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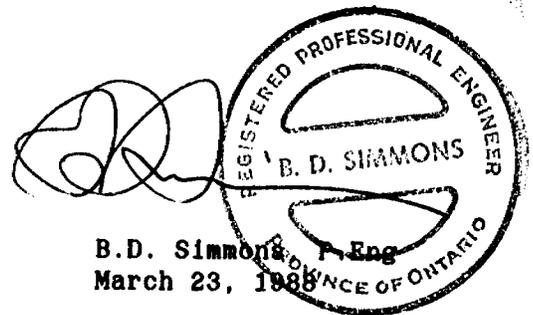


42A11SE0115 63.5127 HOYLE

010

SUMMARY REPORT - DIAMOND DRILLING
JUNE 03, 1987 TO DECEMBER 31, 1987
OWL CREEK WEST PROPERTY, HOYLE TWP., ONTARIO

OME P DESIGNATION NO. OM87-5-L-111



OM87-5-L-111

INTRODUCTION

Syngold Exploration Inc. funded a program of surface diamond drilling totalling 3,578 metres in 10 drill holes on the Owl Creek West property located in Hoyle Township, Timmins area, Ontario. The program, conducted over the period June 3, 1987 to December 31, 1987 was managed by Kidd Creek Mines Ltd. pursuant to an exploration agreement with Syngold dated February 24, 1986.

LOCATION & ACCESS

The designated area consists of the following parcels located in the southwest corner of Hoyle Township, Ontario.

Parcel 797 (2 leased claims) W1/2, N1/2, Lot 7, Con. I

Parcel 2001 (patented half-lot) N1/2, Lot 8, Con. I

The property is accessible by a private road from Kidd Creek's metallurgical plant on Highway 11 to the west side of the Owl Creek open pit, immediately adjacent to the designated area. Drill roads provide access from this point to the west.

All work documented in this report was conducted on the two leased claims.

HISTORY

There is no record of exploration activity on the property prior to 1966. During the period 1966 to 1973, Canico Ltd., the wholly-owned exploration arm of Inco Limited, conducted geophysical surveys and drilled five holes totalling 1,058 metres to test resulting anomalies. No significant mineralization was intersected.

The property was optioned by Kidd Creek Mines Ltd. in 1978. During 1984, Kidd drilled sixteen widely-spaced holes totalling 5,578 metres. Nine of these holes intersected gold values. Syngold entered an exploration agreement with Kidd on February 24, 1986 and, during 1986 and early 1987, funded a program of 14,261 metres of drilling. Results from this program, reported under previous OMEP designation OM86-5-P-121, confirmed the presence of an extensive zone of gold mineralization. Further drilling was recommended.

The program discussed in this report was initiated on June 3, 1987. An application for designation was filed with the OMEP office on June 1, 1987. The program was approved for designation on July 14, 1987 under Certificate of Designation No. OM87-5-L-111.

Pursuant to the agreement with Kidd, Syngold has now earned a 35% undivided interest in the Owl Creek West property. Subsequent expenditures will be shared with Kidd on a joint venture basis.

OBJECTIVES

The program was conducted to confirm the continuity of gold mineralization above a vertical depth of 300 metres. Individual drill holes were designed to investigate possible extensions of thicker mineralization intersected during 1986. Approximately 3,600 metres of drilling in 10 holes was planned.

PROGRAM

The program was completed as planned. A summary of the drill holes is attached as Table 1 and a summary of significant intersections as Table 2. Individual drill logs are appended to this report. Results are summarized in a section which follows.

Drilling was conducted during the period June 8, 1987 to September 4, 1987 under contract with Bradley Bros. Limited. Up to two drilling rigs were in operation. All work was supervised by personnel employed by Kidd Creek Mines Ltd. Assays were conducted by Bell-White Analytical Laboratories Ltd. Complete core from all drill holes is stored at the exploration offices of Kidd in Timmins, Ontario.

COSTS

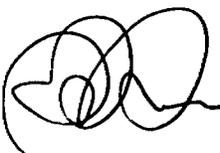
Expenditures incurred by Syngold from June 3 to December 31, 1987 were \$321,655.81. The "all-in" cost of diamond drilling was \$89.90/metre of which contractor costs were \$71.46/metre. All costs incurred are eligible as Canadian Exploration Expense and represent eligible expenditures in accordance with OMEP regulations. An auditors' report prepared by Clarkson Gordon is appended.

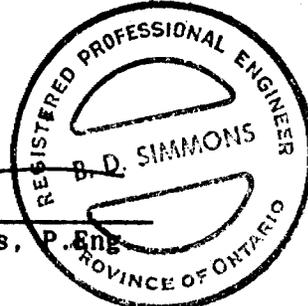
RESULTS

- 1) The zone of gold mineralization occurs within a steeply-dipping band of mafic volcanic rocks. This band of volcanics is approximately 200 metres thick, strikes east-west and is bounded by sediments to both the north and south. The mineralized zone plunges vertically and appears to be subparallel to the volcanics. Significant mineralization begins at a vertical depth of about 150 metres.
- 2) The mineralized zone is associated with intense hydrothermal alteration and quartz veining. Gold occurs mainly as fine to medium visible grains in association with pyrite, pyrrhotite and other sulphide minerals.
- 3) From 150 to 300 metres vertical depth, significant mineralization appears to be reasonably continuous over a strike length of 150 to 200 metres. Within this area, grade and thickness are variable for reasons as yet undetermined.
- 4) A limited number of intersections below 300 metre depth indicates that the mineralized zone continues to at least 600 metres vertical depth with characteristics similar to the material above 300 metres.

CONCLUSIONS

Additional drilling is definitely merited. An estimate of potential reserves will be calculated to determine whether it is appropriate at this time to consider a program of underground drilling and drifting.


B.D. Simmons, P.Eng.



REGISTERED PROFESSIONAL ENGINEER
B. D. SIMMONS
PROVINCE OF ONTARIO

TABLE 1

DIAMOND DRILL HOLE SUMMARY

<u>HOLE NO.</u>	<u>COLLAR LOC'N</u>	<u>AZIM</u>	<u>DIP</u>	<u>DEPTH</u> (m)	<u>START</u>	<u>FINISH</u>
H13-46	60W 420S	333 ⁰	-55 ⁰	461.0	08/06/87	17/06/87
H13-47	60W 340S	333 ⁰	-50 ⁰	302.0	18/06/87	23/06/87
H13-48	20W 425S	333 ⁰	-58 ⁰	412.0	25/06/87	08/07/87
H13-49	20W 395S	333 ⁰	-52 ⁰	351.0	10/07/87	17/07/87
H13-50	20E 420S	332 ⁰	-56 ⁰	397.0	23/07/87	07/08/87
H13-51	60E 440S	333 ⁰	-56 ⁰	404.0	11/08/87	25/08/87
H13-52	120E 440S	333 ⁰	-60 ⁰	450.0	12/08/87	25/08/87
H13-53	140E 330S	333 ⁰	-60 ⁰	290.0	25/08/87	31/08/87
H13-54	180E 370S	333 ⁰	-52 ⁰	271.0	26/08/87	01/09/87
H13-55	220E 330S	333 ⁰	-56 ⁰	240.0	01/09/87	04/09/87

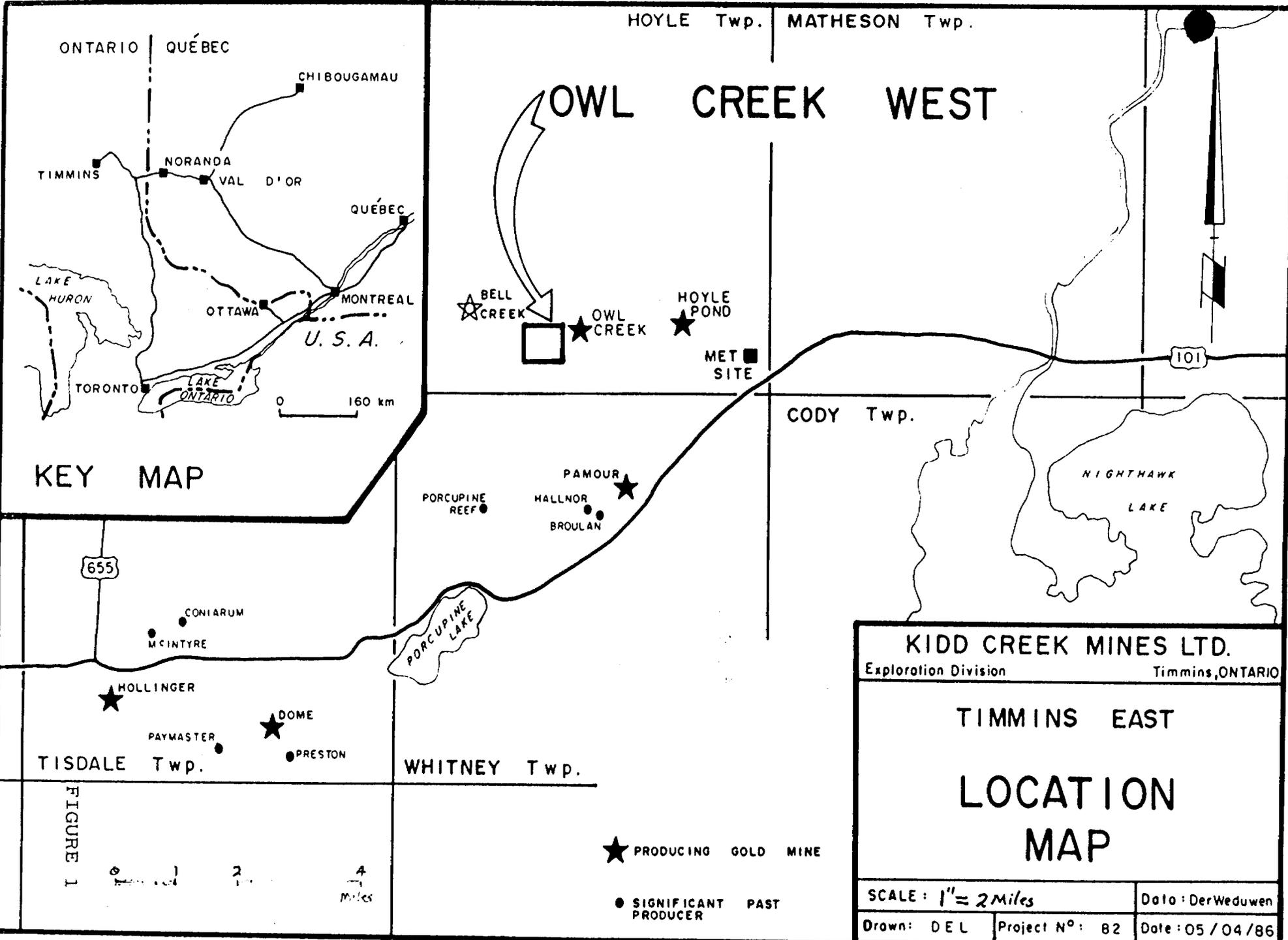
TOTAL: 10 Holes, 3,578.0 metres

H13-54	215.4 - 216.5	1.1	3.15
	254.5 - 256.0	1.5	1.65
H13-55	24.5 - 30.5	6.0	5.69
	175.0 - 178.0	3.0	4.29
	189.0 - 195.0	6.0	2.28
	200.0 - 203.0	3.0	1.17

TABLE 2

SUMMARY OF SIGNIFICANT DRILL HOLE INTERSECTIONS

<u>HOLE NO.</u>	<u>INTERVAL (m)</u>	<u>LENGTH (m)</u>	<u>AVG. ASSAY (g/tonne)</u>
H13-46	348.0 - 362.1	14.1	2.54
	incl. 348.0 - 353.0	5.0	4.55
	383.0 - 386.0	3.0	4.66
H13-47	233.0 - 240.5	7.5	4.19
H13-48	314.5 - 324.5	10.0	11.93
	incl. 314.5 - 317.0	2.5	45.10
	344.0 - 347.0	3.0	3.03
	375.5 - 383.3	7.8	1.46
H13-49	268.5 - 271.5	3.0	4.00
H13-50	295.7 - 297.9	2.2	2.62
	317.3 - 334.1	16.8	2.25
	incl. 320.1 - 323.1	3.0	6.34
	342.5 - 344.0	1.5	4.32
	359.0 - 360.5	1.5	5.14
	369.5 - 371.0	1.5	5.83
H13-51	323.0 - 324.5	1.5	7.23
	341.0 - 346.0	5.0	10.42
	392.0 - 393.5	1.5	2.67
H13-52	394.0 - 395.5	1.5	1.58
H13-53	80.0 - 81.5	1.5	4.66
	230.0 - 237.5	7.5	1.43



OWL CREEK WEST

HOYLE Twp. MATHESON Twp.

