	44	7	190
29437	67.07	68.13	1.06		100	0.00		<0.001		<1	<5	75	5	370
29438	68.13	69.19	1.06		100	0.00		<0.001		1	<5	63	16	1200
29142	69.19	70.12	0.93		101	+0.01		0.008		2	20	220	21	880
29452	70.12	71.18	1.06		94	-0.06		<0.001		<1	<5	70	5	110
29453	71.18	72.24	1.06		99	-0.01		<0.001		<1	<5	75	2	90
29143	72.24	73.24	1.00		103	+0.03		0.006		2	15	740	12	120
29144	73.24	74.24	1.00		106	+0.06		0.003		1	50	300	9	89
29145	74.24	75.24	1.00		89	-0.11		0.006		2	10	560	25	230
29146	75.24	76.05	0.81		95	-0.04		0.006		<1	5	150	15	130
29439	76.05	76.90	0.85		100	0.00		<0.001		<1	25	110	4	76
29440	76.90	77.75	0.85		106	+0.05		<0.001		<1	40	270	4	73
29441	77.75	78.60	0.85		100	0.00		<0.001		<1	20	84	3	51
29442	78.60	79.46	0.86		100	0.00		<0.001		<1	5	150	4	77
29443	79.46	80.47	1.01		100	0.00		<0.001		<1	20	150	9	120
29444	80.47	81.48	1.01		97	-0.03		<0.001		<1	<5	360	48	330
29147	81.48	82.24	0.76		100	0.00		0.066		6	90	1500	110	660
29148	82.24	83.00	0.76		113	+0.10		0.031		11	240	1200	420	360
29149	83.00	83.77	0.77		100	0.00		0.046		9	2700	980	280	1400
29445	83.77	84.77	1.00		100	0.00		0.003		20	120	82	12	80
29446	84.77	85.77	1.00		100	0.00		0.012		<1	340	200	280	240
29447	85.77	86.77	1.00		86	-0.14		0.004		<1	40	35	12	67
29448	86.77	87.77	1.00		85	-0.15		0.003		<1	20	40	8	70
29449	87.77	88.77	1.00		98	-0.02		<0.001		<1	10	52	8	74
29450	88.77	89.77	1.00		98	-0.02		<0.001		<1	10	7	9	95
29451	89.77	90.74	0.97		95	-0.05		<0.001		<1	<5	62	11	84
29150	90.74	91.82	1.08		100	0.00		0.004		<1	15	230	27	57
29454	91.82	92.82	1.00		100	0.00		<0.001		<1	10	110	15	140

DRILL HOLE NO. 190-4

Keewatin Engineering Inc.			DRILL LOG								Sample Data		
SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29455	92.82	93.82	1.00		98	-0.02		<0.001		2	10	230	39	270
29456	93.82	94.81	0.99		92	-0.08		<0.001		<1	<5	140	21	150
29151	94.81	95.21	0.40		105	+0.02		0.026		21	230	810	280	3100
29457	95.21	96.26	1.05		100	0.00		<0.001		<1	25	320	30	570
29152	96.26	96.51	0.25		100	0.00		0.009		4	260	1600	66	4300
29458	96.51	97.56	1.05		100	0.00		<0.001		<1	50	150	41	520
29459	97.56	98.61	1.05		100	0.00		<0.001		<1	50	270	26	170
29153	98.61	99.24	0.63		95	-0.02		0.007		3	95	840	61	640
29460	99.24	100.15	0.91		99	-0.01		<0.001		<1	35	87	29	120
29461	100.15	101.06	0.91		99	-0.01		<0.001		<1	25	36	15	95
29462	101.06	101.97	0.91		95	-0.05		<0.001		<1	15	150	10	67
29463	101.97	102.89	0.92		91	-0.08		<0.001		<1	15	150	7	53
29154	102.89	103.26	0.37		100	0.00		0.002		2	120	430	10	120
29464	103.26	104.26	1.00		96	-0.09		<0.001		<1	40	230	14	51
29465	104.26	106.26	2.00		100	0.00		<0.001		<1	40	130	13	46
29466	106.26	108.26	2.00		99	-0.02		<0.001		<1	20	37	17	42
29467	108.26	110.26	2.00		89	-0.22		<0.001		<1	110	22	22	57
29468	110.26	111.26	1.00		90	-0.10		<0.001		<1	120	44	28	73
29469	111.26	111.90	0.64		100	0.00		<0.001		<1	15	220	34	210
29155	111.90	112.83	0.93		98	-0.02		0.024		17	<5	1200	310	210
29470	112.83	113.23	0.40		92	-0.03		<0.001		<1	55	130	29	170
29471	113.23	114.37	1.14		98	-0.02		0.006		<1	65	53	24	120
29472	114.37	115.52	1.15		100	0.00		0.004		5	85	170	250	180
29156	115.52	116.92	1.40		102	+0.03		0.066		9	140	1500	220	2400
29473	116.92	118.42	1.50		98	-0.03		0.142		9	10	580	150	290
29474	118.42	119.42	1.00		100	0.00		<0.001		<1	30	47	26	55
29475	119.42	121.42	2.00		95	-0.09		<0.001		<1	25	25	18	79
29476	121.42	123.42	2.00		100	0.00		<0.001		<1	5	18	20	70
29477	123.42	125.42	2.00		97	-0.06		<0.001		<1	15	60	21	59
29533	125.42	127.42	2.00		100	0.00		<0.001		<1	50	130	2	230
29534	127.42	129.42	2.00		81	-0.38		<0.001		<1	<5	150	<1	110
29535	129.42	131.42	2.00		100	0.00		<0.001		<1	10	50	<1	64
29536	131.42	133.42	2.00		90	-0.20		<0.001		<1	10	59	<1	62
29537	133.42	135.42	2.00		98	-0.04		<0.001		<1	10	52	<1	41
29538	135.42	137.42	2.00		98	-0.04		<0.001		<1	10	58	<1	44

Keewatin Engineering Inc.			DRILL LOG											Sample Data
SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29539	137.42	139.24	1.82		103	+0.05		<0.001		<1	10	57	<1	44
29540	139.24	141.42	2.18		90	-0.22		<0.001		<1	15	38	<1	49
29541	141.42	143.42	2.00		100	0.00		<0.001		<1	<5	31	<1	51
29542	143.42	144.63	1.21		101	+0.01		<0.001		<1	<5	34	<1	59
29543	144.63	145.24	0.61		100	0.00		<0.001		<1	20	94	<1	57
29544	145.24	145.84	0.60		143	+0.17		<0.001		<1	<5	220	3	80
29157	145.84	146.65	0.81		96	-0.03		<0.001		2	20	330	39	210
29545	146.65	147.51	0.86		98	-0.02		<0.001		<1	<5	54	<1	53
29546	147.51	148.37	0.86		100	0.00		0.004		<1	5	26	<1	34
29547	148.37	149.23	0.86		100	0.00		<0.001		<1	15	59	<1	56
29548	149.23	150.09	0.86		100	0.00		0.006		2	<5	750	2	160
29549	150.09	150.97	0.88		110	+0.09		<0.001		<1	<5	250	<1	100
29158	150.97	151.34	0.37		95	-0.02		0.034		15	15	2000	18	110
29550	151.34	152.28	0.94		89	-0.10		<0.001		<1	<5	80	<1	54
29551	152.28	153.22	0.94		100	0.00		<0.001		<1	10	25	<1	68
29552	153.22	154.16	0.94		100	0.00		<0.001		<1	5	85	<1	51
29553	154.16	155.10	0.94		95	-0.05		<0.001		<1	<5	47	1	50
29554	155.10	156.04	0.94		98	-0.02		<0.001		<1	<5	27	3	33
29555	156.04	157.00	0.96		94	-0.08		<0.001		1	<5	55	7	35
29159	157.00	157.46	0.46		102	+0.01		0.009		5	<5	1100	25	66
29160	157.46	157.92	0.46		100	0.00		0.007		6	5	1600	30	240
29161	157.92	158.39	0.47		98	-0.01		0.002		2	20	660	34	160
29162	158.39	158.95	0.56		107	+0.04		0.004		4	15	1100	21	39
29556	158.95	159.87	0.92		99	-0.01		<0.001		<1	<5	72	14	87
29557	159.87	160.79	0.92		90	-0.09		<0.001		<1	<5	140	15	90
29163	160.79	161.73	0.94		102	+0.02		0.004		2	20	320	39	130
29164	161.73	162.67	0.94		104	+0.04		0.002		1	5	240	31	59
29165	162.67	163.61	0.94		94	-0.06		<0.001		2	55	250	30	81
29166	163.61	164.56	0.95		95	-0.05		<0.001		<1	20	200	29	71
29665	164.56	165.56	1.00		100	0.00		<0.001		<1	<5	120	<1	53
29666	165.56	166.97	1.41		97	-0.04		<0.001		<1	<5	140	9	89
29667	166.97	167.97	1.00		100	0.00		0.008		<1	<5	130	15	150
29167	167.97	168.27	0.30		103	+0.01		0.017		<1	15	140	220	92
29168	168.27	168.95	0.68		90	-0.07		<0.001		2	40	360	220	220
29169	168.95	169.59	0.64		100	0.00		0.009		5	50	420	400	1300

Keewatin Engineering Inc. | DRILL LOG | Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29170	169.59	170.23	0.64		97	-0.02		0.009		5	30	390	550	710
29668	170.23	171.25	1.02		97	-0.03		<0.001		<1	<5	60	7	98
29669	171.25	172.27	1.02		100	0.00		<0.001		<1	<5	59	4	52
29670	172.27	173.29	1.02		96	-0.04		<0.001		<1	10	75	5	51
29671	173.29	174.30	1.01		96	-0.04		<0.001		<1	<5	59	5	39
29672	174.30	174.90	0.60		95	-0.03		<0.001		<1	<5	73	1	34
29673	174.90	175.62	0.72		100	0.00		<0.001		<1	<5	94	2	33
29674	175.62	176.34	0.72		97	-0.02		<0.001		<1	<5	68	<1	33
29675	176.34	176.95	0.61		100	0.00		0.071		<1	5	190	<1	36
29676	176.95	177.56	0.61		98	-0.01		<0.001		<1	<5	310	<1	41
29677	177.56	178.56	1.00		100	0.00		<0.001		<1	<5	76	2	41
29678	178.56	180.06	1.50		96	-0.02		<0.001		<1	<5	89	2	43
29679	180.06	181.56	1.50		96	-0.06		<0.001		<1	<5	46	<1	41
29680	181.56	183.06	1.50		95	-0.07		<0.001		<1	<5	37	1	38
29681	183.06	184.56	1.50		99	-0.02		<0.001		<1	10	50	<1	39
29682	184.56	186.06	1.50		99	-0.02		<0.001		<1	<5	44	<1	40
29683	186.06	187.53	1.47		97	-0.05		<0.001		<1	<5	33	2	49
29684	187.53	188.17	0.64		98	-0.01		<0.001		<1	10	58	4	54
29685	188.17	190.17	2.00		95	-0.09		<0.001		<1	10	110	2	50
29686	190.17	192.25	2.08		98	-0.05		<0.001		<1	10	60	<1	35
29687	192.25	193.88	1.63		95	-0.08		<0.001		<1	<5	120	<1	37
29688	193.88	194.26	0.38		100	0.00		<0.001		<1	<5	760	<1	35
29689	194.26	195.26	1.00		98	-0.02		<0.001		<1	10	130	<1	41
29690	195.26	197.26	2.00		100	0.00		<0.001		<1	10	62	<1	39
29691	197.26	199.26	2.00		99	-0.02		<0.001		<1	<5	30	<1	42
29692	199.26	201.26	2.00		99	-0.02		<0.001		<1	<5	22	<1	42
29693	201.26	202.45	1.19		100	0.00		<0.001		<1	<5	160	<1	48
29694	202.45	203.45	1.00		96	-0.04		<0.001		<1	<5	220	<1	41
29171	203.45	204.54	1.09		100	0.00		0.003		1	30	190	32	73
29695	204.54	205.54	1.00		95	-0.05		<0.001		<1	<5	94	<1	39
29696	205.54	207.54	2.00		100	0.00		<0.001		<1	<5	100	<1	37
29697	207.54	208.80	1.26		99	-0.01		<0.001		<1	<5	61	<1	40
29172	208.80	209.02	0.22		95	-0.01		<0.001		<1	10	200	<1	37
29698	209.02	210.02	1.00		96	-0.04		<0.001		1	<5	65	<1	43
29699	210.02	210.56	0.54		98	-0.01		<0.001		<1	10	55	<1	41

DRILL HOLE NO. I90-4

Keewatin Engineering Inc. | DRILL LOG | Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29700	210.56	210.97	0.41		100	0.00		<0.001		<1	<5	180	<1	43
29801	210.97	211.84	0.87		98	-0.02		<0.001		<1	<5	89	<1	32
29173	211.84	213.04	1.20		100	0.00		<0.001		<1	10	74	<1	39
29174	213.04	214.24	1.20		100	0.00		0.006		<1	<5	310	<1	44
29175	214.24	215.44	1.20		100	0.00		0.005		<1	<5	350	2	73
29176	215.44	216.64	1.20		102	+0.02		<0.001		1	10	460	<1	42
29177	216.64	217.84	1.20		94	-0.07		<0.001		1	<5	490	<1	52
29178	217.84	219.08	1.24		96	-0.05		<0.001		<1	<5	330	<1	44
29179	219.08	220.33	1.25		100	0.00		<0.001		<1	<5	450	7	67
29180	220.33	221.57	1.24		97	-0.04		<0.001		<1	5	260	<1	34
29181	221.57	222.68	1.11		98	-0.02		<0.001		<1	5	320	<1	37
29182	222.68	223.79	1.11		100	0.00		0.003		<5	2	580	2	32
29183	223.79	224.90	1.11		79	-0.23		0.006		<5	1	340	<1	40
29184	224.90	226.03	1.13		100	0.00		<0.001		<5	<1	140	<1	32
29185	226.03	226.85	0.82		100	0.00		<0.001		<5	<1	82	<1	38
29186	226.85	227.67	0.82		100	0.00		<0.001		<5	<1	100	<1	42
29187	227.67	228.68	1.01		105	+0.05		<0.001		<5	<1	71	<1	32
29188	228.68	229.69	1.01		91	-0.09		<0.001		5	<1	57	<1	32
29189	229.69	230.70	1.01		97	-0.03		<0.001		<5	<1	18	<1	51
29190	230.70	231.76	1.06		100	0.00		<0.001		<5	<1	55	1	44
29191	231.76	232.82	1.06		100	0.00		0.019		<5	<1	170	<1	47
29192	232.82	233.88	1.06		97	-0.03		<0.001		<1	<5	80	<1	36
29193	233.88	234.94	1.06		103	+0.03		<0.001		<1	5	120	<1	29
29194	234.94	236.00	1.06		94	-0.06		<0.001		<1	5	160	3	33
29195	236.00	237.05	1.05		100	0.00		<0.001		<1	15	190	<1	32
29802	237.05	239.05	2.00		99	-0.02		<0.001		<1	5	73	<1	43
29803	239.05	241.05	2.00		99	-0.01		<0.001		<1	<5	66	2	39
29804	241.05	243.05	2.00		98	-0.03		<0.001		<1	<5	54	<1	41
29805	243.05	245.05	2.00		97	-0.05		<0.001		<1	<5	35	<1	45
29806	245.05	246.85	1.80		90	-0.18		<0.001		<1	10	55	1	190
29807	246.85	247.48	0.63		100	0.00		<0.001		<1	<5	120	2	41
29808	247.48	248.48	1.00		90	-0.10		<0.001		<1	10	63	<1	36
29809	248.48	250.48	2.00		96	-0.07		<0.001		<1	<5	94	1	25
29810	250.48	252.48	2.00		98	-0.03		<0.001		<1	<5	110	<1	28
29811	252.48	254.48	2.00		100	0.00		<0.001		<1	5	81	2	25

DRILL HOLE NO. I90-4

Keewatin Engineering Inc. | DRILL LOG | Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29812	254.48	256.48	2.00		100	0.00		<0.001		<1	5	78	2	28
29813	256.48	258.48	2.00		96	-0.08		<0.001		<1	<5	120	<1	26
29814	258.48	260.48	2.00		92	-0.16		<0.001		<1	10	100	<1	21
29815	260.48	262.48	2.00		99	-0.02		<0.001		<1	5	74	<1	25
29816	262.48	264.01	1.53		100	0.00		<0.001		<1	5	57	<1	24
29817	264.01	264.50	0.49		96	-0.02		<0.001		<1	<5	57	<1	34
29818	264.50	265.50	1.00		100	0.00		0.004		<1	<5	98	<1	32
29819	265.50	267.50	2.00		90	-0.02		<0.001		<1	<5	93	<1	27
29820	267.50	269.50	2.00		90	-0.20		<0.001		<1	<5	47	<1	27
29821	269.50	271.50	2.00		98	-0.03		<0.001		<1	10	120	4	26
29822	271.50	273.50	2.00		99	-0.02		<0.001		<1	10	46	5	26
29823	273.50	275.50	2.00		101	+0.02		<0.001		<1	5	39	4	20
29824	275.50	277.50	2.00		100	0.00		0.002		<1	10	68	5	24
29825	277.50	279.50	2.00		98	-0.03		<0.001		<1	25	77	8	20
29826	279.50	281.50	2.00		100	0.00		<0.001		<1	30	32	9	23
29827	281.50	283.50	2.00		97	-0.05		<0.001		<1	25	71	7	22
29828	283.50	285.50	2.00		81	-0.38		<0.001		<1	10	45	5	23
29829	285.50	287.50	2.00		100	0.00		<0.001		<1	<5	63	5	21
29830	287.50	288.60	1.10		100	0.00		<0.001		<1	10	83	6	19
29831	288.60	290.20	1.60		97	-0.05		<0.001		<1	<5	50	<1	27
29832	290.20	291.20	1.00		99	-0.01		<0.001		<1	<5	48	<1	21
29833	291.20	293.20	2.00		97	-0.05		<0.001		<1	<5	130	<1	23
29834	293.20	295.20	2.00		100	-0.01		<0.001		<1	<5	33	<1	19
29835	295.20	297.20	2.00		100	0.00		<0.001		<1	15	63	<1	29
29836	297.20	299.20	2.00		104	+0.07		<0.001		<1	5	22	<1	22
29837	299.20	299.92	0.72		100	0.00		<0.001		<1	<5	55	<1	56

DRILL HOLE NO. I90-4

DRILL HOLE LOG

HOLE NO. I90-5 | PAGE NO. 1 of 15

LOCATION: RPX ZONE; 50m @ 295° from DDH I89-10 collar; same collar as I90-6

AZIM: 025°
DIP: -45°

ELEV: 134m (approximate)
LENGTH: 210.31m

CORE SIZE: BQ

STARTED: June 21, 1990
COMPLETED: June 24, 1990
PURPOSE: To test the RPX Zone along strike to the west

CORE RECOVERY: 97.13%

DIP TEST

METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.
210.00		-53°	-44°

PROPERTY: ISKUT J.V.

CLAIM NO: HEMLO WEST 16
SECTION:

LOGGED BY: R. Pegg
DATE LOGGED: June 23, 1990
DRILLING CO: FALCON
ASSAYED BY: TSL

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
0.00	2.74	Casing										
2.74	15.03	Lithic Greywacke	29274	2.74	3.74	1.00	<0.001	<1	120	140	24	91
		- feldspathic; medium brownish grey; medium grained	29275	3.74	4.74	1.00	0.005	<1	15	220	9	32
		- minor to <moderate biotite (± chlorite) alteration (a few medium grained flakes)	29276	4.74	5.74	1.00	0.003	<1	15	120	2	26
			29277	5.74	6.74	1.00	0.002	<1	15	140	3	26
		- minor carbonate fracture filling	29278	6.74	7.74	1.00	<0.001	<1	15	100	2	20
		- minor patchy silicification/feldspar where some form subrounded patches (to 2.5 X 3.5cm) - clast appearance	29279	7.74	8.74	1.00	<0.001	<1	5	210	3	27
			29280	8.74	9.74	1.00	<0.001	<1	10	68	4	23
		- 3 - 5% pyrrhotite and 2 - 3% pyrite fine grained disseminations and fracture filling and minor patchy concentrations; sulphides > slightly more abundant in top 1.6m	29281	9.74	10.74	1.00	0.003	<1	10	53	2	21
			29282	10.74	11.74	1.00	<0.001	<1	410	150	3	17
			29283	11.74	12.74	1.00	0.004	<1	45	79	4	24
			29284	12.74	13.74	1.00	<0.001	<1	15	96	4	22
		- some shallow fracture filling but most is 40° - 55°	29285	13.74	15.03	1.29	0.011	<1	10	58	3	23
		14.11-14.20m - light grey to green siltstone banding 40° - 45°										
15.03	18.29	Altered Siltstone (Ash Tuff?) and Minor Greywacke	29286	15.03	15.56	0.53	0.005	<1	340	190	6	18
		- light greyish green	29287	15.56	16.56	1.00	0.004	<1	540	320	3	3
		- very siliceous	29288	16.56	17.27	0.71	0.018	<1	110	180	3	6
		- upper 53cm is biotite altered, has minor Greywacke and segmented banding at 35°	29289	17.27	18.29	1.02	<0.001	2	10	370	2	5
		- patchy small Greywacke sections with one @ 17.27-17.84m sheared and highly altered (silicified/feldspar) with 6 - 9% pyrrhotite - pyrite										
		- 5 - 8% pyrrhotite fine grained disseminations, patchy concentrates and fracture filling, trace to <1% chalcopyrite fracture filling, trace to 1% pyrite fracture filling and >trace arsenopyrite fracture filling with quartz - carbonate fracture filling										

DRILL HOLE LOG

HOLE NO. I90-5 | PAGE 2 OF 15

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
15.03	18.29 Cont.	16.55m - narrow quartz - carbonate fracture filling (to 0.5cm @ 45°) 17.16m - narrow quartz fracture filling with pyrrhotite and arsenopyrite										
18.29	22.72	Altered Siltstone (Ash Tuff?) and Greywacke	29290	18.29	18.98	0.69	<0.001	<1	30	220	4	16
		- brownish grey and medium greyish green	29291	18.98	19.73	0.75	<0.001	<1	10	340	9	22
		- <moderate quartz (± carbonate) patches and fracture filling (15°, 40°, 60°)	29292	19.73	20.73	1.00	<0.001	<1	15	150	4	16
			29293	20.73	21.73	1.00	<0.001	<1	5	160	4	17
		- patchy and segmented light brown and grey feldspar/silicification	29294	21.73	22.72	0.99	<0.001	<1	10	95	4	21
		- siliceous; moderately patchy light brownish grey, grey and greyish green silicification/feldspar										
		- lower contact irregular (approximately 50°)										
		18.99-19.73m - greywacke and <<siltstone sheared and fractured and altered with 7-12% pyrrhotite, 2-4% pyrite fracture filling (some concentration bands and patches)										
		- 3-6% fine grained pyrrhotite fracture filling and a few concentrations, 2 - 3% pyrite fracture filling overall										
22.72	30.92	Altered Greywacke and Minor Siltstone (Ash Tuff?)	29295	22.72	23.72	1.00	<0.001	<1	2600	160	10	35
		- medium brownish grey; brecciated appearance locally	29296	23.72	24.72	1.00	<0.001	<1	65	320	3	17
		- <moderate biotite alteration; mostly siliceous	29297	24.72	25.72	1.00	<0.001	<1	25	160	7	24
		- sheared and <moderately fractured	29298	25.72	26.72	1.00	<0.001	<1	25	210	3	21
		- >minor carbonate (± quartz fracture filling) 0° - 23°	29299	26.72	27.72	1.00	<0.001	<1	15	180	5	24
		- >minor patchy and sheared, light grey-green to brown silica/feldspar alteration	29300	27.72	28.72	1.00	<0.001	<1	15	230	4	19
			29301	28.72	29.72	1.00	<0.001	<1	25	220	5	21
		- feldspar grains locally (to 2 - 3mm); granular appearance, <<1% arsenopyrite fine to medium grained aggregates and subhedral grains associated with quartz fracture filling or as disseminations; concentrated @ 22.95 -23.07m	29302	29.72	30.92	1.20	<0.001	<1	25	250	6	18
		- 5 - 7% pyrrhotite fracture filling, disseminations and patches, ≤1% pyrite fracture filling, trace fine grained chalcopyrite fracture filling										
		24.26-24.43m - altered siltstone										
		25.14-25.27m - altered siltstone										
		26.06-26.48m - altered siltstone										

DRILL HOLE LOG

HOLE NO. 190-5 | PAGE 3 OF 15

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
30.92	45.92	Altered Siltstone (Ash Tuff?) and Lesser Greywacke	29303	30.92	31.92	1.00	<0.001	<1	5	220	7	29
		- brownish grey to light grey to light greenish-grey	29304	31.92	32.92	1.00	<0.001	<1	30	70	9	47
		- >minor carbonate fracture filling (± quartz) and <minor tension gashes	29305	32.92	33.92	1.00	0.004	<1	20	130	7	34
			29306	33.92	34.92	1.00	<0.001	<1	10	95	9	30
		- moderate light brown to grey silicification/feldspar patchy, segmented and broken alteration; <moderate biotite alteration in sections	29307	34.92	35.92	1.00	<0.001	<1	15	43	4	20
			29308	35.92	36.92	1.00	0.007	<1	10	85	6	29
			29309	36.92	37.92	1.00	<0.001	<1	20	87	6	36
		- fracture filling @ 27° - 35°, 65° - 80°	29310	37.92	38.92	1.00	<0.001	<1	15	83	6	25
		- Greywacke sections: 33.04-33.29m, 36.15-36.75m, 37.35-37.87m,43.90-44.13m,44.26-44.64m,45.38-45.50m	39211	38.92	39.92	1.00	0.003	<1	30	95	5	24
			29312	39.92	40.92	1.00	<0.001	<1	40	150	9	38
		- carbonate at 40.92 - 41.01m, upper contact 45° slip	29313	40.92	41.92	1.00	0.005	<1	240	120	16	69
		- 4-5% pyrrhotite, 1-2% pyrite fracture filling, disseminations and some small concentrations, generally more sulphides in the Greywacke sections; sulphide concentrated at 38.92-39.12m (low angle 7-10% pyrrhotite and 2-4% pyrite); 1-7mm wide sulphide fracture filling, 43.73-43.82m (10-15% pyrrhotite fracture filling with minor carbonate - mostly concentrated in upper 2cm band @ 60°-65°) and 45.38-45.50m	29314	41.92	42.92	1.00	<0.001	<1	10	72	5	18
			29315	42.92	43.92	1.00	<0.001	<1	25	110	5	22
			29316	43.92	44.92	1.00	<0.001	<1	15	190	8	30
			29317	44.92	45.92	1.00	<0.001	<1	10	150	8	26
		33.77-33.85m - (5-7% pyrite, 2-4% pyrrhotite; top contact @ 70° carbonate fracture)										
45.92	49.35	Altered Greywacke and Lesser Siltstone	29318	45.92	47.14	1.22	<0.001	<1	10	120	11	33
		- medium greyish brown and light brownish grey	29319	47.14	48.35	1.21	<0.001	<1	15	62	10	40
		- >moderate to < intense biotite alteration	29320	48.35	49.35	1.00	<0.001	<1	15	220	15	84
		- <<moderate light to medium grey feldspar/silica alteration with carbonate tension gashes										
		- >minor carbonate (± chlorite ± quartz) patches, fracture filling and tension gashes										
		- sheared										
		- carbonate fracture filling @ 45° and 70° (most irregular)										
		- arbitrary upper contact; irregular lower contact @ 40°-75° (sheared)										
		- some sulphides in fracture filling emanating from the massive sulphide below										
		- 6-8% pyrrhotite fracture filling, 2-3% pyrite fracture filling										
		- a few concentrations										
		46.46-46.60m - 15 - 20% pyrrhotite and 10 - 15% pyrite										
		48.88m - 1 cm carbonate-chlorite-pyrrhotite fracture filling										

DRILL HOLE LOG

HOLE NO. I90-5 | PAGE 4 OF 15

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
49.35	49.89	Massive Sulphides - 50 - 60% pyrrhotite, ≤1% chalcopyrite, trace pyrite overall, quartz and carbonate gangue as subrounded to streaky small patches - bottom 17cm is dirty white carbonate (± quartz) (± chlorite) with 5 - 7% pyrrhotite, trace pyrite and some coarse biotite patches and chlorite fracture filling - lower contact (irregular) 50° - 60°	29321	49.35	49.89	0.54	0.019	3	670	990	11	41
49.89	53.78	Altered Greywacke and Siltstone - medium brown to light brownish grey - >moderate biotite alteration - >minor feldspar/silica altered patches (fractured and brecciated) - >minor carbonate (± quartz) fracture filling and gashes - slips 30° - 55° - 3 -5% pyrrhotite, 1 - 2% pyrite, trace chalcopyrite as localized fracture filling and fine grained disseminations (upper 50cm is more sulphide rich) - increase in siltstone 52.06 - 53.78m	29322 29323 29234	49.89 50.89 52.06	50.89 52.06 53.78	1.00 1.17 1.62	0.007 <0.001 <0.001	<1 <1 <1	45 15 20	83 38 88	13 10 10	33 31 29
53.78	55.14	Altered and Brecciated Ash Tuff (Siltstone?) and Minor Greywacke - light to medium brownish and greenish grey (tuffaceous?) - moderately siliceous; brecciated appearance - >minor carbonate (± quartz, feldspar) fracture filling - 2-4% pyrrhotite, 1-2% pyrite, trace chalcopyrite fracture filling, pyrrhotite concentrations near bottom	29325	53.78	55.14	1.36	<0.001	<1	10	170	7	30
55.14	58.91	Altered Ash Tuff (Siltstone?) and Minor Greywacke - medium greenish and brownish grey (tuffaceous?) - >minor biotite and argillaceous altered; some sections siliceous, minor quartz (± carbonate) fracture filling (35°-55°) and patches, slips 60°-80°; quartz patch at 57.73-57.81m - narrow interbands/patches of Greywacke - 1-3% pyrrhotite, 1-2% pyrite fracture fillings and disseminations; pyrrhotite concentrated at 57.81-57.89m; siltstone/greywacke contact @ 89°-65°	29326 29327 29328	55.14 56.34 57.64	56.34 57.64 58.91	1.20 1.30 1.27	<0.001 <0.001 <0.001	<1 <1 <1	15 15 15	57 71 94	<1 <1 <1	24 25 22

DRILL HOLE LOG

HOLE NO. I90-5 | PAGE 5 OF 15

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
58.91	65.15	Greywacke and Siltstone - medium grey brown to light and dark brown - >minor biotite alteration (locally moderate) - >minor carbonate (± quartz) patches and fracture filling - some more sheared zones - some of the Greywacke/Siltstone silicified a light greenish grey - 1 - 3% pyrrhotite, 1 - 2% pyrite fracture filling, trace arsenopyrite 58.91-59.83m - Greywacke (gradational lower contact) 59.83-61.06m - Siltstone with minor fine grained Greywacke interbeds (75°), lower contact (64°) 61.06-61.71m - Greywacke with greenish grey and minor cream silicification patches in centre of section; wavy lower contact (approximately 70°) 61.71-62.53m - Siltstone - biotite alteration at top and bottom of unit; contorted banding (approximately 70°); minor greenish grey silicification 62.53-63.24m - Greywacke - feldspar grains to 5mm, central 35cm is very contorted with light green grey silicification and Greywacke, Siltstone, light brown silicification and tuffaceous fragments and patches 63.24-63.77m - sheared Greywacke/Siltstone with <intense biotite alteration; foliation at 60°-65° 63.77-64.64m - silicified Greywacke/Siltstone (light greenish grey); 63.94 - 64.30m Siltstone/Greywacke with arsenopyrite grains associated with a quartz fracture filling 64.64-65.15m - sheared Greywacke/Siltstone (55° - 60°)	30045 30046 30047 30048 30049	58.91 59.83 61.06 62.53 63.24	59.83 61.06 62.53 63.24 65.15	0.92 1.23 1.47 0.71 1.91	<0.001 <0.001 <0.001 <0.001 0.003	<1 <1 <1 <1 <1	<5 15 35 95 110	42 47 76 71 54	3 5 15 22 12	31 28 36 31 35
65.15	67.15	Silicified Siltstone and Greywacke - light to medium greenish grey; siliceous - <moderate biotite altered patches - last 51cm looks like polylithic lapilli tuff and silicified Greywacke - minor carbonate fracture filling (especially at top of unit) - 2 - 3% pyrrhotite, <1% pyrite, trace chalcopyrite (increasing in pyrrhotite over the bottom 51cm)	30050 30051	65.15 66.15	66.15 67.15	1.00 1.00	<0.001 0.033	<1 <1	15 <5	58 130	3 4	14 14

DRILL HOLE LOG

HOLE NO. I90-5 | PAGE 6 OF 15

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
67.15	72.02	Altered Greywacke	30052	67.15	68.52	1.37	0.017	<1	10	120	16	25
		- light to medium greenish grey (silicification) and medium brownish grey (Greywacke)	30053	68.52	69.56	1.04	0.436	<1	20	99	17	14
		- >minor carbonate and quartz fracture filling	30054	69.56	70.72	1.16	0.110	<1	980	140	26	21
		- >moderate light to medium greenish grey silicification (?) especially the Siltstone; biotite altered patches associated with fractures	30055	70.72	72.02	1.30	0.007	<1	290	95	11	33
		- 3 - 4% pyrrhotite, <1% pyrite, <1% arsenopyrite										
		- arsenopyrite associated with quartz fracture filling (in country rock nearby - biotite altered)										
		67.15-68.52m - Greywacke with >minor silicification										
		68.52-69.56m - silicified Greywacke (5-7% pyrrhotite)										
		69.56-70.15m - Greywacke and quartz fracture filling with 5-7% pyrrhotite, 1% arsenopyrite										
		70.15-70.72m - silicified Greywacke includes 70.26-70.36m Greywacke with quartz fracture filling and 1-2% arsenopyrite fracture filling, 2-3% pyrrhotite and 1% pyrite										
		70.72-72.02 - Greywacke and >minor silicification and 3-5% pyrrhotite and 1% arsenopyrite										
72.02	83.87	Silicified Siltstone/Greywacke and Greywacke										
		- light to medium greenish grey and medium brownish grey	30056	72.02	74.02	2.00	<0.001	<1	25	100	3	7
		- moderately fractured; >minor carbonate and quartz fracture filling										
		- Siltstone has a tuffaceous appearance locally	30057	74.02	75.87	1.85	<0.001	<1	55	100	5	7
		- contorted banding	30058	75.87	77.14	1.27	0.028	<1	900	82	10	24
		- 2-3% pyrrhotite, ≤1% pyrite, trace chalcopyrite, ≤1% arsenopyrite										
		- contorted lower contact (approximately 50°) - fractured	30059	77.14	78.81	1.67	<0.001	<1	60	74	3	12
		72.02-75.87m - fine grained light to medium green, silicified Siltstone/Tuff, minor shears (75°)										
		75.87-76.21m and	30060	78.81	80.23	1.42	0.006	<1	20	73	3	24
		76.66-77.14m - biotite altered Greywacke with quartz veins (to 6.5cm wide), minor medium grained biotite flakes and 1 - 2% arsenopyrite	30061	80.23	82.23	2.00	<0.001	<1	15	110	3	9
		78.81-80.23m - Greywacke and lesser Siltstone; <moderate carbonate fracture filling and patches (+chlorite), trace arsenopyrite	30062	82.23	83.87	1.64	<0.001	<1	<5	80	1	19
		83.10-83.87m - Siltstone and Greywacke										

DRILL HOLE LOG

HOLE NO. I90-5 | PAGE 7 OF 15

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
83.87	87.95	Greywacke										
		- medium brown grey	30063	83.87	84.87	1.00	<0.001	<1	70	110	4	39
		- minor siltstone interbeds (77°) and silicified patches	30064	84.87	85.87	1.00	0.001	<1	15	120	10	32
		- >minor quartz and carbonate fracture filling (low angle to 80°) and patches	30065	85.87	86.87	1.00	0.020	<1	270	110	14	29
			30066	86.87	87.95	1.08	0.004	<1	660	73	9	34
		- 1-2% pyrrhotite and pyrite fracture filling; 1-2% arsenopyrite fracture filling and associated with quartz fracture filling										
87.95	105.16	Siltstone and Minor Greywacke										
		- light to medium greenish grey	30067	87.95	88.95	1.00	<0.001	<1	10	72	<1	16
		- tuffaceous appearance locally	30068	88.95	90.95	2.00	<0.001	<1	<5	42	2	23
		- minor chlorite and biotite alteration	30069	90.95	92.95	2.00	<0.001	<1	<5	39	3	17
		- >minor quartz and carbonate fracture filling and patches	30070	92.95	94.95	2.00	<0.001	<1	15	27	2	18
		- >minor silicification; 1-2% pyrrhotite and pyrite fracture filling, trace arsenopyrite	30071	94.95	96.95	2.00	<0.001	<1	<5	26	2	20
			30072	96.95	98.23	1.28	<0.001	<1	<5	34	4	21
		96.37-96.66m - low angle carbonate fracture filling and tension gashes	30073	98.23	99.31	1.08	0.023	<1	5	54	4	14
			30074	99.31	101.31	2.00	<0.001	<1	<5	50	2	12
		98.23-98.32m - white quartz vein (1-3% pyrrhotite)	30075	101.31	103.31	2.00	0.004	<1	<5	97	1	8
		98.32-99.31m - pink to light creamy greywacke silicified (intense over bottom 61cm)	30076	103.31	105.16	1.85	0.015	<1	720	140	5	14
		103.34-103.53m- quartz fracture filling with biotite altered siltstone and 2-3% arsenopyrite at approximately 27°-35°										
105.16	108.50	Greywacke and Lesser Siltstone	30077	105.16	106.28	1.12	0.012	<1	50	160	5	34
		- medium brownish grey	30078	106.28	107.39	1.11	0.009	<1	550	680	1	29
		- >minor biotite alteration	30079	107.39	108.50	1.11	0.004	<1	80	140	2	21
		- >minor carbonate (±quartz) fracture filling										
		- minor silicification; 1-3% pyrrhotite, 1% pyrite, ≤1% arsenopyrite fracture filling										
108.50	119.68	Altered Siltstone and Minor Greywacke	30080	108.50	110.50	2.00	0.003	<1	15	120	<1	7
		- light to medium greenish grey										
		- <moderately fractured; minor carbonate (±quartz) fracture filling	30081	110.50	112.50	2.00	0.006	<1	<5	140	<1	5
		- <moderately silicified patches; slips 45°-50°										
		- >minor biotite alteration of greywacke	30082	112.50	114.50	2.00	0.001	<1	<5	100	2	8
		- contorted banding										
		- 3-5% pyrrhotite, 1% pyrite, trace chalcopyrite	30083	114.50	116.50	2.00	0.002	<1	<5	72	2	21
		- sulphides concentrated down to 112.36m (most very fine grained siltstone) (may be ash tuff?)	30084	116.50	118.50	2.00	0.003	<1	<5	87	<1	11
			30085	118.50	119.68	1.18	<0.001	<1	<5	98	<1	14