CODY Twp.

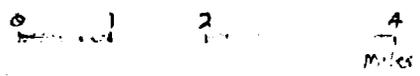
WHITNEY Twp.

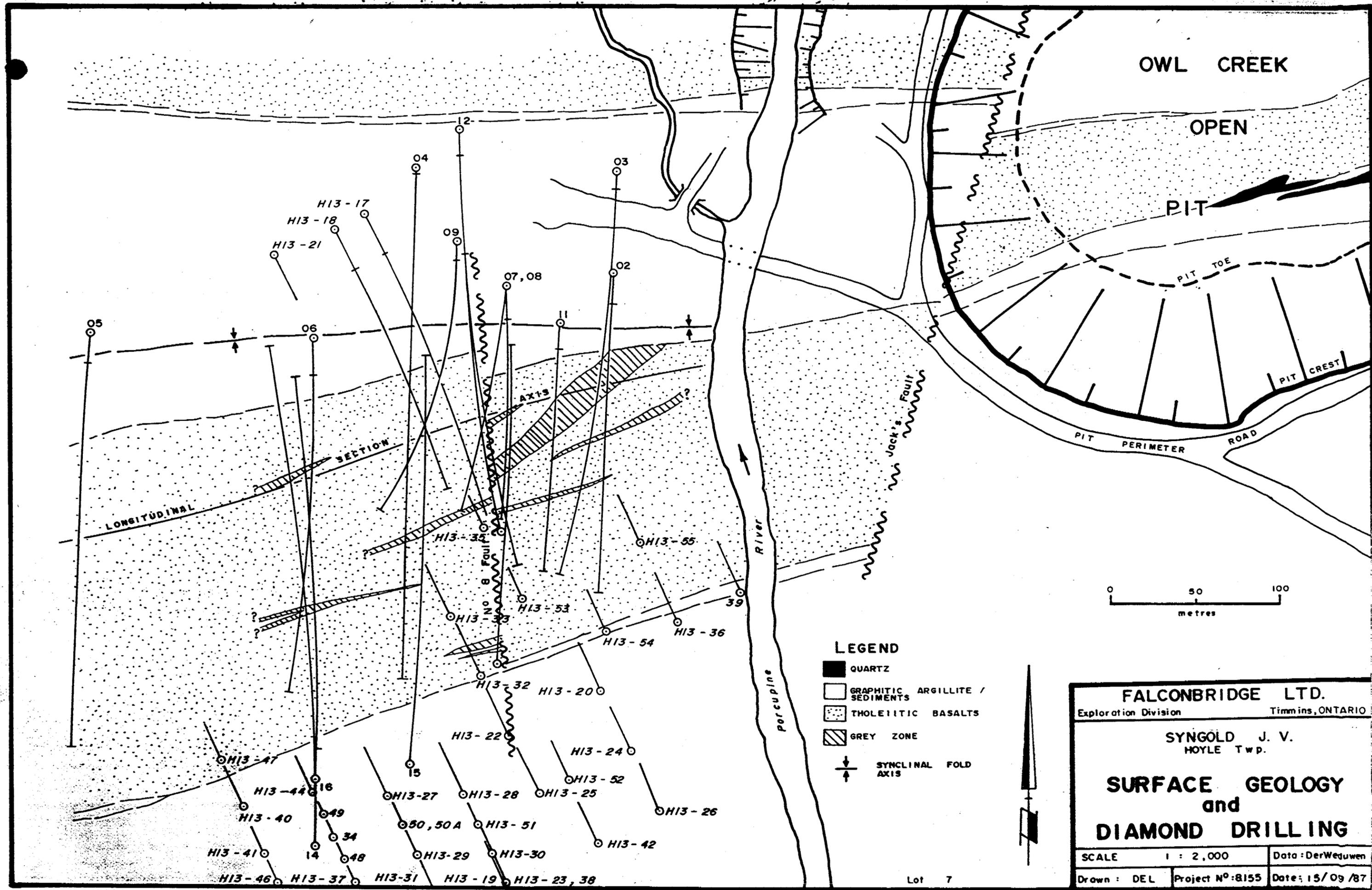
KEY MAP

KIDD CREEK MINES LTD.	
Exploration Division	Timmins, ONTARIO
TIMMINS EAST	
LOCATION	
MAP	
SCALE: 1" = 2 Miles	
Drawn: DEL	Date: DerWeduwen
Project N ^o : 82	Date: 05/04/86

- ★ PRODUCING GOLD MINE
- SIGNIFICANT PAST PRODUCER

FIGURE 1





OWL CREEK

OPEN

PIT

PIT TOE

PIT CREST

PIT PERIMETER ROAD

Porcupine River

Jack's Fault

AXIS

SECTION

LONGITUDINAL



LEGEND

- QUARTZ
- GRAPHITIC ARGILLITE / SEDIMENTS
- THOLEIITIC BASALTS
- GREY ZONE
- SYNCLINAL FOLD AXIS

FALCONBRIDGE LTD.		
Exploration Division		Timmins, ONTARIO
SYNGOLD J. V. HOYLE TWP.		
SURFACE GEOLOGY and DIAMOND DRILLING		
SCALE	1 : 2,000	Data: DerWeguwen
Drawn: DEL	Project N ^o : 8155	Date: 15/09/87

Lot 7

TL 400 S

200 S

BL 00

H13 - 39

3

2a

2.12

3.0

2b

2b

2a

1.39

1.45

1.38

9.1

4

139

LEGEND

- 4 SEDIMENTS
- 3 GRAPHITIC ARGILLITE
- 2 IRON THOLEIITIC BASALTS
 - a massive
 - b pillowed
 - c flow breccia
- 1 HIGH Mg THOLEIITIC BASALTS
 - a massive
 - b pillowed
- GREY ZONE



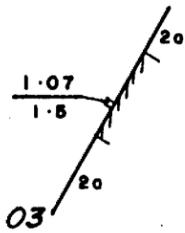
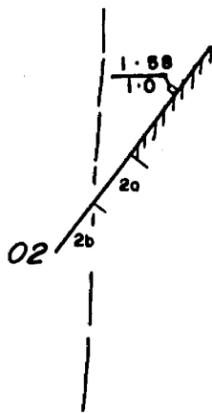
GOLD ASSAYS $\frac{\text{gram per tonne}}{\text{metres}}$

FALCONBRIDGE LTD.	
Exploration Division	Timmins, ONTARIO
SYNGOLD JV HOYLE Twp.	
SECTION 260 E	
LOOKING WEST	
SCALE 1 : 2,000	Date: DerWeduwen
Drawn: DEL	Project No: 8155
	Date: 01/10/87

TL 400 S

200 S

BL 0



LEGEND

- 4 SEDIMENTS
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 - a massive
 - b pillowed
-  GREY ZONE

GOLD ASSAYS $\frac{\text{gram per tonne}}{\text{metres}}$



FALCONBRIDGE LTD.	
Exploration Division	Timmins, ONTARIO
SYNGOLD JV HOYLE Twp.	
SECTION 240 E	
LOOKING WEST	
SCALE 1 : 2,000	Date: DerWeduwen
Drawn: DEL	Project N ^o : 8155 Date: 08/10/87

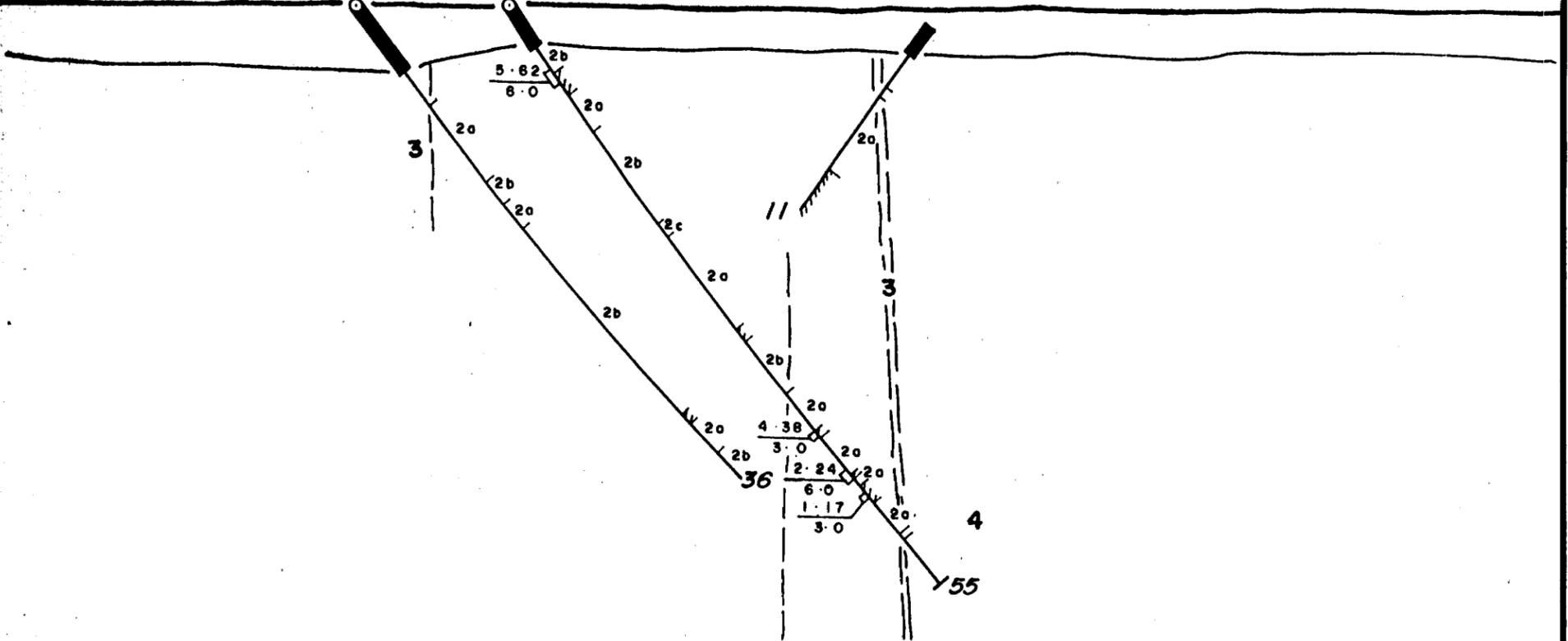
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200 S

BL 00

H13 - 36

H13 - 55



LEGEND

- 4 SEDIMENTS
- 3 GRAPHITIC ARGILLITE
- 2 IRON THOLEIITIC BASALTS
 - a massive
 - b pillowed
 - c flow breccia
- 1 HIGH Mg THOLEIITIC BASALTS
 - a massive
 - b pillowed
- GREY ZONE



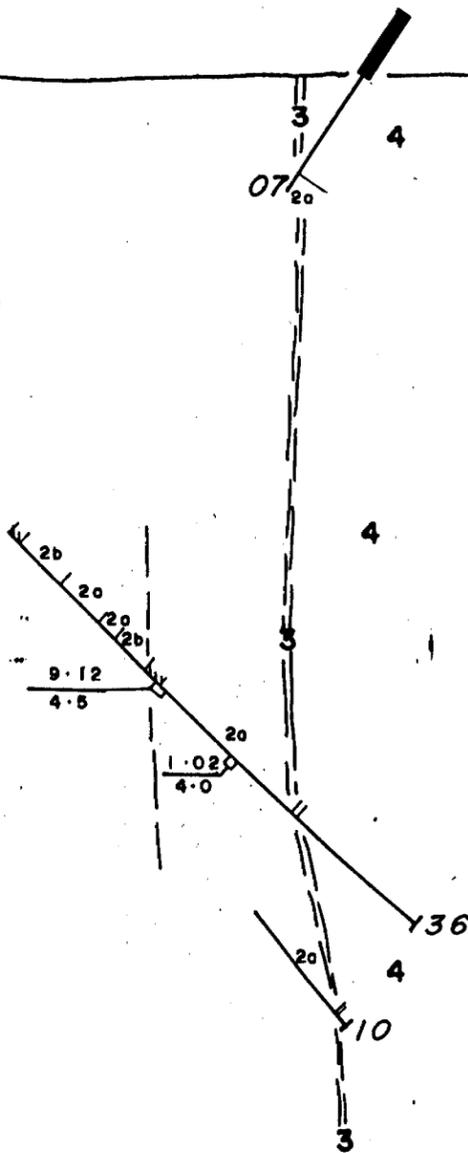
GOLD ASSAYS $\frac{\text{gram per tonne}}{\text{metres}}$

FALCONBRIDGE LTD.	
Exploration Division	Timmins, ONTARIO
SYNGOLD JV HOYLE Twp.	
SECTION 220 E	
LOOKING WEST	
SCALE 1 : 2,000	Date: DerWeduwen
Drawn: DEL	Project N ^o : 8155 Date: 01/10/87

TL 400 S

200 S

BL 00



LEGEND

- 4 SEDIMENTS
- 3 GRAPHITIC ARGILLITE
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 - a massive
 - b pillowed
 - c flow breccia
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 - a massive
 - b pillowed
- / / / GREY ZONE



GOLD ASSAYS $\frac{\text{gram per tonne}}{\text{metres}}$

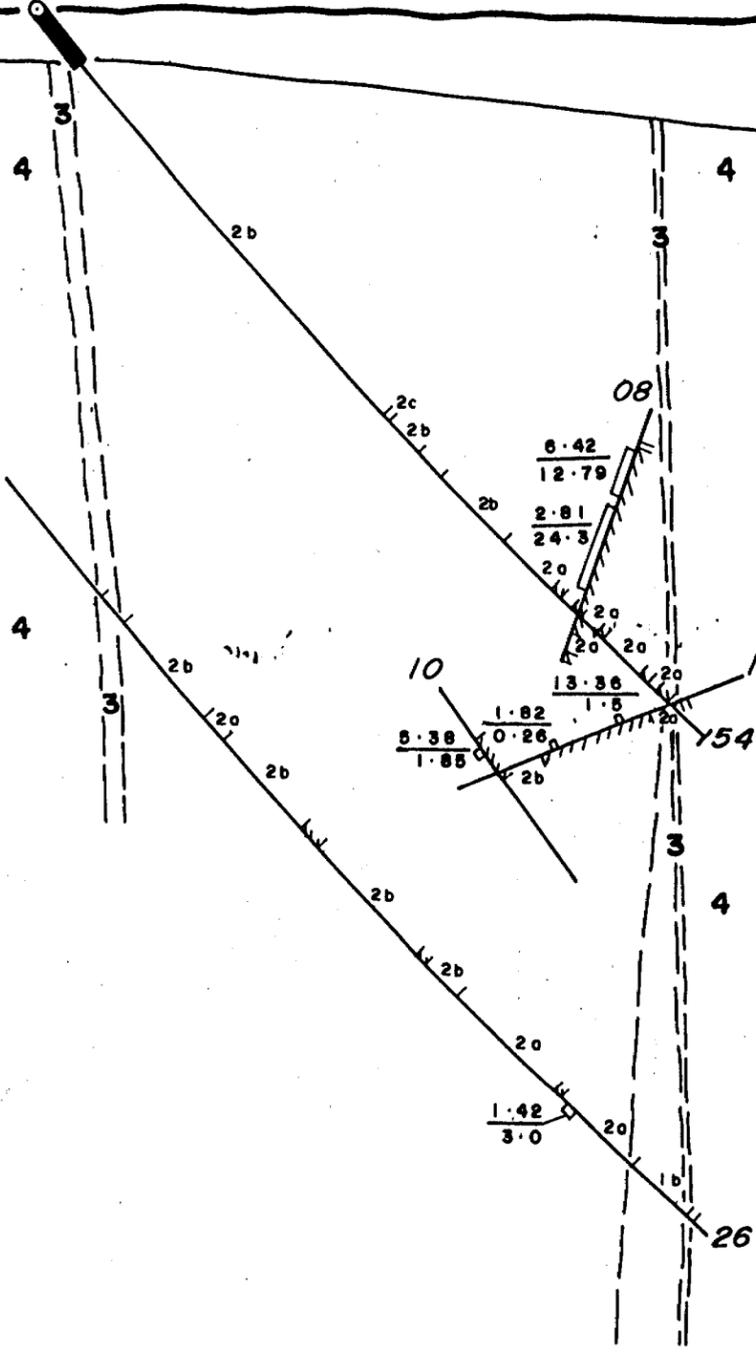
FALCONBRIDGE LTD.		
Exploration Division		Timmins, ONTARIO
SYNGOLD JV		
HOYLE Twp.		
SECTION		
200 E		
LOOKING WEST		
SCALE	1 : 2,000	Date: DerWeduwen
Drawn: DEL	Project N ^o : 8155	Date: 08/10/87

TL 400 S

200 S

BL 00

H13-54



LEGEND

- 4 SEDIMENTS
- 3 GRAPHITIC ARGILLITE
- 2 IRON THOLEIITIC BASALTS
 - a massive
 - b pillowed
 - c flow breccia
- 1 HIGH Mg THOLEIITIC BASALTS
 - a massive
 - b pillowed
- GREY ZONE



GOLD ASSAYS $\frac{\text{gram per tonne}}{\text{metres}}$

FALCONBRIDGE LTD.	
Exploration Division	Timmins, ONTARIO
SYNGOLD JV HOYLE Twp.	
SECTION 180 E	
LOOKING WEST	
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Drawn: DEL	Project No: 8155 Date: 01/10/87

TL 400 S

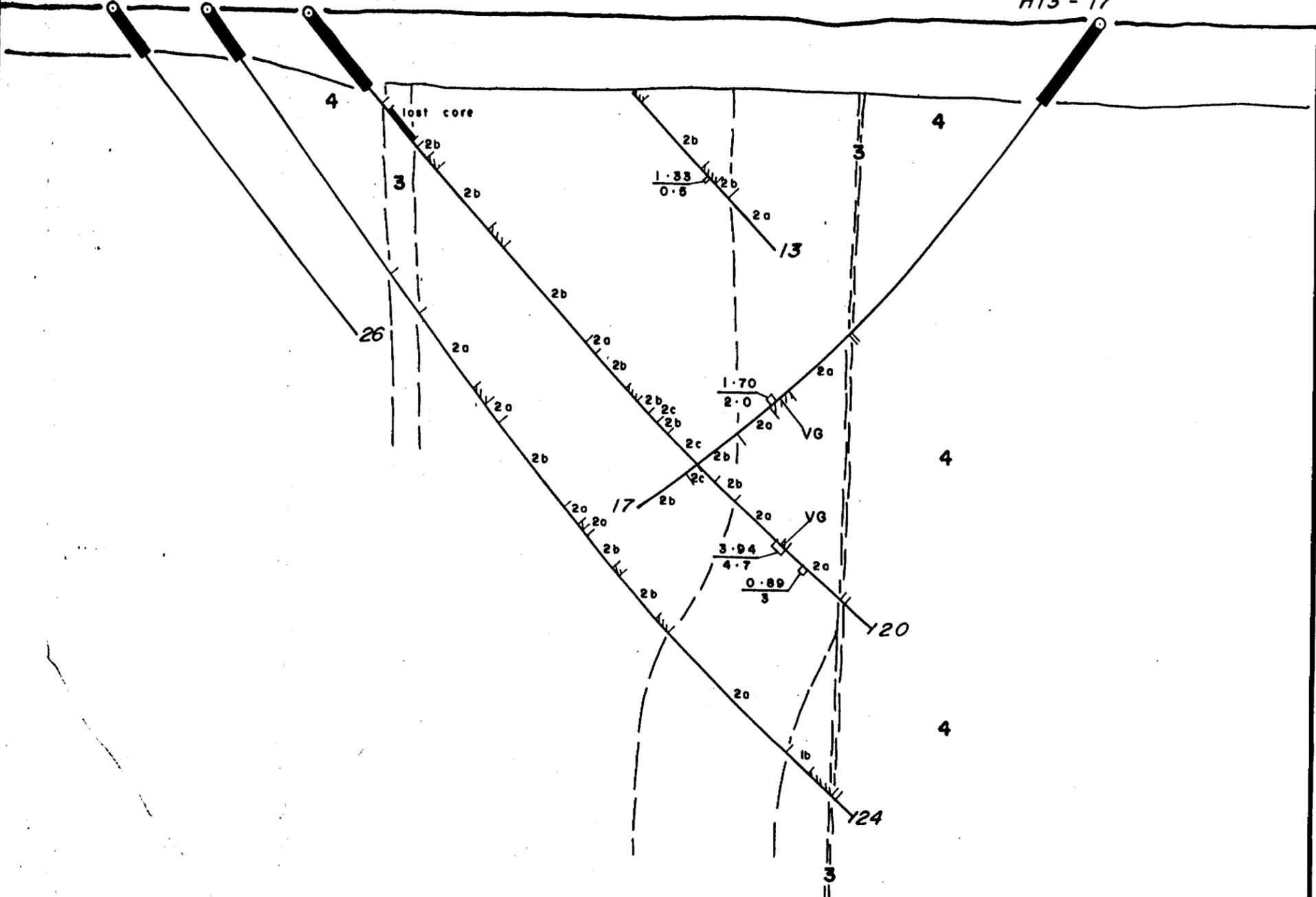
200 S

BL 00

H13-26

H13-24 H13-20

H13-17



LEGEND

- 4 SEDIMENTS
- 3 GRAPHITIC ARGILLITE
- 2 IRON THOLEIITIC BASALTS
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 - a massive
 - b pillowed
- / / GREY ZONE