DRILL HOLE LOG

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INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
119.68	121.71	Greywacke and Minor Siltstone - medium to light brownish grey; fine grained to >> fine grained - minor carbonate fracture filling - contorted banding - fractured lower contact at 60° - 3-5% pyrrhotite, 1-3% pyrite, trace chalcopyrite fracture filling	30086	119.68	120.69	1.01	<0.001	<1	25	110	2	24
			30087	120.69	121.71	1.02	0.004	<1	30	270	1	17
121.71	133.16	Altered Siltstone and Minor Greywacke - medium greenish grey - fractured at upper contact - minor carbonate (±quartz) patches and fracture filling - >minor biotite alteration - increased biotite altered sections to bottom - contorted banding (approximately 50°) - 2-3% pyrrhotite, ≤1% pyrite fracture filling - biotite altered sections at 124.74-125.05m, 125.17-125.36m, 126.03-126.18m, 127.66-127.86m, 127.98-128.80m, 128.15-128.27m, 129.34-129.73m, 130.83-131.10m, 131.39-131.65m, 132.53-132.69m 130.11-130.30m- greywacke with 10% pyrrhotite and 1-3% pyrite	30088	121.71	123.71	2.00	0.003	<1	5	120	<1	11
			30089	123.71	125.71	2.00	0.004	<1	<5	60	4	16
			30090	125.71	127.71	2.00	<0.001	<1	<5	88	<1	19
			30091	127.71	129.71	2.00	<0.001	<1	<5	34	<1	22
			30092	129.71	131.71	2.00	<0.001	<1	<5	130	<1	20
			30093	131.71	133.16	1.45	<0.001	<1	10	42	3	21
133.16	140.63	Greywacke and Minor Siltstone - medium brownish grey - >moderate carbonate fracture filling and patches - >>minor biotite alteration - >minor amount of broken core - 1-3% pyrite, <1% pyrrhotite fracture filling 137.16m - broken core 138.46m - small gouge (approximately 40°)	30094	133.16	134.66	1.50	<0.001	<1	<5	150	1	36
			30095	134.66	136.16	1.50	<0.001	<1	<5	80	<1	32
			30096	136.16	137.66	1.50	<0.001	<1	5	67	2	28
			30097	137.66	139.16	1.50	<0.001	<1	15	83	2	26
			30098	139.16	140.63	1.47	0.004	<1	20	130	9	53
140.63	144.00	Greywacke - medium grey; very minor siltstone - minor clay alteration; minor lithic clasts (≤2mm) - very minor carbonate (±quartz) fracture filling - lower contact fractured at 30° - trace pyrite 141.81-143.98m- very broken core	30099	140.63	142.45	1.82	<0.001	<1	230	21	3	26
			30100	142.45	144.00	1.55	<0.001	<1	260	19	2	27

DRILL HOLE LOG

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
144.00	146.38	Siltstone and Lesser Greywacke - medium brownish grey - >minor carbonate (±quartz) fracture filling (45°-60°) - minor biotite alteration and trace sericite fracture filling - contorted banding (approximately 70°) - 2-4% pyrite, 1-2% pyrrhotite fracture filling	30245	144.00	145.32	1.32	<0.001	<1	30	52	2	29
			30246	145.32	146.38	1.06	<0.001	<1	15	53	3	30
146.38	149.74	Altered Siltstone - greenish grey (increased brown to bottom) - very contorted - >minor quartz and carbonate patches and fracture filling - minor patchy biotite alteration - 2-5% pyrite, <1% pyrrhotite	30247	146.38	148.06	1.68	<0.001	<1	<5	130	4	28
			30248	148.06	149.74	1.68	<0.001	<1	<5	120	2	22
149.74	150.66	Shear Zone - heavily sheared siltstone - >minor carbonate patches and fracture filling - brownish and greenish grey - siliceous - 3-5% pyrite fracture filling 150.34-150.46m- gouge and broken core (70°)	30249	149.74	150.66	0.92	0.003	<1	20	78	7	40
150.66	152.20	Altered Siltstone and Minor Greywacke - greenish grey with biotite patches - minor carbonate and quartz fracture filling and patches - 1-2% pyrrhotite, 1% pyrite fracture filling - contorted banding	30250	150.66	152.20	1.54	<0.001	<1	<5	58	<1	29
152.20	205.69	Altered Greywacke and Minor Siltstone	30251.	152.20	153.70	1.50	<0.001	<1	<5	72	2	28
		- medium to dark brownish grey	30252	153.70	155.20	1.50	<0.001	<1	<5	59	<1	27
		- moderate biotite alteration; moderately well fractured	30253	155.20	156.70	1.50	<0.001	<1	5	46	2	28
		- >minor carbonate and quartz fracture filling (30° and 70°)	30254	156.70	158.20	1.50	<0.001	<1	<5	45	<1	28
			30255	158.20	159.70	1.50	<0.001	<1	<5	55	<1	32
		- contorted banding; a few narrow fracture/shear zones										
		- numerous narrow greenish grey zones (greywacke and siltstone)	30256	159.70	161.20	1.50	<0.001	<1	<5	57	<1	27
			30257	161.20	162.70	1.50	<0.001	<1	<5	88	2	26
		- 1-2% pyrrhotite, ≤1% pyrite	30258	162.70	164.20	1.50	0.007	<1	<5	86	<1	32
		- greenish grey siliceous zones at 155.45-155.65m,	30259	164.20	165.70	1.50	<0.001	<1	<5	95	2	33
		161.26-161.54m, 162.44-162.55m, 162.75-163.16m,	30260	165.70	167.20	1.50	<0.001	<1	<5	100	1	32
		168.44-168.94m, 172.00-172.35m, 173.44-173.74m,										
		174.73-174.79m, 177.46-177.64m, 178.06-178.15m,	30261	167.20	168.70	1.50	<0.001	<1	<5	60	2	26
		178.69-178.85m, 179.19-179.45m, 179.69-180.19m,	30262	168.70	170.20	1.50	0.001	<1	<5	81	<1	31

DRILL HOLE LOG

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INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
152.20	205.69 Cont.	184.19-185.06m, 185.52-186.73m, 187.20-187.38m,	30263	170.20	171.70	1.50	<0.001	<1	<5	86	<1	31
		187.59-187.78m, 187.86-188.10m, 188.79-189.06m,	30264	171.70	173.20	1.50	0.002	<1	<5	77	<1	33
		189.87-189.98m, 190.12-190.46m, 190.63-190.78m,	30265	173.20	174.70	1.50	0.002	<1	<5	95	<1	26
		191.53-191.60m, 191.86-191.98m, 192.31-192.45m,										
		194.35-199.49m, 195.33-195.52m, 197.97-198.36m	30266	174.70	176.20	1.50	0.003	<1	<5	54	<1	34
			30267	176.20	178.20	2.00	0.002	<1	<5	69	<1	29
		158.30-159.56m- well fractured zone	30268	178.20	180.20	2.00	<0.001	<1	10	68	27	100
		180.44-182.38m- grey greywacke (medium grained) and minor biotite	30269	180.20	182.20	2.00	<0.001	<1	<5	47	<1	28
			30270	182.20	184.20	2.00	<0.001	<1	<5	48	1	26
		194.37m - sheared (90°)										
			30271	184.20	186.20	2.00	0.016	<1	<5	120	1	27
		- increase in pyrrhotite and pyrite at bottom and in shearing	30272	186.20	188.20	2.00	0.008	<1	<5	97	<1	20
			30273	188.20	190.20	2.00	<0.001	<1	<5	83	<1	30
			30274	190.20	192.20	2.00	<0.001	<1	<5	84	3	27
			30275	192.20	194.20	2.00	<0.001	<1	<5	73	3	30
			30276	194.20	196.20	2.00	<0.001	<1	<5	83	<1	28
			30277	196.20	198.20	2.00	<0.001	<1	<5	85	3	35
			30278	198.20	200.20	2.00	<0.001	<1	<5	67	1	22
			30279	200.20	202.20	2.00	<0.001	<1	<5	72	2	21
			30280	202.20	204.20	2.00	<0.001	<1	<5	83	1	27
			30281	204.20	205.69	1.49	<0.001	<1	5	96	4	25
205.69	209.21	Sheared Greywacke/Siltstone	30282	205.69	206.86	1.17	<0.001	<1	<5	76	1	16
		- medium brown and grey	30283	206.86	208.03	1.17	<0.001	<1	<5	76	1	20
		- >moderate biotite alteration	30284	208.03	209.21	1.18	<0.001	<1	<5	44	2	19
		- metased fragments in biotite matrix										
		- some fragments silicified										
		- shearing at 40°-50°										
		- minor carbonate fracture filling and small patches										
		- 2-4% pyrrhotite, 1-2% pyrite fracture filling										
209.21	210.31	Greywacke	30285	209.21	210.31	1.10	<0.001	<1	<5	94	2	20
		- medium brownish grey										
		- >minor biotite alteration and carbonate fracture filling (±quartz)										
		- minor siltstone clasts										
		- 2-4% pyrite, 1-2% pyrrhotite disseminations										
		- END OF HOLE -										

Keewatin Engineering Inc. **DRILL LOG** **Sample Data**

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29274	2.74	3.74	1.00		52	-0.48		<0.001		<1	120	140	24	91
29275	3.74	4.74	1.00		90	-0.10		0.005		<1	15	220	9	32
29276	4.74	5.74	1.00		87	-0.13		0.003		<1	15	120	2	26
29277	5.74	6.74	1.00		95	-0.05		0.002		<1	15	140	3	26
29278	6.74	7.74	1.00		97	-0.03		<0.001		<1	15	100	2	20
29279	7.74	8.74	1.00		85	-0.15		<0.001		<1	5	210	3	27
29280	8.74	9.74	1.00		95	-0.05		<0.001		<1	10	68	4	23
29281	9.74	10.74	1.00		100	0.00		0.003		<1	10	53	2	21
29282	10.74	11.74	1.00		97	-0.03		<0.001		<1	410	150	3	17
29283	11.74	12.74	1.00		97	-0.03		0.004		<1	45	79	4	24
29284	12.74	13.74	1.00		80	-0.20		<0.001		<1	15	96	4	22
29285	13.74	15.03	1.29		97	-0.04		0.011		<1	10	58	3	23
29286	15.03	15.56	0.53		94	-0.03		0.005		<1	340	190	6	18
29287	15.56	16.56	1.00		94	-0.06		0.004		<1	540	320	3	3
29288	16.56	17.27	0.71		96	-0.03		0.018		<1	110	180	3	6
29289	17.27	18.29	1.02		100	0.00		<0.001		2	10	370	2	5
29290	18.29	18.98	0.69		97	-0.02		<0.001		<1	30	220	4	16
29291	18.98	19.73	0.75		100	0.00		<0.001		<1	10	340	9	22
29292	19.73	20.73	1.00		98	-0.02		<0.001		<1	15	150	4	16
29293	20.73	21.73	1.00		96	-0.04		<0.001		<1	5	160	4	17
29294	21.73	22.72	0.99		100	0.00		<0.001		<1	10	95	4	21
29295	22.72	23.72	1.00		98	-0.02		<0.001		<1	2600	160	10	35
29296	23.72	24.72	1.00		97	-0.03		<0.001		<1	65	320	3	17
29297	24.72	25.72	1.00		95	-0.05		<0.001		<1	25	160	7	24
29298	25.72	26.72	1.00		100	0.00		<0.001		<1	25	210	3	21
29299	26.72	27.72	1.00		95	-0.05		<0.001		<1	15	180	5	24
29300	27.72	28.72	1.00		95	-0.05		<0.001		<1	15	230	4	19
29301	28.72	29.72	1.00		89	-0.11		<0.001		<1	25	220	5	21
29302	29.72	30.92	1.20		111	+0.11		<0.001		<1	25	250	6	18
29303	30.92	31.92	1.00		98	-0.02		<0.001		<1	5	220	7	29
29304	31.92	32.92	1.00		94	-0.06		<0.001		<1	30	70	9	47
29305	32.92	33.92	1.00		98	-0.02		0.004		<1	20	130	7	34
29306	33.92	34.92	1.00		96	-0.04		<0.001		<1	10	95	9	30
29307	34.92	35.92	1.00		104	+0.04		<0.001		<1	15	43	4	20
29308	35.92	36.92	1.00		96	-0.04		0.007		<1	10	85	6	29

DRILL HOLE NO. I90-5

Keewatin Engineering Inc. DRILL LOG Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29309	36.92	37.92	1.00		99	-0.01		<0.001		<1	20	87	6	36
29310	37.92	38.92	1.00		100	0.00		<0.001		<1	15	83	6	25
39211	38.92	39.92	1.00		100	0.00		0.003		<1	30	95	5	24
29312	39.92	40.92	1.00		93	-0.07		<0.001		<1	40	150	9	38
29313	40.92	41.92	1.00		100	0.00		0.005		<1	240	120	16	69
29314	41.92	42.92	1.00		98	-0.02		<0.001		<1	10	72	5	18
29315	42.92	43.92	1.00		96	-0.04		<0.001		<1	25	110	5	22
29316	43.92	44.92	1.00		100	0.00		<0.001		<1	15	190	8	30
29317	44.92	45.92	1.00		98	-0.02		<0.001		<1	10	150	8	26
29318	45.92	47.14	1.22		100	0.00		<0.001		<1	10	120	11	33
29319	47.14	48.35	1.21		98	-0.03		<0.001		<1	15	62	10	40
29320	48.35	49.35	1.00		90	-0.10		<0.001		<1	15	220	15	84
29321	49.35	49.89	0.54		100	0.00		0.019		3	670	990	11	41
29322	49.89	50.89	1.00		100	0.00		0.007		<1	45	83	13	33
29323	50.89	52.06	1.17		97	-0.04		<0.001		<1	15	38	10	31
29234	52.06	53.78	1.62		100	0.00		<0.001		<1	20	88	10	29
29325	53.78	55.14	1.36		97	-0.04		<0.001		<1	10	170	7	30
29326	55.14	56.34	1.20		96	-0.05		<0.001		<1	15	57	<1	24
29327	56.34	57.64	1.30		98	-0.02		<0.001		<1	15	71	<1	25
29328	57.64	58.91	1.27		98	-0.02		<0.001		<1	15	94	<1	22
30045	58.91	59.83	0.92		93	-0.06		<0.001		<1	<5	42	3	31
30046	59.83	61.06	1.23		98	-0.02		<0.001		<1	15	47	5	28
30047	61.06	62.53	1.47		100	0.00		<0.001		<1	35	76	15	36
30048	62.53	63.24	0.71		105	+0.08		<0.001		<1	95	71	22	31
30049	63.24	65.15	1.91		98	-0.03		0.003		<1	110	54	12	35
30050	65.15	66.15	1.00		98	-0.02		<0.001		<1	15	58	3	14
30051	66.15	67.15	1.00		94	-0.06		0.033		<1	<5	130	4	14
30052	67.15	68.52	1.37		99	-0.02		0.017		<1	10	120	16	25
30053	68.52	69.56	1.04		97	-0.03		0.436		<1	20	99	17	14
30054	69.56	70.72	1.16		98	-0.02		0.110		<1	980	140	26	21
30055	70.72	72.02	1.30		98	-0.02		0.007		<1	290	95	11	33
30056	72.02	74.02	2.00		103	+0.05		<0.001		<1	25	100	3	7
30057	74.02	75.87	1.85		95	-0.10		<0.001		<1	55	100	5	7
30058	75.87	77.14	1.27		98	-0.02		0.028		<1	900	82	10	24
30059	77.14	78.81	1.67		100	0.00		<0.001		<1	60	74	3	12

Keewatin Engineering Inc. **DRILL LOG** **Sample Data**

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
30060	78.81	80.23	1.42		99	-0.02		0.006		<1	20	73	3	24
30061	80.23	82.23	2.00		96	-0.08		<0.001		<1	15	110	3	9
30062	82.23	83.87	1.64		100	0.00		<0.001		<1	<5	80	1	19
30063	83.87	84.87	1.00		100	0.00		<0.001		<1	70	110	4	39
30064	84.87	85.87	1.00		95	-0.05		0.001		<1	15	120	10	32
30065	85.87	86.87	1.00		100	0.00		0.020		<1	270	110	14	29
30066	86.87	87.95	1.08		102	+0.02		0.004		<1	660	73	9	34
30067	87.95	88.95	1.00		98	-0.02		<0.001		<1	10	72	<1	16
30068	88.95	90.95	2.00		100	0.00		<0.001		<1	<5	42	2	23
30069	90.95	92.95	2.00		97	-0.05		<0.001		<1	<5	39	3	17
30070	92.95	94.95	2.00		95	-0.10		<0.001		<1	15	27	2	18
30071	94.95	96.95	2.00		105	+0.10		<0.001		<1	<5	26	2	20
30072	96.95	98.23	1.28		98	-0.02		<0.001		<1	<5	34	4	21
30073	98.23	99.31	1.08		96	-0.04		0.023		<1	5	54	4	14
30074	99.31	101.31	2.00		96	-0.07		<0.001		<1	<5	50	2	12
30075	101.31	103.31	2.00		96	-0.07		0.004		<1	<5	97	1	8
30076	103.31	105.16	1.85		92	-0.15		0.015		<1	720	140	5	14
30077	105.16	106.28	1.12		98	-0.02		0.012		<1	50	160	5	34
30078	106.28	107.39	1.11		99	-0.01		0.009		<1	550	680	1	29
30079	107.39	108.50	1.11		100	0.00		0.004		<1	80	140	2	21
30080	108.50	110.50	2.00		99	-0.02		0.003		<1	15	120	<1	7
30081	110.50	112.50	2.00		102	+0.04		0.006		<1	<5	140	<1	5
30082	112.50	114.50	2.00		98	-0.03		0.001		<1	<5	100	2	8
30083	114.50	116.50	2.00		97	-0.05		0.002		<1	<5	72	2	21
30084	116.50	118.50	2.00		99	-0.02		0.003		<1	<5	87	<1	11
30085	118.50	119.68	1.18		97	-0.03		<0.001		<1	<5	98	<1	14
30086	119.68	120.69	1.01		100	0.00		<0.001		<1	25	110	2	24
30087	120.69	121.71	1.02		100	0.00		0.004		<1	30	270	1	17
30088	121.71	123.71	2.00		100	0.00		0.003		<1	5	120	<1	11
30089	123.71	125.71	2.00		99	-0.02		0.004		<1	<5	60	4	16
30090	125.71	127.71	2.00		100	0.00		<0.001		<1	<5	88	<1	19
30091	127.71	129.71	2.00		98	-0.04		<0.001		<1	<5	34	<1	22
30092	129.71	131.71	2.00		97	-0.05		<0.001		<1	<5	130	<1	20
30093	131.71	133.16	1.45		98	-0.03		<0.001		<1	10	42	3	21
30094	133.16	134.66	1.50		97	-0.04		<0.001		<1	<5	150	1	36

Keewatin Engineering Inc. **DRILL LOG** **Sample Data**

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
30095	134.66	136.16	1.50		87	-0.20		<0.001		<1	<5	80	<1	32
30096	136.16	137.66	1.50		95	-0.07		<0.001		<1	5	67	2	28
30097	137.66	139.16	1.50		90	-0.15		<0.001		<1	15	83	2	26
30098	139.16	140.63	1.47		99	-0.01		0.004		<1	20	130	9	53
30099	140.63	142.45	1.82		78	-0.40		<0.001		<1	230	21	3	26
30100	142.45	144.00	1.55		56	-0.68		<0.001		<1	260	19	2	27
30245	144.00	145.32	1.32		99	-0.01		<0.001		<1	30	52	2	29
30246	145.32	146.38	1.06		99	-0.01		<0.001		<1	15	53	3	30
30247	146.38	148.06	1.68		100	0.00		<0.001		<1	<5	130	4	28
30248	148.06	149.74	1.68		95	-0.08		<0.001		<1	<5	120	2	22
30249	149.74	150.66	0.92		109	+0.08		0.003		<1	20	78	7	40
30250	150.66	152.20	1.54		97	-0.04		<0.001		<1	<5	58	<1	29
30251	152.20	153.70	1.50		96	-0.06		<0.001		<1	<5	72	2	28
30252	153.70	155.20	1.50		99	-0.01		<0.001		<1	<5	59	<1	27
30253	155.20	156.70	1.50		98	-0.03		<0.001		<1	5	46	2	28
30254	156.70	158.20	1.50		102	+0.03		<0.001		<1	<5	45	<1	28
30255	158.20	159.70	1.50		99	-0.02		<0.001		<1	<5	55	<1	32
30256	159.70	161.20	1.50		102	+0.03		<0.001		<1	<5	57	<1	27
30257	161.20	162.70	1.50		103	+0.04		<0.001		<1	<5	88	2	26
30258	162.70	164.20	1.50		93	-0.10		0.007		<1	<5	86	<1	32
30259	164.20	165.70	1.50		93	-0.10		<0.001		<1	<5	95	2	33
30260	165.70	167.20	1.50		97	-0.04		<0.001		<1	<5	100	1	32
30261	167.20	168.70	1.50		97	-0.04		<0.001		<1	<5	60	2	26
30262	168.70	170.20	1.50		103	+0.04		0.001		<1	<5	81	<1	31
30263	170.20	171.70	1.50		99	-0.02		<0.001		<1	<5	86	<1	31
30264	171.70	173.20	1.50		100	0.00		0.002		<1	<5	77	<1	33
30265	173.20	174.70	1.50		99	-0.02		0.002		<1	<5	95	<1	26
30266	174.70	176.20	1.50		100	0.00		0.003		<1	<5	54	<1	34
30267	176.20	178.20	2.00		98	-0.04		0.002		<1	<5	69	<1	29
30268	178.20	180.20	2.00		95	-0.09		<0.001		<1	10	68	27	100
30269	180.20	182.20	2.00		100	0.00		<0.001		<1	<5	47	<1	28
30270	182.20	184.20	2.00		96	-0.07		<0.001		<1	<5	48	1	26
30271	184.20	186.20	2.00		98	-0.03		0.016		<1	<5	120	1	27
30272	186.20	188.20	2.00		99	-0.02		0.008		<1	<5	97	<1	20
30273	188.20	190.20	2.00		99	-0.02		<0.001		<1	<5	83	<1	30

DRILL HOLE NO. 190-5

Keewatin Engineering Inc. DRILL LOG Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
30274	190.20	192.20	2.00		98	-0.04		<0.001		<1	<5	84	3	27
30275	192.20	194.20	2.00		96	-0.07		<0.001		<1	<5	73	3	30
30276	194.20	196.20	2.00		97	-0.05		<0.001		<1	<5	83	<1	28
30277	196.20	198.20	2.00		100	0.00		<0.001		<1	<5	85	3	35
30278	198.20	200.20	2.00		98	-0.03		<0.001		<1	<5	67	1	22
30279	200.20	202.20	2.00		100	0.00		<0.001		<1	<5	72	2	21
30280	202.20	204.20	2.00		99	-0.02		<0.001		<1	<5	83	1	27
30281	204.20	205.69	1.49		92	-0.12		<0.001		<1	5	96	4	25
30282	205.69	206.86	1.17		96	-0.05		<0.001		<1	<5	76	1	16
30283	206.86	208.03	1.17		103	+0.03		<0.001		<1	<5	76	1	20
30284	208.03	209.21	1.18		100	0.00		<0.001		<1	<5	44	2	19
30285	209.21	210.31	1.10		97	-0.03		<0.001		<1	<5	94	2	20

DRILL HOLE LOG

HOLE NO. I90-6	PAGE NO. 1 of 18

LOCATION: RPX ZONE; 50m @ 295° from D.D.H. I89-10 collar; same collar as I90-5

AZIM: 025°
DIP: -90°

ELEV: 134m (approximate)
LENGTH: 186.23m

CORE SIZE: BQ

DIP TEST

METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.
186.00		-88°	-87°

PROPERTY: ISKUT J.V.

CLAIM NO: Hemlo West 16
SECTION:

STARTED: June 24, 1990
COMPLETED: June 26, 1990
PURPOSE: Test possible western extension of the PRX Zone

CORE RECOVERY: 96.86%

LOGGED BY: R. Pegg
DATE LOGGED: June 27 and July 8, 1990
DRILLING CO: FALCON DRILLING
ASSAYED BY: TSL

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
0.00	3.05	Casing										
3.05	5.60	Lithic Greywacke - clastic texture, medium grained - moderate biotite alteration (trace chlorite) - visible quartz grains and small felsic grains - 2 - 3% pyrite and 1 - 2% pyrrhotite 4.74-4.785m - white quartz vein	29329	3.05	4.35	1.30	<0.001	<1	45	210	<1	31
			29330	4.35	5.60	1.25	<0.001	<1	220	88	<1	23
5.60	6.98	Lapilli Tuff to Tuff Breccia (polylithic) - medium greyish green matrix - white to light grey felsic fragments (to 2 X 1cm) - light grey orthoclase-quartz porphyry fragments (to 8cm across) - siliceous; >minor chlorite patches (small) and <minor biotite; 1 - 2% pyrrhotite and pyrite - gradational lower contact (?)	29331	5.60	6.98	1.38	<0.001	<1	20	80	<1	17
6.98	8.78	Lithic Greywacke and Minor Lapilli Tuff - clastic texture; light grey felsic clasts (to 1.5 X 2cm); medium grained and minor irregular chlorite patches and brown argillaceous patches - minor carbonate fracture filling; moderate biotite alteration (trace chlorite) in the greywacke - greywacke looks similar to a lapilli tuff except for the biotite content and quantity of lapilli size fragments (may indicate a mixing of sediments and volcanics and/or the lithic greywacke is a lapilli tuff which has undergone more intense alteration, i.e., chlorite to biotite)	29332	6.98	7.98	1.00	<0.001	<1	30	120	<1	30
			29333	7.98	8.78	0.80	<0.001	<1	540	170	<1	32

DRILL HOLE LOG

HOLE NO. I90-6 | PAGE 2 OF 18

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
6.98	8.78 Cont.	- 3 - 5% pyrrhotite, 1 - 3% pyrite, trace arsenopyrite (associated with quartz fracture filling @ 55°-70° at 8.14-8.19m) and trace chalcopyrite with pyrrhotite in irregular felted chlorite patches										
8.78	9.86	Tuffs and Siltstone and Greywacke - light to medium greyish green - well sheared and contorted (chaotic) - minor carbonate patches and fracture filling (29° and 68°-75°) - later stage shears/fractures offset banding (2cm displacement) - irregular, calcareous upper contact - siliceous and minor chlorite and biotite alteration and chlorite fracture filling patches - irregular lower contact (approximately 35°) - fractured - 6 - 8% pyrrhotite, 2 - 4% pyrite, trace chalcopyrite mostly fracture filling but also disseminated	29334	8.78	9.86	1.08	0.004	<1	180	200	2	23
9.86	11.55	Tuff and Minor Greywacke and Siltstone - medium to dark greyish grey and medium brownish grey - sheared and contorted; good banding but disrupted by fractures; minor carbonate (± quartz) fracture filling - minor to >moderate chlorite alteration (?) but mostly siliceous - minor biotite alteration (greywacke) - irregular, somewhat gradational lower contact (approximately 45°) - sulphide banding @ 30° - 45° - 7 - 10% pyrrhotite, 2 - 3% pyrite, trace chalcopyrite fracture filling and disseminations 9.86-10.17m - pyrrhotite concentrated (20 - 25%) in bands with chlorite (dark green) disrupted at bottom by 90° shear; banded siltstone followed by greywacke below 10.61m - pyrrhotite-pyrite-chalcopyrite patch	29335	9.86	10.17	0.31	0.003	<1	25	350	2	7
			29336	10.17	11.55	1.38	0.003	<1	25	360	4	10
11.55	16.13	Greywacke and Minor Tuff bands - clastic texture, medium grained	29337	11.55	12.14	0.59	0.003	<1	180	310	<1	22
		- medium brownish grey with light to medium green (± brown) sections (tuff)	29338	12.14	12.73	0.59	0.004	<1	20	380	<1	26

DRILL HOLE LOG

HOLE NO. I90-6 | PAGE 3 OF 18

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
11.55	16.13 Cont.	- <moderate biotite (± chlorite) alteration - >minor carbonate and quartz fracture filling and tension gashes (55°-60° and 80°-90°) - moderately sheared (some more intense sections) - some fracture filling cut by later stage fracture filling (some minor offsets) - some white to brownish grey felsic clasts and disrupted banding/patches in the greywacke - lower contact (sulphide-rich slip) @ 30°										
		- 7 - 10% pyrrhotite fracture filling and disseminations, 1 - 3% pyrite fracture filling, >trace arsenopyrite and chalcopyrite fracture filling	29339	12.73	13.16	0.43	0.003	1	15	720	2	28
		12.73-13.16m - sheared tuff and greywacke with 15 - 20% pyrrhotite, 2 - 4% pyrite, <1% chalcopyrite; chalcopyrite with other sulphides at top of unit and in massive sulphide bands (up to 1.5cm wide) which are at 45° - 50°; chlorite bands to 80°; irregular, subrounded to subangular gangue (carbonate and dark siliceous); moderate carbonate fracture filling										
		13.31-13.60m - medium to light green tuff with a low angle silica fracture filling (1.5 - 2.5cm wide) with 10% pyrrhotite	29340	13.16	13.60	0.44	0.001	<1	5	430	<1	24
			29341	13.60	14.59	0.99	0.004	<1	10	290	<1	51
		13.60-14.59m - well sheared greywacke with irregular chlorite patches; very clastic appearance; lower contact @ 60° (minor shear)	29342	14.59	15.36	0.77	0.011	<1	950	350	<1	35
		- Arsenopyrite concentrated along edges of quartz veins and in their vicinity @ 12.04 - 12.05m, 14.79 - 14.81m										
		14.91-15.23m - well sheared section (>minor carbonate and moderate biotite alteration)	29343	15.36	16.13	0.77	<0.001	<1	35	230	<1	32
16.13	17.73	Siltstone and Minor Greywacke - medium brownish grey - fine grained - > fine grained - <moderate quartz-carbonate fracture filling (30°-35° and 55° and 75°) - banding (approximately 70°) disrupted - >minor to <moderate biotite alteration - lower contact (slip) approximately 75° (contorted and sheared)	29344	16.13	16.93	0.80	0.001	<1	810	130	<1	31
			29345	16.93	17.73	0.80	<0.001	<1	1700	110	<1	33

DRILL HOLE LOG

HOLE NO. I90-6 | PAGE 4 OF 18

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
16.13	17.73 Cont.	- 3 - 5% pyrrhotite, 1 - 2% pyrite, ≤1% arsenopyrite fracture filling and disseminations; arsenopyrite concentrated @ 17.09 - 17.42m										
17.73	23.68	Greywacke and Minor Siltstone and Lesser Tuff - medium brownish grey; fine grained - < medium grained - >minor to <moderate biotite alteration; very minor chlorite alteration; >minor carbonate (± quartz) fracture filling (most 60° - 70°) - some low angle fractures - 5 - 7% pyrrhotite disseminations and fracture filling, 1 - 2% pyrite, trace arsenopyrite and chalcopyrite fracture filling and disseminations	29346	17.73	18.73	1.00	0.007	<1	130	290	<1	38
		19.45-19.60m - carbonate fracture filling with 20% pyrrhotite, 1% chalcopyrite; greyish siliceous gangue; subrounded grains within the patchy massive pyrrhotite patches; irregular upper contact (approximately 60°); lower contact (approximately 90°); greywacke above and below is more clastic (above is siliceous and below is biotite altered)	29347	18.73	19.73	1.00	0.005	<1	460	350	<1	42
			29348	19.73	20.76	1.03	<0.001	<1	15	140	<1	34
		20.71-20.76m - carbonate shear with greywacke fragments, biotite and minor chlorite - (25° - 0°)										
		21.03-21.05m - semi-massive pyrrhotite (very low angle)	29349	20.76	21.76	1.00	<0.001	<1	5	280	<1	29
		21.45-21.65m - very low angle pyrrhotite rich shear (approximately 10°)										
		22.74-22.97m - sheared greywacke and tuff (biotite altered and 10 - 15% pyrrhotite; increasing siltstone below this)	29350	21.76	22.74	0.98	<0.001	<1	10	160	<1	27
			29351	22.74	23.68	0.94	0.006	<1	5	250	<1	32
23.68	25.57	Altered Greywacke - clastic texture; medium grained, sheared - medium brownish grey - minor to moderate biotite alteration (most is siliceous) - >minor carbonate (± quartz) fracture filling and patches - patchy feldspathization/silicification (local and >minor) - 7 - 10% pyrrhotite disseminations and fracture filling, 2 - 4% pyrite fracture filling and patches	29352	23.68	24.62	0.94	<0.001	<1	<5	300	<1	34
			29353	24.62	25.57	0.95	0.001	<1	5	350	<1	32
		24.05-24.08m - quartz veinlet (pyrite and pyrrhotite coarse)										

DRILL HOLE LOG

HOLE NO. I90-6 | PAGE 5 OF 18

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
23.68	25.57 Cont.	24.96m - grey to pinkish grey silica/feldspar alteration starts 25.34-25.39m - patchy quartz and pyrrhotite and pyrite 25.39-25.57m - lithic clasts										
25.57	26.29	Siltstone - medium to dark brown, fine grained - moderate biotite alteration - moderate chlorite alteration patches and fracture filling (75°) - minor carbonate (± quartz) fracture filling (most irregular; 45° and 80°) - upper contact irregular (67° - 75°) - lower contact sheared and irregular (70° - 90°) - 5 - 8% pyrrhotite, 1 - 3% pyrite fracture filling and minor disseminations	29354	25.57	26.29	0.72	<0.001	<1	<5	250	<1	33
26.29	28.99	Sheared and Altered Greywacke and Siltstone - light to medium greyish brown - moderate to intense light brownish grey feldspar/silica alteration; very patchy and distorted; moderate biotite alteration - <moderate carbonate and quartz fracture filling (irregular) and patches - minor patchy chlorite alteration - a few narrow sections near top of unit intensely sheared - 3 - 6% pyrrhotite, 1 - 3% pyrite fracture filling, patches and disseminations; trace chalcopyrite fracture filling 26.42-26.52m - very sheared and altered section (irregular 65° - 80°) - increase in sulphides in the chloritic and greywacke sections - lower contact @ 65° - 70°	29355	26.29	27.64	1.35	0.010	<1	15	170	<1	24
			29356	27.64	28.99	1.35	<0.001	<1	5	280	<1	26
28.99	30.65	Greywacke - medium to light greyish brown - >minor patchy and segmented feldspar/silica alteration - >minor biotite alteration; irregular lower contact approximately 45° - minor carbonate (± quartz) fracture filling (50° - 55°)	29357	28.99	29.82	0.83	<0.001	<1	10	320	1	19
			29358	29.82	30.65	0.83	<0.001	<1	<5	210	1	18

DRILL HOLE LOG

HOLE NO. I90-6 | PAGE 6 OF 18

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
28.99	30.65 Cont.	- 3 - 6% pyrrhotite, 1 - 3% pyrite fracture filling and disseminations										
30.65	36.64	Lithic Greywacke and Minor Siltstone - medium greyish brown	29359	30.65	31.63	0.98	0.003	<1	10	170	<1	18
		- minor biotite alteration and chlorite patches	29360	31.63	32.53	0.90	0.003	<1	<5	130	<1	20
		- 5% white felsic grains (to 7mm); minor argillaceous clasts (to 15mm)	29361	32.53	33.43	0.90	0.202	<1	<5	220	1	17
		- moderate patchy light greyish brown silica/feldspar alteration										
		- minor carbonate (± quartz) patches and fracture filling (55°-75°)	29362	33.43	34.33	0.90	0.023	<1	<5	180	2	18
		- a few more sheared, narrow sections and brecciated										
		- 3-5% pyrrhotite fracture filling and disseminations, 1-2% pyrite and >trace chalcopyrite fracture filling (pyrrhotite concentrations as large irregular patches, chalcopyrite found in carbonate patches); irregular lower contact										
		32.83-32.89m - quartz feldspar porphyry, upper contact slip 30°; lower contact slip 40°										
		34.08-34.33m - shear zone: chlorite alteration, semi-massive sulfphide band and fracture filling (contorted); 30% pyrrhotite, 3-5% pyrite and carbonate fracture filling and minor siltstone all contorted; sheared above upper contact; upper contact @ 65°; lower contact 75°-80° (chlorite)	29363	34.33	35.52	1.19	0.003	<1	5	150	3	11
		34.33-35.52m - medium grey siltstone with 1-3% pyrrhotite fracture filling and minor chlorite patches (pyrrhotite) and carbonate fracture filling; minor brownish grey contorted alteration near bottom; contorted lower contact (near 90°); minor carbonate fracture filling	29364	35.52	36.64	1.12	0.013	<1	5	180	2	13
		35.69-35.99m - <intense patchy, contorted and fractured creamy silica/feldspar alteration										
36.64	55.21	Greywacke and Siltstone and Minor Tuff - medium brownish grey to dark brownish green	29365	36.64	37.64	1.00	0.007	<1	10	140	<1	19
		- ≤moderate biotite alteration and minor chlorite alteration	29366	37.64	38.64	1.00	0.005	<1	5	91	<1	130
		- >minor carbonate (± quartz) fracture filling (60°-80°), irregular patches and tension gashes; some chlorite concentrations; some zones of more intense fracture filling	29367	38.64	39.64	1.00	0.047	<1	<5	1100	2	46