GOLD ASSAYS $\frac{\text{gram per tonne}}{\text{metres}}$

FALCONBRIDGE LTD.		
Exploration Division		Timmins, ONTARIO
SYNGOLD JV		
HOYLE Twp.		
SECTION		
160 E		
LOOKING WEST		
SCALE	1 : 2,000	Data: DerWeduwen
Drawn: DEL	Project N ^o : 8155	Date: 01/10/87

TL 400 S

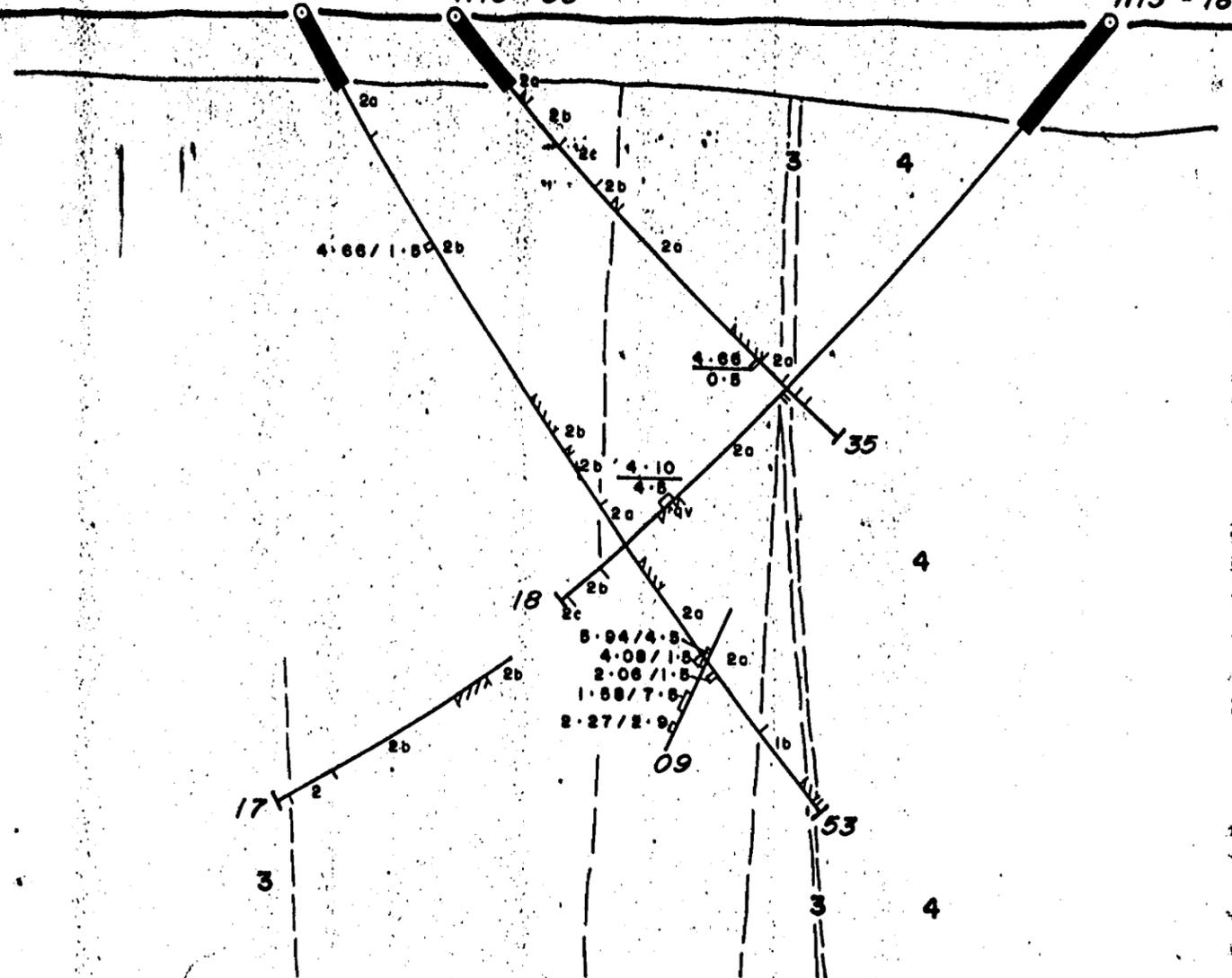
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BL 00

H13-53

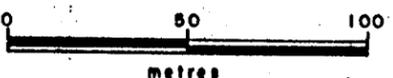
H13-35

H13-18



LEGEND

- 4 SEDIMENTS
- 3 GRAPHITIC ARGILLITE
- 2 IRON THOLEIITIC BASALTS
 - a massive
 - b pillowed
 - c flow breccia
- 1 HIGH Mg THOLEIITIC BASALTS
 - a massive
 - b pillowed
- GREY ZONE



GOLD ASSAYS $\frac{\text{gram per tonne}}{\text{metres}}$

FALCONBRIDGE LTD.		
Exploration Division		Timmins, ONTARIO
SYNGOLD JV HOYLE Twp.		
SECTION 140 E		
LOOKING WEST		
SCALE	1 : 2,000	Data: DerWeduwen
Drawn: DEL	Project No: 8155	Date: 30/09/87

TL 400 S

200 S

H13-42

H13-52

4

4

4

3

3

1.37
1.0

2.50
3.0

1.58
1.8

VG

15

152

3

142

4

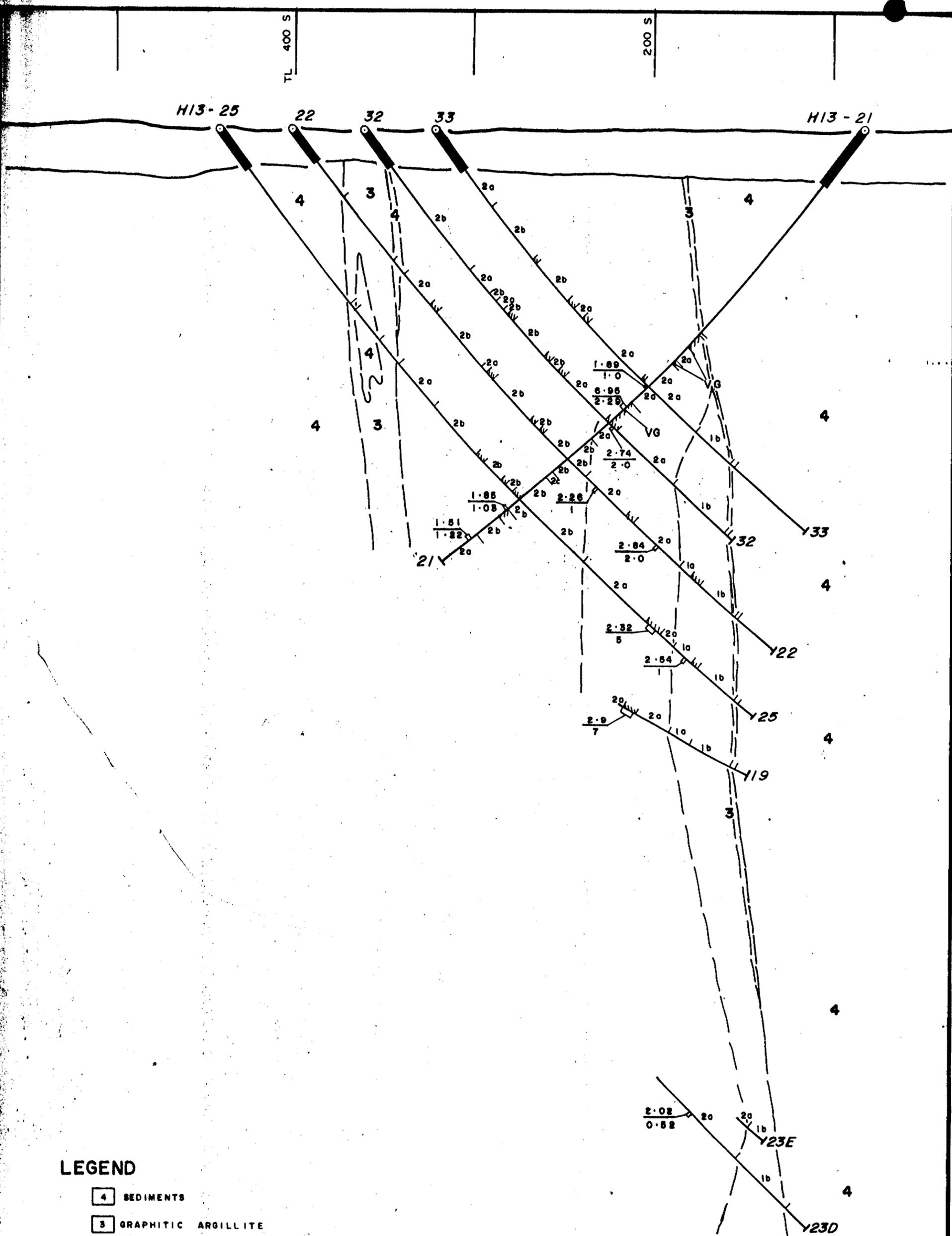
LEGEND

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GOLD ASSAYS gram per tonne metres

FALCONBRIDGE LTD.	
Exploration Division	Timmins, ONTARIO
SYNGOLD JV HOYLE Twp.	
SECTION 120 E	
LOOKING WEST	
SCALE	1 : 2,000
Drawn: DEL	Date: DerWeduwen
Project N°: 8155	Date: 01/10/87



LEGEND

- 4 SEDIMENTS
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GOLD ASSAYS $\frac{\text{gram per tonne}}{\text{metres}}$

FALCONBRIDGE LTD.
Exploration Division Timmins, ONTARIO

SYNGOLD JV
HOYLE Twp.