DRILL HOLE LOG

HOLE NO. I90-6 | PAGE 7 OF 18

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
36.64	55.21 Cont.	- <moderate cream to light brownish grey, patchy and brecciated feldspar/silica alteration	29368	39.64	40.10	0.46	0.073	<1	<5	990	4	36
		- contacts between greywacke-siltstone interbeds 70°-80°	29369	40.10	41.02	0.92	0.018	<1	35	140	2	22
		- contorted chloritic (pyrrhotite and pyrite) upper contact										
		- banding @ 80° - 85° (generally)										
		- 3-5% pyrrhotite disseminations and fracture filling, 1-3% pyrite fracture filling, >trace chalcopyrite fracture filling										
		- darker colour to core below 48.46m (probably tuffaceous)										
		38.24-38.75m - >moderate biotite alteration with a 38.42-38.46m carbonate patch with siltstone/greywacke fragments; 10% carbonate (includes numerous micro-fractures)										
		38.75-38.92m - low angle pyrrhotite (20%) and 1% chalcopyrite										
		39.64-40.10m - patchy pyrrhotite fracture filling (20-25%), 1% chalcopyrite and <1% pyrite (minor biotite and carbonate)										
		41.02-41.71m - silicified siltstone/greywacke, medium to light grey; moderate quartz and minor carbonate fracture filling; 1 - 2% pyrrhotite and <1% pyrite fracture filling	29370	41.02	41.71	0.69	0.019	<1	<5	190	1	25
			29371	41.71	42.71	1.00	0.039	<1	<5	130	2	40
		Larger siltstone sections:	29372	42.71	44.17	1.46	0.010	<1	10	130	<1	38
		42.48-42.56m - (80°); > >moderate biotite above and below										
		42.77-42.85m - (50°)	29373	44.17	46.59	2.42	0.020	<1	<5	200	11	32
		43.23-43.39m - (70°)										
		44.17-44.56m - brecciated and >moderate quartz (±carbonate) fracture filling and silica/feldspar alteration										
		45.27-46.19m - as above but more carbonate fracture filling	29375	46.59	47.92	1.32	0.006	<1	<5	73	<1	83
		46.19-46.59m - fractured and brecciated silica/feldspar alteration and patchy biotite and chlorite	29376	47.92	49.42	1.50	0.030	<1	<5	19	2	33
		47.29-47.43m - (75°)	29377	49.42	50.92	1.50	0.007	<1	10	18	5	29
		47.83-47.92m - (78° - 90°)										
		48.03-48.12m - (90°)	29378	50.92	51.99	1.07	0.005	<1	10	16	4	30
		51.06-51.18m - (65°)										
		51.37-51.48m - patchy pyrrhotite (15%) and carbonate; well biotite/chlorite altered (above and below)	29379	51.99	53.06	1.07	<0.001	<1	<5	40	<1	33

DRILL HOLE LOG

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INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
36.64	55.21 Cont.	51.74-51.99m - carbonate (± quartz) zone with >minor patchy chlorite, 10% patchy pyrrhotite and intense biotite altered sections; irregular contacts (upper contact at approximately 40°) 52.92-53.05m - as above but 5-7% pyrrhotite 54.19-54.41m - as above but 3-5% pyrrhotite 55.04-55.14m - as above but 2-4% pyrrhotite	29380	53.06	54.13	1.07	0.013	<1	<5	33	2	38
			29381	54.13	55.21	1.08	0.020	<1	15	38	6	33
55.21	60.28	Siltstone - medium greenish and brownish grey; siliceous; most greenish grey	29382	55.21	56.05	0.84	0.004	<1	10	16	3	27
		- contorted minor silica/feldspar alteration; contorted different colour bands; >minor carbonate fracture filling	29383	56.05	57.81	1.76	<0.001	<1	<5	51	2	44
		- upper 0.84m is contorted and sheared (60°-70°) and more intense carbonate fracture filling and chlorite alteration (narrow tuffaceous sections)	29384	57.81	59.57	1.76	<0.001	<1	<5	35	<1	31
			29385	59.57	60.28	0.71	<0.001	<1	10	38	1	33
		- patchy chlorite alteration; irregular upper contact, lower contact (70°-85°) irregular and sheared - 3-4% pyrrhotite, 1-2% pyrite fracture filling and minor disseminations 59.57-60.14m - brownish grey colour 60.14-60.28m - greenish grey										
60.28	65.09	Tuff - medium to dark greenish grey	29386	60.28	61.89	1.61	0.003	<1	<5	24	6	53
		- moderate chlorite alteration	29387	61.89	63.49	1.60	<0.001	<1	<5	15	3	18
		- >minor carbonate (± quartz) fracture filling (most irregular, some 40°) and patches - fine mafic and felsic grains	29388	63.49	65.09	1.60	0.006	<1	<5	55	2	40
		- 1-3% pyrrhotite and 1-2% pyrite fracture filling 62.06m - low angle calcareous open fracture 64.70-65.09m - fine grained, light greenish grey ash tuff (?) 3-5% pyrrhotite fracture filling, fractured										
65.09	83.29	Tuff ± Minor Siltstone and Greywacke (?)	29389	65.09	66.59	1.50	0.007	<1	<5	66	2	45
		- medium greenish grey with narrow and patchy brownish grey sections	29390	66.59	68.09	1.50	<0.001	<1	5	19	10	27
		- disrupted banding; <moderate fractures - fine grained to >fine grained; some apparent lapilli fragments	29391	68.09	69.59	1.50	<0.001	<1	<5	57	<1	38

DRILL HOLE LOG

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INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
65.09	83.29	- minor carbonate fracture filling (irregular; 35° - 60°)										
	Cont.	- minor quartz fracture filling (50° and 80°)	29392	69.59	71.09	1.50	<0.001	<1	20	65	<1	39
		- minor chlorite and biotite alteration (mostly siliceous); irregular alteration	29393	71.09	72.59	1.50	0.004	<1	10	45	2	41
		- 2-4% pyrrhotite fracture filling and minor patches, 1% pyrite, <1% arsenopyrite										
		- arsenopyrite associated with quartz fracture filling at:	29394	72.59	74.09	1.50	0.005	<1	5	30	4	35
		65.27-65.29m, 66.95-67.06m, 67.55-67.57m,	29395	74.09	75.59	1.50	<0.001	<1	<5	21	3	33
		67.75-67.76m, 69.91-69.94m, 70.62-70.65m,	29396	75.59	77.09	1.50	0.004	<1	20	29	7	30
		71.88-71.89m, 72.02-72.03m, 74.22-74.24m,	29397	77.09	78.59	1.50	<0.001	<1	<5	18	8	24
		75.93-75.95m, 79.67-79.70m	29398	78.59	80.09	1.50	<0.001	<1	<5	110	<1	34
			29399	80.09	81.59	1.50	<0.001	<1	<5	37	4	34
			29400	81.59	83.29	1.70	<0.001	<1	5	28	5	29
83.29	85.04	Greywacke	29701	83.29	85.04	1.75	<0.001	<1	<5	63	<1	33
		- medium greenish brown; andesitic appearance										
		- moderate carbonate fracture filling										
		- >moderate biotite/chlorite alteration throughout										
		- minor chlorite fracture filling										
		- slips (58° - 60°)										
		- 1 - 3% pyrrhotite disseminations and fracture fillings, 1% pyrite fracture filling										
85.04	85.72	Siltstone	29753	85.04	85.72	0.68	<0.001	<1	<5	170	1	50
		- light brown-green-grey										
		- contorted banding										
		- >minor carbonate and quartz gashes and fracture filling										
		- gradational lower contact										
		- 1% pyrrhotite and pyrite fracture filling [one pyrrhotite-pyrite-carbonate (some open spaces @ 16°)]										
85.72	87.36	Greywacke	29754	85.72	87.36	1.64	<0.001	<1	<5	69	<1	30
		- medium greenish brown; andesitic appearance										
		- minor carbonate fracture filling and very small patches										
		- minor biotite/chlorite alteration throughout										
		- slips (50°)										
		- small lithic clasts (feldspar)										
		- minor chlorite fracture filling concentrations										
		- 1% pyrite and 1% pyrrhotite fracture filling and minor disseminations (pyrrhotite mostly in bottom of unit)										

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INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
87.36	89.21	Siltstone and Minor Greywacke - light to medium greenish-brownish grey - fine grained; well fractured - minor biotite and chlorite fracture filling - >minor carbonate patches, fracture filling and micro fractures; 2-3% pyrrhotite, 1% pyrite fracture filling, trace chalcopyrite	29755	87.36	89.21	1.85	<0.001	<1	<5	96	<1	23
89.21	112.76	Altered Greywacke (± Tuff)	29756	89.21	90.84	1.63	<0.001	<1	10	89	<1	31
		- medium brownish and greenish grey	29757	90.84	92.19	1.35	<0.001	<1	120	60	<1	41
		- moderate biotite alteration (patchy) with greenish to medium grey silicified patches	29758	92.19	93.53	1.34	<0.001	<1	70	96	<1	37
		- some sections of nearly all biotitic greywacke, >minor fractures	29759	93.53	95.11	1.58	<0.001	<1	15	85	<1	34
			29760	95.11	96.11	1.00	<0.001	<1	85	40	<1	44
		- a few narrow sections of greenish grey andesitic tuff (?); siliceous	29761	96.11	97.11	1.00	<0.001	<1	20	40	<1	37
			29762	97.11	98.61	1.50	<0.001	<1	30	33	<1	48
		- minor carbonate fracture filling; 1% pyrrhotite and 1% pyrite disseminations and fracture filling; trace arsenopyrite disseminations (@ 95.22m)	29763	98.61	100.11	1.50	<0.001	<1	10	70	<1	40
			29764	100.11	101.61	1.50	<0.001	<1	15	36	<1	47
			29765	101.61	103.11	1.50	<0.001	<1	15	91	<1	42
		- biotitic greywacke sections @ 90.84-93.53m	29766	103.11	104.61	1.50	<0.001	<1	5	54	<1	32
		- greenish tuff (?) sections @ 93.01-93.53m, 94.45-95.11m, 99.55-100.05m, 104.24-104.50m, 106.03-106.38m, 107.60-108.06m, 109.76-110.02m	29767	104.61	106.11	1.50	<0.001	<1	15	77	<1	34
			29768	106.11	107.61	1.50	<0.001	<1	70	130	<1	31
			29769	107.61	109.11	1.50	-	-	-	-	-	-
		- small chlorite patches near bottom of unit	29770	109.11	110.93	1.82	<0.001	<1	60	28	6	27
			29771	110.93	112.76	1.83	<0.001	<1	45	16	9	38
		97.30m - ground core										
112.76	139.38	Siltstone and Lesser Greywacke	29772	112.76	114.32	1.56	<0.001	2	5	100	100	87
		- light to medium greenish grey to brownish grey	29773	114.32	115.87	1.55	<0.001	<1	10	170	56	44
		- contorted banding (1cm type fault offsets)										
		- fine grained to >fine grained	29774	115.87	116.60	0.73	<0.001	<1	<5	110	16	35
		- local biotite alteration patches and chlorite fracture filling, >minor carbonate (± minor quartz) patches and fracture filling										
		- 2 - 3% pyrrhotite fracture filling, <1% pyrite, trace arsenopyrite	29775	116.60	117.72	1.12	<0.001	<1	5	170	11	26
			29776	117.72	118.84	1.12	0.003	<1	<5	140	6	30
		112.76-115.87m - siltstone and minor greywacke; light to medium greenish grey; brownish grey over last 17cm										

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
112.76	139.38 Cont.	115.87-116.60m - medium grained - >fine grained greywacke (large biotite patches) with 3 - 5% disseminated pyrrhotite and minor fracture filling; finer grained to bottom of unit; 1% pyrite										
		116.60-118.84m - brownish grey siltstone and minor greywacke	29777	118.84	119.59	0.75	<0.001	<1	20	90	7	31
		118.84-119.59m - brownish greywacke (increase in sulphides)	29778	119.59	120.43	0.84	<0.001	<1	200	310	6	23
		119.59-120.43m - brownish siltstone and lesser greywacke, increase in carbonate and quartz fracture filling and sulphides, trace chalcopyrite, 1% arsenopyrite @ 120.01 -120.05m with a quartz fracture filling (80°)										
		120.43-122.16m - light to medium grey siltstone and greywacke										
		122.16-123.40m - sheared greyish greywacke and light brownish grey to medium brownish grey siltstone includes 122.16-122.46m intense quartz (± minor carbonate) (minor patchy chlorite) fracture filling and gashes; 122.46-122.70m greywacke; 122.70-123.40m siltstone and very minor greywacke (sheared and contorted)	29779	120.43	122.16	1.73	0.002	<1	30	65	3	22
			29780	122.16	123.40	1.24	<0.001	<1	30	40	1	27
			29781	123.40	125.40	2.00	<0.001	<1	45	42	3	25
			29782	125.40	127.40	2.00	<0.001	<1	50	58	3	19
			29783	127.40	128.40	1.00	0.004	<1	75	42	2	21
			29784	128.40	129.49	1.09	<0.001	<1	55	31	2	27
		123.40-125.77m - greyish to greenish grey siltstone and greywacke	29785	129.49	130.59	1.10	<0.001	<1	5	44	3	12
			29786	130.59	132.59	2.00	<0.001	<1	15	50	2	18
		125.77-126.29m - medium greyish greywacke and lesser siltstone										
		126.29-139.38m - light to medium greenish grey siltstone (tuff?) with minor greywacke sections: 126.81-127.00m, 127.91-128.69m, 128.89-129.32m (quartz fracture filling and trace arsenopyrite), 131.18-131.49m, 132.59-133.10m grey brown greywacke (5-7% disseminated fine grained pyrrhotite), 134.75-135.15m greywacke and siltstone; 137.24-137.73 greywacke > siltstone; 138.62-139.03m	29787	132.59	134.59	2.00	<0.001	<1	<5	120	3	25
			29788	134.59	136.59	2.00	<0.001	<1	<5	72	3	25
			29789	136.59	138.38	1.79	<0.001	<1	5	96	2	25
			29790	138.38	139.38	1.00	<0.001	<1	<5	61	4	24
		- general and definite increase of pyrrhotite (± pyrite) in the greywacke sections										
139.38	147.73	Fractured Greywacke and siltstone	29791	139.38	140.38	1.00	<0.001	<1	140	62	4	20
		- light to dark brownish grey										
		- moderate carbonate and quartz fracture filling (87°-65°); locally intense	29792	140.38	141.38	1.00	<0.001	<1	20	78	110	78
			29793	141.38	142.38	1.00	<0.001	<1	10	84	16	19

DRILL HOLE LOG

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INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
139.38	147.73 Cont.	- brecciated appearance - 2 - 3% pyrrhotite, 1 - 3% pyrite fracture filling, <1% arsenopyrite, trace galena (telluride?)	29794	142.38	143.36	0.98	<0.001	<1	30	84	10	33
		143.36-143.81m - white quartz vein with moderate biotite metased fragments at bottom portion of vein	29795	143.36	143.81	0.45	<0.001	<1	410	20	9	42
		- biotite alteration approximately 20cm above vein; intense	29796	143.81	144.81	1.00	<0.001	<1	85	10	5	41
		approximately 10cm above with carbonate fracture filling @ 38°-65°; very intense biotite alteration with quartz - carbonate fracture filling (intense) to 145.54m; biotite alteration fairly intense to bottom of unit	29797	144.81	145.81	1.00	<0.001	<1	15	57	1	32
		- arsenopyrite associated with quartz fracture filling @ 139.64-139.70m, 143.35-143.36m	29798	145.81	146.81	1.00	<0.001	<1	10	80	4	46
		141.15m - galena (telluride?), very fine grained, very bright metallic lustre with quartz-carbonate fracture filling	29799	146.81	147.73	0.92	<0.001	<1	<5	33	1	31
147.73	165.41	Fractured Siltstone and Lesser Greywacke - light to medium greenish grey and some dark brownish grey	29800	147.73	149.73	2.00	<0.001	<1	20	76	2	24
		- brecciated appearance	30001	149.73	151.73	2.00	<0.001	<1	<5	35	3	22
		- siltstone looks somewhat tuffaceous locally, >minor carbonate (± quartz) gashes and fracture filling	30002	151.73	153.73	2.00	<0.001	<1	<5	29	<1	26
			30003	153.73	155.73	2.00	<0.001	<1	5	66	3	19
		- minor chlorite patches	30004	155.73	157.73	2.00	<0.001	<1	<5	73	<1	23
		- 1-2% pyrrhotite, 1-2% pyrite fracture filling, trace chalcopyrite	30005	157.73	159.73	2.00	<0.001	<1	<5	45	<1	21
			30006	159.73	161.73	2.00	<0.001	<1	10	87	<1	27
		- greywacke (biotite altered) sections @ 147.94-148.12m, 148.20-148.32m, 148.71-150.16m, 150.85-151.04m, 152.32-152.74m, 153.19-153.30m	30007	161.73	163.73	2.00	<0.001	<1	5	64	<1	31
			30008	163.73	165.41	1.68	<0.001	<1	15	74	1	27
		154.53-154.58m - ground core 154.66-154.69m - ground core										
165.41	170.14	Brecciated Siltstone and Greywacke - medium to light brownish and greenish grey	30009	165.41	166.67	1.26	<0.001	<1	5	73	<1	21
		- very siliceous (silicified) - very minor biotite alteration	30010	166.67	167.92	1.25	<0.001	<1	10	200	4	26
		- minor patchy quartz (±carbonate) and fracture filling	30011	167.92	169.17	1.25	0.013	<1	5	240	2	20
		- 2-4% pyrite, 1% pyrrhotite fracture filling and patches										

DRILL HOLE LOG

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INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
165.41	170.14	166.74-166.84m - 10-15% patchy pyrite	30012	169.17	169.56	0.39	0.012	1	15		5	
	Cont.	169.17-169.56m - 10-15% patchy pyrite in broken core (one piece of core of massive pyrite over 7cm)	30013	169.56	170.14	0.58	0.003	<1	20	160	2	14
										130		16
170.14	180.60	Fractured Siltstone and Lesser Greywacke	30014	170.14	172.69	2.55	0.012	<1	10	51	1	17
		- medium brownish and lesser greenish grey	30015	172.69	174.69	2.00	<0.001	<1	<5	56	<1	28
		- brecciated appearance	30016	174.69	176.69	2.00	<0.001	<1	<5	110	1	25
		- minor biotite alteration (increasing over bottom 65cm)	30017	176.69	178.69	2.00	0.001	<1	<5	81	<1	29
		- a lot of broken core over bottom 46cm, >minor carbonate (± quartz) gashes, patches and fracture filling	30018	178.69	180.60	1.91	<0.001	<1	20	72	<1	27
		- 2-3% pyrite, 1% pyrrhotite fracture filling										
		172.69m - (below) mislatch										
180.60	181.36	Vesicular Basalt Dyke (?)	30019	180.60	181.36	0.76	<0.001	<1	120	22	1	63
		- dull medium brown, siliceous										
		- 10-20% vesicules										
		- much broken core										
		- vesicules aligned at 50°										
181.36	184.84	Altered and Fractured Siltstone	30020	181.36	183.22	1.86	<0.001	<1	35	78	1	28
		- medium brownish grey										
		- > minor carbonate (± quartz); <intense locally	30021	183.22	184.84	1.62	<0.001	<1	10	60	2	44
		- several shears										
		- much broken core to 182.58m										
		- 1 - 2% pyrite fracture filling, trace pyrrhotite										
		183.22-183.28m - fault gouge (approximately 60°)										
		183.28-183.45m - intensely fractured and brecciated										
		183.78-183.90m - sheared @ 70°, open carbonate cavity										
184.84	186.23	Altered Metasediment	30022	184.84	186.23	1.39	<0.001	<1	10	37	45	100
		- silicified; mottled appearance										
		- creamy with patchy brownish grey										
		- gradational upper contact										
		- >minor carbonate fracture filling and patches										
		- 2-3% pyrite, 1-2% pyrrhotite fracture filling										
		- END OF HOLE -										

Keewatin Engineering Inc.

DRILL LOG

SAMPLE					CORE RECOVERY			ASSAY RESULTS							
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost	VISUAL ESTIMATES (% Ore Minerals)	oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	Sample [illegible]
29329		4.35	1.30		67	-0.43		<0.001		<1	45			
29330	3.05	5.60	1.25		96	-0.05		<0.001		<1	220	210		
29331	4.35	6.98	1.38		98	-0.03		<0.001		<1	20	88	<1	
29332	5.60	7.98	1.00		97	-0.03		<0.001		<1	30	80	<1	
29333	6.98	8.78	0.80		100	0.00		<0.001			540	120	<1	
29334	7.98				97			0.004		<1		170	<1	
29335	8.78	9.86	1.08		100	-0.03		0.003		<1	180		<1	
29336	9.86	10.17	0.31		106	0.00		0.003		<1	25	200		
29337	10.17	11.55	1.38		97	+0.08		0.003		<1	25	350	2	
29338	11.55	12.14	0.59		100	-0.02		0.004		<1	180	360	2	2
29339	12.14	12.73	0.59			0.00					20	310	4	
29340	12.73	13.16	0.43		100			0.003		1		380	<1	1(
29341	13.16	13.60	0.44		96	0.00		0.001		<1	15		<1	22
29342	13.60	14.59	0.99		97	-0.03		0.004		<1	5	720		26
29343	14.59	15.36	0.77		99	-0.03		0.011		<1	10	430	2	
29344	15.36	16.13	0.77		97	-0.01		<0.001		<1	950	290	<1	28
29345	16.13	16.93	0.80			-0.02					35	350	<1	24
29346	16.93	17.73	0.80		100			0.001		<1		230	<1	51
29347	17.73	18.73	1.00		100	0.00		<0.001		<1	810		<1	35
29348	18.73	19.73	1.00		96	0.00		0.007		<1	1700	130		32
29349	19.73	20.76	1.03		96	-0.04		0.005		<1	130	110	<1	
29350	20.76	21.76	1.00		60	-0.04		<0.001		<1	460	290	<1	31
29351	21.76	22.74	0.98			-0.40					15	350	<1	33
29352	22.74	23.68	0.94		97			<0.001		<1		140	<1	38
29353	23.68	24.62	0.94		97	-0.03		<0.001		<1	5		<1	42
29354	24.62	25.57	0.95		100	-0.03		0.006		<1	10	280		34
29355	25.57	26.29	0.72		100	0.00		<0.001		<1	5	160	<1	
29356	26.29	27.64	1.35		100	0.00		0.001		<1	<5	250	<1	29
29357	27.64	28.99	1.35		100	0.00					5	300	<1	27
29358	28.99	29.82	0.83			0.00		<0.001		<1		350	<1	32
29359	29.82	30.65	0.83		100			0.010		<1	<5		<1	34
29360	30.65	31.63	0.98		96	0.00		<0.001		<1	15	250		32
29361	31.63	32.53	0.90		99	-0.05		<0.001		<1	5	170	<1	
29362	32.53	33.43	0.90		99	-0.02		<0.001		<1	10	280	<1	33
29363	33.43	34.33	0.90		99	-0.01					<5	320	<1	21
	34.33	35.52	1.19		99	-0.01		0.003		<1		210	1	26
					100			0.003		<1	10		1	
					111	0.00		0.202		<1	<5	170		
					98	+0.10		0.023		<1	<5	130		
					100	-0.02		0.003		<1	<5	220		
					97	0.00								
						-0.04								

Keewatin Engineering Inc.

DRILL LOG

Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29364	35.52	36.64	1.12		104	+0.04		0.013		<1	5	180	2	13
29365	36.64	37.64	1.00		99	-0.01		0.007		<1	10	140	<1	19
29366	37.64	38.64	1.00		100	0.00		0.005		<1	5	91	<1	130
29367	38.64	39.64	1.00		99	-0.01		0.047		<1	<5	1100	2	46
29368	39.64	40.10	0.46		100	0.00		0.073		<1	<5	990	4	36
29369	40.10	41.02	0.92		91	-0.08		0.018		<1	35	140	2	22
29370	41.02	41.71	0.69		100	0.00		0.019		<1	<5	190	1	25
29371	41.71	42.71	1.00		96	-0.04		0.039		<1	<5	130	2	40
29372	42.71	44.17	1.46		97	-0.04		0.010		<1	10	130	<1	38
29373	44.17	46.59	2.42		98	-0.06		0.020		<1	<5	200	11	32
29375	46.59	47.92	1.32		98	-0.02		0.006		<1	<5	73	<1	83
29376	47.92	49.42	1.50		96	-0.06		0.030		<1	<5	19	2	33
29377	49.42	50.92	1.50		90	-0.15		0.007		<1	10	18	5	29
29378	50.92	51.99	1.07		98	-0.02		0.005		<1	10	16	4	30
29379	51.99	53.06	1.07		100	0.00		<0.001		<1	<5	40	<1	33
29380	53.06	54.13	1.07		100	0.00		0.013		<1	<5	33	2	38
29381	54.13	55.21	1.08		98	-0.02		0.020		<1	15	38	6	33
29382	55.21	56.05	0.84		100	0.00		0.004		<1	10	16	3	27
29383	56.05	57.81	1.76		100	0.00		<0.001		<1	<5	51	2	44
29384	57.81	59.57	1.76		97	-0.06		<0.001		<1	<5	35	<1	31
29385	59.57	60.28	0.71		100	0.00		<0.001		<1	10	38	1	33
29386	60.28	61.89	1.61		100	0.00		0.003		<1	<5	24	6	53
29387	61.89	63.49	1.60		97	-0.05		<0.001		<1	<5	15	3	18
29388	63.49	65.09	1.60		99	-0.02		0.006		<1	<5	55	2	40
29389	65.09	66.59	1.50		97	-0.04		0.007		<1	<5	66	2	45
29390	66.59	68.09	1.50		107	+0.10		<0.001		<1	5	19	10	27
29391	68.09	69.59	1.50		96	-0.06		<0.001		<1	<5	57	<1	38
29392	69.59	71.09	1.50		100	0.00		<0.001		<1	20	65	<1	39
29393	71.09	72.59	1.50		87	-0.19		0.004		<1	10	45	2	41
29394	72.59	74.09	1.50		95	-0.07		0.005		<1	5	30	4	35
29395	74.09	75.59	1.50		100	0.00		<0.001		<1	<5	21	3	33
29396	75.59	77.09	1.50		99	-0.01		0.004		<1	20	29	7	30
29397	77.09	78.59	1.50		100	0.00		<0.001		<1	<5	18	8	24
29398	78.59	80.09	1.50		98	-0.03		<0.001		<1	<5	110	<1	34
29399	80.09	81.59	1.50		100	0.00		<0.001		<1	<5	37	4	34

DRILL HOLE NO. I90-6

Keewatin Engineering Inc.					DRILL LOG										Sample Data
SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS							
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn	
29400	81.59	83.29	1.70		99	-0.02		<0.001		<1	5	28	5	29	
29701	83.29	85.04	1.75		89	-0.20		<0.001		<1	<5	63	<1	33	
29753	85.04	85.72	0.68		99	-0.01		<0.001		<1	<5	170	1	50	
29754	85.72	87.36	1.64		96	-0.07		<0.001		<1	<5	69	<1	30	
29755	87.36	89.21	1.85		97	-0.05		<0.001		<1	<5	96	<1	23	
29756	89.21	90.84	1.63		98	-0.03		<0.001		<1	10	89	<1	31	
29757	90.84	92.19	1.35		96	-0.05		<0.001		<1	120	60	<1	41	
29758	92.19	93.53	1.34		105	+0.09		<0.001		<1	70	96	<1	37	
29759	93.53	95.11	1.58		95	-0.08		<0.001		<1	15	85	<1	34	
29760	95.11	96.11	1.00		93	-0.07		<0.001		<1	85	40	<1	44	
29761	96.11	97.11	1.00		97	-0.03		<0.001		<1	20	40	<1	37	
29762	97.11	98.61	1.50		98	-0.03		<0.001		<1	30	33	<1	48	
29763	98.61	100.11	1.50		98	-0.03		<0.001		<1	10	70	<1	40	
29764	100.11	101.61	1.50		95	-0.07		<0.001		<1	15	36	<1	47	
29765	101.61	103.11	1.50		100	0.00		<0.001		<1	15	91	<1	42	
29766	103.11	104.61	1.50		99	-0.02		<0.001		<1	5	54	<1	32	
29767	104.61	106.11	1.50		100	0.00		<0.001		<1	15	77	<1	34	
29768	106.11	107.61	1.50		100	0.00		<0.001		<1	70	130	<1	31	
29769	107.61	109.11	1.50		96	-0.06		-		-	-	-	-	-	
29770	109.11	110.93	1.82		100	0.00		<0.001		<1	60	28	6	27	
29771	110.93	112.76	1.83		100	0.00		<0.001		<1	45	16	9	38	
29772	112.76	114.32	1.56		99	-0.02		<0.001		2	5	100	100	87	
29773	114.32	115.87	1.55		98	-0.03		<0.001		<1	10	170	56	44	
29774	115.87	116.60	0.73		100	0.00		<0.001		<1	<5	110	16	35	
29775	116.60	117.72	1.12		102	+0.02		<0.001		<1	5	170	11	26	
29776	117.72	118.84	1.12		98	-0.02		0.003		<1	<5	140	6	30	
29777	118.84	119.59	0.75		92	-0.06		<0.001		<1	20	90	7	31	
29778	119.59	120.43	0.84		100	0.00		<0.001		<1	200	310	6	23	
29779	120.43	122.16	1.73		97	-0.05		0.002		<1	30	65	3	22	
29780	122.16	123.40	1.24		100	0.00		<0.001		<1	30	40	1	27	
29781	123.40	125.40	2.00		98	-0.03		<0.001		<1	45	42	3	25	
29782	125.40	127.40	2.00		100	0.00		<0.001		<1	50	58	3	19	
29783	127.40	128.40	1.00		99	-0.01		0.004		<1	75	42	2	21	
29784	128.40	129.49	1.09		100	0.00		<0.001		<1	55	31	2	27	
29785	129.49	130.59	1.10		102	+0.02		<0.001		<1	5	44	3	12	

Keewatin Engineering Inc.					DRILL LOG										Sample Data
SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS							
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn	
29786	130.59	132.59	2.00		98	-0.03		<0.001		<1	15	50	2	18	
29787	132.59	134.59	2.00		97	-0.05		<0.001		<1	<5	120	3	25	
29788	134.59	136.59	2.00		101	+0.02		<0.001		<1	<5	72	3	25	
29789	136.59	138.38	1.79		100	0.00		<0.001		<1	5	96	2	25	
29790	138.38	139.38	1.00		99	-0.01		<0.001		<1	<5	61	4	24	
29791	139.38	140.38	1.00		100	0.00		<0.001		<1	140	62	4	20	
29792	140.38	141.38	1.00		99	-0.01		<0.001		<1	20	78	110	78	
29793	141.38	142.38	1.00		100	0.00		<0.001		<1	10	84	16	19	
29794	142.38	143.36	0.98		97	-0.03		<0.001		<1	30	84	10	33	
29795	143.36	143.81	0.45		100	0.00		<0.001		<1	410	20	9	42	
29796	143.81	144.81	1.00		96	-0.04		<0.001		<1	85	10	5	41	
29797	144.81	145.81	1.00		98	-0.02		<0.001		<1	15	57	1	32	
29798	145.81	146.81	1.00		83	-0.17		<0.001		<1	10	80	4	46	
29799	146.81	147.73	0.92		89	-0.10		<0.001		<1	<5	33	1	31	
29800	147.73	149.73	2.00		98	-0.04		<0.001		<1	20	76	2	24	
30001	149.73	151.73	2.00		100	0.00		<0.001		<1	<5	35	3	22	
30002	151.73	153.73	2.00		82	-0.35		<0.001		<1	<5	29	<1	26	
30003	153.73	155.73	2.00		106	+0.12		<0.001		<1	5	66	3	19	
30004	155.73	157.73	2.00		97	+0.05		<0.001		<1	<5	73	<1	23	
30005	157.73	159.73	2.00		98	-0.03		<0.001		<1	<5	45	<1	21	
30006	159.73	161.73	2.00		102	+0.04		<0.001		<1	10	87	<1	27	
30007	161.73	163.73	2.00		95	-0.09		<0.001		<1	5	64	<1	31	
30008	163.73	165.41	1.68		99	-0.02		<0.001		<1	15	74	1	27	
30009	165.41	166.67	1.26		116	+0.20		<0.001		<1	5	73	<1	21	
30010	166.67	167.92	1.25		94	-0.08		<0.001		<1	10	200	4	26	
30011	167.92	169.17	1.25		96	-0.05		0.013		<1	5	240	2	20	
30012	169.17	169.56	0.39		77	-0.09		0.012		1	15	160	5	14	
30013	169.56	170.14	0.58		98	-0.01		0.003		<1	20	130	2	16	
30014	170.14	172.69	2.55		61	-1.00		0.012		<1	10	51	1	17	
30015	172.69	174.69	2.00		92	-0.16		<0.001		<1	<5	56	<1	28	
30016	174.69	176.69	2.00		97	-0.06		<0.001		<1	<5	110	1	25	
30017	176.69	178.69	2.00		103	+0.05		0.001		<1	<5	81	<1	29	
30018	178.69	180.60	1.91		79	-0.41		<0.001		<1	20	72	<1	27	
30019	180.60	181.36	0.76		80	-0.15		<0.001		<1	120	22	1	63	
30020	181.36	183.22	1.86		77	-0.42		<0.001		<1	35	78	1	28	

Keewatin Engineering Inc.			DRILL LOG							Sample Data					
SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS							
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
30021	183.22	184.84	1.62		100	0.00		<0.001		<1	10	60	2	44
30022	184.84	186.23	1.39		106	+0.09		<0.001		<1	10	37	45	100

DRILL HOLE LOG

HOLE NO. I90-8	PAGE NO. 1 of 20

LOCATION: 58.5m @ 075° from I89-9 collar, Transition Zone

AZIM: 025°
DIP: -45°

ELEV: ~154m
LENGTH: 200.25m

CORE SIZE: B.Q.

STARTED: June 28, 1990
COMPLETED: June 30, 1990
PURPOSE: To test eastern strike extension of mineralization discovered in I89-9

CORE RECOVERY: 96.08%

DIP TEST

METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.
200.25	~025°	48.5°	40°

PROPERTY: ISKUT JOINT VENTURE

CLAIM NO: HEMLO WEST 16
SECTION:

LOGGED BY: E.R. HONSINGER
DATE LOGGED: July 7, 1990
DRILLING CO: FALCON DRILLING
ASSAYED BY: T.S.L.

INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
0.00	4.57	Overburden - Casing										
4.57	8.10	Silicified, Limonitic Siltstone Rubble	29838	4.57	5.75	1.18	<0.001	<1	15	210	6	27
		- Bluish grey to brownish orange on oxidized fracture surfaces										
		- Fine grained 2-3cm rubble, highly fractured with competent sections 1 brecciated, pitted										
		- Strong siliceous overprint, chlorite fracture filling, limonitic fracture surface coatings	29839	5.75	6.93	1.18	<0.001	<1	5	97	5	27
		- Poor recovery <30%										
		- Fine grained micaceous mineral, orange brown sheen as patchy fracture filling										
		- Chlorite/Quartz stockworked microveinlets										
		- Lower contact rubble	29840	6.93	8.10	1.17	<0.001	<1	20	78	5	36
		- Rare <1mm scattered pyrite crystals										
		- Overall <1% pyrite										
8.10	17.03	Sheared, Interbedded Silicified Siltstone and Biotite Altered Greywacke	29841	8.10	9.10	1.00	<0.001	<1	15	170	5	53
		- Brownish to bluish grey										
		- Grey medium grained siltstone interbeds fine grained	29842	9.10	10.10	1.00	<0.001	<1	15	83	4	36
		- Rock sheared, direction approximately 50° with abundant quartz/calcite veinlets cross-cutting shear/ bedding(?) plane at near perpendicular angle 55°	29843	10.10	11.10	1.00	<0.001	<1	15	140	3	40
		- Strong siliceous overprint with greywacke interbeds biotite and chlorite alteration	29844	11.10	12.10	1.00	<0.001	<1	10	70	3	37
		- Mainly siltstone with lesser grey interbeds, 65°										

DRILL HOLE LOG

HOLE NO. I90-8 | PAGE 2 OF 20

INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
8.10	17.03 Cont.	- Abundant cross-cutting quartz/calcite microveinlets near stockworked in proportion, pervasive quartz/calcite filled tension gashes	29845	12.10	13.10	1.00	<0.001	<1	10	120	4	41
			29846	13.10	14.10	1.00	<0.001	<1	5	89	5	39
			29847	14.10	15.10	1.00	<0.001	<1	15	110	5	40
		- Lower contact 70° with stockworked interbedded siltstone/greywacke	29848	15.10	16.10	1.00	<0.001	<1	10	210	<1	37
			29849	16.10	17.03	0.93	<0.001	<1	10	140	<1	33
		- Overall 1% pyrrhotite, <1 to 1% pyrite as minor blebs along quartz/calcite veinlet contacts and as disseminated pyrrhotite										
17.03	27.95	Quartz/Calcite Stockworked Interbedded Siltstone and Greywacke	29850	17.03	18.03	1.00	<0.001	<1	5	170	<1	32
		- Variable tan brown and greenish grey	29851	18.03	19.03	1.00	<0.001	<1	<5	89	2	27
		- Generally fine grained with coarse grained greywacke interbeds (biotite altered)	29852	19.03	20.03	1.00	<0.001	<1	5	60	<1	34
		- Stockworking locally very intense resulting in breccia rock	29853	20.03	21.03	1.00	<0.001	<1	15	38	2	34
		- Greywacke interbeds increasing with depth										
		- Locally gouge fracture filling, 1mm wide	29854	21.03	21.94	0.91	<0.001	<1	30	42	3	35
		- Silicified biotite and chlorite alteration										
		- Stockworking intensely increases after 21.94m	29855	21.94	23.03	1.09	<0.001	<1	<5	45	2	46
		- Lower contact gradational, interbeds generally 65°	29856	23.03	24.03	1.00	<0.001	<1	<5	73	1	40
		- Locally pyrite >> pyrrhotite concentrations of up to 5% over 5-15cm as patchy fracture filling	29857	24.03	25.03	1.00	0.007	<1	10	64	<1	58
		- Overall 1% pyrite, 1% pyrrhotite, trace sphalerite?	29858	25.03	26.03	1.00	<0.001	<1	15	77	<1	100
		17.03-17.37m sheared breccia greywacke/siltstone with 2% pyrite, <1% pyrrhotite	29859	26.03	27.03	1.00	<0.001	<1	15	130	2	27
		26.72-26.92m Quartz flooded, breccia section with 5% pyrite, <1% pyrrhotite	29860	27.03	27.95	0.92	0.006	<1	5	190	2	34
		27.00-27.13m Blocky, gougy, chlorite and biotite altered section <1% pyrite, <1% pyrrhotite										
		27.29-27.32m Quartz >> calcite veinlet 60° <1% pyrite, <1% pyrrhotite										
27.95	29.19	Sheared, Interbedded Greywacke and Siltstone	29861	27.95	29.19	1.24	0.004	<1	<5	200	1	41
		- Dark tan brown										
		- Medium grained, not siliceous										
		- Characterized by lack of quartz/calcite cross-cutting veinlets										
		- Biotite altered, chlorite fracture filling										
		- Lower contact sheared										
		- Overall <1% pyrrhotite, <1% pyrite										

DRILL HOLE LOG

HOLE NO. I90-8 | PAGE 3 OF 20

INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
29.19	42.22	Quartz Calcite Stockworked Interbedded Siltstone and Greywacke	29862	29.19	30.19	1.00	0.011	<1	<5	150	2	36
		- Variable dark brown to greenish grey										
		- Very similar to 17.03-27.95m	29863	30.19	31.19	1.00	0.003	<1	<5	99	<1	34
		- Patchy silica up to 37.44m										
		- Generally silicified after 37.44m	29864	31.19	32.19	1.00	0.003	<1	<5	150	<1	28
		- Quartz/calcite stockworking and tension gashes throughout	29865	32.19	33.19	1.00	0.007	<1	<5	120	<1	34
		- Strong ubiquitous biotite alteration, lesser locally chlorite altered sections	29866	33.19	34.19	1.00	0.006	<1	<5	200	<1	36
		- Lower contact with silicified breccia 60°										
		- Patchy sections with up to 4% pyrrhotite, 2% pyrite, associated with sheared quartz/calcite veinlets	29867	34.19	35.19	1.00	0.004	<1	<5	96	<1	57
		- Overall 1-2% pyrrhotite, <1% pyrite	29868	35.19	36.19	1.00	0.016	<1	<5	100	<1	49
		36.03-36.79m biotite altered greywacke section with few quartz/calcite veinlets, not stockworked <1% pyrrhotite, <1% pyrite	29869	36.19	37.19	1.00	0.007	<1	<5	70	<1	59
			29870	37.19	38.19	1.00	0.003	<1	<5	130	<1	37
			29871	38.19	39.19	1.00	0.004	<1	<5	250	2	35
		41.26-41.79m Arsenic 36.03-36.79m	29872	39.19	40.19	1.00	0.004	<1	<5	100	<1	38
			29873	40.19	41.19	1.00	0.005	<1	<5	100	<1	46
			29874	41.19	42.22	1.03	0.002	<1	<5	69	4	38
42.22	42.67	Silicified Micro Brecciated, Quartz Flooded Metasediment	29875	42.22	42.67	0.45	0.002	<1	<5	190	1	22
		- Light cream grey										
		- Fine grained with breccia fragments ranging from 1mm to 10mm, 90% fragments, 10% matrix										
		- Completely silicified										
		- Matrix generally composed of 1mm wide chlorite silicified veinlets, randomly cross-cutting										
		- Lower contact sheared										
		- Overall 5% disseminated pyrite, 2% less pyrrhotite										
		42.45-42.63m 2cm wide quartz vein @ 20° with 2% pyrite										
42.67	46.72	Sheared Interbedded Biotite Altered Greywacke/Chloritic, Silicified Siltstone	29558	42.67	43.68	1.01	0.005	<1	<5	140	2	51
		- Cream to dark brown to brownish grey										
		- Locally brecciated with clasts often feldspar/silica altered siltstone?										
		- 0.1 to 2.0cm wide quartz/calcite veinlets, 30-35° with local pyrrhotite, pyrite blebs and as fine grained contact fillings, locally 2% pyrite, 1% pyrrhotite	29559	43.68	44.69	1.01	0.001	<1	25	81	<1	43
		- Numerous brecciated, silicified greyish brown siltstone fragments up to 3cm, subrounded, set within biotite altered greywacke										

DRILL HOLE LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
42.67	46.72 Cont.	- Brecciated silicified fragments contain very fine grained disseminated 1% pyrrhotite - Numerous 2mm x 2cm sheared, discontinuous quartz/calcite filled tension gashes - Lower contact 60° with quartz/calcite vein - calcite fracture filling - Overall 1% pyrrhotite, mainly as very fine grained disseminations and <1% pyrite 46.52-46.72m Sheared, brecciated silicified with 3cm wide quartz vein at 46.64m, 40° with 3% pyrite, 1% pyrrhotite	29560	44.69	45.70	1.01	<0.001	<1	10	160	<1	42
			29561	45.70	46.72	1.02	<0.001	<1	270	200	<1	60
46.72	48.01	Chlorite Altered Siltstone with Lesser Biotite Altered Greywacke Interbeds - Greenish grey to tan brown - Randomly oriented cross-cutting quartz/calcite veinlets, 2-4mm - Biotite altered greywacke bands, 0.5-3.0cm, often 35°, contain 1% disseminated pyrrhotite, <1% pyrite - Quartz/calcite veinlet, contact zones generally contain locally up to 3% pyrite, <1% pyrrhotite - Abundant random orientation, quartz/calcite tension gashes - Lower contact 60° with quartz/calcite vein - Overall 1% disseminated pyrrhotite, <1% pyrite	29562	46.72	48.01	1.29	<0.001	<1	55	120	1	50
48.01	48.95	Quartz/Calcite Vein - Cream white to dirty yellow - Quartz > calcite - Vein sheared, contact irregular, runs generally parallel to core axis, 2-3cm wide - Cross-cuts 2cm wide quartz/calcite veinlets 50° and 80° - Irregular 0.3 to 1.0 angular blebs of pyrrhotite, locally 3% over 1-2cm - Vein contains occasional biotite and chlorite altered wallrock fragments - Sheared contacts, lower contact irregular - Overall 1-2% pyrrhotite, <1% pyrite 48.01-48.04m cross-cutting bluish quartz vein, 65° with 15% disseminated pyrrhotite, 1% pyrite	29563	48.01	48.95	0.94	0.006	<1	10	120	<1	22

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
48.95	55.06	Sheared Interbedded Siltstone/Greywacke	29564	48.95	49.97	1.02	0.003	<1	240	95	<1	41
		- Tan brown to bluish grey										
		- Abundant quartz/calcite microveining and tension gashes, increasing in density with depth	29565	49.97	50.99	1.02	0.001	<1	100	180	3	54
		- Siltstone, often silicified, bluish grey										
		- Greywacke generally biotite altered										
		- Lower contact 40° with sheared quartz/calcite vein	29566	50.99	52.01	1.02	0.002	<1	30	130	5	54
		- Overall 1% pyrrhotite (50% blebs, 50% disseminations) and <1% pyrite										
		48.95-49.08m sheared biotite and chlorite altered quartz/calcite flooded zone with 10% pyrrhotite, 4% pyrite	29567	52.01	53.08	1.07	<0.001	<1	100	290	10	59
		52.17-52.25m sulphide rich quartz flooded zone with 15% pyrrhotite, 10% pyrite, and yellow clay fracture filling	29568	53.08	54.05	0.97	<0.001	<1	280	160	21	63
		52.98-53.08m sheared quartz vein, ~60° with 0.5 x 1.5cm, 15% pyrrhotite blebs	29569	54.05	55.06	1.01	<0.001	<1	720	100	27	42
		54.21-54.56m Quartz calcite flooded zone with <1mm wide dark brown fine grained biotite stringers cross-cutting quartz vein 2% pyrrhotite blebs, 1% pyrite										
55.06	56.27	Sheared Quartz > > Calcite Vein	29570	55.06	56.27	1.21	<0.001	<1	90	93	9	27
		- Milky white, 10% biotite altered brown greywacke clasts										
		- Locally brecciated with angular biotite altered greywacke clasts up to 3cm										
		- Up to 2cm irregular pyrrhotite blebs locally										
		- Lower contact sheared, generally 30°										
		- Overall 5% pyrrhotite, <1% pyrite										
56.27	60.58	Locally Quartz Flooded, Biotite Altered Greywacke	29571	56.27	57.35	1.08	<0.001	<1	110	110	<1	53
		- Tan brown to light green in locally chlorite altered sections over 2cm										
		- Fine to medium grained, locally brecciated	29572	57.35	58.43	1.08	<0.001	<1	75	110	<1	53
		- Strong biotite alteration, locally chlorite altered as 3mm veinlets, 80°										
		- Minor siltstone interbeds, mainly as silicified breccia fragments up to 3cm	29573	58.43	59.51	1.08	<0.001	<1	180	160	<1	61
		- Abundant quartz > calcite veinlets generally 20° and 40°, and tension gashes random	29574	59.51	60.58	1.07	<0.001	<1	1700	130	63	56
		- Veinlets 0.1 to 1.5cm, generally 1% pyrrhotite > pyrite										

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
56.27	60.58 Cont.	- Minor arsenopyrite, very fine grained crystals, <1mm surrounding 3mm wide quartz veinlet at 60.00m, 2% over 2cm - Lower contact irregular - Overall 1% pyrrhotite, <1% pyrite, <1% arsenopyrite										
60.58	61.34	Sheared Quartz/Calcite Vein - Milky white - 10-20% biotite altered brown wall rock clasts - Abundant locally chlorite altered 2cm angular, elongate clasts - Abundant tension gashes and veinlets running perpendicular to main vein - Vein generally running parallel to core axis - Lower contact irregular, sheared - Overall 1% pyrrhotite, <1% pyrite	29575	60.58	61.34	0.76	<0.001	<1	40	81	<1	31
61.34	66.00	Sheared Biotite and Chlorite Altered Greywacke - Cream to tan brown	29576	61.34	62.34	1.00	<0.001	<1	25	130	1	44
		- Medium to fine grained - Pervasive cross-cutting ubiquitous random orientated quartz/calcite veinlets and tension gashes	29577	62.34	63.34	1.00	<0.001	<1	40	94	3	42
		- Locally feldspar/silica altered siltstone(?) fragments - Altered extent increasing with depth - Highly sheared locally brecciated, partly silicified - Pervasive biotite alteration with locally abundant chlorite mainly as <1mm wide veinlets and fracture filling - Remnant 0.5cm siltstone bands, partly silicified, 60-80°	29578	63.34	64.34	1.00	<0.001	<1	35	110	<1	39
		- Micro-stockworked quartz/calcite veinlets, random + 3mm quartz veinlets 65° and 5-15° - Patchy yellow calcite fracture filling - Locally intense stockworking resulting in breccia - Lower contact gradational with sheared, faulted biotite altered greywacke	29579	64.34	65.34	1.00	0.016	3	35	140	120	70
		- Overall <1% pyrrhotite, <1% pyrite	29580	65.34	66.00	0.66	0.012	<1	160	140	4	38
66.00	69.74	Highly Sheared Strongly Altered Greywacke/Siltstone - Mottled cream brown to grey - Fine to coarse grained (in micro breccia sections)	29581	66.00	66.84	0.84	<0.001	<1	10	62	<1	46

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
66.00	69.74 Cont.	- Pervasively brecciated, 90% biotite altered angular greywacke clasts, 0.1 to 1.0cm wide, 10% quartz/calcite matrix as densely stockworked microveinlets, mildly mylonitic, local gouge - Shear direction generally 40° - Lower contact gradational with biotite altered greywacke - Overall 2-3% pyrite, <1% pyrrhotite 68.51-68.58m light grey clay gouge with biotite altered greywacke clasts 1% pyrite, 35°	29582 29583 29584	66.84 67.68 68.51	67.68 68.51 69.48	0.84 0.83 0.97	0.001 <0.001 0.009	<1 <1 <1	<5 <5 <5	49 80 93	3 <1 <1	53 57 45
		68.58-69.48m locally 2-3cm wide sections with 60% pyrite, 1% pyrrhotite, overall for this interval 8% pyrite, 1% pyrrhotite	29585	69.48	69.74	0.26	<0.001	<1	5	23	11	34
69.74	70.62	Biotite Altered Greywacke - Tan brown - Fine grained to medium grained - Cross-cut by <1mm wide biotite and chlorite fracture filling, 60° and 15° - Pervasive biotite altered, lesser chlorite on fractures - Minor 0.5cm wide silicified, medium grey siltstone interbeds running 60°, some with 8% pyrite mainly along contacts - Numerous 1mm wide quartz/calcite veinlets 60° and 15°, 1 per cm, patchy calcite fracture filling - Lower contact 55° with sheared quartz/calcite vein. - Overall 2% pyrite, 1% pyrrhotite	29586	69.74	70.62	0.88	0.027	<1	<5	23	4	40
70.62	70.94	Sheared Quartz and Calcite Vein/Breccia - Cream white quartz calcite matrix with tan brown biotite altered fragments - Highly sheared, with elongate biotite altered 1-2cm fragments running parallel to shear direction, 55° - Minor quartz druse, vugs - Blebs of pyrite > pyrrhotite at upper contact - Lower contact 60° with biotite altered greywacke - Overall 2% pyrite, <1 to 1% pyrrhotite	29587	70.62	70.94	0.32	0.005	<1	<5	15	3	18
70.94	72.92	Biotite Altered Greywacke - Tan brown - Fine grained to medium grained - Pervasively biotite altered ± chlorite as fracture filling	29588	70.94	71.94	1.00	<0.001	<1	<5	55	2	40

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
70.94	72.92 Cont.	- Last 50cm of interval characterized by abundant, generally random quartz/calcite filled tension gashes and slight increase in pyrite content, 2% - Lower contact rubbly - Overall 1-2% pyrite, <1% pyrrhotite	29589	71.94	72.92	0.98	0.003	<1	<5	10	7	23
72.92	74.17	Blocky, Rubbly Biotite and Chlorite Altered Greywacke - Tan brown to cream white (fracture filling) - Complete rubble, 1-5cm angular fragments - Abundant calcite fracture filling - Locally, minor gouge - Lower contact irregular, blocky - Patchy blebs of pyrite as fracture filling - Overall 1-2% pyrite, <1% pyrrhotite	29590	72.92	74.17	1.25	<0.001	<1	<5	36	2	28
74.17	76.23	Moderately Silicified Siltstone, Minor Greywacke - Tan brown to dark grey - Fine grained - Grades imperceptibly from fine grained to medium grained biotite altered greywacke to fine grained dark grey moderate silicified chlorite altered siltstone - Reduction in quartz/calcite veinlets in siltstone	29591	74.17	75.20	1.03	<0.001	<1	<5	49	2	95
		- Within siltstone, scattered <1mm ubiquitous pyrite crystals, <1 to 1% and rare 0.5cm pyrite blebs <1% - Lower contact gradational with biotite ± chlorite altered greywacke - Overall 1% pyrite, <1% pyrrhotite	29592	75.20	76.23	1.03	<0.001	<1	20	18	2	31
76.23	90.71	Biotite ± Chlorite Altered Greywacke - Tan brown to dark grey - Fine grained with locally coarse grained biotite - Pervasive biotite alteration, minor chlorite as fracture filling - Minor carbonate veinlets and tension gashes - Not silicified - Lower contact sheared, brecciated with gouge breccia - Overall <1% pyrite, <1% pyrrhotite 79.30-79.53m sheared quartz vein 2cm+, <1% pyrite, <1% pyrrhotite	29876	76.23	78.04	1.81	<0.001	<1	<5	59	<1	52
			29877	78.04	79.85	1.81	<0.001	<1	<5	65	4	70
			29878	79.85	81.66	1.81	<0.001	<1	<5	55	3	52
			29879	81.66	83.47	1.81	<0.001	<1	<5	70	3	41
			29880	83.47	85.28	1.81	<0.001	<1	20	65	5	43
			29881	85.28	87.09	1.81	<0.001	<1	30	78	4	46
			29882	87.09	88.90	1.81	<0.001	<1	30	110	7	72
			29883	88.90	90.71	1.81	<0.001	<1	40	44	2	69

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
90.71	91.04	Fault Breccia and Gouge - Mottled light and dark brown - Partially carbonate/silicified cemented breccia - Biotite altered clasts - Clasts range from 0.2 to 1.0cm angular - 80% clasts, 20% carbonate > quartz matrix - 1cm wide clay gouge running 20° - Overall <1% pyrite, <1% pyrrhotite	29884	90.71	91.04	0.33	<0.001	<1	40	49	5	46
91.04	95.30	Biotite Altered Greywacke, Minor Siltstone Fragments - Dark greyish brown - Minor sheared texture - Pervasive biotite alteration, local chlorite fracture filling - Rare angular silicified siltstone fragments, angular up to 2cm - Not silicified - Cross-cut by <1mm wide calcite > > quartz veinlets 30° - Lower contact sheared ~50° - Overall <1 to 1% pyrite (mainly as patchy fracture filling), <1% pyrrhotite	29885	91.04	92.46	1.42	<0.001	<1	55	60	2	52
			29886	92.46	93.88	1.42	<0.001	<1	45	64	2	47
			29887	93.88	95.30	1.42	<0.001	<1	35	34	<1	49
95.30	96.30	Bleached Locally Silicified Sheared Greywacke/Siltstone - Variable bluish grey to tan brown - Sheared upper contact, brecciated, quartz calcite flooded - Biotite, chlorite and silica alteration, overall slightly bleached (chlorite alteration patchy) - Patchy blebs of pyrite, especially in silicified sections, 7% pyrite, <1% pyrrhotite - Lower contact 50° (shear direction) - Overall 2% pyrite, <1% pyrrhotite	29888	95.30	96.30	1.00	<0.001	<1	45	79	<1	32
96.30	99.67	Biotite Altered Greywacke with Lesser Siltstone Interbeds - Dark greyish brown - Same unit as 91.04-95.30m - Slight increase in quartz/calcite microveinlets and tension gashes - Overall <1% pyrite, <1% pyrrhotite - Lower contact rubble	29889	96.30	97.98	1.68	<0.001	<1	35	66	2	43
			29890	97.98	99.67	1.69	<0.001	<1	10	61	2	47

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
99.67	100.06	Black, Pitted, Leached Sediment (?) - Same rock as seen in I90-9 94.01-to 95.25m - Pitted vugs possibly originally contained sulphide, now completely leached "scoria" appearance - Pitted leached zones paralleling and within 4mm wide veinlets running 18° - Upper contact and lower contact sheared, rubbly - Overall <1% pyrite, <1% pyrrhotite	29891	99.67	100.06	0.39	<0.001	<1	140	24	4	53
100.06	100.98	Faulted, Blocky Biotite Altered Greywacke - Medium brown to dark grey - Generally 1-2cm rubble ~65% recovery - Biotite and silica alteration - Quartz > calcite microveinlets, <1mm wide - Lower contact rubble - Overall <1% pyrite, <1% pyrrhotite	29892	100.06	100.98	0.92	<0.001	<1	40	51	4	60
100.98	104.60	Sheared Biotite Altered Greywacke - Tan brown - Sheared fine grained silicified (siltstone?) 0.5cm banding ~70°	29893	100.98	102.08	1.10	<0.001	<1	35	56	4	82
		- Strong biotite and chlorite altered - Moderately friable - Cross-cut by numerous calcite > quartz veinlets 70° and random tension gashes	29894	102.08	103.34	1.26	<0.001	<1	20	25	5	46
		- Abundant calcite fracture filling - Lower contact blocky - Overall 1% pyrite, <1% pyrrhotite as patchy fracture filling blebs 102.92-102.94m Quartz veinlet 55° <1% pyrite, <1% pyrrhotite, trace chalcopyrite(?)	29895	103.34	104.60	1.26	<0.001	<1	35	48	<1	49
104.60	105.81	Blocky, Biotite Altered Greywacke - Tan brown - 60% rubble 2-5cm - Strong biotite alteration - Abundant quartz/calcite veinlets, random with local zones stockworked - Lower contact rubble - Overall <1% pyrite, <1% pyrrhotite	29896	104.60	105.81	1.21	<0.001	<1	15	79	3	58

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
105.81	110.35	Biotite Altered Greywacke - Tan brown to brownish grey - Medium grained to coarse grained - Biotite altered, chlorite fracture filling - Minor remnant banding ~65° - Quartz/calcite veinlets and tension gashes throughout - Colour becoming lighter with depth - Lower contact gradational, at point of quartz/calcite stockworking - Overall <1% pyrite, <1% pyrrhotite	29897	105.81	107.32	1.51	<0.001	<1	15	26	2	26
			29898	107.32	108.83	1.51	<0.001	<1	15	30	2	56
			29899	108.83	110.35	1.52	<0.001	<1	10	74	4	52
110.35	111.98	Locally Silicified, Brecciated, Quartz/Calcite Stockworked Interbedded Siltstone/Greywacke - Variable tan brown to cream grey - Generally fine grained - Locally brecciated, quartz/calcite stockworked - Bleached minor gouge at 110.35-110.70m in silicified breccia zone - From 110.70 to 111.98m rocks silicified, quartz >> calcite stockworked - Lower contact sheared variable, 35° and 75° shears - Overall <1% pyrite, <1% pyrrhotite	29900	110.35	111.98	1.63	<0.001	<1	20	44	6	160
111.98	113.73	Fine Grained Biotite Altered Greywacke - Dark brown - Very fine grained - Competent, relatively little shearing - Not silicified - Occasional cross-cutting quartz/calcite veinlets, 1mm running 10-35° - Scattered 1mm pyrite cubes - Overall <1 to 1% pyrite, <1% pyrrhotite	29901	111.98	113.73	1.75	<0.001	<1	<5	7	3	110
113.73	114.03	Quartz Flooded, Mineralized Biotite Altered Greywacke - Dark grey to dark brown - Sheared, fine grained - Biotite and silicified alteration - Sheared ptygmatic quartz veinlets running sub parallel to core (~5°)	29902	113.73	114.03	0.30	<0.001	<1	<5	210	2	92

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
113.73	114.03 Cont.	- Pyrite and pyrrhotite mineralization associated with quartz veinlet - Lower contact blocky - Overall 15% pyrite, 1-2% pyrrhotite										
114.03	116.46	Biotite Altered Greywacke - Dark brown - Fine grained - Pervasive biotite, and lesser chlorite altered fracture filling	29903	114.03	115.24	1.21	<0.001	<1	<5	92	<1	55
		- Abundant microveinlets <0.1mm with lenticular 1mm pyrite and calcite blebs along contact - Shear direction and long axis of above microblebs ~65° - Lower contact gougy, blocky - Overall 2% pyrite, <1% pyrrhotite as <1mm blebs	29904	115.24	116.46	1.22	<0.001	<1	<5	70	<1	63
116.46	116.90	Quartz Flooded Faulted Greywacke and Gouge	29905	116.46	118.46	2.00	<0.001	<1	<5	70	<1	53
		- Light cream grey with dark brown fragments	29906	118.46	120.46	2.00	<0.001	<1	<5	62	<1	57
		- Generally rubble and gouge	29907	120.46	122.46	2.00	<0.001	<1	<5	93	2	69
		- Heavily bleached, silicified	29908	122.46	124.46	2.00	<0.001	<1	<5	110	<1	56
		- Locally brecciated	29909	124.46	126.46	2.00	<0.001	<1	<5	81	<1	65
		- Lower contact rubble	29910	126.46	128.46	2.00	<0.001	<1	<5	82	<1	50
		- Overall 1% pyrite, <1% pyrrhotite	29911	128.46	130.46	2.00	<0.001	<1	15	72	6	53
116.90	137.49	Biotite Altered Greywacke	29912	130.46	132.46	2.00	<0.001	<1	20	75	<1	60
		- Same unit as 114.03-116.46m - Dark brown	29913	132.46	134.46	2.00	<0.001	<1	10	77	<1	45
		- Fine grained - Ubiquitous 1mm pyrite and lesser calcite elongate blebs along microveinlets	29914	134.46	136.25	1.79	<0.001	<1	<5	160	<1	41
		- Occasional cross-cut (1 per 0.5m) by 1-2cm wide quartz veins, 40° with 5% pyrite and 5% pyrrhotite mineralized contacts - Minor chlorite altered sections - Overall 2% pyrite, <1% to 2% pyrrhotite	29915	136.25	137.49	1.24	<0.001	<1	<5	150	<1	45
		117.76-117.96m Quartz calcite flooded with 2% pyrite, 1% pyrrhotite 123.11-123.28m Chlorite and silica altered quartz flooded zone, <1% pyrite, <1% pyrrhotite 132.66-133.01m faulted, gougy 132.75-132.85m section with 3% pyrite, 1% pyrrhotite										

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
116.90	137.49 Cont.	- Pyrite increasing to 3% by end of interval in form of 1mm elongate blebs and 1mm wide veinlet aggregates										
137.49	139.30	Variably Chlorite and Biotite Altered Greywacke	29916	137.49	138.39	0.90	<0.001	<1	5	130	<1	40
		- Colour varies from greenish grey to medium brown, fine grained to medium grained										
		- More highly sheared than above unit										
		- Silicified + biotite + chlorite altered (locally silicified and chloritic)										
		- Few cross-cutting microveinlets										
		- Quartz/calcite filled tension gashes										
		- Patchy pyrite and pyrrhotite along fracture fillings										
		- Overall 3% pyrite, 1% pyrrhotite	29917	138.39	139.30	0.91	<0.001	<1	<5	120	<1	44
139.30	153.44	Biotite Altered Greywacke	29918	139.30	140.30	1.00	<0.001	<1	20	120	6	40
		- Dark to medium brown										
		- Fine grained with local medium grained sections										
		- Biotite altered with locally silicified chlorite altered bands, ~1.0cm wide, 65°	29919	140.30	141.30	1.00	<0.001	<1	15	150	7	41
		- Occasional segmented silicified bands	29920	141.30	142.30	1.00	<0.001	<1	15	130	3	38
		- Strong locally silicified, shearing with up to 25% pyrite over 10cm, fine grained	29921	142.30	143.30	1.00	<0.001	<1	20	140	4	38
		- Lower contact gradational										
		- Overall 3-5% pyrite, 1% pyrrhotite	29922	143.30	144.30	1.00	<0.001	<1	15	110	3	34
		139.30-139.52m sheared with abundant quartz/calcite veinlets and tension gashes 10% pyrite, 1% pyrrhotite	29923	144.30	145.39	1.09	<0.001	<1	10	88	7	32
			29924	145.39	146.65	1.26	<0.001	<1	20	130	8	33
		139.90-140.32m Quartz stockworked area locally brecciated, silicified with 5% pyrite, <1% pyrrhotite	29925	146.65	147.41	0.76	<0.001	<1	15	97	7	34
			29926	147.41	148.41	1.00	0.014	<1	20	120	7	32
		145.39-146.65m Quartz, calcite flooded zone with fine grained pyrite patches up to 25% over 10cm. Overall for this interval 8% pyrite, 1% pyrrhotite	29927	148.41	149.69	1.28	<0.001	<1	20	89	7	33
		149.16-149.69m bleached, brecciated and gouged fault zone with 1% disseminate pyrite	29928	149.69	151.44	1.75	<0.001	<1	15	79	7	41
		150.29-150.33m 4cm wide quartz vein, no visible sulphides 60°	29929	151.44	152.44	1.00	<0.001	<1	15	79	4	27
		152.10-152.30m Quartz/calcite flooded zone, stockworked shear direction 50-80°	29930	152.44	153.44	1.00	<0.001	<1	15	74	4	41

DRILL HOLE LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
153.44	159.84	Silicified Greywacke - Light bluish grey - Medium grained	29931	153.44	154.44	1.00	<0.001	<1	5	86	3	24
		- Silica altered, quartz~calcite veinlets random and tension gashes	29932	154.44	156.44	2.00	<0.001	<1	5	13	5	15
		- Micro-fractured, random, dark grey to black, chlorite? - Patchy pyrite fracture surface coatings - Veinlets often running 25°	29933	156.44	158.44	2.00	<0.001	<1	20	94	4	25
		- Overall 1-2% pyrite, <1% pyrrhotite 158.93-159.44m Calcite flooded, lesser quartz with 2-3% pyrite, <1% pyrrhotite 159.64-158.84m Quartz flooded, completely silicified section with <1% pyrite, <1% pyrrhotite	29934	158.44	159.84	1.40	<0.001	<1	15	67	5	27
159.84	177.84	Biotite Altered Greywacke, Minor Siltstone - Tan brown to greyish brown - Fine grained, locally sheared, quartz/calcite flooded - Pervasive biotite alteration locally chloritic - Very rare 1cm silicified siltstone(?) interbeds - Cross-cut by abundant 0.1 to 1.0cm wide discontinuous contorted quartz/calcite veinlets, often running 80° - Numerous tension gashes quartz/calcite filled - Locally silicified - Local minor pyrite blebs associated with silicified, quartz flooded sections - Overall <1% pyrite, <1% pyrrhotite, <1% chalcopyrite	29935	159.84	161.84	2.00	<0.001	<1	5	59	9	39
		162.17-162.31m silicified quartz stockworked section with 1% pyrrhotite, <1% pyrite, <1% chalcopyrite	29936	161.84	163.84	2.00	<0.001	<1	10	74	7	37
		168.34-168.47m Quartz/calcite stockworking with chlorite altered 3mm halo at veinlets contacts; <1% pyrite, <1% pyrrhotite	29937 29938 29939	163.84 165.84 167.84	165.84 167.84 169.84	2.00 2.00 2.00	<0.001 <0.001 <0.001	<1 <1 <1	50 45 40	80 74 130	6 6 8	36 34 35
		169.15-170.03m sheared, quartz/calcite flooded, silicified chlorite and biotite altered greywacke with 1% pyrrhotite, <1% pyrite	29940	169.84	171.84	2.00	<0.001	<1	25	37	9	39
		172.33-172.45m Quartz flooded zone with 1% pyrite, <1% pyrrhotite, <1% chalcopyrite	29941	171.84	173.84	2.00	<0.001	<1	15	48	8	39
		176.48-176.60m Quartz/calcite stockworked, micro-breccia chlorite fracture filling, biotite altered greywacke with <1% pyrite, <1% pyrrhotite	29942 29943	173.84 175.84	175.84 177.84	2.00 2.00	<0.001 <0.001	<1 <1	20 30	25 20	7 7	35 34

INTERVAL FROM	INTERVAL TO	DESCRIPTION	SAMPLE NO.	INTERVAL FROM	INTERVAL TO	LENGTH	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
159.84	177.84 Cont.	176.89-177.69m 1cm wide sheared quartz vein running 25° with <1% pyrite, <1% pyrrhotite - Lower contact gradational, based on increase in silicified cream coloured siltstone banding										
177.84	200.25	Banded Biotite Altered Greywacke and Silicified Siltstone - Tan brown greywacke and cream grey siltstone - ~80% greywacke, 20% siltstone - Greywacke biotite altered, siltstone silicified - Siltstone interbeds range from 0.2 to 1.0cm, often segmented with 0.3 to 0.5cm offset - Siltstone banding generally 65-70°, consistent - Occasional quartz/calcite veinlets, 0.3cm cross-cutting banding, 35-40° 1-2 per 10cm - Quartz/calcite veinlets also near perpendicular to core axis and as random tension gash filling - No major faulting or veining - Overall 1% pyrite, <1% pyrrhotite										
		179.00-179.26m Quartz vein stockworked, <1% pyrite, <1% pyrrhotite	29955	177.84	179.84	2.00	<0.001	<1	15	86	70	8
		180.96-181.03m Quartz vein 35°, with <1% pyrite	29944	179.84	181.84	2.00	<0.001	<1	15	60	8	38
		188.80-189.03m Sheared, 0.3 to 1.0cm wide quartz vein, near parallel to core with chlorite altered contacts 1% pyrite, <1% pyrrhotite	29945	181.84	183.84	2.00	0.022	<1	25	86	7	39
			29946	183.84	185.84	2.00	<0.001	<1	<5	42	2	48
			29947	185.84	187.84	2.00	<0.001	<1	<5	58	1	53
			29948	187.84	189.84	2.00	<0.001	<1	<5	89	3	68
		193.97-194.54m Faulted, locally gougy, chlorite quartz flooded section with 1% pyrite, <1% pyrrhotite	29949	189.84	191.84	2.00	<0.001	<1	<5	54	22	61
			29950	191.84	193.84	2.00	<0.001	<1	<5	67	3	58
		196.80-196.87m Biotite altered greywacke with 6% pyrite, very fine grained, disseminated and <1% pyrrhotite	29951	193.84	195.84	2.00	0.004	<1	<5	54	2	63
			29952	195.84	197.84	2.00	<0.001	<1	<5	60	2	52
		198.46-200.25m Reduction in quartz calcite veinlets. Locally patchy green chlorite altered greywacke fragments up to 4cm wide, gradational contacts with biotite altered greywacke	29953	197.84	199.05	1.21	0.004	<1	<5	31	63	54
			29954	199.05	200.25	1.20	<0.001	<1	<5	37	38	47
		END OF HOLE 200.25m 657'										

Keewatin Engineering Inc.					DRILL LOG										Sample Data
SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS							
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn	
29838	4.57	5.75	1.18		34	-0.78		<0.001		<1	15	210	6	27	
29839	5.75	6.93	1.18		39	-0.73		<0.001		<1	5	97	5	27	
29840	6.93	8.10	1.17		17	-0.97		<0.001		<1	20	78	5	36	
29841	8.10	9.10	1.00		94	-0.06		<0.001		<1	15	170	5	53	
29842	9.10	10.10	1.00		97	-0.03		<0.001		<1	15	83	4	36	
29843	10.10	11.10	1.00		94	-0.06		<0.001		<1	15	140	3	40	
29844	11.10	12.10	1.00		100	0.00		<0.001		<1	10	70	3	37	
29845	12.10	13.10	1.00		99	-0.01		<0.001		<1	10	120	4	41	
29846	13.10	14.10	1.00		95	-0.05		<0.001		<1	5	89	5	39	
29847	14.10	15.10	1.00		100	0.00		<0.001		<1	15	110	5	40	
29848	15.10	16.10	1.00		98	-0.02		<0.001		<1	10	210	<1	37	
29849	16.10	17.03	0.93		90	-0.09		<0.001		<1	10	140	<1	33	
29850	17.03	18.03	1.00		100	0.00		<0.001		<1	5	170	<1	32	
29851	18.03	19.03	1.00		100	0.00		<0.001		<1	<5	89	2	27	
29852	19.03	20.03	1.00		100	0.00		<0.001		<1	5	60	<1	34	
29853	20.03	21.03	1.00		92	-0.08		<0.001		<1	15	38	2	34	
29854	21.03	21.94	0.91		100	0.00		<0.001		<1	30	42	3	35	
29855	21.94	23.03	1.09		94	-0.06		<0.001		<1	<5	45	2	46	
29856	23.03	24.03	1.00		98	-0.02		<0.001		<1	<5	73	1	40	
29857	24.03	25.03	1.00		96	-0.04		0.007		<1	10	64	<1	58	
29858	25.03	26.03	1.00		98	-0.02		<0.001		<1	15	77	<1	100	
29859	26.03	27.03	1.00		88	-0.12		<0.001		<1	15	130	2	27	
29860	27.03	27.95	0.92		76	-0.22		0.006		<1	5	190	2	34	
29861	27.95	29.19	1.24		97	-0.04		0.004		<1	<5	200	1	41	
29862	29.19	30.19	1.00		95	-0.05		0.011		<1	<5	150	2	36	
29863	30.19	31.19	1.00		98	-0.02		0.003		<1	<5	99	<1	34	
29864	31.19	32.19	1.00		100	0.00		0.003		<1	<5	150	<1	28	
29865	32.19	33.19	1.00		96	-0.04		0.007		<1	<5	120	<1	34	
29866	33.19	34.19	1.00		102	+0.02		0.006		<1	<5	200	<1	36	
29867	34.19	35.19	1.00		100	0.00		0.004		<1	<5	96	<1	57	
29868	35.19	36.19	1.00		98	-0.02		0.016		<1	<5	100	<1	49	
29869	36.19	37.19	1.00		100	0.00		0.007		<1	<5	70	<1	59	
29870	37.19	38.19	1.00		99	-0.01		0.003		<1	<5	130	<1	37	
29871	38.19	39.19	1.00		100	0.00		0.004		<1	<5	250	2	35	
29872	39.19	40.19	1.00		97	-0.03		0.004		<1	<5	100	<1	38	