**SECTION
100 E**

LOOKING WEST

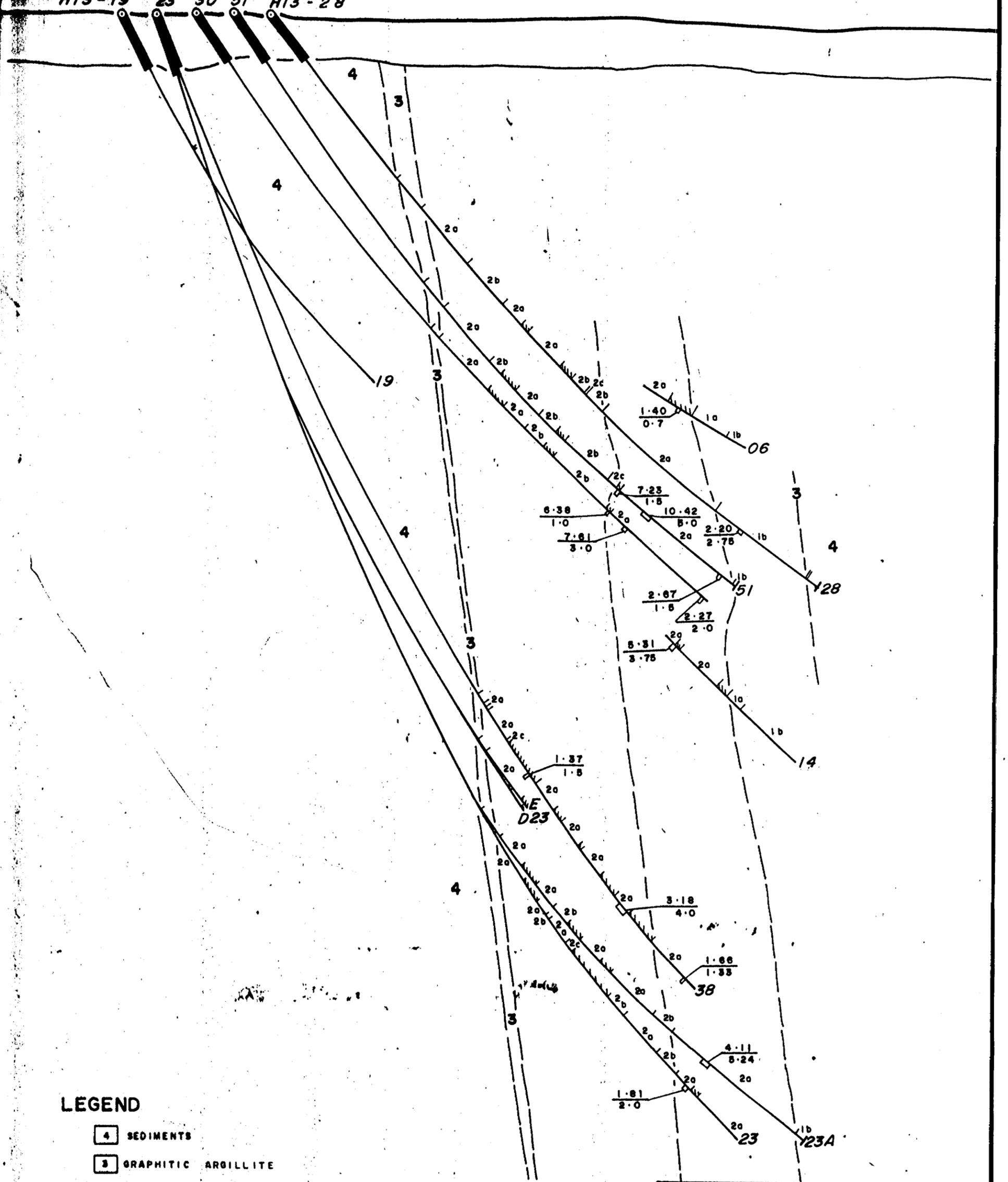
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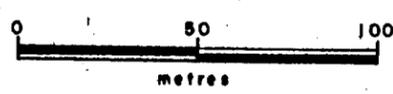
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H13-19 38 23 30 51 H13-28



LEGEND

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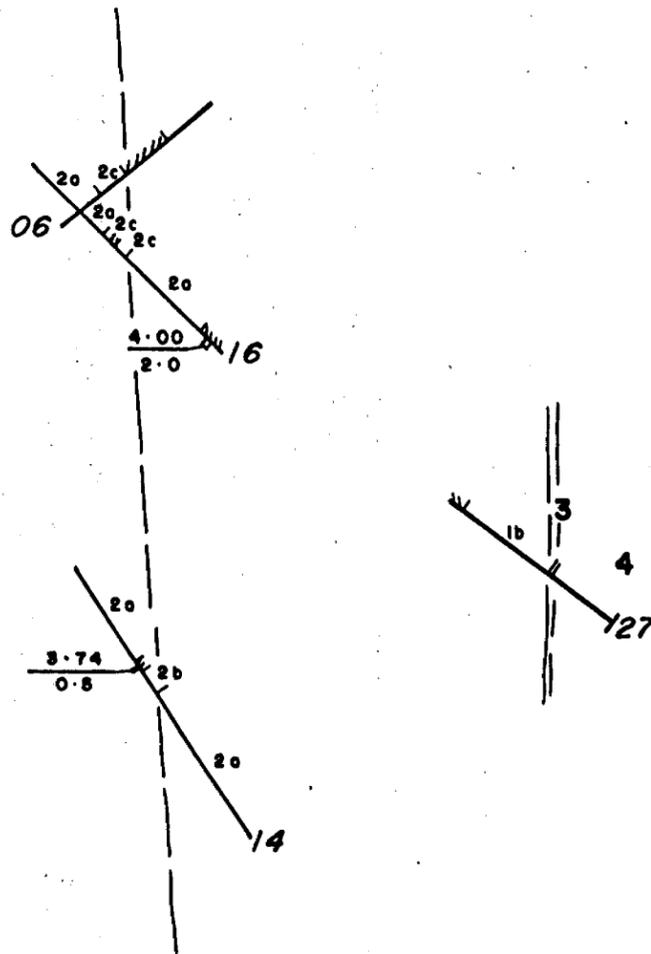
GOLD ASSAYS $\frac{\text{gram per tonne}}{\text{metres}}$

FALCONBRIDGE LTD.	
Exploration Division	Timmins, ONTARIO
SYNGOLD JV HOYLE Twp.	
SECTION 060 E	
LOOKING WEST	
SCALE 1 : 2,000	Data: DerWeduwen
Drawn: DEL	Project N ^o : 8155
	Date: 01/10/87

TL 400 S

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LEGEND

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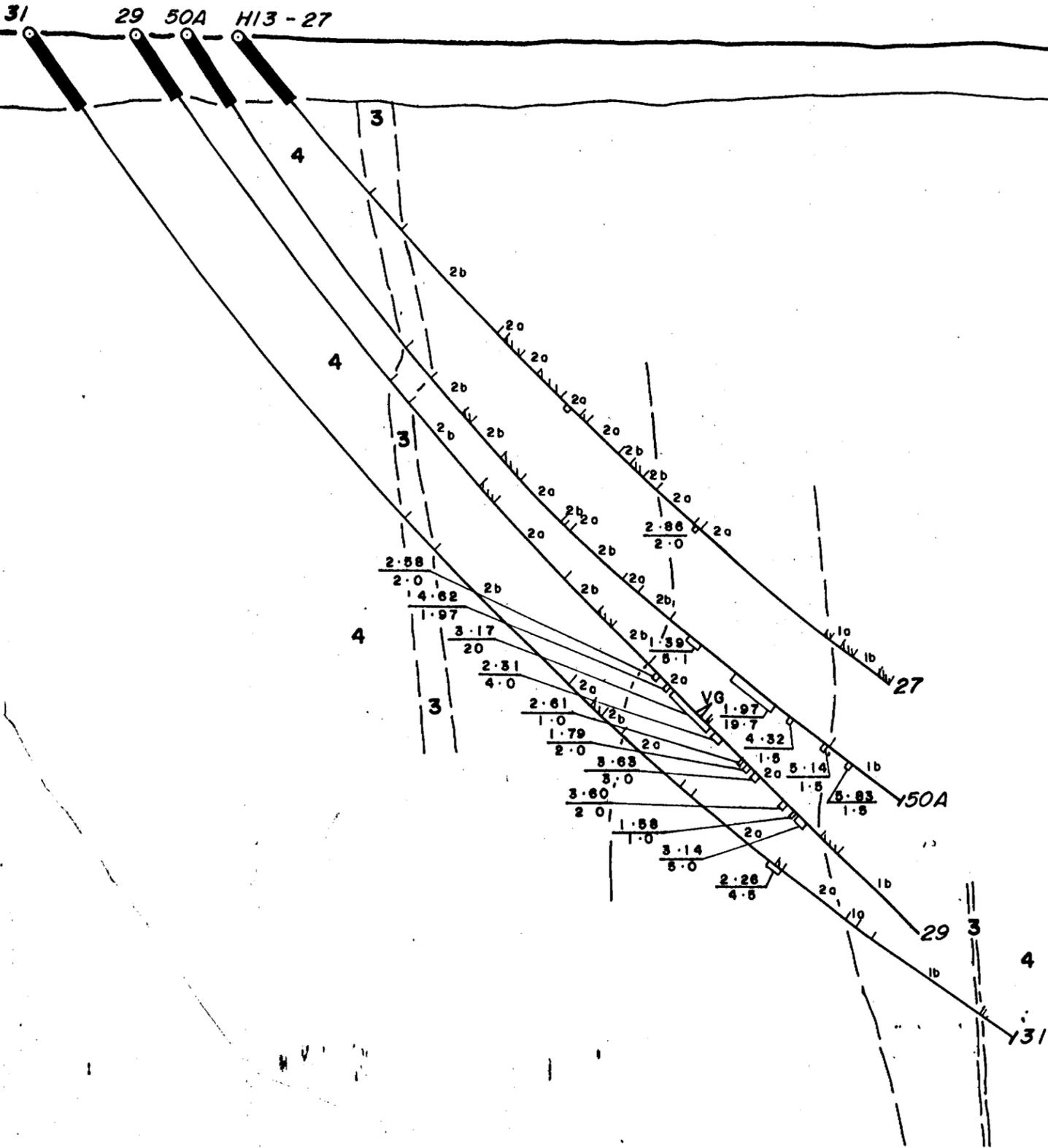
GOLD ASSAYS $\frac{\text{gram per tonne}}{\text{metres}}$

FALCONBRIDGE LTD.		
Exploration Division		Timmins, ONTARIO
SYNGOLD JV		
HOYLE Twp.		
SECTION		
040 E		
LOOKING WEST		
SCALE	1 : 2,000	Data: DerWeduwen
Drawn: DEL	Project NO: 8155	Date: 08/10/87

TL 400 S

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LEGEND

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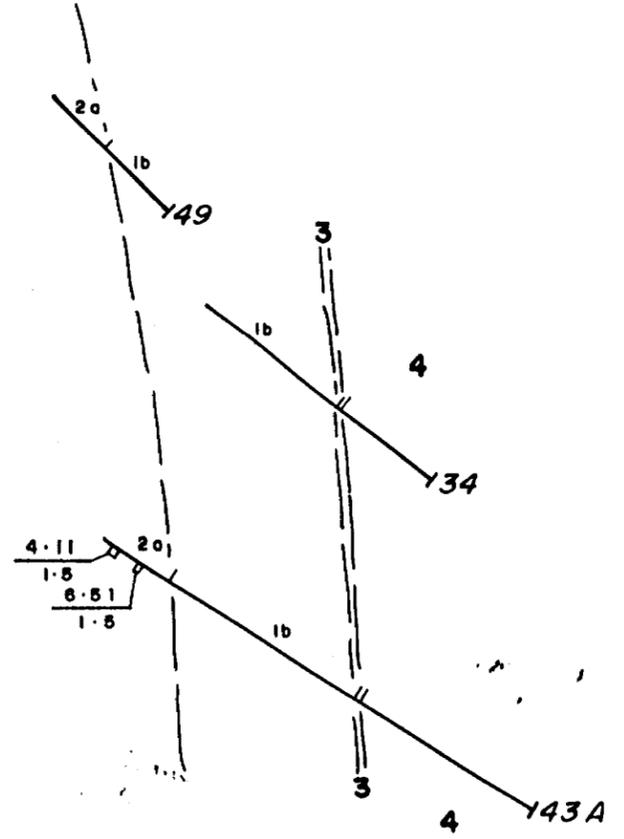
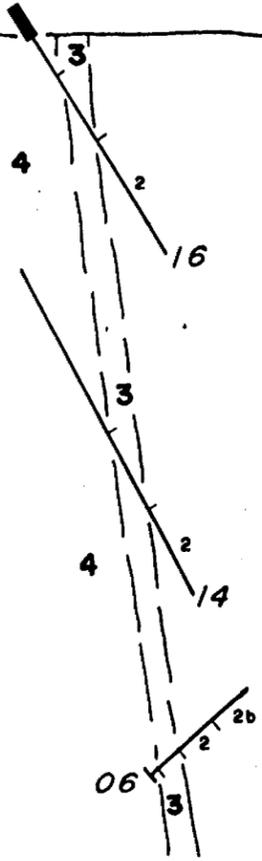
GOLD ASSAYS $\frac{\text{gram per tonne}}{\text{metres}}$