Keewatin Engineering Inc.					DRILL LOG									Sample Data
SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29873	40.19	41.19	1.00		94	-0.06		0.005		<1	<5	100	<1	46
29874	41.19	42.22	1.03		97	-0.03		0.002		<1	<5	69	4	38
29875	42.22	42.67	0.45		100	0.00		0.002		<1	<5	190	1	22
29558	42.67	43.68	1.01		101	+0.01		0.005		<1	<5	140	2	51
29559	43.68	44.69	1.01		98	-0.02		0.001		<1	25	81	<1	43
29560	44.69	45.70	1.01		90	-0.10		<0.001		<1	10	160	<1	42
29561	45.70	46.72	1.02		95	-0.05		<0.001		<1	270	200	<1	60
29562	46.72	48.01	1.29		97	-0.04		<0.001		<1	55	120	1	50
29563	48.01	48.95	0.94		97	-0.03		0.006		<1	10	120	<1	
29564	48.95	49.97	1.02		100	0.00		0.003		<1	240	95	<1	22
29565	49.97	50.99	1.02		100	0.00		0.001		<1	100	180	3	41
29566	50.99	52.01	1.02		97	-0.03		0.002		<1	30	130	5	54
29567	52.01	53.08	1.07		97	-0.03		<0.001		<1	100	290	10	54
29568	53.08	54.05	0.97		96	-0.04		<0.001		<1	280	160	21	59
29569	54.05	55.06	1.01		97	-0.03		<0.001		<1	720	100	27	63
29570	55.06	56.27	1.21		97	-0.04		<0.001		<1	90	93	9	42
29571	56.27	57.35	1.08		95	-0.06		<0.001		<1	110	110	<1	27
29572	57.35	58.43	1.08		98	-0.02		<0.001		<1	75	110	<1	53
29573	58.43	59.51	1.08		99	-0.01		<0.001		<1	180	160	<1	53
29574	59.51	60.58	1.07		102	+0.02		<0.001		<1	1700	130	63	61
29575	60.58	61.34	0.76		95	-0.04		<0.001		<1	40	81	<1	56
29576	61.34	62.34	1.00		98	-0.02		<0.001		<1	25	130	1	31
29577	62.34	63.34	1.00		96	-0.04		<0.001		<1	40	94	3	44
29578	63.34	64.34	1.00		100	0.00		<0.001		<1	35	110	<1	42
29579	64.34	65.34	1.00		100	0.00		0.016		3	35	140	120	39
29580	65.34	66.00	0.66		88	-0.08		0.012		<1	160	140	4	70
29581	66.00	66.84	0.84		89	-0.09		<0.001		<1	10	62	<1	38
29582	66.84	67.68	0.84		95	-0.04		0.001		<1	<5	49	3	46
29583	67.68	68.51	0.83		99	-0.01		<0.001		<1	<5	80	<1	53
29584	68.51	69.48	0.97		88	-0.12		0.009		<1	<5	93	<1	57
29585	69.48	69.74	0.26		88	-0.03		<0.001		<1	5	23	11	45
29586	69.74	70.62	0.88		98	-0.02		0.027		<1	<5	23	4	34
29587	70.62	70.94	0.32		100	0.00		0.005		<1	<5	15	3	40
29588	70.94	71.94	1.00		100	0.00		<0.001		<1	<5	55	2	18
29589	71.94	72.92	0.98		100	0.00		0.003		<1	<5	10	7	40
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Keewatin Engineering Inc.					DRILL LOG										Sample Data
SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS							
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn	
29590	72.92	74.17	1.25		83	-0.21		<0.001		<1	<5	36	2	28	
29591	74.17	75.20	1.03		90	-0.10		<0.001		<1	<5	49	2	95	
29592	75.20	76.23	1.03		96	-0.04		<0.001		<1	20	18	2	31	
29876	76.23	78.04	1.81		100	0.00		<0.001		<1	<5	59	<1	52	
29877	78.04	79.85	1.81		100	0.00		<0.001		<1	<5	65	4	70	
29878	79.85	81.66	1.81		82	-0.32		<0.001		<1	<5	55	3	52	
29879	81.66	83.47	1.81		96	-0.07		<0.001		<1	<5	70	3	41	
29880	83.47	85.28	1.81		103	+0.06		<0.001		<1	20	65	5	43	
29881	85.28	87.09	1.81		98	-0.04		<0.001		<1	30	78	4	46	
29882	87.09	88.90	1.81		94	-0.10		<0.001		<1	30	110	7	72	
29883	88.90	90.71	1.81		94	-0.10		<0.001		<1	40	44	2	69	
29884	90.71	91.04	0.33		85	-0.05		<0.001		<1	40	49	5	46	
29885	91.04	92.46	1.42		100	0.00		<0.001		<1	55	60	2	52	
29886	92.46	93.88	1.42		84	-0.23		<0.001		<1	45	64	2	47	
29887	93.88	95.30	1.42		94	-0.09		<0.001		<1	35	34	<1	49	
29888	95.30	96.30	1.00		92	-0.08		<0.001		<1	45	79	<1		
29889	96.30	97.98	1.68		97	-0.04		<0.001		<1	35	66	2	32	
29890	97.98	99.67	1.69		81	-0.34		<0.001		<1	10	61	2	43	
29891	99.67	100.06	0.39		100	0.00		<0.001		<1	140	24	4	47	
29892	100.06	100.98	0.92		80	-0.18		<0.001		<1	40	51	4	53	
29893	100.98	102.08	1.10		96	-0.04		<0.001		<1	35	56	4	60	
29894	102.08	103.34	1.26		100	0.00		<0.001		<1	20	25	5	82	
29895	103.34	104.60	1.26		98	-0.03		<0.001		<1	35	48	<1	46	
29896	104.60	105.81	1.21		96	-0.05		<0.001		<1	15	79	3	49	
29897	105.81	107.32	1.51		98	-0.03		<0.001		<1	15	26	2	58	
29898	107.32	108.83	1.51		100	0.00		<0.001		<1	15	30	2	26	
29899	108.83	110.35	1.52		99	-0.02		<0.001		<1	10	74	4	56	
29900	110.35	111.98	1.63		98	-0.03		<0.001		<1	20	44	6	52	
29901	111.98	113.73	1.75		94	-0.10		<0.001		<1	<5	7	3	160	
29902	113.73	114.03	0.30		93	-0.02		<0.001		<1	<5	210	2	110	
29903	114.03	115.24	1.21		88	-0.14		<0.001		<1	<5	92	<1	92	
29904	115.24	116.46	1.22		94	-0.07		<0.001		<1	<5	70	<1	55	
29905	116.46	118.46	2.00		100	0.00		<0.001		<1	<5	70	<1	63	
29906	118.46	120.46	2.00		102	+0.03		<0.001		<1	<5	62	<1	53	
29907	120.46	122.46	2.00		100	0.00		<0.001		<1	<5	93	2	57	
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Keewatin Engineering Inc.					DRILL LOG									Sample Data
SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29908	122.46	124.46	2.00		98	-0.03		<0.001		<1	<5	110	<1	56
29909	124.46	126.46	2.00		100	0.00		<0.001		<1	<5	81	<1	65
29910	126.46	128.46	2.00		100	0.00		<0.001		<1	<5	82	<1	50
29911	128.46	130.46	2.00		98	-0.04		<0.001		<1	15	72	6	53
29912	130.46	132.46	2.00		100	0.00		<0.001		<1	20	75	<1	60
29913	132.46	134.46	2.00		89	-0.22		<0.001		<1	10	77	<1	45
29914	134.46	136.25	1.79		100	0.00		<0.001		<1	<5	160	<1	41
29915	136.25	137.49	1.24		100	0.00		<0.001		<1	<5	150	<1	45
29916	137.49	138.39	0.90		105	+0.04		<0.001		<1	5	130	<1	40
29917	138.39	139.30	0.91		103	+0.03		<0.001		<1	<5	120	<1	44
29918	139.30	140.30	1.00		100	0.00		<0.001		<1	20	120	6	40
29919	140.30	141.30	1.00		100	0.00		<0.001		<1	15	150	7	41
29920	141.30	142.30	1.00		98	-0.02		<0.001		<1	15	130	3	38
29921	142.30	143.30	1.00		100	0.00		<0.001		<1	20	140	4	38
29922	143.30	144.30	1.00		100	0.00		<0.001		<1	15	110	3	34
29923	144.30	145.39	1.09		104	+0.04		<0.001		<1	10	88	7	32
29924	145.39	146.65	1.26		104	+0.05		<0.001		<1	20	130	8	33
29925	146.65	147.41	0.76		100	0.00		<0.001		<1	15	97	7	34
29926	147.41	148.41	1.00		91	-0.09		0.014		<1	20	120	7	32
29927	148.41	149.69	1.28		97	-0.04		<0.001		<1	20	89	7	33
29928	149.69	151.44	1.75		104	+0.07		<0.001		<1	15	79	7	41
29929	151.44	152.44	1.00		96	-0.04		<0.001		<1	15	79	4	27
29930	152.44	153.44	1.00		100	0.00		<0.001		<1	15	74	4	41
29931	153.44	154.44	1.00		100	0.00		<0.001		<1	5	86	3	24
29932	154.44	156.44	2.00		98	-0.15		<0.001		<1	5	13	5	15
29933	156.44	158.44	2.00		111	+0.22		<0.001		<1	20	94	4	25
29934	158.44	159.84	1.40		100	0.00		<0.001		<1	15	67	5	27
29935	159.84	161.84	2.00		103	+0.04		<0.001		<1	5	59	9	39
29936	161.84	163.84	2.00		95	-0.10		<0.001		<1	10	74	7	37
29937	163.84	165.84	2.00		99	-0.02		<0.001		<1	50	80	6	36
29938	165.84	167.84	2.00		99	-0.01		<0.001		<1	45	74	6	34
29939	167.84	169.84	2.00		99	-0.02		<0.001		<1	40	130	8	35
29940	169.84	171.84	2.00		100	0.00		<0.001		<1	25	37	9	39
29941	171.84	173.84	2.00		102	+0.03		<0.001		<1	15	48	8	39
29942	173.84	175.84	2.00		102	+0.04		<0.001		<1	20	25	7	35

Keewatin Engineering Inc. | **DRILL LOG** | **Sample Data**

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29943	175.84	177.84	2.00		95	-0.10		<0.001		<1	30	20	7	34
29955	177.84	179.84	2.00		100	0.00		<0.001		<1	15	86	70	8
29944	179.84	181.84	2.00		100	0.00		<0.001		<1	15	60	8	38
29945	181.84	183.84	2.00		97	-0.05		0.022		<1	25	86	7	39
29946	183.84	185.84	2.00		97	-0.05		<0.001		<1	<5	42	2	48
29947	185.84	187.84	2.00		99	-0.01		<0.001		<1	<5	58	1	53
29948	187.84	189.84	2.00		99	-0.02		<0.001		<1	<5	89	3	68
29949	189.84	191.84	2.00		100	0.00		<0.001		<1	<5	54	22	61
29950	191.84	193.84	2.00		100	0.00		<0.001		<1	<5	67	3	58
29951	193.84	195.84	2.00		98	-0.04		0.004		<1	<5	54	2	63
29952	195.84	197.84	2.00		102	+0.03		<0.001		<1	<5	60	2	52
29953	197.84	199.05	1.21		98	-0.03		0.004		<1	<5	31	63	54
29954	199.05	200.25	1.20		96	-0.05		<0.001		<1	<5	37	38	47

DRILL HOLE NO. I90-8

DRILL HOLE LOG

HOLE NO. I90-9 | PAGE NO. 1 of 16

LOCATION: 93m @ 036° from I90-8
Collar, Transition Zone

AZIM: 025°
DIP: -45°

ELEV: 160m (approximate)
LENGTH: 200.56m

CORE SIZE: BQ

DIP TEST

METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.
200.56	~025°	-48.5	-40°

PROPERTY: ISKUT J.V.

CLAIM NO: Hemlo West 16
SECTION:

LOGGED BY: E.R. Honsinger
DATE LOGGED: July 3, 1990
DRILLING CO: FALCON
ASSAYED BY: T.S.L.

STARTED: June 30, 1990
COMPLETED: July 1, 1990
PURPOSE: Test for Eastern Strike Extension of mineralization discovered in RPX Zone, I89-10

CORE RECOVERY: 89.69%

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
0.00	4.57	Overburden - Casing										
4.57	8.90	Banded Silicified Siltstone with Minor Silicified Greywacke - greenish blue grey with orange brown fracture filling - fine grained - abundant rubble	29956	4.57	6.01	1.44	0.003	<1	65	63	3	23
		- strong silicified overprint - chlorite, limonitic fracture filling	29957	6.01	7.45	1.44	0.002	<1	50	40	3	18
		- sheared quartz>calcite microveinlets, 1mm, approximately 35° and near perpendicular to Core Axis as well as abundant sheared tension gashes - banding 0.2 - 0.8cm wide, cream coloured, 75° - 80° - rare scattered 1mm pyrite cubes - overall <1% pyrite	29958	7.45	8.90	1.45	<0.001	<1	70	23	1	18
8.90	18.41	Interbedded Silicified Siltstone with Lesser Biotite Altered Greywacke - bluish grey silicified siltstone and tan brown biotite altered greywacke	29959	8.90	10.38	1.48	<0.001	<1	65	11	2	31
		- fine grained siltstone, medium to fine grained greywacke - locally quartz calcite stockworked - strong sheared appearance	29960	10.38	11.87	1.49	0.001	<1	45	40	2	23
		- cross-cutting quartz>calcite veinlets increasing in density with depth - lower contact gradational (taken @ 80° fracture)	29961	11.87	13.35	1.48	<0.001	<1	45	190	2	28
		- overall <1% pyrite, <1% pyrrhotite, <1% chalcopyrite	29962	13.35	14.35	1.00	<0.001	<1	30	79	2	18

DRILL HOLE LOG

HOLE NO. I90-9 | PAGE 2 OF 16

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
8.90	18.41 Cont.	14.35-14.83m siliceous biotite altered greywacke with mineralized fracture filling, 1 - 2% chalcopyrite, 1 - 2% pyrrhotite, 1% pyrite as disseminations and fracture filling. Possible trace arsenopyrite (telluride?) very fine grained. Iridescent bluish purple mineral, possible < 1% bornite?	29963	14.35	14.83	0.48	<0.001	<1	<5	270	2	26
			29964	14.83	15.83	1.00	<0.001	<1	15	97	1	18
			29965	15.83	17.12	1.29	<0.001	<1	<5	61	2	26
			29966	17.12	18.41	1.29	<0.001	<1	<5	140	1	28
18.41	29.61	Interbedded Siliceous Siltstone and Biotite Altered Greywacke	29593	18.41	20.41	2.00	<0.001	<1	<5	48	2	35
		- greyish blue to tan brown	29594	20.41	22.41	2.00	<0.001	<1	<5	38	5	27
		- medium grained, generally sheared with silicified alteration overprint										
		- moderate to completely silicified, biotite altered greywacke and greenish grey chlorite altered siltstone										
		- biotite alteration often grades to chlorite altered rocks, therefore locally biotite altered and chlorite altered rocks possibly derived from some protolith										
		- other sections exhibit distinct sharp contacts between chlorite altered and biotite altered rocks approximately 70°, locally with feldspar/silica altered 0.5cm bands										
		- quartz > > calcite veinlets running 70°-80° (80%) and 15°-25°, generally 1 - 3mm wide										
		- lower contact gradational with biotite altered greywacke										
		- minor local pyrrhotite blebs > pyrite and very fine grained disseminated pyrrhotite throughout										
		- overall < 1 to 1% pyrrhotite, < 1% pyrite										
		23.07-23.25m sheared calcite > quartz flooded zone, breccia with 8% pyrrhotite, 2% pyrite	29595	22.41	24.41	2.00	<0.001	<1	10	26	15	39
		25.48-27.21m section of predominantly silicified/chlorite altered. Siltstone with cross cutting 0.4cm wide quartz veins, 70° and 15°, rimmed with 1-2% pyrrhotite, 1% pyrite	29596	24.41	26.41	2.00	<0.001	<1	<5	42	17	43
			29597	26.41	28.41	2.00	<0.001	<1	10	29	55	89
			29598	28.41	29.61	1.20	<0.001	<1	10	110	<1	34
29.61	35.82	Biotite ± Chlorite Altered Greywacke and Lesser Siltstone	29599	29.61	30.71	1.10	<0.001	<1	<5	150	<1	33
		- Greyish blue to tan brown										
		- fine grained progressing to medium grained with depth after 32.92m	29600	30.71	31.81	1.10	<0.001	<1	15	160	<1	39
		- Biotite altered ± chlorite altered										
		- increasing quartz/calcite micro veinlets with depth, after 32.92m										
		- coarser grained 2mm elongate biotite crystals after 32.92m oriented towards shear direction ~85°	29607	31.81	32.92	1.11	<0.001	<1	5	140	1	7
			29601	32.92	33.88	0.96	<0.001	<1	<5	160	<1	40

DRILL HOLE LOG

HOLE NO. I90-9 | PAGE 3 OF 16

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
29.61	35.82 Cont.	- abundant discontinuous quartz > > calcite veinlets up to 1cm	29602	33.88	34.84	0.96	0.004	<1	<5	150	<1	48
		- lower contact gradational with sheared siliceous quartz flooded siltstone ?	29603	34.84	35.82	0.98	<0.001	<1	<5	100	<1	66
		- overall 1% pyrite, <1% pyrrhotite										
35.82	38.11	Sheared Quartz Flooded Biotite Altered Greywacke	29604	35.82	36.58	0.76	0.004	<1	<5	190	<1	40
		- mottled blue grey to cream brown										
		- highly sheared, contorted ptygmatic 1-3mm quartz veinlets, random orientation, lesser calcite	29605	36.58	37.34	0.76	<0.001	<1	10	160	1	28
		- 50% quartz, 10% calcite, 40% angular to subrounded biotite and chlorite altered greywacke (siltstone?) clasts, generally silicified	29606	37.34	38.11	0.77	<0.001	<1	5	140	1	7
		- locally brecciated, feldspar altered bands and fragments										
		- shear direction 65° - 80°										
		- lower contact gradational with micro brecciated biotite and silicified altered greywacke										
		- overall 2 - 3% pyrrhotite, 1% pyrite, locally over 2cm up to 8% pyrrhotite, 2% pyrite as blebs										
38.11	39.70	Micro Brecciated, Mylonitic, Greywacke/Tuff	29608	38.11	39.11	1.00	<0.001	<1	5	170	<1	23
		- light tan brown to cream grey										
		- fragments 0.2 to 2.0cm wide generally elongate, rounded locally strongly mylonitic, biotite and chlorite altered	29609	39.11	39.89	0.78	<0.001	<1	<5	100	<1	32
		- pervasive biotite and chlorite alteration of matrix and clasts, locally gouge fracture filling										
		- Ubiquitous micro stockworking of <1mm wide veinlets of chlorite, biotite, quartz and calcite										
		- lower contact 80° with quartz calcite veinlet										
		38.26-38.28m milky white quartz veinlet, no visible sulphides 70°, post breccia phase										
39.70	39.89	Clay Gouge Breccia										
		- cream grey with brown biotite altered 0.2 - 0.5cm angular greywacke clasts										
		- 2cm wide quartz > calcite veinlet 80° at upper contact between 39.70 - 39.72m										
		- fragment biotite, ± chlorite ± silicified alteration										
		- lower contact with quartz vein 80° - 85°										
		- <1% pyrite, <1% pyrrhotite										

DRILL HOLE LOG

HOLE NO. I90-9 | PAGE 4 OF 16

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
39.89	40.52	Milky White Quartz Vein - no visible sulphides - massive, not sheared - upper contact with fault gouge breccia sheared, irregular - no visible sulphides - rare fractures 30° and less common 50° - <1% pyrite, <1% pyrrhotite	29610	39.89	40.52	0.63	<0.001	<1	15	68	<1	41
40.52	44.56	Silicified Quartz Flooded Breccia (Fault Zone) - cream white to grey, locally unconsolidated	29611	40.52	41.53	1.01	<0.001	<1	10	77	<1	34
		- completely brecciated, with angular clasts ranging from 0.1 to 2.0cm, 80% clasts, 20% chlorite + silicified matrix	29612	41.53	42.54	1.01	<0.001	<1	12	80	5	42
		- ubiquitous discontinuous contorted quartz/calcite veinlets, up to 1cm wide	29613	42.54	43.55	1.01	<0.001	<1	55	100	42	2
		- generally bleached, abundant clay gouge, fragments biotitic, chloritic, silicified?										
		- lower contact 70° to sheared biotite altered greywacke - overall 1% pyrite, <1% pyrrhotite 44.20-44.56m calcite>>quartz veinlet, sheared upper contact, lower contact 70°, <1% pyrite, <1% pyrrhotite	29614	43.55	44.56	1.01	<0.001	<1	80	97	8	150
44.56	45.35	Sheared Biotite Altered Greywacke - mottled cream grey to tan brown - ubiquitous cross-cutting quartz>>calcite veinlets generally 1mm wide, locally stockworked - biotite > chlorite altered - silicified and feldspar altered rounded fragments up to 2cm wide - shear direction approximately 70° - 75° - locally pyrite blebs over 3cm up to 15%, 5% pyrrhotite (pyrrhotite appears weakly magnetic) or pyrite very bronze coloured - overall 4% pyrrhotite, 1 - 2% pyrite	29615	44.56	45.35	0.79	<0.001	<1	180	470	40	780
45.35	60.52	Variably Sheared, Altered Interbedded Siltstone and Greywacke - dark to light tan brown, locally mineralized - fine grained from 45.35 -45.82m, generally medium grained after 45.82 - 60.52m - strong biotite alteration, local chlorite alteration as stringers, fracture filling and along quartz calcite veinlets	29616	45.35	46.35	1.00	<0.001	<1	75	200	1	150
			29617	46.35	47.35	1.00	<0.001	<1	55	190	<1	100
			29618	47.35	48.35	1.00	0.005	<1	790	86	4	94
			29619	48.35	49.35	1.00	0.003	<1	190	72	1	73
			29620	49.35	50.35	1.00	<0.001	<1	20	460	<1	61

DRILL HOLE LOG

HOLE NO. I90-9 | PAGE 5 OF 16

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
45.35	60.52 Cont.	- locally quartz flooded with feldspar altered rounded fragments up to 4cm	29621	50.35	51.35	1.00	<0.001	<1	25	130	<1	60
		- lesser siltstone interbeds, often bluish grey, siliceous, shear direction generally 70°	29622	51.35	52.35	1.00	<0.001	<1	35	61	<1	60
		- lower contact gradational	29623	52.35	53.47	1.12	<0.001	<1	40	220	<1	59
		- overall 3% pyrrhotite, 1% pyrite, <1% chalcopyrite	29624	53.47	54.47	1.00	<0.001	<1	45	200	3	46
		45.70-45.81m minor shear running parallel to Core Axis with 1.0cm rounded pyrrhotite blebs, 15% pyrrhotite, 2% pyrite	29625	54.47	55.47	1.00	0.004	<1	15	260	<1	37
			29626	55.47	56.47	1.00	0.004	<1	<5	58	<1	37
			29627	56.47	57.30	0.83	<0.001	<1	15	45	<1	35
		50.54-50.60m sheared section with 60% pitted pyrite, 10% pyrrhotite, shear direction 60°	29628	57.30	58.30	1.00	<0.001	<1	<5	426	<1	38
			29629	58.30	59.30	1.00	0.009	<1	20	360	<1	79
			29630	59.30	60.52	1.22	<0.001	<1	<5	430	<1	41
		53.02-53.47m sheared quartz flooded zone with 15% pyrite, 10% pyrrhotite										
		54.97-55.08m sheared section with 15% pyrrhotite, 10% pyrite, trace arsenopyrite? galena?										
		57.30-57.61m sheared quartz flooded feldspar altered silicified section with 20% pyrrhotite, 4% pyrite										
		58.41-58.68m quartz calcite flooded zone, feldspar alteration with patchy blebs of 10% pyrite, 8% pyrrhotite										
		59.70-59.83m sheared section with 10% pyrrhotite, 3% pyrite and sulphides pitted										
		- mineralized sections associated with increased shear component and quartz/calcite flooding										
		- <1% pyrite, <1% pyrrhotite as <1mm blebs (minor dissemination) for remainder of rocks not included in above mineralized sections										
60.52	71.83	Sheared, Partially Silicified Greywacke/Siltstone	29631	60.52	61.21	0.69	<0.001	<1	<5	220	1	31
		- light to dark greyish brown	29967	61.21	62.98	1.77	<0.001	<1	<5	55	<1	43
		- fine grained silicified sections, medium grained biotite altered greywacke	29968	62.98	64.75	1.77	<0.001	<1	<5	74	2	46
		- variably sheared with abundant calcite filled, tension gashes	29969	64.75	66.52	1.77	<0.001	<1	<5	81	3	45
		- pervasive biotite alteration, local chlorite fracture filling	29970	66.52	68.29	1.77	<0.001	<1	<5	67	2	43
		- few cross cutting veinlets, but abundant quartz/calcite filled tension gashes, minor siltstone interbeds	29971	68.29	70.06	1.77	<0.001	<1	<5	62	1	43
		- lower contact marked by increase in quartz, calcite microveining and stockworking	29972	70.06	71.83	1.77	<0.001	<1	<5	51	<1	38
		- overall <1% pyrite, <1% pyrrhotite										
		67.32-67.40m quartz vein 60°, <1% pyrite										

DRILL HOLE LOG

HOLE NO. I90-9 | PAGE 6 OF 16

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
71.83	81.69	Blocky, Sheared Interbedded Siltstone/Greywacke	29973	71.83	73.14	1.31	<0.001	<1	<5	58	2	42
		- Dark brown to light grey, poor recovery ~60%										
		- Medium grained biotite altered greywacke and fine grained chlorite and biotite altered siltstone	29974	73.14	74.45	1.31	<0.001	<1	<5	59	3	64
		- Pervasively fractured, random orientation, many silica/ calcite fracture filling	29975	74.45	75.76	1.31	<0.001	<1	<5	79	4	45
		- Variably altered chloritic, biotitic fragments throughout	29976	75.76	77.07	1.31	<0.001	<1	10	74	2	43
		- Rocks locally pitted	29977	77.07	78.38	1.31	<0.001	<1	35	49	4	48
		- Local gouge fracture filling										
		- Abundant tension gashes, 2-3mm wide, up to 1cm long	29978	78.38	79.69	1.31	<0.001	<1	50	43	5	41
		- Lower contact sheared, blocky, quartz/calcite stockworked	29979	79.69	80.99	1.30	0.006	<1	110	69	2	45
		- Overall <1/2% pyrite, <1/2% pyrrhotite	29632	80.99	81.69	0.70	0.003	<1	55	27	9	51
81.69	95.25	Fault Zone, Altered Greywacke/Siltstone Rubble	29633	81.69	82.69	1.00	0.002	<1	190	45	9	48
		- Tan brown to brownish grey	29634	82.69	83.69	1.00	0.004	<1	75	21	8	35
		- Medium to fine grained, pitted	29635	83.69	84.69	1.00	0.003	<1	45	30	9	38
		- Generally complete angular rubble averaging 3-5cm of variable biotite and chlorite alteration, locally silicified greywacke and siltstone fragments	29636	84.69	85.69	1.00	<0.001	<1	20	52	5	37
			29637	85.69	86.69	1.00	<0.001	<1	30	35	5	42
		- Chlorite, calcite fracture filling	29638	86.69	87.69	1.00	0.001	<1	25	25	2	38
		- Lower contact sheared blocky	29639	87.69	88.69	1.00	0.001	<1	15	80	12	45
		- Generally poor recovery, 50-60%	29640	88.69	89.69	1.00	<0.001	<1	40	170	6	62
		- Overall <1/2% pyrite, <1/2% pyrrhotite	29641	89.69	90.69	1.00	<0.001	<1	10	69	9	61
		83.73-83.88m cream grey quartz vein with <1% pyrite, <1% pyrrhotite	29642	90.69	91.69	1.00	<0.001	<1	30	72	11	63
		88.80-90.00m dark cream grey silicified siltstone with local gouge <1% pyrite, <1% pyrrhotite	29643	91.69	92.69	1.00	0.006	<1	60	50	7	69
			29644	92.69	93.69	1.00	<0.001	<1	20	66	10	51
		92.04-92.91m Relatively consolidated unsheared biotite altered greywacke with <1% pyrite, <1% pyrrhotite	29645	93.69	94.01	0.32	<0.001	<1	55	55	10	63
		94.01-95.25m Dark grey to black pitted leached, possibly original 10% very fine grained pyrite? Appears to originally have been rich in sulphides, but now highly leached. Possibly originally mafic intrusive. 4% pyrite overall?										
		• Possible Marker Unit seen in I90-8 at 99.67-100.06										
95.25	98.26	Leached Biotite Altered Greywacke	29646	94.01	95.00	0.99	<0.001	<1	520	29	60	62
		- Light tan brown	29647	95.00	96.00	1.00	0.002	<1	110	37	26	62
		- Coarse grain, local gouge, abundant blocky areas abundant clay	29980	96.00	97.13	1.13	<0.001	<1	<5	30	6	51
			29981	97.13	98.26	1.13	<0.001	<1	95	50	4	44

DRILL HOLE LOG

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INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
95.25	98.26 Cont.	- Biotite and clay altered - Random orientation calcite > quartz veinlets, 1 mm - Lower contact gradational - Chlorite, greasy fracture filling - Lower contact gradational - Overall <1% pyrite, <1% pyrrhotite										
98.26	111.06	Locally Silicified Biotite and Chlorite Altered Greywacke	29982	98.26	99.96	1.70	<0.001	<1	70	28	3	45
		- Medium grey to dark brown	29983	99.96	101.66	1.70	<0.001	<1	<5	57	14	64
		- Variable fine grained in silicified sections to medium grained in biotite altered sections	29984	101.66	103.36	1.70	<0.001	<1	15	57	3	31
		- Pervasive biotite altered, with local chlorite and silicified alteration, gradational contacts	29985	103.36	105.06	1.70	<0.001	<1	<5	50	1	24
		- Rare quartz/calcite microveinlets, < 1mm running 70° as well as abundant quartz/calcite filled tension gashes random orientation	29986	105.06	106.76	1.70	<0.001	<1	70	39	<1	33
		- Locally leached vuggy pitted, especially along 1mm wide quartz/calcite veinlet contacts, generally friable	29987	106.76	108.46	1.70	<0.001	<1	45	85	4	46
		- Abundant clay gouge fracture filling	29988	108.46	110.06	1.60	<0.001	<1	80	31	12	37
		- Numerous blocky sections, rubble	29648	110.06	111.06	1.00	<0.001	<1	120	22	7	48
		- Lower contact gradational, based on pervasive rubble, fault "contact"										
		- Minor pyrite as < 1mm crystals and 1-2mm blebs										
		- Overall <1% pyrite, <1% pyrrhotite										
111.06	118.07	Fault Zone, Blocky, Greywacke/Siltstone	29649	111.06	112.06	1.00	<0.001	<1	15	96	2	60
		- Medium brown to dark grey	29650	112.06	113.06	1.00	<0.001	<1	10	70	2	66
		- Blocky, pitted generally rubble	29651	113.06	114.06	1.00	<0.001	<1	20	140	<1	59
		- Pervasive biotite altered ± chlorite as fracture filling and microveinlets	29652	114.06	115.06	1.00	<0.001	<1	35	120	3	48
		- Greenish grey, pitted, vuggy silicified 1cm siltstone bands and fragments throughout	29653	115.06	116.06	1.00	<0.001	<1	30	130	4	37
		- Banding variable often ~80°	29654	116.06	117.06	1.00	<0.001	<1	15	110	1	54
		- Local sections quartz flooded, breccia	29655	117.06	118.07	1.01	<0.001	<1	5	160	<1	53
		- Very minor clay gouge on some fracture filling										
		- Abundant 2mm x 4mm deep, prismatic leached cavities										
		- Lower contact rubble										
		- Overall 5% pyrite, <1% pyrrhotite, as scattered fine grained crystals and disseminations. Locally up to 15% over 3-4cm as disseminations										

DRILL HOLE LOG

HOLE NO. I90-9 | PAGE 8 OF 16

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
118.07	140.05	Biotite Altered Greywacke, Minor Siltstone	29656	118.07	119.07	1.00	<0.001	<1	20	110	4	42
		- Dark brown, locally silicified	29989	119.07	120.07	1.00	<0.001	<1	5	110	2	41
		- Competent rock, fine grained, with 1cm wide occasional bands of coarse grained biotite altered greywacke	29990	120.07	121.07	1.00	<0.001	<1	5	87	7	44
			29991	121.07	122.07	1.00	<0.001	<1	<5	25	<1	50
		- Biotite altered, mildly carbonatized	29992	122.07	123.07	1.00	<0.001	<1	5	51	1	56
		- Cross-cut by occasional quartz/calcite veinlet, 1-3mm wide, 55°	29993	123.07	124.07	1.00	<0.001	<1	<5	130	1	58
		- Rare 2-3mm wide coarse grained, pyrite veinlets 70°	29994	124.07	125.07	1.00	<0.001	<1	15	170	2	51
		- Scattered blebs of pyrite, 0.5cm, and along quartz veinlets	29995	125.07	126.07	1.00	<0.001	<1	20	71	<1	36
			29996	126.07	127.07	1.00	<0.001	<1	25	86	<1	37
		- Overall 3-5% pyrite, 1% pyrrhotite, (3% disseminated pyrite, 1% disseminated pyrrhotite)	29997	127.07	128.07	1.00	<0.001	<1	10	190	1	39
		120.77-120.99m biotite altered greywacke with 8% disseminated pyrite, 2% disseminated pyrrhotite	29998	128.07	129.07	1.00	<0.001	<1	15	140	3	41
			29999	129.07	130.07	1.00	<0.001	<1	10	140	<1	38
			30000	130.07	131.07	1.00	<0.001	<1	<5	120	<1	51
		123.95-124.15m biotite altered greywacke in 8% disseminated pyrite, <1% disseminated pyrrhotite	30101	131.07	132.07	1.00	<0.001	<1	20	120	2	47
			30102	132.07	133.07	1.00	<0.001	<1	<5	86	<1	50
		- Locally siltstone banded 0.5-1.0cm	30103	133.07	134.16	1.09	<0.001	<1	<5	100	2	58
			30104	134.16	135.19	1.03	<0.001	<1	<5	110	1	50
		125.48-125.73m Sheared section with quartz/calcite stockworks and veinlets up to 3cm wide. Patchy pyrite blebs throughout, up to 10%, <1% pyrite	30105	135.19	136.18	0.99	<0.001	<1	<5	110	2	49
			30106	136.18	137.06	0.88	<0.001	<1	15	110	3	49
			30107	137.06	138.07	1.01	<0.001	<1	<5	110	<1	41
		131.81-132.08m biotite altered greywacke with 4% disseminated pyrite, <1% pyrrhotite	30108	138.07	139.03	0.96	<0.001	<1	<5	88	1	54
			30109	139.03	140.05	1.02	<0.001	<1	<5	70	<1	52
		137.44-137.69m Quartz and calcite flooded zone, as alteration with dark grey to black stockworked chlorite(?) <1mm veinlets. 1% pyrite as minor blebs										
140.05	147.05	Biotite Altered Greywacke										
		- Dark grey to tan brown										
		- Fine grained competent										
		- Pervasive biotite altered, locally silicified										
		- Quartz > calcite cross-cutting veinlets, most common 70°										
		- Local stockworked sections, breccia contacts										
		- Relatively little quartz/calcite veinlets										
		- Lower contact gradational										
		- Marked drop in sulphide content from above rocks										
		- Overall <1% pyrite, <1% pyrrhotite										

DRILL HOLE LOG

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INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
140.05	147.05 Cont.	140.55-140.87m cream brown coloured silicified, locally breccia 1% pyrite as blebs along quartz veinlet contacts	30110	140.05	141.75	1.70	<0.001	<1	<5	130	2	56
		143.05-143.12m quartz/calcite flooded breccia stockworked zone with <1% pyrite, <1% pyrrhotite	30111	141.75	143.45	1.70	<0.001	<1	<5	98	<1	52
			30112	143.45	145.15	1.70	<0.001	<1	30	64	2	56
		145.17-145.27m silicified greywacke with 2% pyrite, <1% pyrrhotite	30113	145.15	147.05	1.90	<0.001	<1	30	80	4	53
147.05	147.69	Silicified/Carbonate Altered Greywacke - Cream brown - Sheared - Abundant cross-cutting quartz/calcite veinlets - Silicified, biotite and carbonate altered greywacke - Local patchy pyrite blebs - Overall 1-2% pyrite, <1% pyrrhotite	30114	147.05	147.69	0.64	<0.001	<1	10	27	2	37
147.69	152.51	Siliceous Biotite Altered Greywacke - Similar to 140.05-146.83m - Generally dark grey - Fine grained - Increase in quartz/calcite microveinlets - Lower contact gradational - Overall <1% pyrite, <1% pyrrhotite										
		148.99-149.15m Quartz stockworked <1% pyrite, <1% pyrrhotite	30115	147.69	149.29	1.60	<0.001	<1	<5	46	3	55
			30116	149.29	150.89	1.60	<0.001	<1	<5	48	3	58
		151.38-151.61m Cream grey silicified greywacke, cross-cut, by black chlorite(?) microveinlets near stockwork, <1% pyrite, <1% pyrrhotite	30117	150.89	152.51	1.62	<0.001	<1	<5	41	4	60
152.51	154.22	Silicified Sheared Greywacke/Siltstone? - Cream grey - Fine grained - Sheared, local breccia, stockworked - Lower contact gradational - Overall 1% pyrite, <1% pyrrhotite 153.98-154.22m completely silica replaced, cherty, <1% pyrite, <1% pyrrhotite	30118	152.51	154.22	1.71	<0.001	<1	10	130	2	46
154.22	160.93	Siliceous Biotite Altered Greywacke	30119	154.22	155.90	1.68	<0.001	<1	<5	44	2	57
		- Same unit as 147.69-152.51	30120	155.90	157.58	1.68	<0.001	<1	<5	54	4	55
		- Dark grey	30121	157.58	159.26	1.68	<0.001	<1	<5	48	3	31
		- Fine grained, lower contact gradational	30122	159.26	160.93	1.67	<0.001	<1	<5	45	1	45

DRILL HOLE LOG

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INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
154.22	160.93 Cont.	- Locally quartz/calcite stockworked over 10cm - Minor sulphides along quartz veinlet contacts and within veinlet - Overall <1% pyrite, <1% pyrrhotite										
160.93	164.55	Banded Biotite Altered Greywacke, Lesser Siltstone - Dark brown to grey - Generally very fine grained, with locally medium grained sections of strong biotite alteration - Minor slickensided fractured surfaces, with patchy chlorite and calcite fracture filling - Biotite altered ± chlorite	30123	160.93	161.55	0.62	<0.001	<1	5	59	1	40
		- Sheared, contorted discontinuous quartz filled tension gashes and veinlets	29657	161.55	162.55	1.00	<0.001	<1	<5	51	3	41
		- Rare 1-2mm blebs of pyrite, generally well developed crystals	29658	162.55	163.55	1.00	<0.001	<1	10	58	<1	38
		- Quartz content in form of ptygmatic, sheared veinlets and tension gashes increasing with depth - Overall <1% to 1% pyrite, <1% pyrrhotite	29659	163.55	164.55	1.00	<0.001	<1	5	71	<1	42
164.55	168.45	Fault Zone, Biotite Altered Greywacke Rubble	29660	164.55	165.55	1.00	<0.001	<1	20	150	2	45
		- Dark brown, ~40% recovery up to 166.73	29661	165.55	166.55	1.00	<0.001	<1	10	42	2	47
		- Fine grained, mainly rubble with some competent sections of quartz flooded biotite altered greywacke up to 50cm	29662	166.55	167.55	1.00	<0.001	<1	10	69	1	38
			29663	167.55	168.45	0.90	<0.001	<1	10	70	<1	37
			29664	168.45	169.45	1.00	<0.001	<1	<5	55	<1	39
		- Biotite altered with chlorite fracture filling - Fine grained cream brown silty interbeds up to 1cm wide 70°? - Quartz/calcite flooded ~30% of rocks as discontinuous stringers and larger up to 5cm veinlets - Overall <1% pyrite, <1% pyrrhotite - Lower contact 5cm clay gouge, 50°										
168.45	171.25	Chlorite Altered Tuff Breccia - Possible sheared siltstone, with sheared altered interbedded tuff? - Greenish grey - Angular bluish grey 1cm fragments in biotite and chlorite altered matrix - Chlorite and silicified altered, lesser biotite alteration - Very few cross-cutting quartz/calcite veinlets 55° - Local breccia, mylonitic, well cemented	30124	169.45	171.25	1.80	<0.001	<1	<5	54	3	29

DRILL HOLE LOG

HOLE NO. I90-9 | PAGE 11 OF 16

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
168.45	171.25 Cont.	- Calcite fracture filling - Lower contact gradational - Overall <1% pyrite, <1% pyrrhotite										
171.25	200.56	Sheared Interbedded Siltstone/Greywacke	30125	171.25	173.25	2.00	<0.001	<1	<5	200	<1	29
		- Dark bluish grey to brownish grey	30126	173.25	175.25	2.00	<0.001	<1	<5	77	<1	23
		- Fine grained siltstone, fine to medium grained greywacke interbeds	30127	175.25	177.25	2.00	<0.001	<1	<5	45	2	31
			30128	177.25	179.25	2.00	<0.001	<1	<5	29	<1	23
		- Predominantly siltstone, banding 15-25°	30129	179.25	181.25	2.00	<0.001	<1	<5	43	<1	35
		- Silicified from 171.25-175.23m										
		- Pervasive chlorite ± silica ± biotite										
		- Calcite fracture filling, strong biotite alteration after 179.22m										
		- Rare quartz/calcite veinlets, 1 to 3mm (1 per 10cm), ~25°										
		- Overall <1% pyrite, <1% pyrrhotite	30130	181.25	183.25	2.00	0.003	<1	<5	51	<1	33
		182.35-182.52m Sheared quartz >> calcite vein ~25°, <1% pyrite, <1% pyrrhotite	30131	183.25	185.25	2.00	0.013	<1	<5	32	<1	39
		184.49-184.54m Quartz calcite vein 45°, <1% pyrite, <1% pyrrhotite	30132	185.25	187.25	2.00	<0.001	<1	<5	28	<1	34
			30133	187.25	189.25	2.00	0.008	<1	<5	72	5	38
			30134	189.25	191.25	2.00	<0.001	<1	<5	44	46	44
		189.42-189.51m Quartz calcite vein with sheared silicified contacts, 40°, <1% pyrite, <1% pyrrhotite	30135	191.25	193.25	2.00	<0.001	<1	<5	87	3	34
		191.47-194.20m Sheared chlorite altered, moderate silicified zone <1% pyrite, <1% pyrrhotite	30136	193.25	195.25	2.00	0.015	<1	<5	240	<1	30
			30137	195.25	197.25	2.00	<0.001	<1	<5	66	1	27
			30138	197.25	199.25	2.00	0.003	<1	<5	84	<1	19
			30139	199.25	200.56	1.31	<0.001	<1	<5	53	<1	34
		END OF HOLE 200.56m 658'.										

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29956	4.57	6.01	1.44		86	-0.20		0.003		<1	65	63	3	23
29957	6.01	7.45	1.44		92	-0.12		0.002		<1	50	40	3	18
29958	7.45	8.90	1.45		90	-0.14		<0.001		<1	70	23	1	18
29959	8.90	10.38	1.48		77	-0.34		<0.001		<1	65	11	2	31
29960	10.38	11.87	1.49		100	0.00		0.001		<1	45	40	2	23
29961	11.87	13.35	1.48		103	+0.04		<0.001		<1	45	190	2	28
29962	13.35	14.35	1.00		85	-0.15		<0.001		<1	30	79	2	18
29963	14.35	14.83	0.48		69	-0.02		<0.001		<1	<5	270	2	26
29964	14.83	15.83	1.00		100	0.00		<0.001		<1	15	97	1	18
29965	15.83	17.12	1.29		95	-0.07		<0.001		<1	<5	61	2	26
29966	17.12	18.41	1.29		93	-0.09		<0.001		<1	<5	140	1	28
29593	18.41	20.41	2.00		95	-0.10		<0.001		<1	<5	48	2	35
29594	20.41	22.41	2.00		94	-0.12		<0.001		<1	<5	38	5	27
29595	22.41	24.41	2.00		100	0.00		<0.001		<1	10	26	15	39
29596	24.41	26.41	2.00		97	-0.06		<0.001		<1	<5	42	17	43
29597	26.41	28.41	2.00		97	-0.06		<0.001		<1	10	29	55	89
29598	28.41	29.61	1.20		98	-0.02		<0.001		<1	10	110	<1	34
29599	29.61	30.71	1.10		100	0.00		<0.001		<1	<5	150	<1	33
29600	30.71	31.81	1.10		100	0.00		<0.001		<1	15	160	<1	39
29607	31.81	32.92	1.11		93	-0.08		<0.001		<1	5	140	1	7
29601	32.92	33.88	0.96		94	-0.06		<0.001		<1	<5	160	<1	40
29602	33.88	34.84	0.96		96	-0.04		0.004		<1	<5	150	<1	48
29603	34.84	35.82	0.98		98	-0.02		<0.001		<1	<5	100	<1	66
29604	35.82	36.58	0.76		103	+0.02		0.004		<1	<5	190	<1	40
29605	36.58	37.34	0.76		95	-0.04		<0.001		<1	10	160	1	28
29606	37.34	38.11	0.77		100	0.00		<0.001		<1	5	140	1	7
29608	38.11	39.11	1.00		92	-0.08		<0.001		<1	5	170	<1	23
29609	39.11	39.89	0.78		99	-0.01		<0.001		<1	<5	100	<1	32
29610	39.89	40.52	0.63		90	-0.06		<0.001		<1	15	68	<1	41
29611	40.52	41.53	1.01		90	-0.10		<0.001		<1	10	77	<1	34
29612	41.53	42.54	1.01		96	-0.04		<0.001		<1	12	80	5	42
29613	42.54	43.55	1.01		84	-0.16		<0.001		<1	55	100	42	2
29614	43.55	44.56	1.01		92	-0.08		<0.001		<1	80	97	8	150
29615	44.56	45.35	0.79		94	-0.05		<0.001		<1	180	470	40	780
29616	45.35	46.35	1.00		97	-0.03		<0.001		<1	75	200	1	150

Keewatin Engineering Inc. | DRILL LOG | Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29617	46.35	47.35	1.00		99	-0.01		<0.001		<1	55	190	<1	100
29618	47.35	48.35	1.00		93	-0.07		0.005		<1	790	86	4	94
29619	48.35	49.35	1.00		98	-0.02		0.003		<1	190	72	1	73
29620	49.35	50.35	1.00		95	-0.05		<0.001		<1	20	460	<1	61
29621	50.35	51.35	1.00		95	-0.05		<0.001		<1	25	130	<1	60
29622	51.35	52.35	1.00		100	0.00		<0.001		<1	35	61	<1	60
29623	52.35	53.47	1.12		91	-0.10		<0.001		<1	40	220	<1	59
29624	53.47	54.47	1.00		96	-0.04		<0.001		<1	45	200	3	46
29625	54.47	55.47	1.00		94	-0.06		0.004		<1	15	260	<1	37
29626	55.47	56.47	1.00		94	-0.06		0.004		<1	<5	58	<1	37
29627	56.47	57.30	0.83		95	-0.04		<0.001		<1	15	45	<1	35
29628	57.30	58.30	1.00		95	-0.05		<0.001		<1	<5	426	<1	38
29629	58.30	59.30	1.00		97	-0.03		0.009		<1	20	360	<1	79
29630	59.30	60.52	1.22		95	-0.06		<0.001		<1	<5	430	<1	41
29631	60.52	61.21	0.69		100	0.00		<0.001		<1	<5	220	1	31
29967	61.21	62.98	1.77		99	-0.02		<0.001		<1	<5	55	<1	43
29968	62.98	64.75	1.77		100	0.00		<0.001		<1	<5	74	2	46
29969	64.75	66.52	1.77		99	-0.02		<0.001		<1	<5	81	3	45
29970	66.52	68.29	1.77		93	-0.12		<0.001		<1	<5	67	2	43
29971	68.29	70.06	1.77		100	0.00		<0.001		<1	<5	62	1	43
29972	70.06	71.83	1.77		82	-0.31		<0.001		<1	<5	51	<1	38
29973	71.83	73.14	1.31		100	0.00		<0.001		<1	<5	58	2	42
29974	73.14	74.45	1.31		98	-0.03		<0.001		<1	<5	59	3	64
29975	74.45	75.76	1.31		97	-0.04		<0.001		<1	<5	79	4	45
29976	75.76	77.07	1.31		84	-0.21		<0.001		<1	10	74	2	43
29977	77.07	78.38	1.31		92	-0.11		<0.001		<1	35	49	4	48
29978	78.38	79.69	1.31		61	-0.51		<0.001		<1	50	43	5	41
29979	79.69	80.99	1.30		51	-0.64		0.006		<1	110	69	2	45
29632	80.99	81.69	0.70		76	-0.17		0.003		<1	55	27	9	51
29633	81.69	82.69	1.00		37	-0.63		0.002		<1	190	45	9	48
29634	82.69	83.69	1.00		35	-0.65		0.004		<1	75	21	8	35
29635	83.69	84.69	1.00		72	-0.28		0.003		<1	45	30	9	38
29636	84.69	85.69	1.00		46	-0.54		<0.001		<1	20	52	5	37
29637	85.69	86.69	1.00		48	-0.52		<0.001		<1	30	35	5	42
29638	86.69	87.69	1.00		46	-0.54		0.001		<1	25	25	2	38

DRILL HOLE NO. 190-9

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29639	87.69	88.69	1.00		33	-0.67		0.001		<1	15	80	12	45
29640	88.69	89.69	1.00		80	-0.20		<0.001		<1	40	170	6	62
29641	89.69	90.69	1.00		60	-0.40		<0.001		<1	10	69	9	61
29642	90.69	91.69	1.00		68	-0.32		<0.001		<1	30	72	11	63
29643	91.69	92.69	1.00		45	-0.55		0.006		<1	60	50	7	69
29644	92.69	93.69	1.00		45	-0.55		<0.001		<1	20	66	10	51
29645	93.69	94.01	0.32		62	-0.12		<0.001		<1	55	55	10	63
29646	94.01	95.00	0.99		55	-0.45		<0.001		<1	520	29	60	62
29647	95.00	96.00	1.00		78	-0.22		0.002		<1	110	37	26	62
29980	96.00	97.13	1.13		100	0.00		<0.001		<1	<5	30	6	51
29981	97.13	98.26	1.13		75	-0.28		<0.001		<1	95	50	4	44
29982	98.26	99.96	1.70		98	-0.03		<0.001		<1	70	28	3	45
29983	99.96	101.66	1.70		96	-0.06		<0.001		<1	<5	57	14	64
29984	101.66	103.36	1.70		94	-0.10		<0.001		<1	15	57	3	31
29985	103.36	105.06	1.70		100	0.00		<0.001		<1	<5	50	1	24
29986	105.06	106.76	1.70		66	-0.57		<0.001		<1	70	39	<1	33
29987	106.76	108.46	1.70		82	-0.30		<0.001		<1	45	85	4	46
29988	108.46	110.06	1.60		76	-0.38		<0.001		<1	80	31	12	37
29648	110.06	111.06	1.00		96	-0.04		<0.001		<1	120	22	7	48
29649	111.06	112.06	1.00		35	-0.65		<0.001		<1	15	96	2	60
29650	112.06	113.06	1.00		38	-0.62		<0.001		<1	10	70	2	66
29651	113.06	114.06	1.00		53	-0.47		<0.001		<1	20	140	<1	59
29652	114.06	115.06	1.00		37	-0.63		<0.001		<1	35	120	3	48
29653	115.06	116.06	1.00		51	-0.49		<0.001		<1	30	130	4	37
29654	116.06	117.06	1.00		32	-0.68		<0.001		<1	15	110	1	54
29655	117.06	118.07	1.01		35	-0.66		<0.001		<1	5	160	<1	53
29656	118.07	119.07	1.00		92	-0.08		<0.001		<1	20	110	4	42
29989	119.07	120.07	1.00		100	0.00		<0.001		<1	5	110	2	41
29990	120.07	121.07	1.00		110	+0.10		<0.001		<1	5	87	7	44
29991	121.07	122.07	1.00		90	-0.10		<0.001		<1	<5	25	<1	50
29992	122.07	123.07	1.00		92	-0.08		<0.001		<1	5	51	1	56
29993	123.07	124.07	1.00		78	-0.22		<0.001		<1	<5	130	1	58
29994	124.07	125.07	1.00		92	-0.08		<0.001		<1	15	170	2	51
29995	125.07	126.07	1.00		94	-0.06		<0.001		<1	20	71	<1	36
29996	126.07	127.07	1.00		99	-0.01		<0.001		<1	25	86	<1	37

Keewatin Engineering Inc. | **DRILL LOG** | **Sample Data**

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29997	127.07	128.07	1.00		100	0.00		<0.001		<1	10	190	1	39
29998	128.07	129.07	1.00		97	-0.03		<0.001		<1	15	140	3	41
29999	129.07	130.07	1.00		100	0.00		<0.001		<1	10	140	<1	38
30000	130.07	131.07	1.00		98	-0.02		<0.001		<1	<5	120	<1	51
30101	131.07	132.07	1.00		100	0.00		<0.001		<1	20	120	2	47
30102	132.07	133.07	1.00		94	-0.06		<0.001		<1	<5	86	<1	50
30103	133.07	134.16	1.09		100	0.00		<0.001		<1	<5	100	2	58
30104	134.16	135.19	1.03		100	0.00		<0.001		<1	<5	110	1	50
30105	135.19	136.18	0.99		102	+0.02		<0.001		<1	<5	110	2	49
30106	136.18	137.06	0.88		97	-0.03		<0.001		<1	15	110	3	49
30107	137.06	138.07	1.01		100	0.00		<0.001		<1	<5	110	<1	41
30108	138.07	139.03	0.96		106	+0.06		<0.001		<1	<5	88	1	54
30109	139.03	140.05	1.02		100	0.00		<0.001		<1	<5	70	<1	52
30110	140.05	141.75	1.70		100	0.00		<0.001		<1	<5	130	2	56
30111	141.75	143.45	1.70		100	0.00		<0.001		<1	<5	98	<1	52
30112	143.45	145.15	1.70		100	0.00		<0.001		<1	30	64	2	56
30113	145.15	147.05	1.90		99	-0.02		<0.001		<1	30	80	4	53
30114	147.05	147.69	0.64		94	-0.04		<0.001		<1	10	27	2	37
30115	147.69	149.29	1.60		101	+0.02		<0.001		<1	<5	46	3	55
30116	149.29	150.89	1.60		102	+0.03		<0.001		<1	<5	48	3	58
30117	150.89	152.51	1.62		100	0.00		<0.001		<1	<5	41	4	60
30118	152.51	154.22	1.71		92	-0.13		<0.001		<1	10	130	2	46
30119	154.22	155.90	1.68		100	0.00		<0.001		<1	<5	44	2	
30120	155.90	157.58	1.68		101	+0.02		<0.001		<1	<5	54	4	57
30121	157.58	159.26	1.68		98	-0.04		<0.001		<1	<5	48	3	55
														31
30122	159.26	160.93	1.67		103	+0.05		<0.001		<1	<5	45	1	
30123	160.93	161.55	0.62		95	-0.03		<0.001		<1	5	59	1	45
29657	161.55	162.55	1.00		95	-0.05		<0.001		<1	<5	51	3	40
29658	162.55	163.55	1.00		95	-0.05		<0.001		<1	10	58	<1	41
29659	163.55	164.55	1.00		94	-0.06		<0.001		<1	5	71	<1	38
														42
29660	164.55	165.55	1.00		39	-0.61		<0.001		<1	20	150	2	
29661	165.55	166.55	1.00		35	-0.65		<0.001		<1	10	42	2	45
29662	166.55	167.55	1.00		69	-0.31		<0.001		<1	10	69	1	47
29663	167.55	168.45	0.90		28	-0.13		<0.001		<1	10	70	<1	38
29664	168.45	169.45	1.00		85	-0.15		<0.001		<1	<5	55	<1	37
														39

DRILL HOLE NO. 190-9

Keewatin Engineering Inc. | DRILL LOG | Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
30124	169.45	171.25	1.80		98	-0.04		<0.001		<1	<5	54	3	29
30125	171.25	173.25	2.00		100	0.00		<0.001		<1	<5	200	<1	29
30126	173.25	175.25	2.00		100	0.00		<0.001		<1	<5	77	<1	23
30127	175.25	177.25	2.00		98	-0.04		<0.001		<1	<5	45	2	31
30128	177.25	179.25	2.00		100	0.00		<0.001		<1	<5	29	<1	23
30129	179.25	181.25	2.00		101	+0.01		<0.001		<1	<5	43	<1	35
30130	181.25	183.25	2.00		100	0.00		0.003		<1	<5	51	<1	33
30131	183.25	185.25	2.00		100	0.00		0.013		<1	<5	32	<1	39
30132	185.25	187.25	2.00		100	0.00		<0.001		<1	<5	28	<1	34
30133	187.25	189.25	2.00		101	+0.01		0.008		<1	<5	72	5	38
30134	189.25	191.25	2.00		96	-0.07		<0.001		<1	<5	44	46	44
30135	191.25	193.25	2.00		100	0.00		<0.001		<1	<5	87	3	34
30136	193.25	195.25	2.00		99	-0.01		0.015		<1	<5	240	<1	30
30137	195.25	197.25	2.00		99	-0.02		<0.001		<1	<5	66	1	27
30138	197.25	199.25	2.00		98	-0.04		0.003		<1	<5	84	<1	19
30139	199.25	200.56	1.31		97	-0.04		<0.001		<1	<5	53	<1	34

DRILL HOLE NO. I90-9

DRILL HOLE LOG

LOCATION: Gregor Area; 35m NW of the top end of the 1989 Trench

HOLE NO. I90-10 | PAGE NO. 1 of 9

AZIM: 144°
DIP: -90°

ELEV: ~338m
LENGTH: 100.58m

CORE SIZE: BQ

DIP TEST

METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.
100.00		-88°	-87°

PROPERTY: ISKUT J.V.

CLAIM NO: ISK 1
SECTION:

STARTED: July 2, 1990
COMPLETED: July 3, 1990
PURPOSE:

LOGGED BY: R. PEGG
DATE LOGGED: July 10, 1990
DRILLING CO: FALCON DRILLING
ASSAYED BY: TSL

CORE RECOVERY: 97.63%

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
0.00	4.57	Casing										
4.57	4.62	Boulders										
4.62	5.17	Andesitic Lapilli Tuff - medium greenish grey - moderate carbonate fracture filling and patches (±quartz) - >minor biotite altered patches (fragments?); 1-3% pyrrhotite, 1% pyrite fracture filling and disseminations - carbonate content increases to bottom of unit 4.94-5.16m - <intense carbonate (±minor quartz) shearing and fractures	29702	4.62	5.17	0.55	<0.001	<1	<5	100	5	32
5.17	9.35	Andesitic Lapilli Tuff (polylithic) - medium greenish grey	29703	5.17	6.08	0.91	0.063	1	10	340	24	97
		- white feldspar grains, mafic and light grey felsic fragments - pyroxene porphyry fragments (>2.5 x 5cm); pyroxene to 2mm	29704	6.08	6.99	0.91	0.015	<1	<5	110	2	23
		- minor biotite alteration	29705	6.99	7.91	0.92	0.072	<1	<5	270	3	21
		- moderate carbonate fracture filling and patches (approximately 35°); some concentrations (±quartz); 6-8% pyrrhotite, 1-3% pyrite fracture filling and patches (some concentrations) 7.91-8.84m - intense carbonate patches and fracture filling 8.84-9.35m - moderate to <intense carbonate fracture filling and patches 7.91-9.35m - lower sulphide content	29706	7.91	9.35	1.44	0.025	<1	<5	170	3	17
		*0.56m extra core between 4.57-5.79m										

DRILL HOLE LOG

HOLE NO. I90-10 | PAGE 2 OF 9

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
9.35	9.95	Tuff Breccia - medium greenish grey - pyroxene porphyry, mafic and felsic and biotite altered fragments - moderate carbonate patches and fracture filling (±quartz) - patchy and fracture filling 10-15% pyrrhotite, 1-3% pyrite, <1% chalcopyrite, irregular lower contact (approximately 40°)	29707	9.35	9.95	0.60	0.008	1	<5	550	3	15
9.95	13.20	Tuff Breccia - medium greenish grey - polylithic (as before); large pyroxene porphyry fragments - moderate carbonate (±quartz) fracture filling (55°, 75° and low angle) - minor biotite and chlorite alteration with the carbonate - patchy sulphides, 4-6% pyrrhotite, 1-2% pyrite, <1% chalcopyrite 9.95-10.40m - intense carbonate (±quartz) patches (irregular and low angle)	29708	9.95	10.40	0.45	0.613	1	<5	170	2	16
			29709	10.40	11.33	0.93	0.089	<1	<5	180	1	17
			29710	11.33	12.26	0.93	0.025	<1	5	480	4	18
			29711	12.26	13.20	0.94	0.025	<1	<5	110	<1	17
13.20	21.52	Mineralized Tuff Breccia - medium greenish grey - polylithic - large pyroxene porphyry fragments (mafic) - minor chlorite fracture filling and patches (small) - slips (50°-65°) minor - >minor carbonate fracture fillings; 15-20% pyrrhotite, 5-7% pyrite, 1% chalcopyrite, trace sphalerite patches and fracture filling - semi-massive concentrations at 13.46-13.65m, 14.28-14.53m, 14.86-15.14m, 16.43-16.49m, 17.40-17.46m, 19.64-19.76m, 19.87-20.06m, 20.18-20.30m 18.10-18.17m - carbonate patches with pyrrhotite, pyrite and sphalerite 18.29-18.37m - carbonate patches with pyrrhotite, pyrite and sphalerite 18.57-19.58m - low angle carbonate fracture filling (crystalline and small portion with open gashes along fracture) and pyrite patches 20.96-21.15m - massive sulphides (pyrrhotite) 21.15-21.52m - semi-massive sulphides	29712	13.20	14.28	1.08	0.013	<1	<5	610	4	13
			29713	14.28	15.14	0.86	0.012	<1	15	940	7	17
			29714	15.14	16.43	1.29	0.012	<1	<5	540	1	20
			29715	16.43	17.46	1.03	0.004	<1	5	920	<1	17
			29716	17.46	18.55	1.09	0.004	<1	<5	390	32	210
			29717	18.55	19.64	1.09	0.004	<1	<5	710	5	26
			29718	19.64	20.96	1.32	0.007	<1	<5	540	3	25
			29719	20.96	21.52	0.56	0.017	<1	10	1900	12	33

DRILL HOLE LOG

HOLE NO. I90-10 | PAGE 3 OF 9

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
21.52	23.03	Fractured Tuff Breccia	29720	21.52	22.27	0.75	<0.001	<1	5	110	1	35
		- medium greenish grey; as above										
		- moderate carbonate patches and irregular fracture filling (±quartz) 43°; upper contact fractured (50°); numerous fragments of pyroxene porphyry; 2-3% pyrrhotite and 1-2% pyrite fracture filling and small patches	29721	22.27	23.03	0.76	<0.001	<1	5	84	2	41
23.03	24.08	Fractured and Sheared Tuff Breccia and Greywacke										
		- medium greenish grey and dark brown-grey	29722	23.03	24.08	1.05	<0.001	<1	<5	140	<1	43
		- sheared upper contact (approximately 45°), pyritic										
		- moderate irregular biotite altered patches and bands (approximately 60°)										
		- >minor carbonate patches and irregular fracture filling; 3-5% pyrrhotite, 3-5% pyrite fracture filling and small patches										
24.08	38.82	Fractured Greywacke										
		- medium to dark brown and minor light brownish grey	29723	24.08	25.08	1.00	<0.001	<1	<5	60	3	54
		- >minor to moderate carbonate (±quartz) patches and irregular fracture filling (20°-55°)										
		- moderate biotite alteration; gradational upper contact	29724	25.08	26.08	1.00	<0.001	<1	10	40	5	44
		- patchy feldspar/silica alteration (light brownish grey)										
		- very minor chlorite patches (with carbonate)	29725	26.08	27.08	1.00	<0.001	<1	15	97	5	44
		- a few narrow sheared sections; 3-5% pyrite, 1-3% pyrrhotite, trace arsenopyrite and telluride (?)	29726	27.08	28.08	1.00	<0.001	<1	<5	120	66	96
			29727	28.08	29.08	1.00	<0.001	<1	15	130	57	120
		- slips (35°-55°)	29728	29.08	30.08	1.00	<0.001	<1	900	120	10	50
		29.70-29.81m - 3-5% arsenopyrite (fine grained aggregates of arsenopyrite in arsenopyrite crystal shape) and minor telluride?	29729	30.08	31.08	1.00	0.002	<1	100	130	4	38
			29730	31.08	32.08	1.00	<0.001	<1	20	110	2	38
			29731	32.08	33.08	1.00	<0.001	<1	15	130	2	34
		33.68-34.67m - sheared (approximately 10°) and brecciated moderate carbonate fracture filling and micro fractures and >minor irregular biotite patches	29732	33.08	33.68	0.60	<0.001	<1	10	57	11	36
			29733	33.68	34.67	0.99	<0.001	<1	<5	210	3	43
			29734	34.67	36.02	1.35	<0.001	<1	15	94	3	37
		- gradational lower contact	29735	36.02	37.37	1.35	<0.001	<1	15	75	3	28
			29736	37.37	38.82	1.45	<0.001	<1	15	82	3	38
38.82	39.71	Fractured Tuff (±Greywacke)										
		- medium greenish grey; siliceous	29737	38.82	39.71	0.89	<0.001	<1	10	66	5	36
		- sheared; <moderate carbonate fracture filling										
		- irregular pinkish grey bands (65°-90°); 3-5% pyrite and 1-2% pyrrhotite fracture filling and small patches										

DRILL HOLE LOG

HOLE NO. I90-10 | PAGE 4 OF 9

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
39.71	41.00	Andesitic Tuff Breccia - polylithic; medium greenish grey; <moderate carbonate fracture filling and patches - altered andesitic fragments (large), biotite fragments; 5-7% pyrrhotite, 3-5% pyrite fracture filling and patches - different tuff breccia than the mineralized one above (none of the mafic pyroxene porphyry fragments seen) - gradational upper contact; lower contact at end of sulphides and increase in andesitic sections	29738	39.71	41.00	1.29	<0.001	<1	25	140	6	36
41.00	67.00	Andesitic Tuff Breccia - medium to light greenish grey; polylithic	29739	41.00	42.72	1.72	<0.001	<1	5	70	4	25
		- andesitic, biotite and chlorite fragments	29740	42.72	44.72	2.00	<0.001	<1	<5	80	3	44
		- andesitic matrix gradational into (at approximately 42.14m) light greenish grey matrix	29741	44.72	45.85	1.13	<0.001	<1	15	36	5	26
		- mostly angular to subangular fragments - >minor carbonate fracture filling and patches	29742	45.85	46.90	1.05	<0.001	<1	5	100	6	30
		- minor chlorite-carbonate bands with disseminated pyrite and pyrrhotite; 2-4% pyrite, 1-3% pyrrhotite fracture filling and small patches	29743	46.90	48.90	2.00	<0.001	<1	10	190	8	33
		42.72-43.19m - crowded tuff breccia	29744	48.90	50.90	2.00	0.002	<1	20	290	6	32
		45.85-46.90m - crowded tuff breccia	29745	50.90	53.01	2.11	<0.001	<1	15	95	4	29
		49.44-49.72m - crowded tuff breccia	29746	53.01	55.01	2.00	<0.001	<1	15	140	7	16
		50.03-50.75m - crowded tuff breccia	29747	55.01	57.01	2.00	<0.001	<1	<5	110	4	26
		47.16-48.36m - increase in carbonate (patches and fracture filling)	29748	57.01	59.01	2.00	<0.001	<1	<5	62	8	30
			29749	59.01	61.01	2.00	<0.001	<1	10	100	6	32
		50.90-53.01m - andesitic appearance; minor mafic pyroxene porphyry fragments	29750	61.01	63.01	2.00	<0.001	<1	15	230	5	28
			29751	63.01	65.01	2.00	0.004	<1	15	340	6	28
		60.59-60.94m - >moderate to intense carbonate-quartz patches and fracture filling (50°)	29752	65.01	67.00	1.99	0.003	<1	15	130	12	42
		65.80-67.00m - sheared and increase in biotite and chlorite alteration										
67.00	76.82	Foliated Tuff to Lapilli Tuff - medium greyish green	30023	67.00	68.59	1.59	<0.001	<1	75	68	10	55
		- foliated; andesitic appearance; contains a sheared section	30024	68.59	69.80	1.21	<0.001	<1	40	75	69	840
		- minor patchy cream silicification throughout - >minor to <moderate carbonate (±quartz) fracture filling and patches - >minor to <moderate chlorite alteration										

DRILL HOLE LOG

HOLE NO. I90-10 | PAGE 5 OF 9

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
67.00	76.82 Cont.	- pyroxene phenocrysts visible; 1% pyrrhotite, 1-2% pyrite fracture filling and disseminations; >trace sphalerite fracture filling; sheared lower contact (55°)										
		68.59m - slight shearing (55°)										
		68.93-68.99m - two carbonate (±quartz) bands with reddish brown sphalerite and pyrite (to 0.2cm wide); foliation evident										
		69.45-69.53m - carbonate-quartz fracture filling (intense)										
		69.80-71.11m - sheared, silicified and broken core; bleached a light grey and <moderate cream clay alteration; sheared at 35°-50°; some low angle along (clay) fractures	30025	69.80	71.11	1.31	<0.001	<1	<5	29	17	110
			30026	71.11	72.11	1.00	<0.001	<1	<5	11	9	54
		71.11-71.63m - intense carbonate and lesser chlorite (47°)										
		71.63-71.72m - silicified	30027	72.11	73.11	1.00	<0.001	<1	5	19	2	19
		75.90-76.02m - silicified	30028	73.11	74.11	1.00	<0.001	<1	<5	25	1	13
		76.53-76.56m - carbonate fracture filling (60°)	30029	74.11	75.11	1.00	<0.001	<1	<5	19	<1	14
			30030	75.11	76.82	1.71	<0.001	<1	5	5	2	12
76.82	91.99	Andesitic Tuff to Lapilli Tuff										
		- medium greenish grey	30031	76.82	78.63	1.81	<0.001	<1	<5	76	3	19
		- occasional fragments to 1.5cm (chlorite)	30032	78.63	80.44	1.81	<0.001	<1	<5	41	3	13
		- pyroxene porphyry (not as coarse as seen in the tuff breccias); a few narrow coarser sections	30033	80.44	82.25	1.81	<0.001	<1	<5	46	2	17
			30034	82.25	84.06	1.81	<0.001	<1	<5	100	2	16
		- minor carbonate fracture filling and clay fracture filling; >minor chlorite alterations	30035	84.06	85.87	1.81	<0.001	<1	<5	9	<1	23
			30036	85.87	87.68	1.81	<0.001	<1	<5	2	<1	26
		- slips @ 60°-65° and 25°-45°; <1% pyrrhotite and pyrite	30037	87.68	88.66	0.98	<0.001	<1	120	29	<1	28
		77.24-77.29m - sheared (some fault gouge) @ 45°	30038	88.66	90.32	1.66	<0.001	<1	45	37	2	25
		87.66-87.68m - sheared (gouge) @ 70°	30039	90.32	91.99	1.67	<0.001	<1	<5	65	1	27
		87.68-88.66m - well fractured with >moderate quartz (milky white to light grey) ±minor carbonate; irregular patches and fracture filling + 3-5% pyrrhotite and ≤1% pyrite fracture filling										
		- gradational lower contact										
91.99	100.58	Andesitic Tuff	30040	91.99	93.70	1.71	<0.001	<1	<5	140	7	32
		- medium greyish green										
		- finer grained than above	30041	93.70	95.41	1.71	0.006	<1	10	21	3	24
		- pyroxene porphyry										
		- >minor silicified patches, especially at bottom; minor carbonate fracture filling	30042	95.41	97.12	1.71	<0.001	<1	<5	440	94	740
		- <<1% pyrrhotite and pyrite; trace chalcopyrite and sphalerite (patch @ 95.10m)										

DRILL HOLE LOG

HOLE NO. I90-10 | PAGE 6 OF 9

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au opt	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
91.99	100.58 Cont.	96.85m - appears to revert back to the coarser-grained andesite (core barrel streaks)	30043	97.12	98.83	1.71	<0.001	<1	<5	65	5	59
		97.58-97.70m - bluish grey and creamy silicification (40°)										
		98.83-100.58m - >moderate patchy silicification and >minor biotite, minor carbonate and increase in sulphides; contorted rock but has siltstone appearance locally	30044	98.83	100.58	1.75	<0.001	<1	<5	60	<1	30
		- END OF HOLE -										

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29702	4.62	5.17	0.55		84	-0.09		<0.001		<1	<5	100	5	32
29703	5.17	6.08	0.91		43	-0.52		0.063		1	10	340	24	97
29704	6.08	6.99	0.91		99	-0.01		0.015		<1	<5	110	2	23
29705	6.99	7.91	0.92		82	-0.17		0.072		<1	<5	270	3	21
29706	7.91	9.35	1.44		98	-0.03		0.025		<1	<5	170	3	17
29707	9.35	9.95	0.60		100	0.00		0.008		1	<5	550	3	15
29708	9.95	10.40	0.45		100	0.00		0.613		1	<5	170	2	16
29709	10.40	11.33	0.93		92	-0.07		0.089		<1	<5	180	1	17
29710	11.33	12.26	0.93		97	-0.03		0.025		<1	5	480	4	18
29711	12.26	13.20	0.94		96	-0.04		0.025		<1	<5	110	<1	17
29712	13.20	14.28	1.08		115	+0.16		0.013		<1	<5	610	4	13
29713	14.28	15.14	0.86		94	-0.05		0.012		<1	15	940	7	17
29714	15.14	16.43	1.29		100	0.00		0.012		<1	<5	540	1	20
29715	16.43	17.46	1.03		100	0.00		0.004		<1	5	920	<1	17
29716	17.46	18.55	1.09		93	-0.08		0.004		<1	<5	390	32	210
29717	18.55	19.64	1.09		100	0.00		0.004		<1	<5	710	5	26
29718	19.64	20.96	1.32		102	+0.02		0.007		<1	<5	540	3	25
29719	20.96	21.52	0.56		100	0.00		0.017		<1	10	1900	12	33
29720	21.52	22.27	0.75		100	0.00		<0.001		<1	5	110	1	35
29721	22.27	23.03	0.76		97	-0.02		<0.001		<1	5	84	2	41
29722	23.03	24.08	1.05		100	0.00		<0.001		<1	<5	140	<1	43
29723	24.08	25.08	1.00		100	0.00		<0.001		<1	<5	60	3	54
29724	25.08	26.08	1.00		97	-0.03		<0.001		<1	10	40	5	44
29725	26.08	27.08	1.00		116	+0.16		<0.001		<1	15	97	5	44
29726	27.08	28.08	1.00		89	-0.11		<0.001		<1	<5	120	66	96
29727	28.08	29.08	1.00		88	-0.12		<0.001		<1	15	130	57	120
29728	29.08	30.08	1.00		97	-0.03		<0.001		<1	900	120	10	50
29729	30.08	31.08	1.00		100	0.00		0.002		<1	100	130	4	38
29730	31.08	32.08	1.00		94	-0.06		<0.001		<1	20	110	2	38
29731	32.08	33.08	1.00		94	-0.06		<0.001		<1	15	130	2	34
29732	33.08	33.68	0.60		100	0.00		<0.001		<1	10	57	11	36
29733	33.68	34.67	0.99		95	-0.05		<0.001		<1	<5	210	3	43
29734	34.67	36.02	1.35		104	+0.04		<0.001		<1	15	94	3	37
29735	36.02	37.37	1.35		96	-0.05		<0.001		<1	15	75	3	28
29736	37.37	38.82	1.45		100	0.00		<0.001		<1	15	82	3	38

Keewatin Engineering Inc. | DRILL LOG | Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
29737	38.82	39.71	0.89		98	-0.02		<0.001		<1	10	66	5	36
29738	39.71	41.00	1.29		97	-0.04		<0.001		<1	25	140	6	36
29739	41.00	42.72	1.72		95	-0.08		<0.001		<1	5	70	4	25
29740	42.72	44.72	2.00		100	0.00		<0.001		<1	<5	80	3	44
29741	44.72	45.85	1.13		97	-0.03		<0.001		<1	15	36	5	26
29742	45.85	46.90	1.05		99	-0.01		<0.001		<1	5	100	6	30
29743	46.90	48.90	2.00		100	0.00		<0.001		<1	10	190	8	33
29744	48.90	50.90	2.00		98	-0.04		0.002		<1	20	290	6	32
29745	50.90	53.01	2.11		100	0.00		<0.001		<1	15	95	4	29
29746	53.01	55.01	2.00		96	-0.07		<0.001		<1	15	140	7	16
29747	55.01	57.01	2.00		100	0.00		<0.001		<1	<5	110	4	26
29748	57.01	59.01	2.00		97	-0.06		<0.001		<1	<5	62	8	30
29749	59.01	61.01	2.00		98	-0.04		<0.001		<1	10	100	6	32
29750	61.01	63.01	2.00		100	0.00		<0.001		<1	15	230	5	28
29751	63.01	65.01	2.00		98	-0.03		0.004		<1	15	340	6	28
29752	65.01	67.00	1.99		99	-0.02		0.003		<1	15	130	12	42
30023	67.00	68.59	1.59		92	-0.12		<0.001		<1	75	68	10	55
30024	68.59	69.80	1.21		99	-0.01		<0.001		<1	40	75	69	840
30025	69.80	71.11	1.31		92	-0.10		<0.001		<1	<5	29	17	110
30026	71.11	72.11	1.00		93	-0.07		<0.001		<1	<5	11	9	54
30027	72.11	73.11	1.00		91	-0.09		<0.001		<1	5	19	2	19
30028	73.11	74.11	1.00		100	0.00		<0.001		<1	<5	25	1	13
30029	74.11	75.11	1.00		100	0.00		<0.001		<1	<5	19	<1	14
30030	75.11	76.82	1.71		98	-0.04		<0.001		<1	5	5	2	12
30031	76.82	78.63	1.81		99	-0.01		<0.001		<1	<5	76	3	19
30032	78.63	80.44	1.81		97	-0.06		<0.001		<1	<5	41	3	13
30033	80.44	82.25	1.81		98	-0.03		<0.001		<1	<5	46	2	17
30034	82.25	84.06	1.81		100	0.00		<0.001		<1	<5	100	2	16
30035	84.06	85.87	1.81		98	-0.04		<0.001		<1	<5	9	<1	23
30036	85.87	87.68	1.81		98	-0.03		<0.001		<1	<5	2	<1	26

Keewatin Engineering Inc.