FALCONBRIDGE LTD.	
Exploration Division	Timmins, ONTARIO
SYNGOLD JV HOYLE Twp.	
SECTION 020 E	
LOOKING WEST	
SCALE 1 : 2,000	Date: DerWeduwen
Drawn: DEL	Project N ^o : 8155 Date: 01/10/87

TL 400 S

200 S

BL 00



LEGEND

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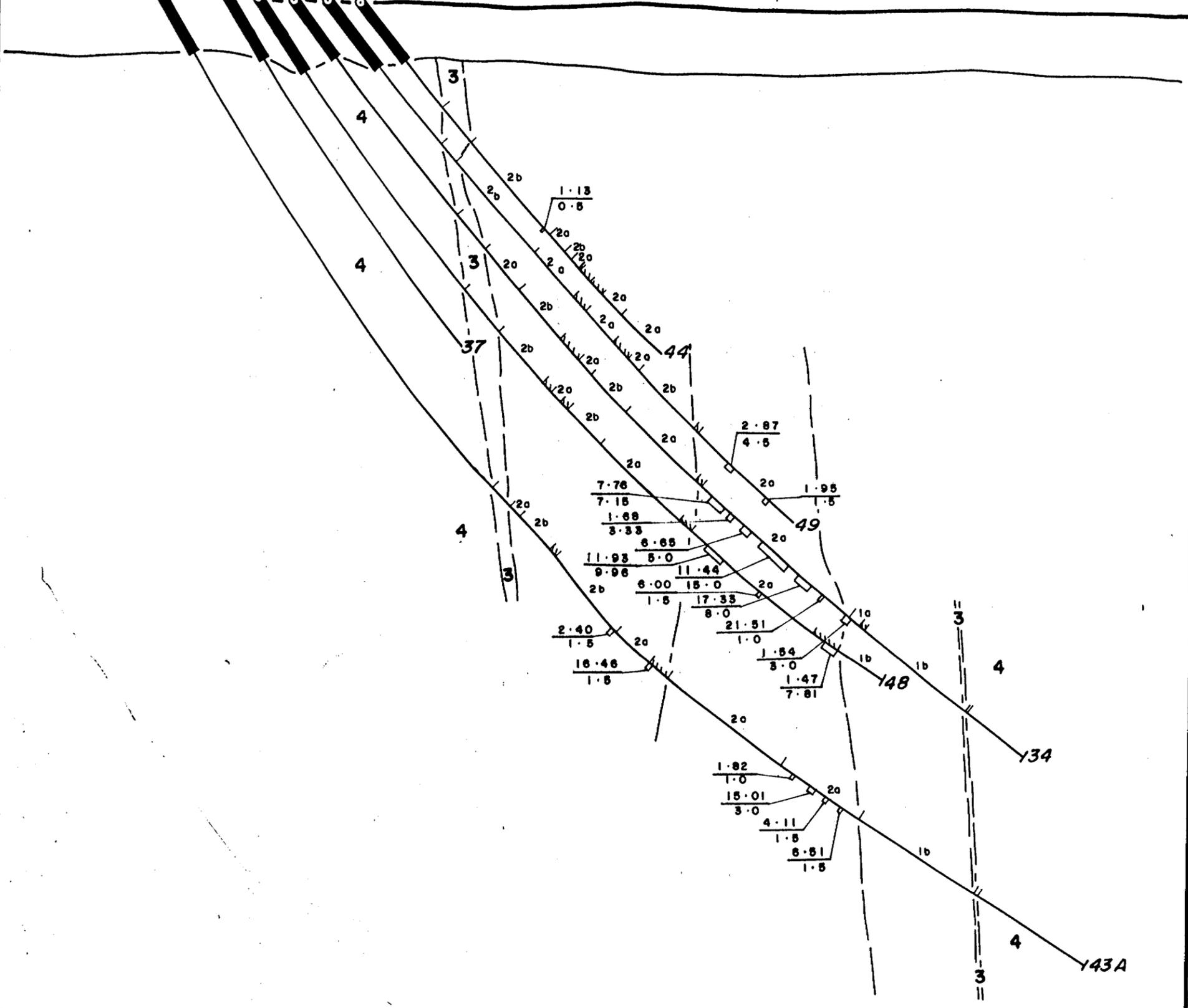
GOLD ASSAYS $\frac{\text{gram per tonne}}{\text{metres}}$

FALCONBRIDGE LTD.		
Exploration Division		Timmins, ONTARIO
SYNGOLD JV HOYLE Twp.		
SECTION 000		
LOOKING WEST		
SCALE	1 : 2,000	Date: DerWeduwen
Drawn: DEL	Project N°: 8155	Date: 08/10/87

TL 400 S

200 S

H13-43A 37 48 34 49 H13-44



LEGEND

- 4 SEDIMENTS
- 3 GRAPHITIC ARGILLITE
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 - b pillowed
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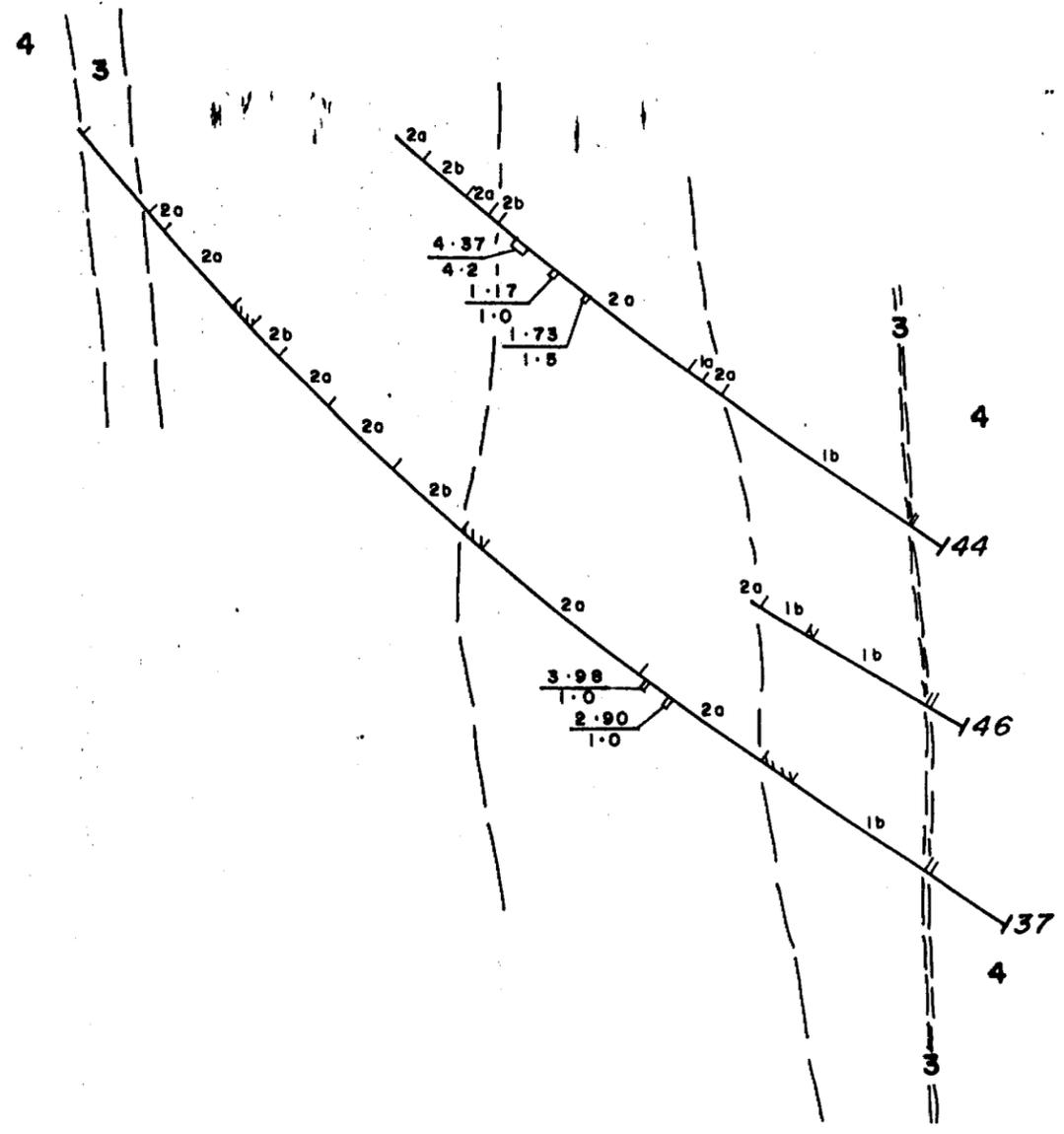


GOLD ASSAYS $\frac{\text{gram per tonne}}{\text{metres}}$

FALCONBRIDGE LTD.		
Exploration Division		Timmins, ONTARIO
SYNGOLD JV HOYLE Twp.		
SECTION 020 W		
LOOKING WEST		
SCALE	1 : 2,000	Date: DerWeduwen
Drawn: DEL	Project No: 8155	Date: 01/10/87