DRILL LOG

Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		oz/t Au	oz/t Ag	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
30037	87.68	88.66	0.98		98	-0.02		<0.001		<1	120	29	<1	28
30038	88.66	90.32	1.66		97	-0.05		<0.001		<1	45	37	2	25
30039	90.32	91.99	1.67		98	-0.04		<0.001		<1	<5	65	1	27
30040	91.99	93.70	1.71		102	+0.03		<0.001		<1	<5	140	7	32
30041	93.70	95.41	1.71		97	-0.05		0.006		<1	10	21	3	24
30042	95.41	97.12	1.71		102	+0.03		<0.001		<1	<5	440	94	740
30043	97.12	98.83	1.71		100	0.00		<0.001		<1	<5	65	5	59
30044	98.83	100.58	1.75		100	0.00		<0.001		<1	<5	60	<1	30

DRILL HOLE NO. I90-10

LOCATION: GREGOR ZONE, 50m DUE 324° FROM I90-10 COLLAR

DRILL HOLE LOG

HOLE NO. I90-11 | PAGE NO. 1 of 7

AZIM: 144°
DIP: -90°

ELEV: ~348m
LENGTH: 63.40m (208 ft.)

CORE SIZE: BQ

DIP TEST

METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.

PROPERTY: ISKUT J.V.

CLAIM NO: ISK 1
SECTION:

STARTED: October 31, 1990
COMPLETED: October 31, 1990
PURPOSE: Test of Downdip extension of mineralized Tuff Breccia present in I90-10

LOGGED BY: R. HONSINGER
DATE LOGGED: November 1, 1990
DRILLING CO: FALCON DRILLING
ASSAYED BY: MIN-EN

CORE RECOVERY: 99.75%

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au opt	Ag ppm	As ppm	Pb ppm	Zn ppm
0.00	1.52	Casing - overburden										
1.52	12.59	Greywacke with Minor Tuffaceous Interbeds	37501	1.52	3.10	1.58	7		6.0	1	20	134
		- brownish grey										
		- medium to fine grained greywacke, tuff interbeds very fine grained, ash tuff	37502	3.10	4.68	1.58	97		11.1	1	12	76
		- moderate biotite alteration										
		- local breccia due to carbonate veinlet flooding	37503	4.68	6.26	1.58	20		3.7	1	2	131
		- crosscut by abundant carbonate >>quartz veinlets, 1-8mm thick, 70° and random	37504	6.26	7.84	1.58	23		6.0	1	11	75
		- oxidized fracture filling from 1.52-5.02m										
		- local gossanous fracture filling with 2-3mm chalcopyrite, blebs to 5.02m	37505	7.84	9.42	1.58	16		3.0	1	15	65
		- lower contact gradational										
		- overall 1-2% disseminated pyrrhotite, <1 to 1% chalcopyrite, 1% pyrite, trace arsenopyrite	37506	9.42	11.00	1.58	5		4.2	1	192	1113
		6.38-6.73m - sheared breccia carbonate flooded section with 2% disseminated pyrite	37507	11.00	12.59	1.59	10		2.7	1	3	151
		8.56-8.84m - sheared mylonitic carbonate flooded with 2% disseminated pyrrhotite, 1% chalcopyrite, <1% pyrite										
12.59	18.78	Carbonate Flooded Greywacke with Ash Tuff Interbeds	37508	12.59	14.14	1.55	1		4.0	1	29	128
		- brown to greenish grey										
		- medium grained greywacke, fine grained ash tuff										
		- moderate biotite alteration, lesser chlorite	37509	14.14	15.69	1.55	1		1.8	1	9	91
		- 15-20% carbonate as 1-10mm wide veinlets, generally 60-75° and random stockworking, calcite >>> quartz	37510	15.69	17.24	1.55	23		9.8	507	966	1003
		- local sections sheared, mylonitic										
		- same unit as 1.52-12.59 but with increased carbonate veinlets	37511	17.24	18.78	1.54	10		3.6	118	191	287

2nd phase total = 949 ft. or 289.25m

KEEWATIN ENGINEERING INC.

DRILL HOLE LOG

HOLE NO. I90-11 | PAGE 2 OF 7

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au opt	Ag ppm	As ppm	Cu ppm	Zn ppm
12.59	18.78 Cont.	- overall, 1% pyrite, 1% chalcopyrite, 1% pyrrhotite 15.31-15.69m - sheared, mylonitic, siliceous carbonate flooded with 2-3% chalcopyrite, 2% pyrrhotite, 1% pyrite as blebs and stringers 17.78-18.29m - sheared calcite flooded zone with 1-2% pyrite, 1% chalcopyrite, 1% pyrrhotite 17.31-17.75m - fine grained, dark brown tuffaceous interbed at 70° - lower contact gradational, marked by reduced density of calcite veinlets										
18.78	26.14	Greywacke with Minor Ash Tuff Fragments - brownish grey	37512	18.78	20.25	1.47	32		2.6	188	142	252
		- fine to medium grained - minor biotite alteration	37513	20.25	21.72	1.47	40		2.2	1	18	89
		- rare 2-4mm black mafic (ash tuff?) fragments	37514	21.72	23.19	1.47	94		2.4	79	66	143
		- crosscut by calcite veinlets, 1-10mm, generally 80° and random	37515	23.19	24.66	1.47	36		1.9	46	46	131
		- numerous calcite veinlets truncated, fragmented	37516	24.66	26.14	1.48	5		1.9	66	37	105
		- minor (2-3%) pyrite and pyrrhotite as fracture filling - overall, <1% to 1% pyrite, <1% to 1% pyrrhotite, trace chalcopyrite 22.60-22.73m - sheared carbonated flooded section with 2% chalcopyrite, 3-5% pyrrhotite										
26.14	30.59	Weakly Mineralized, Sheared Greywacke with Lapilli Tuff Fragments - colour variable, grey to brownish grey - medium grained, sheared, mylonitic - foliation 65°-70° - moderate biotite alteration, local sericite, chlorite - calcite veinlets throughout, 1-30mm wide, generally stockworked - breccia (due to calcite flooding) between 28.34-28.90m - lower contact gradational with lapilli tuff										
		- overall, 2-3% pyrrhotite, 1-2% pyrite, <1% to 1% chalcopyrite, trace sphalerite	37517	26.14	27.03	0.89	68		2.1	131	32	79
		26.14-26.31m - calcareous, sheared section with 6-8% pyrrhotite, 3-4% pyrite, 1% chalcopyrite	37518	27.03	27.92	0.89	28		2.3	136	110	512
			37519	27.92	28.81	0.89	41		3.1	111	525	2907
		27.10-27.41m - carbonate flooded lapilli tuff with greywacke fragments, 6-8% pyrrhotite, 3% pyrite, 1% chalcopyrite, 1% sphalerite	37531	28.81	29.70	0.89	3		2.1	83	147	1082

DRILL HOLE LOG

HOLE NO. I90-11 | PAGE 3 OF 7

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au opt	Ag ppm	As ppm	Cu ppm	Zn ppm
26.14	30.59 Cont.	29.87-30.11m - calcareous, calcite flooded section with 3% pyrrhotite, 2% chalcopyrite, <1% pyrite 30.11-30.59m - carbonate, biotite altered greywacke (?) with 1-2mm mafic pyroxene crystals with 3% disseminated pyrite, ≤1% disseminated pyrrhotite	37520	29.70	30.59	0.89	2		2.1	36	91	785
30.59	36.70	Locally Weakly Mineralized Polylithic Lapilli Tuff	37521	30.59	31.61	1.02	1		2.0	40	38	174
		- bluish grey to cream grey in carbonate flooded zones	37522	31.61	32.63	1.02	21		2.1	109	35	100
		- locally sheared, brecciated										
		- carbonatized, locally biotite, chlorite altered	37523	32.63	33.65	1.02	15		2.1	133	28	59
		- minor quartz veinlets with calcite (calcite > > quartz)										
		- crosscut by truncated discontinuous 1-5mm wide calcite veinlets	37524	33.65	34.67	1.02	1		1.7	82	17	63
		- lower contact with brown siltstone 70°	37525	34.67	35.69	1.02	2		1.7	113	24	50
		- local well developed 2x10mm radiating biotite crystals associated with 1cm wide quartz veinlets	37526	35.69	36.70	1.01	2		1.9	73	26	84
		- tuff contains 1-2mm euhedral black pyroxene crystals throughout										
		- lapilli fragments up to 4cm wide										
		- overall, 1-2% pyrrhotite, <1% pyrite, <1% chalcopyrite, trace sphalerite										
		33.57-33.68m - 11cm wide cream calcite flooded zone, (50°), <1% sulphides										
		35.66m - 2mm wide chlorite, clay gouge shear 15°										
		36.47-36.63m - sheared, calcite flooded zone with 1% pyrrhotite, <1% to 1% sphalerite										
36.70	41.88	Siltstone with Minor Ash Tuff Interbeds	37527	36.70	37.70	1.00	1		1.9	77	38	103
		- brownish grey										
		- siltstone fine to medium grained	37528	37.70	39.10	1.40	3		1.8	43	33	81
		- minor sheared texture										
		- generally silicified, carbonatized	37529	39.10	40.50	1.40	1		2.1	57	19	115
		- calcite veinlets, 1-3mm, decreasing in density with depth	37530	40.50	41.88	1.38	2		2.1	32	14	66
		- lower contact with interbedded ash tuff/siltstone gradational										
		- moderate biotite ±chlorite alteration										
		- overall, 1-2% pyrite, <1% pyrrhotite, <1% chalcopyrite mainly as fracture filling and to a lesser degree as disseminations										
		37.32-37.33m - 0.5 to 1.0cm wide calcite > > quartz veinlet with 15% pyrite, 15% pyrrhotite										

DRILL HOLE LOG

HOLE NO. I90-11 | PAGE 4 OF 7

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au opt	Ag ppm	As ppm	Cu ppm	Zn ppm
36.70	41.88 Cont.	37.47-37.49m - 2.0cm wide sugary calcite vein (30°), no visible sulphides 39.10-39.13m - 3cm wide calcite veinlet with 3% pyrrhotite, 2% pyrite (stringers) 41.49-41.59m - section of banded tuff/siltstone, 2-4mm bands (80°)										
41.88	55.54	Interbedded Tuff and Siltstone ± Greywacke - dark brown (siltstone) to bluish grey (tuff) - approximately 50% siltstone, 30% greywacke, 20% tuff - interbeds generally banded (60°) - moderate biotite alteration, minor carbonate, patchy silicification - relatively few calcite >> quartz veinlets - local (over 1-3cm) mylonitic carbonate flooded zones; 8% disseminated pyrrhotite, 3% pyrite - lower contact with silicified siltstone gradational, based on degree of silicification - overall, 1% pyrrhotite, <1% pyrite, trace chalcopyrite	37532	41.88	43.40	1.52	1		2.1	3	18	119
			37533	43.40	44.92	1.52	2		2.1	1	32	169
			37534	44.92	46.44	1.52	1		2.0	23	10	67
			37535	46.44	47.96	1.52	1		1.9	30	17	117
		44.27-44.50m - calcite flooded breccia zone, calcite tension gashes, chlorite blebs with 1% pyrrhotite	37536	47.96	49.48	1.52	2		2.1	1	7	82
			37537	49.48	51.00	1.52	1		2.0	23	14	68
		51.11-51.16m - mylonitic carbonate flooded zone with 8% disseminated pyrrhotite, 3% pyrite										
		51.29-52.25m - section of interbedded greywacke, tuff, siltstone with 2% disseminated pyrrhotite, 2% disseminated pyrite, trace arsenopyrite?, locally silicified	37538	51.00	52.54	1.54	1		2.2	15	15	68
			37539	52.54	54.04	1.50	36		1.9	35	12	55
		52.39-52.94m - sheared, silicified local breccia zone with 3% pyrrhotite, 2% pyrite disseminated and as fracture filling and along contacts of minor calcite veinlets	37540	54.04	55.54	1.50	24		2.3	1	10	75
		53.46-53.78m - sheared zone with 8% pyrrhotite, 1-2% pyrite, moderately silicified, moderately carbonatized										
55.54	62.85	Silicified Siltstone with Lesser Greywacke Interbeds - brownish grey - locally brecciated due to carbonate >> quartz flooding - completely to partly silicified, moderate biotite alteration, abundant carbonate veinlets and patchy blebs on fracture filling	37541	55.54	57.00	1.46	30		1.0	31	36	79
			37542	57.00	58.46	1.46	41		1.0	42	31	75

2nd phase total = 949 ft. or 289.25m

KEEWATIN ENGINEERING INC.

DRILL HOLE LOG

HOLE NO. I90-11 | PAGE 5 OF 7

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au opt	Ag ppm	As ppm	Cu ppm	Zn ppm
55.54	62.85 Cont.	- quartz flooding later stage, silliceous overprint and carbonate veinlets truncated by quartz veinlets (for example, at 60.35m) - mineralization pyrrhotite >> pyrite >> chalcopyrite associated with carbonate flooded zones (disseminated) and along and within calcite veinlets and as fracture filling - 60° and random - overall, 2% pyrrhotite, 1% pyrite, trace sphalerite, chalcopyrite - brecciated lower contact with lapilli tuff (approx. 70°)	37543	58.46	59.92	1.46	54		1.8	71	27	77
		56.54-56.63m - breccia, cream grey quartz flooded zone with 2% disseminated pyrrhotite, <1% disseminated pyrite	37544	59.92	61.38	1.48	16		2.0	44	22	77
		58.30-58.44m - sheared siltstone and greywacke with 8% pyrrhotite, 3% pyrite, 1% chalcopyrite, trace sphalerite 59.42-59.52m - sheared, silicified, calcite flooded greywacke (?) with 4% pyrrhotite, 2% pyrite (50°) 60.35-60.56m - 1cm wide quartz veinlet (10°) with 2% pyrrhotite, 2% pyrite, 1-2% chalcopyrite, sericitic, crosscuts calcite veinlets 61.80-62.02m - calcite flooded zone (with lesser quartz veinlets) with 3% pyrrhotite, 2% pyrite, 1% chalcopyrite, trace sphalerite?	37545	61.38	62.85	1.47	15		2.2	66	57	528
62.85	63.40	Sheared Silicified Lapilli Tuff - bluish grey to cream brownish grey - locally brecciated, generally sheared with lapilli fragments angular, elongated - fragments polylithic (variably altered/monolithic?), sizes up to 3cm - calcite content decreasing with depth, quartz content increasing - overall, 1-2% pyrrhotite, 1% pyrite, <1% chalcopyrite - END OF HOLE - 63.40m (208.0 ft)	37546	62.85	63.40	0.55	17		1.8	103	12	86

2nd phase total = 949 ft. or 289.25m

KEEWATIN ENGINEERING INC.

Keewatin Engineering Inc.					DRILL LOG			Sample Data							
SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS							
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		ppb Au	oz/t Au	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
37501	1.52	3.10	1.58		95	-0.08		7		6.0	1	33	20	134
37502	3.10	4.68	1.58		97	-0.05		97		11.1	1	219	12	76
37503	4.68	6.26	1.58		95	-0.08		20		3.7	1	552	2	131
37504	6.26	7.84	1.58		101	+0.02		23		6.0	1	208	11	75
37505	7.84	9.42	1.58		102	+0.04		16		3.0	1	357	15	65
37506	9.42	11.00	1.58		101	+0.02		5		4.2	1	164	192	1113
37507	11.00	12.59	1.59		100	0.00		10		2.7	1	339	3	151
37508	12.59	14.14	1.55		98	-0.03		1		4.0	1	76	29	128
37509	14.14	15.69	1.55		98	-0.02		1		1.8	1	105	9	91
37510	15.69	17.24	1.55		98	-0.02		23		9.8	507	272	966	1003
37511	17.24	18.78	1.54		103	+0.04		10		3.6	118	95	191	287
37512	18.78	20.25	1.47		97	-0.05		32		2.6	188	42	142	252
37513	20.25	21.72	1.47		100	0.00		40		2.2	1	32	18	89
37514	21.72	23.19	1.47		97	-0.05		94		2.4	79	54	66	143
37515	23.19	24.66	1.47		100	0.00		36		1.9	46	42	46	131
37516	24.66	26.14	1.48		100	0.00		5		1.9	66	45	37	105
37517	26.14	27.03	0.89		101	+0.01		68		2.1	131	205	32	79
37518	27.03	27.92	0.89		102	+0.02		28		2.3	136	130	110	512
37519	27.92	28.81	0.89		100	0.00		41		3.1	111	172	525	2907
37531	28.81	29.70	0.89		100	0.00		3		2.1	83	61	147	1082
37520	29.70	30.59	0.89		102	+0.02		2		2.1	36	113	91	785
37521	30.59	31.61	1.02		100	0.00		1		2.0	40	67	38	174
37522	31.61	32.63	1.02		99	-0.01		21		2.1	109	31	35	100
37523	32.63	33.65	1.02		100	0.00		15		2.1	133	27	28	59
37524	33.65	34.67	1.02		100	0.00		1		1.7	82	22	17	63
37525	34.67	35.69	1.02		99	-0.01		2		1.7	113	30	24	50
37526	35.69	36.70	1.01		95	-0.05		2		1.9	73	30	26	84
37527	36.70	37.70	1.00		101	+0.01		1		1.9	77	102	38	103
37528	37.70	39.10	1.40		100	0.00		3		1.8	43	131	33	81
37529	39.10	40.50	1.40		100	0.00		1		2.1	57	165	19	115
37530	40.50	41.88	1.38		100	0.00		2		2.1	32	126	14	66
37532	41.88	43.40	1.52		99	-0.01		1		2.1	3	114	18	119
37533	43.40	44.92	1.52		100	0.00		2		2.1	1	149	32	169
37534	44.92	46.44	1.52		99	-0.01		1		2.0	23	149	10	67
37535	46.44	47.96	1.52		97	-0.04		1		1.9	30	150	17	117

Keewatin Engineering Inc. | DRILL LOG | Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		ppb Au	oz/t Au	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
37536	47.96	49.48	1.52		100	0.00		2		2.1	1	111	7	82
37537	49.48	51.00	1.52		101	+0.02		1		2.0	23	104	14	68
37538	51.00	52.54	1.54		100	0.00		1		2.2	15	115	15	68
37539	52.54	54.04	1.50		101	+0.01		36		1.9	35	121	12	55
37540	54.04	55.54	1.50		98	-0.03		24		2.3	1	130	10	75
37541	55.54	57.00	1.46		101	+0.02		30		1.0	31	98	36	79
37542	57.00	58.46	1.46		104	+0.06		41		1.0	42	125	31	75
37543	58.46	59.92	1.46		100	0.00		54		1.8	71	137	27	77
37544	59.92	61.38	1.48		100	0.00		16		2.0	44	112	22	77
37545	61.38	62.85	1.47		99	-0.01		15		2.2	66	109	57	528
37546	62.85	63.40	0.55		100	0.00		17		1.8	103	110	12	86

DRILL HOLE NO. I90-11

DRILL HOLE LOG

HOLE NO. I90-12 | PAGE NO. 1 of 7

LOCATION: 50m due 234°, then 25m due 324° from I90-10, Gregor Zone

AZIM: 144°
DIP: -90°

ELEV: ~320m
LENGTH: 93.57m (307 ft.)
CORE SIZE: BQ

DIP TEST

METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.

PROPERTY: ISKUT J.V.
CLAIM NO: ISK1
SECTION:

STARTED: October 31, 1990
COMPLETED: November 1, 1990
PURPOSE: Test southwest extension of mineralized Tuff Breccia discovered in I90-10

LOGGED BY: R. PEGG
DATE LOGGED: November 1, 1990
DRILLING CO: FALCON DRILLING
ASSAYED BY: MIN-EN

CORE RECOVERY: 99.18%

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au oz/t	Ag ppm	As ppm	Pb ppm	Zn ppm
0.00	2.13	Casing										
2.13	16.60	Greywacke and Minor Siltstone	37601	2.13	3.63	1.50	9		1.7	1	20	92
		- medium greyish brown										
		- >moderate fractures; broken core first 20cm	37602	3.63	5.13	1.50	95		1.6	1	21	42
		- >moderate carbonate fracture filling (±minor local quartz)										
		- minor biotite alteration; fairly siliceous	37603	5.13	6.63	1.50	62		1.4	1	11	43
		- very minor chlorite fracture filling										
		- minor slips @ 28°, 40°; most 60°-70°; 2-3% pyrite fracture filling and fine grained disseminations; 1-3% pyrrhotite fracture filling and disseminations	37604	6.63	8.13	1.50	40		1.3	1	14	38
			37605	8.13	9.63	1.50	37		1.5	1	22	69
			37606	9.63	11.13	1.50	24		1.3	1	20	30
		- irregular lower contact	37607	11.13	12.63	1.50	6		1.4	1	10	32
		10.30-10.42m - fine grained patchy carbonate with the greywacke; lower contact at 70°	37608	12.63	14.13	1.50	35		1.3	1	11	32
			37609	14.13	15.63	1.50	61		1.6	1	15	34
		11.28-12.10m - broken core	37610	15.63	16.60	0.97	96		1.5	1	13	52
		15.00m - below is obvious increase in quartz fracture filling										
		15.48-15.68m - <intense carbonate fracture filling and very minor chlorite and quartz; 2-4% pyrrhotite and <1% chalcopyrite fracture filling										
16.60	22.86	Mineralized Tuff Breccia										
		- medium greyish green										
		- polylithic (green pyroxene porphyry fragments to 13cm; light green siliceous fragments to 1cm; brown biotite fragments)										
		- moderately fractured and sheared										
		- moderate carbonate (±minor quartz) fracture filling and local quartz fracture filling										
		- >minor chlorite and biotite alteration										

DRILL HOLE LOG

HOLE NO. I90-12 | PAGE 2 OF 7

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au oz/t	Ag ppm	As ppm	Pb ppm	Zn ppm
16.60	22.86 Cont.	- 5-7% pyrrhotite, 2-4% pyrite, <1% chalcopyrite, <1% arsenopyrite										
		16.60-17.37m - carbonate (±lesser quartz) flooding with minor chlorite and very minor biotite; 5% pyrrhotite, 1% pyrite, ≤1% arsenopyrite, trace chalcopyrite; arsenopyrite concentration at 16.84-17.11m as patchy fine to very fine grained disseminations	37611	16.60	17.37	0.77	1590	0.047	2.6	3553	52	26
		17.37-18.49m - sheared (65° to 75°); 5-7% pyrrhotite, 2-4% pyrite, ≤1% chalcopyrite, <moderate biotite and chlorite alteration	37612	17.37	18.69	1.32	1720	0.055	1.9	60	27	31
		18.49-18.69m - bull quartz and very minor carbonate fracture filling, only minor pyrite fracture filling; upper contact at 45°, irregular lower contact										
		18.69-22.86m - decrease in sulphides - patchy to bottom	37613	18.69	19.69	1.00	1910	0.060	2.4	108	25	12
			37614	19.69	20.69	1.00	1640	0.053	1.7	50	15	17
			37615	20.69	21.69	1.00	6460	0.212	3.8	1	23	21
			37616	21.69	22.86	1.17	387		2.5	54	28	31
22.86	25.09	Tuff Breccia to Lapilli Tuff										
		- medium greyish green	37617	22.86	23.97	1.11	700		3.9	33	12	19
		- polylithic (pyroxene porphyry fragments to 10cm; light green siliceous fragments to 2.5cm)	37618	23.97	25.09	1.12	1000	0.029	2.6	11	15	29
		- <moderate carbonate fracture filling (to 2cm wide) and patches (fine grained)										
		- >minor chlorite and biotite altered patches and bands (60°)										
		- gradational upper and lower contact; >minor feldspathic fracture filling (±sericite); 2-4% pyrrhotite, 1% pyrite fracture filling										
25.09	35.48	Interbedded Tuff and Greywacke/Siltstone	37619	25.09	26.59	1.50	92		4.2	1	2	48
		- medium to dark greenish grey	37620	26.59	28.09	1.50	219		2.3	1	2	56
		- very patchy biotite and tuffaceous sections	37621	28.09	29.59	1.50	16		1.9	1	9	72
		- moderate patchy medium grey siliceous sections	37622	29.59	31.09	1.50	10		1.9	1	3	91
		- >minor carbonate, quartz and feldspar (±sericite) fracture filling	37623	31.09	32.59	1.50	14		2.2	1	5	77
			37624	32.59	34.09	1.50	6		2.2	1	4	71
		- minor chlorite fracture filling	37625	34.09	35.48	1.39	7		1.7	1	8	57
		- fracture filling at 25° to 70°										
		- apparent increase in sediments to bottom										

DRILL HOLE LOG

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au oz/t	Ag ppm	As ppm	Pb ppm	Zn ppm
25.09	35.48 Cont.	- 2-3% pyrrhotite fracture filling and very minor disseminations, <1% pyrite, >trace chalcopyrite - gradational lower contact 31.29-31.24m - small breccia zone										
35.48	40.21	Greywacke and Minor Tuff - dark brown and minor light to medium greyish green - >moderate biotite alteration - >minor carbonate (±quartz) fracture filling - minor chlorite fracture filling - tuff/greywacke contact at 47° [narrow (largest 22cm) tuff bed] - 1-2% pyrrhotite and pyrite, >trace chalcopyrite 36.53m - patchy pyrrhotite and chalcopyrite 38.81-39.03m - tuff horizon	37626 37627 37628	35.48 37.05 38.62	37.05 38.62 40.21	1.57 1.57 1.59	16 7 14		2.4 2.4 2.1	1 1 1	6 4 8	113 72 54
40.21	57.09	Interbedded Greywacke and Siltstone - medium greyish brown colour - very minor tuff (especially at top of unit) - >moderate fractures - >moderate carbonate fracture filling and quartz - narrow dirty white to light grey silicified bands - minor chlorite alteration - minor biotite alteration (patches and bands) - banding 60° and 55° - 1-3% pyrrhotite, ≤1% pyrite, trace chalcopyrite 43.40-43.54m - greywacke with abundant fine grained patchy carbonate; banding at 60°; 10% pyrrhotite fine grained disseminations and minor patches + 2-4% pyrite fracture filling 45.06-45.16m - greywacke with abundant fine grained patchy carbonate and fracture filling; banding @ 55°; 10% fine grained disseminated pyrrhotite and minor fracture filling; 1% pyrite fracture filling and >trace chalcopyrite 45.42-45.45m - quartz-carbonate fracture filling with 3-5% pyrrhotite fracture filling and <1% pyrite 46.15-46.25m - patchy silicification and <moderate carbonate fracture filling	37629 37630 37631 37632 37633 37634 37635	40.21 41.71 43.21 44.71 46.21 47.71 49.21	41.71 43.21 44.71 46.21 47.71 49.21 50.71	1.50 1.50 1.50 1.50 1.50 1.50 1.50	10 10 13 70 16 58 72		2.1 2.0 2.4 2.4 1.9 1.8 1.9	1 1 1 1 58 51 80	6 9 25 7 19 12 21	52 56 80 81 71 67 47

DRILL HOLE LOG

HOLE NO. I90-12 | PAGE 4 OF 7

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au oz/t	Ag ppm	As ppm	Pb ppm	Zn ppm
40.21	57.09 Cont.	46.73-46.88m - light grey silicification and >minor carbonate fracture filling and patches; 3-5% pyrrhotite fracture filling and disseminations + 1-2% pyrite fracture filling										
		49.96-50.61m - >moderate carbonate fracture filling and patches, siliceous siltstone/greywacke with approximately 4cm light grey silicification; most carbonate at bottom and top of section; 3-5% pyrrhotite, 2-4% pyrite										
		55.70-55.85m - well fractured ± brecciated with <intense carbonate ±quartz and 5-7% pyrite fracture filling and ≤1% pyrrhotite fracture filling	37636	50.71	52.31	1.60	9		1.8	46	12	89
			37637	52.31	53.91	1.60	50		1.9	79	19	46
			37638	53.91	55.51	1.60	7		1.7	85	24	49
			37639	55.51	57.09	1.58	24		1.6	72	10	49
		- slip lower contact approximately 55°										
57.09	68.99	Lapilli Tuff										
		- medium greyish green	37640	57.09	58.09	1.00	174		1.6	52	13	43
		- polylithic (fragments to 5.5cm) with abundant biotite fragments down to 60.05m; siliceous siltstone and light green felsic fragments + pyroxene (altered) porphyry fragments subrounded to subangular	37641	58.09	59.09	1.00	10		1.6	53	17	46
			37642	59.09	60.09	1.00	175		1.5	17	23	56
			37643	60.09	61.09	1.00	120		1.5	55	8	68
			37644	61.09	62.09	1.00	50		1.8	84	18	67
		- very sheared appearance; minor brecciation of siliceous bands	37645	62.09	63.09	1.00	211		1.6	72	23	41
		- >minor quartz and carbonate fracture filling	37646	63.09	64.09	1.00	408		2.6	71	42	58
		- 3-5% pyrrhotite fracture filling and disseminations, 2-4% pyrite, trace chalcopyrite	37647	64.09	64.85	0.76	356		2.3	70	24	60
			37648	64.85	66.11	1.26	183		2.2	89	16	49
		57.09-58.07m - abundant biotite fragments and patchy siliceous greywacke/siltstone	37649	66.11	67.55	1.44	256		2.0	64	35	47
			37650	67.55	68.99	1.44	362		1.8	54	16	39
		58.07-58.30m - crystal tuff										
		59.34-59.41m - bull quartz fracture filling with 1-3% pyrrhotite and <1% pyrite; upper contact 50°; lower contact 55°										
		60.05-60.09m - quartz ±carbonate and feldspar fracture filling (70°-90°); below this the tuff has abundant fragments and exhibits numerous pyroxene (chloritic) porphyry fragments and several areas of patchy sulphides										
		61.81-61.93m - quartz-carbonate fracture filling and minor chlorite/biotite and very minor sericite at 40°										
		64.85-66.11m - increase in brown siliceous and biotite altered sediment fragments										
		- lower contact is carbonate fractured (50°)										

DRILL HOLE LOG

HOLE NO. I90-12 | PAGE 5 OF 7

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au oz/t	Ag ppm	As ppm	Pb ppm	Zn ppm
68.99	93.57	Andesitic Tuff to Lapilli Tuff	37651	68.99	70.26	1.27	2700	0.077	1.7	104	14	55
		- medium greyish green	37652	70.26	71.04	0.78	256		1.9	122	24	34
		- >minor fractures and carbonate fracture filling	37653	71.04	71.80	0.76	102		1.8	101	6	58
		- >minor chlorite and patchy biotite alteration	37654	71.80	72.62	0.82	178		1.6	105	18	40
		- rare lapilli size fragments; >minor chlorite specks; trace epidote alteration	37655	72.62	74.12	1.50	36		1.5	108	12	49
		- 2-3% pyrrhotite, 2-3% pyrite, >trace chalcopyrite, trace sphalerite	37656	74.12	75.62	1.50	3		1.6	124	15	56
			37657	75.62	77.12	1.50	2		1.5	57	7	53
		70.26-71.04m - 7-10% pyrrhotite disseminations and fracture filling, 1-3% pyrite fracture filling and patches, <1% chalcopyrite, >trace sphalerite	37658	77.12	78.62	1.50	149		1.5	98	16	227
			37659	78.62	80.12	1.50	100		1.7	146	26	170
		71.80-72.62m - 5-7% pyrrhotite, 3-5% pyrite, <1% chalcopyrite										
		77.78m - 2.5cm wide biotite (±chlorite) -carbonate fracture filling with minor pyrrhotite and pyrite at 38°										
		80.48-80.55m - carbonate-quartz fracture filling (60°-65°)										
		80.55-80.76m - abundant biotite + 7-12% fine grained pyrrhotite										
		- below 81.62m more leucocratic with apparent increase in lapilli fragments and pyrite vs. pyrrhotite	37660	80.12	81.62	1.50	80		1.9	172	37	114
			37661	81.62	83.12	1.50	26		1.8	121	17	46
			37662	83.12	84.62	1.50	4		1.6	99	26	58
		88.62-88.77m - 1.5cm thick carbonate-gouge-rock fragments (at 03°-05°); minor quartz, sericite, biotite and pyrite	37663	84.62	86.12	1.50	40		1.9	112	10	63
			37664	86.12	87.62	1.50	45		1.9	101	20	45
			37665	87.62	89.12	1.50	6		1.6	113	24	71
			37666	89.12	90.62	1.50	2		1.9	131	12	74
			37667	90.62	92.12	1.50	285		1.8	130	6	94
		- END OF HOLE -	37668	92.12	93.57	1.45	21		1.6	67	24	67

Keewatin Engineering Inc. | DRILL LOG | Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		ppb Au	oz/t Au	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
37601	2.13	3.63	1.50		69	-0.47		9		1.7	1	52	20	92
37602	3.63	5.13	1.50		97	-0.05		95		1.6	1	59	21	42
37603	5.13	6.63	1.50		96	-0.06		62		1.4	1	47	11	43
37604	6.63	8.13	1.50		105	+0.07		40		1.3	1	37	14	38
37605	8.13	9.63	1.50		100	0.00		37		1.5	1	54	22	69
37606	9.63	11.13	1.50		107	+0.10		24		1.3	1	47	20	30
37607	11.13	12.63	1.50		105	+0.08		6		1.4	1	56	10	32
37608	12.63	14.13	1.50		93	-0.10		35		1.3	1	37	11	32
37609	14.13	15.63	1.50		101	+0.01		61		1.6	1	74	15	34
37610	15.63	16.60	0.97		102	+0.03		96		1.5	1	82	13	52
37611	16.60	17.37	0.77		92	-0.06		1590	0.047	2.6	3553	309	52	26
37612	17.37	18.69	1.32		100	0.00		1720	0.055	1.9	60	435	27	31
37613	18.69	19.69	1.00		106	+0.06		1910	0.060	2.4	108	620	25	12
37614	19.69	20.69	1.00		100	0.00		1640	0.053	1.7	50	532	15	17
37615	20.69	21.69	1.00		93	-0.07		6460	0.212	3.8	1	339	23	21
37616	21.69	22.86	1.17		107	+0.08		387		2.5	54	452	28	31
37617	22.86	23.97	1.11		100	0.00		700		3.9	33	66	12	19
37618	23.97	25.09	1.12		100	0.00		1000	0.029	2.6	11	38	15	29
37619	25.09	26.59	1.50		106	+0.09		92		4.2	1	64	2	48
37620	26.59	28.09	1.50		100	0.00		219		2.3	1	150	2	56
37621	28.09	29.59	1.50		100	0.00		16		1.9	1	209	9	72
37622	29.59	31.09	1.50		100	0.00		10		1.9	1	199	3	91
37623	31.09	32.59	1.50		100	0.00		14		2.2	1	168	5	77
37624	32.59	34.09	1.50		99	-0.01		6		2.2	1	157	4	71
37625	34.09	35.48	1.39		94	-0.08		7		1.7	1	207	8	57
37626	35.48	37.05	1.57		97	-0.05		16		2.4	1	122	6	113
37627	37.05	38.62	1.57		104	+0.07		7		2.4	1	37	4	72
37628	38.62	40.21	1.59		102	+0.03		14		2.1	1	59	8	54
37629	40.21	41.71	1.50		102	+0.03		10		2.1	1	58	6	52
37630	41.71	43.21	1.50		100	0.00		10		2.0	1	102	9	56
37631	43.21	44.71	1.50		99	-0.02		13		2.4	1	163	25	80
37632	44.71	46.21	1.50		107	+0.11		70		2.4	1	142	7	81
37633	46.21	47.71	1.50		96	-0.06		16		1.9	58	125	19	71
37634	47.71	49.21	1.50		99	-0.02		58		1.8	51	128	12	67
37635	49.21	50.71	1.50		100	0.00		72		1.9	80	152	21	47

DRILL HOLE NO. I90-12

Keewatin Engineering Inc.					DRILL LOG									Sample Data
SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		ppb Au	oz/t Au	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
37636	50.71	52.31	1.60		102	+0.03		9		1.8	46	133	12	69
37637	52.31	53.91	1.60		99	-0.02		50		1.9	79	131	19	46
37638	53.91	55.51	1.60		100	0.00		7		1.7	85	146	24	49
37639	55.51	57.09	1.58		99	-0.02		24		1.6	72	176	10	49
37640	57.09	58.09	1.00		100	0.00		174		1.6	52	115	13	43
37641	58.09	59.09	1.00		101	+0.01		10		1.6	53	76	17	46
37642	59.09	60.09	1.00		100	0.00		175		1.5	17	53	23	56
37643	60.09	61.09	1.00		100	0.00		120		1.5	55	29	8	68
37644	61.09	62.09	1.00		96	-0.04		50		1.8	84	55	18	67
37645	62.09	63.09	1.00		101	+0.01		211		1.6	72	141	23	41
37646	63.09	64.09	1.00		100	0.00		408		2.6	71	118	42	58
37647	64.09	64.85	0.76		100	0.00		356		2.3	70	135	24	60
37648	64.85	66.11	1.26		101	+0.02		183		2.2	89	236	16	49
37649	66.11	67.55	1.44		99	-0.01		256		2.0	64	263	35	47
37650	67.55	68.99	1.44		100	0.00		362		1.8	54	293	16	39
37651	68.99	70.26	1.27		101	+0.01		2700	0.077	1.7	104	65	14	55
37652	70.26	71.04	0.78		100	0.00		256		1.9	122	460	24	34
37653	71.04	71.80	0.76		100	0.00		102		1.8	101	218	6	58
37654	71.80	72.62	0.82		94	-0.05		178		1.6	105	457	18	40
37655	72.62	74.12	1.50		98	-0.03		36		1.5	108	77	12	49
37656	74.12	75.62	1.50		100	0.00		3		1.6	124	62	15	56
37657	75.62	77.12	1.50		101	+0.02		2		1.5	57	20	7	53
37658	77.12	78.62	1.50		100	0.00		149		1.5	98	69	16	227
37659	78.62	80.12	1.50		99	-0.01		100		1.7	146	145	26	170
37660	80.12	81.62	1.50		97	-0.04		80		1.9	172	254	37	114
37661	81.62	83.12	1.50		102	+0.03		26		1.8	121	111	17	46
37662	83.12	84.62	1.50		100	0.00		4		1.6	99	62	26	58
37663	84.62	86.12	1.50		100	0.00		40		1.9	112	170	10	63
37664	86.12	87.62	1.50		101	+0.01		45		1.9	101	186	20	45
37665	87.62	89.12	1.50		98	-0.03		6		1.6	113	49	24	71
37666	89.12	90.62	1.50		100	0.00		2		1.9	131	75	12	74
37667	90.62	92.12	1.50		101	+0.02		285		1.8	130	154	6	94
37668	92.12	93.57	1.45		100	0.00		21		1.6	67	101	24	67

DRILL HOLE LOG

HOLE NO. I90-13 | PAGE NO. 1 of 7

LOCATION: 50m due 234° from I90-12 collar, Gregor Zone

AZIM: 144°
DIP: -90°

ELEV: ~304m
LENGTH: 66.14m (217 ft.)

CORE SIZE: BQ

DIP TEST

METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.

PROPERTY: ISKUT JOINT VENTURE

CLAIM NO: ISK 1
SECTION:

STARTED: November 1, 1990
COMPLETED: November 2, 1990
PURPOSE: To test southwest extension of mineralization discovered in I90-10

LOGGED BY: R. Honsinger
DATE LOGGED: November 3, 1990
DRILLING CO: FALCON
ASSAYED BY: MIN-EN

CORE RECOVERY: 95.52%

INTERVAL (m)		DESCRIPTION	SAMPLE NO.	INTERVAL (m)		LENGTH (m)	ANALYSES					
FROM	TO			FROM	TO		Au ppb	Au opt	Ag ppm	As ppm	Pb ppm	Zn ppm
0.00	3.05	Casing, Overburden.										
3.05	5.18	Lapilli Tuff - 13cm of oxidized fractured dark grey lapilli tuff rubble, pitted, limonite fractures. - very poor recovery - 6%	37551	3.05	6.17	3.13	8		1.5	22	25	80
5.18	13.17	Fractured Lapilli Tuff (Altered Siltstone?) - dark brown to cream greyish brown in siliceous sections. - fine grained with 2 - 3mm rare (10%) lapilli fragments, rounded, bleached - moderate biotite, carbonate ± silica alteration, chlorite fracture filling - limonite/ankeritic patch, fracture filling to 13.17m - completely silicified from 11.04 to 11.92m, very blocky - cross cut by 1 - 3mm quartz/carbonate veinlets throughout - approximately 60° - overall 1 - 2% pyrrhotite, <1% pyrite @ 7.92-8.10m biotite altered section with 15% disseminated pyrrhotite	37552 37553 37554 37555	6.17 7.92 9.67 11.42	7.92 9.67 11.42 13.17	1.75 1.75 1.75 1.75	7 4 5 204		1.6 1.6 1.5 1.4	20 31 37 67	27 56 29 31	80 174 91 143
13.17	14.76	Altered Lapilli Tuff - greyish brown - fine grained - biotite, chlorite, minor carbonate ± silica alteration - abundant quartz/calcite veinlets, 1mm wide and tension gashes - lower contact with sheared greywacke, lapilli tuff approximately 55°	37556	13.17	14.76	1.59	30		1.9	57	26	400

DRILL HOLE LOG

HOLE NO. I90-13 | PAGE 2 OF 7

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au opt	Ag ppm	As ppm	Pb ppm	Zn ppm
13.17	14.76 Cont.	- overall <1% pyrrhotite, 1% pyrite 13.23-13.24m 1cm wide section of fracture filling pyrite 10%, 2% pyrrhotite 14.02-14.10m siliceous sections with 15% pyrite, 2% pyrrhotite										
14.76	18.07	Sheared Lapilli Tuff/Ash Tuff - brownish to bluish grey - lapilli fragments range in size from 2 to 10mm - sheared sections calcite flooded - shearing direction 0 - 10° to Core Axis - lower contact gradational, chlorite fracture filling (40°) - overall 4% pyrrhotite, 1% pyrite, <1% chalcopyrite 17.08-17.74m calcite flooded zone with 10% pyrrhotite, 2% pyrite, 1% chalcopyrite	37557 37558	14.76 16.41	16.41 18.07	1.65 1.66	10 2		2.2 2.3	48 51	31 91	675 241
18.07	23.28	Lapilli Tuff with Ash Tuff Interbeds - greenish grey to bluish grey - 1 - 4mm lapilli fragments - moderate biotite alteration, mildly carbonatized - mainly lapilli tuff from 18.07 - 19.47m with 5% pyrrhotite, <1 to 1% pyrite, chalcopyrite associated with quartz veining, locally over 2cm, 20% pyrrhotite - from 19.47 to 23.28m dominantly coarse ash tuff with lesser lapilli tuff interbeds - lower contact gradational - overall 1% pyrrhotite, <1% pyrite, trace chalcopyrite 20.87-21.22m quartz calcite flooded zone with 3% pyrrhotite, 1% chalcopyrite, 1% pyrite, trace sphalerite?	37559 37560 37561 37562	18.07 19.47 20.87 22.28	19.47 20.87 22.28 23.28	1.40 1.40 1.41 1.00	50 2 3 2		2.3 1.6 1.6 1.6	61 55 13 21	68 15 23 11	103 82 75 96
23.28	29.33	Mineralized Polylithic Lapilli Tuff - greenish to bluish grey to brown variably chlorite, biotite altered - greywacke interbeds, generally biotitic medium brown in colour in contrast with greenish blue chlorite lapilli tuff - relative low density overall of cross cutting quartz/calcite veinlets - greywacke interbeds generally 0.5cm wide, found within sheared zones (30 - 70°) - scattered semi-massive sulphide sections 1 to 4cm wide, 60% pyrrhotite, 5% pyrite, <1% chalcopyrite	37563 37564 37565 37566 37567 37568	23.28 24.28 25.28 26.28 27.28 28.28	24.28 25.28 26.28 27.28 28.28 29.33	1.00 1.00 1.00 1.00 1.00 1.05	136 132 138 57 70 116		2.5 3.2 2.2 2.2 2.2 1.8	131 144 333 183 164 141	46 107 59 37 38 39	83 84 106 56 39 48

DRILL HOLE LOG

HOLE NO. I90-13 | PAGE 3 OF 7

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au opt	Ag ppm	As ppm	Pb ppm	Zn ppm
23.28	29.33 Cont.	- lower contact gradational, based on overall decrease in sulphide contact - overall 8% pyrrhotite, 3% pyrite, 1% chalcopyrite, trace sphalerite 23.47-23.70m *semi-massive* pyrrhotite 25%, with 2% pyrite, trace sphalerite 24.18-24.78m calcite flooded interbedded sheared biotite altered greywacke + silica/chlorite altered lapilli tuff with 20% pyrrhotite, 4% pyrite, 2% chalcopyrite, trace sphalerite? 25.09-25.21m semi-massive pyrrhotite 30%, 1% pyrite 27.50-28.87m section to sheared interbedded biotite altered greywacke and chlorite altered lapilli tuff with 8% pyrrhotite, 2% pyrite, trace sphalerite (< 1% chalcopyrite)									
29.33	33.86	Lapilli Tuff with Patchy Mineralized Zones - bluish green minor interbeds of brown greywacke - contains characteristic 1 - 3mm mafic euhedral fragments of pyroxene - chlorite (minor) fracture filling - patchy calcite fracture filling and occasional 2mm calcite >> quartz veinlets - patchy zones up to 10cm wide with up to 15% pyrrhotite, 5% pyrite, 2% chalcopyrite - lower contact 60° with biotite altered greywacke - overall 4% pyrrhotite, 2% pyrite, < 1% chalcopyrite, trace sphalerite 30.30-30.41m section with 10% pyrrhotite, 8% pyrite 31.91-32.07m section with patchy blebs of 8% pyrrhotite, 8% pyrite 32.76-32.85m semi-massive sulphides section 30% pyrite, 15% pyrrhotite	37569 37570 37571	29.33 30.84 32.35	30.84 32.35 33.86	1.51 1.51 1.51	46 81 58		1.3 1.7 1.5	120 126 108	14 26 40	37 30 40
33.86	38.38	Calcite Flooded Sheared Greywacke - mottled cream white and brown - sheared, locally brecciated - carbonatized, biotite altered, chlorite fracture filling - calcite flooded zones up to 65cm wide, generally mylonitic - greywacke with minor siltstone banding 60°	37572 37573 37574	33.86 35.36 36.86	35.36 36.86 38.38	1.50 1.50 1.52	123 112 355		2.4 3.2 3.3	384 280 67	38 276 59	111 316 2259

DRILL HOLE LOG

HOLE NO. I90-13 | PAGE 4 OF 7

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au opt	Ag ppm	As ppm	Pb ppm	Zn ppm
33.86	38.38 Cont.	- local patchy blebs up to 2cm of semi-massive pyrrhotite >>pyrite. Overall 2% pyrrhotite, 1% pyrite - lower contact with greywacke 60° 35.31-35.95m calcite flooded zone, brecciated, mylonitic with 6% pyrrhotite, 2% pyrite as patchy blebs up to 2cm wide 35.95-36.86m relatively little calcite in biotite altered greywacke, 1% pyrrhotite/pyrite 36.86-36.96m 80% carbonate, <1% pyrrhotite, <1% pyrite, trace sphalerite										
38.38	40.15	Greywacke - light brown - medium grained - moderate biotite alteration - minor banding dark and light brown bands (fine grained - medium grained) - rare, 1mm wide calcite veinlets - lower contact with silicified greywacke/siltstone marked by 1cm wide quartz vein 65° - overall 2% pyrrhotite (disseminated), 1% pyrite and 1% chalcopyrite as blebby fracture filling	37575	38.38	40.15	1.77	42		1.4	67	54	530
40.15	48.23	Silicified Interbedded Siltstone and Lesser Greywacke - dark brown - massive, fine gained - completely silicified (overprint) biotite alteration, sericitic fracture filling (locally) - cross cut by quartz calcite veinlets, 1 - 2mm wide, 60° and random - patchy blebs of pyrite, pyrrhotite and as scattered fracture filling - lower contact gradational - overall 2% pyrrhotite, <1% pyrite, trace chalcopyrite 43.28-43.57m section with 10% pyrite, 3% pyrrhotite, trace sphalerite 46.74-46.86m section with 8% pyrite, 2% pyrrhotite as stringers and blebs	37576 37577 37578 37579 37580	40.15 41.65 43.29 44.93 46.57	41.65 43.29 44.93 46.57 48.23	1.50 1.64 1.64 1.64 1.66	43 44 60 45 62		1.6 2.1 1.9 1.8 1.9	44 21 75 45 91	43 42 30 34 20	119 124 67 73 97

DRILL HOLE LOG

HOLE NO. I90-13 | PAGE 5 OF 7

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au opt	Ag ppm	As ppm	Pb ppm	Zn ppm
48.23	53.78	Locally Sheared Brecciated Greywacke (Biotite Altered)	37581	48.23	50.08	1.85	100		1.7	54	20	119
		- light to medium brown	37582	50.08	51.93	1.85	27		1.8	67	5	110
		- medium grained	37583	51.93	53.78	1.85	20		1.7	30	22	69
		- biotite altered, moderately silicified										
		- cross cut by abundant calcite > > quartz 1 - 3mm wide veinlets										
		- brecciation, shearing increasing in intensity with depth										
		- lower contact with lapilli tuff gradational										
		- with increase in brecciation, minor patchy blebs of pyrrhotite > pyrite > > chalcopyrite										
		- overall 2% pyrrhotite, 1% pyrite, trace chalcopyrite										
		52.18-53.78m brecciation increases steadily in intensity, minor patches of pyrrhotite, pyrite, overall 3% pyrrhotite, 1% pyrite										
		52.75-52.80m chlorite calcite veinlet, 1% pyrite, 50°										
53.78	66.14	Sheared, Altered Lapilli Tuff	37584	53.78	55.33	1.55	15		1.9	3	14	69
		- mottled bluish greenish grey	37585	55.33	56.88	1.55	5		1.6	83	17	50
		- polylithic	37586	56.88	58.43	1.55	15		1.5	57	27	41
		- locally mylonitic	37587	58.43	59.98	1.55	16		1.5	89	26	41
		- moderate biotite alteration to 56.20m	37588	59.98	61.53	1.55	56		1.6	81	5	42
		- rare cross cutting calcite/quartz veinlets	37589	61.53	63.08	1.55	62		1.5	72	28	45
		- chlorite + biotite altered fracture filling	37590	63.08	64.63	1.55	77		1.8	51	20	48
		- ubiquitous 1 - 2mm black mafic (pyroxene) fragments scattered throughout	37591	64.63	66.14	1.51	99		1.6	109	20	47
		- fragment size increased dramatically to near tuff breccia proportions after 63.53m										
		- moderately well mineralized between 56.20 - 61.30m (after biotite section) with 3 - 4% pyrite, 1% pyrrhotite										
		56.20-56.24m quartz veinlet 90° to Core Axis										
		- overall 2% pyrite, <1% to 1% pyrrhotite										
		EOH 66.14m (217 ft.)										

Keewatin Engineering Inc. | DRILL LOG | Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		ppb Au	oz/t Au	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
37551	3.05	6.17	3.13		35	-2.05		8		1.5	22	45	25	80
37552	6.17	7.92	1.75		73	-0.48		7		1.6	20	55	27	80
37553	7.92	9.67	1.75		101	+0.01		4		1.6	31	72	56	174
37554	9.67	11.42	1.75		87	-0.22		5		1.5	37	49	29	91
37555	11.42	13.17	1.75		102	+0.02		204		1.4	67	53	31	143
37556	13.17	14.76	1.59		101	+0.01		30		1.9	57	86	26	400
37557	14.76	16.41	1.65		99	-0.01		10		2.2	48	179	31	675
37558	16.41	18.07	1.66		100	0.00		2		2.3	51	135	91	241
37559	18.07	19.47	1.40		101	+0.02		50		2.3	61	257	68	103
37560	19.47	20.87	1.40		100	0.00		2		1.6	55	42	15	82
37561	20.87	22.28	1.41		99	-0.02		3		1.6	13	24	23	75
37562	22.28	23.28	1.00		100	0.00		2		1.6	21	29	11	96
37563	23.28	24.28	1.00		100	0.00		136		2.5	131	726	46	83
37564	24.28	25.28	1.00		99	-0.01		132		3.2	144	813	107	84
37565	25.28	26.28	1.00		101	+0.01		138		2.2	333	351	59	106
37566	26.28	27.28	1.00		98	-0.02		57		2.2	183	361	37	56
37567	27.28	28.28	1.00		100	0.00		70		2.2	164	627	38	39
37568	28.33	29.33	1.05		99	-0.01		116		1.8	141	619	39	48
37569	29.33	30.84	1.51		97	-0.04		46		1.3	120	320	14	37
37570	30.84	32.35	1.51		96	-0.06		81		1.7	126	502	26	30
37571	32.35	33.86	1.51		100	0.00		58		1.5	108	282	40	40
37572	33.86	35.36	1.50		98	-0.03		123		2.4	384	125	38	111
37573	35.36	36.86	1.50		100	0.00		112		3.2	280	111	276	316
37574	36.86	38.38	1.52		99	-0.02		355		3.3	67	89	59	2259
37575	38.38	40.15	1.77		100	0.00		42		1.4	67	237	54	530
37576	40.15	41.65	1.50		103	+0.04		43		1.6	44	171	43	119
37577	41.65	43.29	1.64		100	0.00		44		2.1	21	196	42	124
37578	43.29	44.93	1.64		96	-0.06		60		1.9	75	229	30	67
37579	44.93	46.57	1.64		102	+0.02		45		1.8	45	149	34	73
37580	46.57	48.23	1.66		99	-0.01		62		1.9	91	184	20	97
37581	48.23	50.08	1.85		102	+0.03		100		1.7	54	156	20	119
37582	50.08	51.93	1.85		100	0.00		27		1.8	67	119	5	110
37583	51.93	53.78	1.85		98	-0.04		20		1.7	30	71	22	69
37584	53.78	55.33	1.55		98	-0.03		15		1.9	3	59	14	69
37585	55.33	56.88	1.55		100	0.00		5		1.6	83	65	17	50

DRILL HOLE NO. 190-13

Keewatin Engineering Inc. | DRILL LOG | Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		ppb Au	oz/t Au	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
37586	56.88	58.43	1.55		103	+0.05		15		1.5	57	102	27	41
37587	58.43	59.98	1.55		98	-0.03		16		1.5	89	153	26	41
37588	59.98	61.53	1.55		100	0.00		56		1.6	81	212	5	42
37589	61.53	63.08	1.55		99	-0.01		62		1.5	72	94	28	45
37590	63.08	64.63	1.55		100	0.00		77		1.8	51	78	20	48
37591	64.63	66.14	1.51		99	-0.02		99		1.6	109	97	20	47

DRILL HOLE NO. I90-13

DRILL HOLE LOG

LOCATION: 66M due 54°, then 47m due 144° from I90-11, Gregor Zone

HOLE NO. I90-14 | PAGE NO. 1 of 7

AZIM: 144°
DIP: -90°
ELEV: ~357m
LENGTH: 66.14m (217 ft.)
CORE SIZE: BQ

DIP TEST

METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.

PROPERTY: ISKUT J.V.
CLAIM NO: ISK 1
SECTION:

STARTED: November 2, 1990
COMPLETED: November 3, 1990
PURPOSE: Test of northeast extension of mineralized tuff breccia discovered in I90-11

LOGGED BY: R. Pegg, R. Honsinger
DATE LOGGED: November 3 & 4, 1990
DRILLING CO: FALCON
ASSAYED BY: MIN-EN

CORE RECOVERY: 93.68%

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au oz/t	Ag ppm	As ppm	Pb ppm	Zn ppm
0.00	4.27	Casing										
4.27	5.18	Greywacke - broken core.	37701	4.27	5.18	0.91	2		1.8	59	38	167
5.18	6.65	Silicified Greywacke - light grey to brownish grey to greenish grey colour - > moderate fracturing - < moderate carbonate fracture filling and fine grained patches - variably silicified (narrow sections fairly biotitic) - 1 - 2% pyrite, <1% pyrrhotite	37702	5.18	6.65	1.47	1		1.6	55	35	126
6.65	14.16	Greywacke - light to medium greyish-brown - >moderate fracturing + > moderate fracture filling (some intense carbonate fracture filling and patches) - < moderate biotite alteration; patchy minor silicification - minor siltstone - 3 - 5% pyrite as fine grained disseminations, fracture filling and patches, ≤1% sphalerite, <% pyrrhotite 8.76-9.38m intense carbonate (veining upper contact) 5 - 8% pyrite, 1% light to dark reddish brown wispy sphalerite 10.12-10.80m broken core 11.28-11.98m variably sheared core (40°) >> moderate carbonate patches and fracture filling, 10 - 15% pyrite, 1 - 2% red-light brown wispy sphalerite, <1% pyrrhotite lower contact (50°) band of semi-massive sulphides 13cm wide	37703	6.65	8.15	1.50	15		2.1	87	137	1232
			37704	8.15	9.65	1.50	2		2.4	140	128	1946
			37705	9.65	11.28	1.63	2		1.9	81	48	231
			37706	11.28	12.72	1.44	22		2.5	64	161	3758
			37707	12.72	14.16	1.44	5		1.8	20	34	273

DRILL HOLE LOG

HOLE NO. I90-14 | PAGE 2 OF 7

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au oz/t	Ag ppm	As ppm	Pb ppm	Zn ppm
6.65	14.16 Cont.	13.89-14.16m light greyish green silicified greywacke with > minor carbonate fracture filling with low angle fractures										
14.16	18.08	Sheared and Mineralized Lapilli Tuff	37708	14.16	15.16	1.00	15		2.7	65	46	87
		- dark greyish green	37709	15.16	16.16	1.00	2		2.4	69	32	58
		- > moderate fractures and sheared	37710	16.16	17.16	1.00	1		2.2	121	28	56
		- >> minor local chlorite alteration	37711	17.16	18.08	0.92	64		2.2	60	16	54
		- > minor biotite patches and fracture filling (55°) < moderate carbonate (± quartz) fracture filling, trace epidote										
		- 5 - 7% pyrite, 5 - 7% pyrrhotite, <1% magnetite, trace chalcopyrite, sphalerite (?)										
		- below 16.40m increasing in pyrrhotite versus pyrite										
		- can see pyroxene phenocrysts (altered); largest identifiable fragment is 2cm										
		15.75-15.93m 3 - 5% disseminated magnetite										
		16.98-17.50m < intense carbonate and biotite with 10 - 15% pyrrhotite and 7 - 10% pyrite										
18.08	23.84	Altered Lapilli Tuff	37712	18.08	20.13	2.05	3		1.8	52	14	58
		- light to medium brownish green	37713	20.13	21.98	1.85	74		1.8	52	27	61
		- polylithic (light greyish green fragments to 2cm)	37714	21.98	23.84	1.86	62		2.0	90	17	57
		- > minor carbonate ± quartz fracture filling										
		- < moderate patchy biotite alteration										
		- much broken core										
		- lower contact at 60°										
		2 - 3% pyrite, ≤1% pyrrhotite, > trace sphalerite										
		18.49-20.24m broken core										
		- much scattered broken core below										
		- several low angle shears										
		23.18-23.84m 7 - 10% pyrite concentrated in bands (50°)										
23.84	32.37	Siltstone	37715	23.84	25.34	1.50	100		1.8	7	17	95
		- light to medium greyish brown	37716	25.34	26.84	1.50	8		1.7	41	18	58
		- abundant broken core, well fractured, <moderate carbonate (± quartz) fracture filling ± biotite	37717	26.84	28.34	1.50	2		1.4	32	25	43
			37718	28.34	29.84	1.50	70		1.8	59	35	53
		- minor greywacke	37719	29.84	31.34	1.50	25		1.8	31	21	55
		- siliceous + minor silicified patches	37720	31.34	32.37	1.03	85		1.8	69	17	55
		- sulphide rich bands (60°), 3-5% very fine grained - fine grained disseminated + minor fracture filling pyrite, <1% pyrrhotite										

DRILL HOLE LOG

HOLE NO. I90-14 | PAGE 3 OF 7

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au oz/t	Ag ppm	As ppm	Pb ppm	Zn ppm
32.37	44.54	Interbedded Siltstone and Sheared Altered Lapilli Tuff	37721	32.37	33.89	1.52	294		3.7	72	1121	317
		- Colour variable, siltstone light to medium greyish brown, altered lapilli tuff light brown to greenish grey	37722	33.89	35.41	1.52	48		1.6	84	39	79
		- sheared texture, elongate lapilli fragments, sheared direction ~60°	37723	35.41	36.92	1.52	2		1.8	101	22	81
		- moderate biotite altered, abundant patchy calcite blebs (fracture filling)	37724	36.93	38.45	1.52	1		1.8	1	23	78
		- relatively few calcite > quartz veinlets	37725	38.45	39.97	1.52	30		2.2	2	18	70
		- lower contact with altered lapilli tuff gradational	37726	39.97	41.49	1.52	2		2.0	1	9	63
		- lapilli tuff moderately mineralized with 5% pyrite, 1-2% pyrrhotite, trace <1% sphalerite, trace galena	37727	41.49	43.01	1.52	23		2.1	14	10	59
		- siltstone generally not mineralized	37728	43.01	44.54	1.53	10		2.1	10	11	71
		- Overall 2-3% pyrite, 1% pyrrhotite, trace sphalerite, galena										
		32.37-32.77m sheared lapilli tuff with 6% pyrite, 3% pyrrhotite, trace 1% sphalerite, <1% galena										
		33.35-33.93m blocky, broken core (lapilli tuff) with <1% sulphides										
		34.80-34.88m 8cm wide quartz vein cross cutting shear direction perpendicularly (vein 65°) with trace <1% arsenopyrite along contact										
		35.00-35.77m mainly siltstone (80%) with calcite fracture filling, <1% sulphides										
		35.77-44.54m brecciated, sheared, altered, mylonitic intercalated siltstone and lapilli tuff with minor pyrite (1-2%) and pyrrhotite (1%) as fracture filling and blebs within quartz/calcite stringers										
		- minor sections (over 10cm) siliceous										
44.54	47.32	Sheared, Altered Lapilli Tuff	37729	44.54	45.93	1.39	5		2.1	62	25	57
		- mottled bluish to greenish grey	37730	45.93	47.32	1.39	2		1.9	127	14	53
		- Generally sheared, mylonitic, with sheared direction 25-35°										
		- strong biotite altered in form of 1-2mm wide stringers and fracture filling										
		- chlorite greasy fracture filling										
		- blebby calcite on fracture surfaces (brownish yellow)										
		- rare ptygmatic 3mm wide quartz>calcite veinlets										
		- calcite > quartz veinlets (1-2mm) and tension gashes scattered throughout, relatively low density										
		- lower contact with siltstone and lapilli tuff gradational										
		- sulphides (pyrite>pyrrhotite, trace sphalerite?)										

DRILL HOLE LOG

HOLE NO. I90-14 | PAGE 4 OF 7

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au oz/t	Ag ppm	As ppm	Pb ppm	Zn ppm
44.54	47.32 Cont.	associated with mylonitic zones and less often with calcite/quartz veinlets - Overall 2% pyrite, 1% pyrrhotite, trace sphalerite 45.71-45.85m calcite flooded mylonitic zone with possible 3% sphalerite disseminated in biotitic 1mm wide stringers, 3% pyrite, 1-2% pyrrhotite										
47.32	55.18	Altered Lapilli Tuff	37731	47.32	48.89	1.57	35		1.9	145	15	72
		- colour variable, mottled medium brown and greenish brown to greenish bluish grey	37732	48.89	50.46	1.57	23		2.1	115	43	1009
		- minor biotite alteration	37733	50.46	52.03	1.57	278		0.8	356	14	94
		- chlorite fracture filling, patchy silicified zones, moderate carbonate alteration	37734	52.03	53.60	1.57	241		0.8	189	2	80
		- patchy blebs of calcite on fracture filling	37735	53.60	53.60	1.58	2		1.5	79	7	60
		- rare cross cutting quartz/calcite veinlets										
		- lower contact gradational with biotite altered siltstone/greywacke										
		- fragments range in size from 2mm to 2cm, with larger 2cm fragments from 54.53 to 55.18m										
		- Overall 1% pyrite, <1% pyrrhotite, trace sphalerite										
		47.69-47.85m section with 3% pyrrhotite as 1 x 3mm elongate blebs, 30°										
		50.16-50.36m sheared, silicified, mylonitic quartz/calcite flooded zone with 3% pyrite, 2% pyrrhotite, 2% sphalerite										
		51.74-51.93m blocky, broken ground core chloritic, gougy										
		52.54-52.99m polylithic sections with 2mm fragments 90% of rocks 10% matrix, <1% sulphides										
55.18	66.14	Siliceous Interbedded Siltstone/Greywacke	37736	55.18	56.74	1.56	1		1.7	1	8	45
		- medium brown	37737	56.74	58.30	1.56	1		1.9	1	10	39
		- fine grained siltstone interbeds (ash tuff?) and medium grained greywacke	37738	58.30	59.86	1.56	6		1.7	1	5	33
		- pervasive moderate biotite alteration, locally completely silicified, elsewhere moderately siliceous	37739	59.86	61.42	1.56	5		1.9	1	15	37
		- few cross cutting quartz/calcite veinlets but abundant quartz/calcite filled tension gashes	37740	61.42	62.98	1.56	2		1.5	1	11	36
		- banding @ ~40°	37741	62.98	64.54	1.56	1		3.1	1	28	104
		- overall 2% pyrite, 1% pyrrhotite	37742	64.54	66.14	1.60	2		1.9	1	12	41
		55.21m 2cm wide quartz (42°), 2% pyrite, 2% pyrrhotite										

DRILL HOLE LOG

HOLE NO. I90-14 | PAGE 5 OF 7

INTERVAL (m) FROM	INTERVAL (m) TO	DESCRIPTION	SAMPLE NO.	INTERVAL (m) FROM	INTERVAL (m) TO	LENGTH (m)	ANALYSES Au ppb	Au oz/t	Ag ppm	As ppm	Pb ppm	Zn ppm
		59.39-59.40m pyrite>>pyrrhotite veinlet, 80% pyrite, 20% pyrrhotite (over 1cm) 63.73-63.86m sheared quartz calcite flooded zone with 8% pyrite, 2% pyrrhotite, trace sphalerite? E.O.H. 66.14m (217 ft)										

Keewatin Engineering Inc. | DRILL LOG | Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		ppb Au	oz/t Au	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
37701	4.27	5.18	0.91		59	-0.54		2		1.8	59	23	38	167
37702	5.18	6.65	1.47		100	0.00		1		1.6	55	65	35	126
37703	6.65	8.15	1.50		102	+0.04		15		2.1	87	61	137	1232
37704	8.15	9.65	1.50		100	0.00		2		2.4	140	44	128	1946
37705	9.65	11.28	1.63		98	-0.02		2		1.9	81	49	48	231
37706	11.28	12.72	1.44		98	-0.03		22		2.5	64	137	161	3758
37707	12.72	14.16	1.44		99	-0.01		5		1.8	20	82	34	273
37708	14.16	15.16	1.00		99	-0.01		15		2.7	65	449	46	87
37709	15.16	16.16	1.00		100	0.00		2		2.4	69	479	32	58
37710	16.16	17.16	1.00		100	0.00		1		2.2	121	452	28	56
37711	17.16	18.08	0.92		101	+0.01		64		2.2	60	512	16	54
37712	18.08	20.13	2.05		56	-1.15		3		1.8	52	60	14	58
37713	20.13	21.98	1.85		83	-0.31		74		1.8	52	53	27	61
37714	21.98	23.84	1.86		98	-0.04		62		2.0	90	108	17	57
37715	23.84	25.34	1.50		94	-0.09		100		1.8	7	195	17	95
37716	25.34	26.84	1.50		98	-0.04		8		1.7	41	163	18	58
37717	26.84	28.34	1.50		95	-0.07		2		1.4	32	151	25	43
37718	28.34	29.84	1.50		72	-0.42		70		1.8	59	183	35	53
37719	29.84	31.34	1.50		39	-0.91		25		1.8	31	124	21	55
37720	31.34	32.37	1.03		90	-0.10		85		1.8	69	260	17	55
37721	32.37	33.89	1.52		99	-0.02		294		3.7	72	225	1121	317
37722	33.89	35.41	1.52		98	-0.03		48		1.6	84	51	39	79
37723	35.41	36.92	1.52		100	0.00		2		1.8	101	78	22	81
37724	36.93	38.45	1.52		96	-0.06		1		1.8	1	50	23	78
37725	38.45	39.97	1.52		100	0.00		30		2.2	2	84	18	70
37726	39.97	41.49	1.52		99	-0.02		2		2.0	1	59	9	63
37727	41.49	43.01	1.52		103	+0.04		23		2.1	14	78	10	59
37728	43.01	44.54	1.53		100	0.00		10		2.1	10	73	11	71
37729	44.54	45.93	1.39		101	+0.01		5		2.1	62	133	25	57
37730	45.93	47.32	1.39		100	0.00		2		1.9	127	162	14	53
37731	47.32	48.89	1.57		102	+0.03		35		1.9	145	54	15	72
37732	48.89	50.46	1.57		100	0.00		23		2.1	115	111	43	1009
37733	50.46	52.03	1.57		97	-0.04		278		0.8	356	83	14	94
37734	52.03	53.60	1.57		89	-0.18		241		0.8	189	44	2	80
37735	53.60	53.60	1.58		101	+0.02		2		1.5	79	186	7	60

DRILL HOLE NO. 190-14

Keewatin Engineering Inc. | DRILL LOG | Sample Data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% Ore Minerals)	ASSAY RESULTS						
Number	From	To	Total Metres	Sp.Gr.	%	Amt. Lost		ppb Au	oz/t Au	ppm Ag	ppm As	ppm Cu	ppm Pb	ppm Zn
37736	55.18	56.74	1.56		92	-0.12		1		1.7	1	104	8	45
37737	56.74	58.30	1.56		101	+0.01		1		1.9	1	108	10	39
37738	58.30	59.86	1.56		99	-0.02		6		1.7	1	122	5	33
37739	59.86	61.42	1.56		100	0.00		5		1.9	1	113	15	37
37740	61.42	62.98	1.56		100	0.00		2		1.5	1	105	11	36
37741	62.98	64.54	1.56		99	-0.01		1		3.1	1	149	28	104
37742	64.54	66.14	1.60		100	0.00		2		1.9	1	127	12	41

DRILL HOLE NO. I90-14