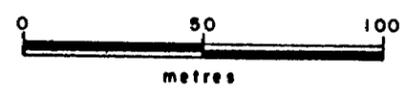
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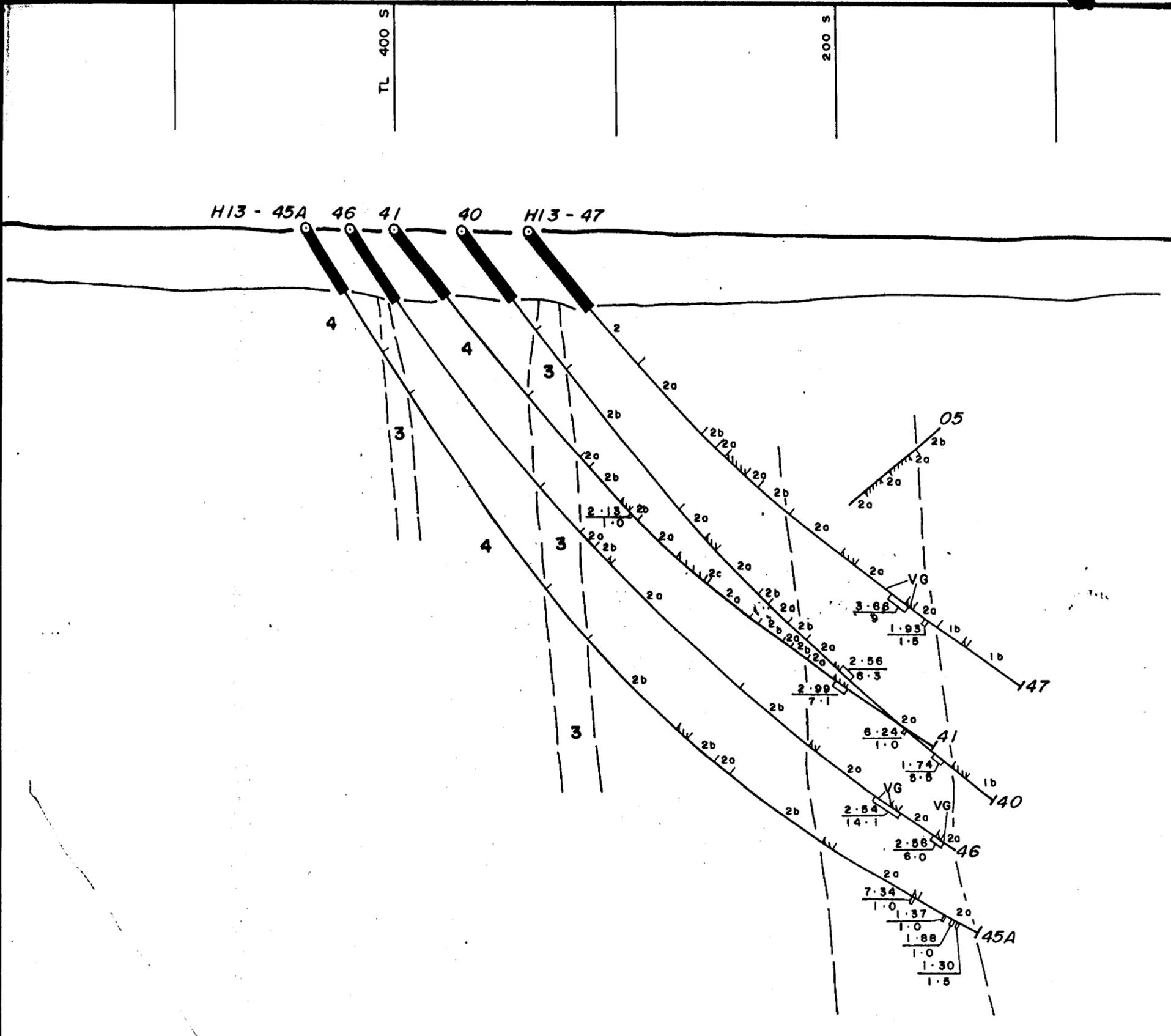
LEGEND

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 - b pillowed
 - c flow breccia
- 1 HIGH Mg THOLEIITIC BASALTS
 - a massive
 - b pillowed
- / / GREY ZONE



GOLD ASSAYS $\frac{\text{gram per tonne}}{\text{metres}}$

FALCONBRIDGE LTD.		
Exploration Division		Timmins, ONTARIO
SYNGOLD JV HOYLE Twp.		
SECTION 040 W		
LOOKING WEST		
SCALE	1 : 2,000	Date: DerWeduwen
Drawn: DEL	Project N ^o : 8155	Date: / /



LEGEND

- 4 SEDIMENTS
- 3 GRAPHITIC ARGILLITE
- 2 IRON THOLEIITIC BASALTS
 - a massive
 - b pillowed
 - c flow breccia
- 1 HIGH Mg THOLEIITIC BASALTS
 - a massive
 - b pillowed
- GREY ZONE



GOLD ASSAYS $\frac{\text{gram per tonne}}{\text{metres}}$

FALCONBRIDGE LTD.	
Exploration Division	Timmins, ONTARIO
SYNGOLD JV HOYLE Twp.	
SECTION 060 W	
LOOKING WEST	
SCALE 1 : 2,000	Date: DerWeduwen
Drawn: DEL	Project No: 8155
	Date: 30/09/87

KIDD CREEK MINES LTD.

EXPLORATION DIVISION

DRILL HOLE RECORD

HOLE NO. H13-46 PROPERTY Syngold J.V. #1 PROJECT NO. 008155 CONTRACTOR Bradley Bros. START 08/06/87
 FINISH 17/06/87
 COORDINATES Grid Location: Latitude 420S UTM: Lat. Surveyed: Lat. Mine Grid: Lat. 99394.30
 Departure 60W Dep. Dep. Dep. 98170.81
 Elevation Elev. 286.18
 COLLAR ATTITUDE Azimuth 333° Dip -55° LENGTH 461m CORE SIZE 80

INCLINATION TESTS

Rotodip/Acid Tests

Compass Tests

Depth	Dip	Depth	Dip

Depth	Observed Azimuth	True Azimuth	Dip
60m	in casing		-54.5°
88m	14.5°NW	336.5°	-51.0°
118m	15.0°NW	336.0°	-50.0°
151m	13.5°NW	337.5°	-48.5°
181m	13.5°NW	337.5°	-46.0°
211m	14.5°NW	336.5°	-44.0°
238m	13.0°NW	338.0°	-42.0°
268m	14.5°NW	336.5°	-41.0°
303m	12.5°NW	338.5°	-39.0°
333m	13.3°NW	338.5°	-36.5°
361m	12.5°NW	338.0°	-34.5°
391m	12.0°NW	339.0°	-31.0°
430m	14.0°NW	337.0°	-29.5°
460m	12.0°NW	339.0°	-28.0°

REMARKS NW casing to 34m, BW casing to 76m

Logged by M. Jerome Date 18/06/87

Property Syngold J.V. #1

Hole No. H13-46

FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
0	38.0	OVERBURDEN							
38.0	143.23	SEDIMENTS							
		- light to medium grey, gritty, fine grained, greywacke sediments bedded at 30-35° to core axis							
		- minor interbedded dark grey carbonaceous argillite beds and blebs							
		- unit broken throughout, lost core locally							
		- minor scattered fine pyrite							
		- gradational sequences indicate uphole topping direction							
		- minor to 1% scattered carbonate veining throughout							
		- increasing carbonaceous content downhole							
		lost core from 39.60 - 41.0, 43.3 - 44.0, 46.48 - 47.0, 48.95 - 50.0,							
		51.0 bedding at 35° to core axis							
		- lost core from 54.63 - 56.0, 57.78 - 59.0, 60.96 - 62.0							
		62.12 bedding at 30° to core axis							
		lost core from 63.40 - 65.0, 70.0 - 71.0							
		75.08 bedding at 30° to core axis							
		82.18 bedding at 25° to C.A.							
LOGGED BY: M. Jerome		DATE:	PROPERTY	HOLE NO.	PAGE NO. 1				

FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
	97.39 - 97.53 graded sequence topping uphole, bedded at 30 ⁰							
	124.3 bedding at 35 ⁰ to C.A.							
	126.58 - 128.0 lost core							
	129.0 development of secondary cleavage perpendicular to bedding with graphitic slip surfaces, increasing tectonism of core							
	134.04 bedding at 35 ⁰ to C.A.							
	134.0 - 143.23 predominantly carbonaceous argillite with minor greywacke interbeds							
	137.92 minor slip fault (sinistral)							
	140.0 - 147.0 1-2% disseminated pyrite blebs and cubes throughout, increasing carbonate along bedding planes							
	140.82 - 140.84, 141.19 - 141.28 fine to medium grained light to medium greyish-green, carbonated, intermediate (mafic?) intrusives at 30 ⁰ to C.A. parallel with bedding							
	143.07 - 143.23 intrusive as above at 25 ⁰ to C.A. with minor to 1% disseminated pyrite							

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DATE:

PROPERTY

HOLE NO.

PAGE NO. 2

FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
143.23	170.29	GRAPHITIC ARGILLITE							
		- very fine grained, dark grey, bedded graphitic argillite, bedding contorted and variable (20-50°)							
		- minor greywacke content							
		- minor to 2% pyrite throughout, more common uphole							
		- 1-2% carbonate along bedding planes, common uphole							
		- ground upper contact lower contact at 60°(?)							
		- secondary cleavage perpendicular to bedding developed locally throughout							
		143.23 - 143.70 ground core, melange of graphitic argillite, broken carbonate, and pyrite (probable shearing)							
		143.70 - 152.47 tectonized, contorted bedding, 3-5% carbonate throughout 1-5% pyrite cubes and blebs							
		147.49 - 147.71 light green, fine to medium grained carbonated mafic (?) intrusive							
		159.19 bedding at 45° to C.A.							
		168.41 bedding at 32° to C.A.							
		169.66 - 170.29 5-7% pyrite in blebs and with carbonate veinlets							

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DATE:

PROPERTY

HOLE NO.

PAGE NO. 3

FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS			
				m		Au			
170.29	187.36								
	FRACTURED MAFIC								
	- fine grained, light to medium grey, fractured (pillowed?) mafic								
	- weak dilated fracturing to moderate/strong fracturing with insitu brecciation foliation at 45-50° to C.A., black carbonaceous in filling along fractures, general increase in tectonism with depth								
	- very weak to weak carbonaceous alteration of unit locally, weak pervasive carbonatization of unit throughout								
	- minor to 1-2% carbonate and quartz-carbonate veinlets, generally subparallel with foliation								
	- minor pyrite in upper portion of unit								
	170.29 - 176.0 medium grey, weakly carbonaceous altered fractured mafics, with 1-5% quartz/carbonate veining and associated minor pyrite	03257	170.29	171.50	1.21	8			
		03258	171.50	173.0	1.5	23			
		03259	173.0	174.5	1.5	69			
	180.52 - 181.72 moderate/strong tectonized mafic with in situ brecciation	03260	174.5	176.0	1.5	19			
		03261	185.0	186.5	1.5	12			
	185.0 - 187.36 light/medium grey, weakly carbonaceous altered fractured mafic	03262	186.5	188.0	1.5	53			
187.36	189.71								
	GREY MAFIC								
	- fine grained, weakly to moderately carbonaceous altered, light/medium grey, grey mafic								
	- foliated weakly at 50° (?)								
	- 1-5% quartz/carbonate veining parallel with foliation								
	- minor to 1% pyrite scattered throughout and with carbonate veinlets								
	- gradational contacts								

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DATE:

PROPERTY

HOLE NO.

PAGE NO. 4

FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS				
						Au ppb				
	187.47 - 187.57 6cm quartz/carbonate vein subparallel to foliation (upper -65°, lower -35°), minor pyrite along wallrock margin									
	188.20 - 188.89 complex quartz/carbonate vein (upper -35°, lower -40°), subparallel to foliation, common wallrock inclusions, minor hydromuscovite along fractures, minor pyrite associated with wallrock inclusions									
189.71	214.52	MASSIVE MAFIC								
	- light grey to green, fine grained, massive mafic									
	- weakly foliated at 45-50°									
	- spotty, mottled chloritic alteration with bleaching throughout, weak pervasive carbonatization throughout									
	- minor quartz/carbonate veining									
	- gradational contacts									
		03263	188.0	189.5	1.5	393				
	189.71 - 195.5 very weak pervasive carbonaceous alteration decreasing downhole	03264	189.5	191.0	1.5	15				
		03265	191.0	192.5	1.5	11				
		03266	192.5	194.0	1.5	8				
	194.9 6 cm quartz vein subparallel to foliation at 45°, 1-2% hydromuscovite in vein and along vein margin	03267	194.0	195.5	1.5	7				
		03268	195.5	197.0	1.5	18				
	195.28 3cm quartz vein subparallel to foliation at 50° minor hydromuscovite									
	208.29 - 209.56 pillowed mafic appearance, 1-2cm carbonate amygdules locally									

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DATE:

PROPERTY

HOLE NO.

PAGE NO. 5

FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m			Au ppb			
	211.5 - 214.52 increased fracturing with carbonaceous in filling (eg. 212.49 - 212.69)								
214.52	235.84	FRACTURED MAFIC							
	- fine grained, light to medium grey, fractured pillowed mafic foliated moderately to strongly at 40-45° to C.A.								
	- tectonism variable throughout unit ranging from weak fracturing/dilation through in situ brecciation to complete brecciation, carbonaceous in filling of fractures								
	- weak to moderate pervasive carbonaceous alteration and moderate to strong pervasive carbonatization throughout								
	- gradational contacts								
	- locally minor 1-2mm dark carbonate-filled amygdules								
	- minor to 1% scattered pyrite associated with zone of stronger carbonaceous alteration								
	- 1-2% scattered, thin, discontinuous quartz and quartz-carbonate veinlets	03269	217.0	218.0	1.0	23			
		03270	218.0	219.5	1.5	67			
		03271	219.5	221.0	1.5	30			
	217.85 - 218.60 breccia zone with minor scattered pyrite	03272	221.0	222.5	1.5	8			
		03273	222.5	224.0	1.5	10			
	223.89 - 231.71 weak grey mafic with pervasive, weak to moderate carbonaceous alteration	03274	224.0	225.5	1.5	8			
		03275	225.5	227.0	1.5	15			
		03276	227.0	228.5	1.5	29			

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HOLE NO.

PAGE NO.

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FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m	m		Au			
235.84	270.2	MASSIVE MAFIC	03278	228.5	230.0	1.5	12		
			03279	230.0	231.5	1.5	8		
		- fine grained, light greyish-green to light/medium green massive mafic foliated weakly to moderately at 45-50°							
		- weak to moderate pervasive carbonatization throughout, weak pervasive chloritization locally							
		- local 1-2cm carbonate-filled amygdules							
		- minor quartz veining throughout, generally parallel with foliation, minor fracturing							
		- gradational contacts							
		- minor, fine grained, beige-white leucoxene grains locally							
		238.45 - 241.43 light grey altered section							
		241.05 - 241.19 12cm carbonate vein at 60° to C.A. sub-parallel to foliation							
		247.75 - 251.07 amygdaloidal section with pillowed appearance							
		262.53 - 270.20 mottled, spotty chloritic alteration with bleaching, similar to massive mafic from 189.71 - 214.52							
		263.56 9cm carbonate vein subparallel with foliation at 50°, to C.A., scattered hydromuscovite in vein and along margins							
		265.14 13 cm quartz-clinozoisite vein at 80° to C.A., crosscutting foliation							
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FROM - TO		DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS			
				m				Au gram		
270.20	310.58	PILLOWED MAFIC								
		- light/medium grey to light/medium green, fine grained, pillowed mafic weakly foliated at 45-50°								
		- weak to moderate pervasive carbonatization throughout, weak to very weak pervasive chloritization								
		- gradational contacts								
		- pillow selveges generally 1-2cm wide, 35-40° to core axis dark green/grey								
		- thin, discontinuous, carbonate and quartz-carbonate stringer veinlets throughout								
		- 1-2mm, oval, carbonate-filled amygdules locally								
		- minor scattered pyrite								
		270.20 - 275.40 light/medium grey, granular carbonated, pillowed mafic								
		293.0 - 303.57 light/medium grey carbonated pillowed mafic								
		303.57 - 307.19 pillow/flow breccia with pillowed sections, moderate to strong carbonate alteration, weak pervasive chloritization								
			03280	303.5	305.0	1.5	trace			
		303.57 - 304.23 1-3% scattered sulphide including pyrite, pyrrhotite	03281	305.0	306.5	1.5	tr			
		and minor chalcopyrite	03282	306.5	308.0	1.5	tr			
			03283	308.0	309.5	1.5	tr			
		307.19 - 310.58 light/medium grey, carbonatized mafic with minor scattered pyrite	03284	309.5	310.5	1.0	tr			

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HOLE NO.

PAGE NO. 8

FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS				
			m	m		Au				
310.58	314.27									
	GREY MAFIC									
	- medium to dark grey, medium grained, carbonaceous altered mafic foliated moderately at 50°, granular appearance									
	- moderate pervasive carbonatization and carbonaceous alteration throughout									
	- minor to 1%, fine grained, beige-mauve leucoxene grains throughout									
	- minor to 1% quartz veining generally crosscutting foliation									
	- 1-2% scattered pyrite, sphalerite throughout with minor chalcopyrite and galena locally, sphalerite in secondary carbonate veinlets									
	- gradational contacts									
	310.64 minor shear at 50° to C.A.									
	310.64 - 310.81 medium to dark grey carbonaceous altered section with erratic, broken carbonate veining, 2-5% galena in wallrock, minor to 1% sphalerite and minor chalcopyrite	03285	310.5	311.0	0.5	tr				
		03286	311.0	312.5	1.5	tr				
		03287	312.5	314.0	1.5	tr				
		03288	314.0	315.5	1.5	0.03				
	312.5 - 314.0 approximately 1-3% disseminated fine pyrite and sphalerite									
	312.75 7cm quartz-carbonate vein subparallel to foliation at 50° to C.A., common wallrock inclusions									
314.27	348.05									
	MASSIVE MAFIC									
	- fine grained, light/medium grey, massive mafic moderately foliated at 55-60° to C.A.	03289	315.5	317.0	1.5	tr				

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HOLE NO.

PAGE NO. 9

FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS		
			m	m		Au gram		
	- very weak to weak pervasive carbonatization throughout, very weak sericitization chloritic alteration locally	03290	317.0	318.5	1.5	tr		
	- minor to 1% thin quartz stringer veining throughout, generally crosscutting foliation	03291	318.5	320.0	1.5	tr		
	- up to 1mm, pale brown leucoxene grains locally	03292	320.0	321.5	1.5	tr		
	- minor to 3% disseminated pyrite locally	03293	321.5	323.0	1.5	tr		
		03294	323.0	324.5	1.5	tr		
		03295	324.5	326.0	1.5	tr		
	314.27 - 317.83 very weak carbonaceous alteration decreasing away from grey mafic	03296	326.0	327.5	1.5	0.03		
		03298	327.5	329.0	1.5	tr		
		03299	329.0	330.5	1.5	0.03		
	317.05 6cm quartz vein parallel to foliation at 50° grey carbonate and wallrock inclusions	03300	330.5	332.0	1.5	tr		
		02801	332.0	333.5	1.5	tr		
	318.67 - 324.0 leucoxene-rich section	02802	333.5	335.0	1.5	0.03		
		02803	335.0	336.5	1.5	tr		
	326.30 - 330.80 minor to 5% disseminated 2 tone pyrite (dark and brassy) with minor veining	02804	336.5	338.0	1.5	tr		
		02805	338.0	339.5	1.5	0.03		
		02806	339.5	341.0	1.5	tr		
		02807	341.0	342.5	1.5	tr		
		02808	342.5	344.0	1.5	0.03		
		02809	344.0	345.5	1.5	tr		
		02810	345.5	347.0	1.5	tr		
		02811	347.0	348.0	1.0	tr		

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HOLE NO.

PAGE NO. 10

FROM - TO		DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS			
				m				Au		
348.05	356.54	ALTERED MASSIVE MAFIC								
		- light grey, fine grained, intensely altered massive mafic weakly to moderately foliated at 50-60°								
		- intense pervasive sericitization/carbonatization throughout								
		- minor to 1% fine grained, beige-tan leucoxene grains throughout								
		- minor/1% - 7% scattered dark pyrite and brassy cubic pyrite								
		- minor fracturing, minor thin quartz veining								
		- gradational contacts								
		348.05 - 351.84 minor-2% scattered dark and brassy cubic pyrite, fine, tan leucoxenes throughout								
		350.63 4cm quartz vein crosscutting foliation at 35° to C.A., dark carbonate along margins, VISIBLE GOLD 2mm fleck with specks in fracture in vein near margin at 350.71m, 1-2% dark pyrite in wallrock	02812	348.0	349.0	1.0	7.06			
			02813	349.0	350.0	1.0	1.61			
			02814	350.0	351.5	1.5	1.03			
		351.26 5cm quartz vein crosscutting foliation at 50° to C.A., 2-5% hydromuscovite throughout vein								
		351.84 - 353.64 2-7% scattered dark and brassy pyrite	02815	351.5	353.0	1.5	8.37			
			02816	353.0	354.5	1.5	1.23			
		353.64 - 356.54 minor - 3% dark and brassy pyrite increasing towards lower grey mafic, minor irregular quartz veining	02818	354.5	356.0	1.5	1.82			

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DATE:

PROPERTY

HOLE NO.

PAGE NO. 11

FROM - TO		DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS		
				m				Au gram	
356.54	360.88	GREY MAFIC							
		- medium to weak grey, fine grained, carbonaceous altered mafic weakly to moderately foliated at 50-55° to C.A.							
		- weak pervasive carbonaceous alteration, very weak pervasive carbonatization							
		- 1-2% fine tan-beige leucoxene grains throughout							
		- 7-10% quartz veining, generally 5-9cm wide and crosscutting foliation							
		- 2-7% scattered dark and brassy cubic pyrite throughout							
			02819	356.0	357.5	1.5	1.71		
		357.17 - 357.37 irregular quartz vein with wallrock inclusions crosscutting foliation (upper -70°, lower -75°) 1-2% pyrite along quartz margins, 3-4% pyrite in surrounding wallrock							
			02820	357.5	359.0	1.5	2.19		
		358.85 3cm quartz vein crosscutting foliation at 80° to C.A.							
		358.13 9cm quartz vein crosscutting foliation at 65° to C.A.							
		358.37 10cm quartz vein crosscutting foliation (upper -70°, lower -40°)							
		358.76 9cm quartz vein crosscutting foliation at 45° to C.A. minor pyrite in vein							
		359.27 4cm irregular quartz vein, truncated and split, crosscutting foliation perpendicular to C.A., 5-7% pyrite in surrounding wallrock	02821	359.0	360.7	1.7	0.75		
		359.38 3cm quartz vein crosscutting foliation at 70° to C.A.							

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PROPERTY

HOLE NO.

PAGE NO. 12

FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m			Au gram			
	- minor quartz and quartz-carbonate stringer veining								
	- minor to 1% fine disseminated tan leucoxene grains throughout								
	- minor to 2% disseminated pyrite (dark and brassy cubic) particularly in upper portion of unit								
	- gradational upper contact								
	360.88 - 362.8 minor to 2% disseminated pyrite in carbonatized (weakly sericitized) massive mafic	02822	360.7	362.1	1.4	0.99			
	361.32 - 361.39 minor disseminated, fine arsenopyrite								
	361.60 VISIBLE GOLD speck along margin of 3mm quartz stringer vein, dark carbonate along margin, 3-4% pyrite in surrounding wallrock								
	361.94 8cm quartz vein crosscutting foliation at 40° to C.A., dark grey carbonate along margin, 2-3% pyrite in wallrock	02823	362.1	363.5	1.4	0.07			
		02824	363.5	365.0	1.5	tr			
		02825	365.0	366.5	1.5	tr			
		02826	366.5	368.0	1.5	tr			
		02827	368.0	369.5	1.5	tr			
		02828	369.5	371.0	1.5	1.06			
371.82	380.33								
	ALTERED MASSIVE MAFIC								
	- fine grained, light/pale grey, altered massive mafic weakly foliated at 50-55° to C.A., unit similar to altered massive mafic from 348.05 - 356.54m								

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PROPERTY

HOLE NO.

PAGE NO.14

FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m			Au gram			
	- intense pervasive carbonatization/sericitization throughout								
	- minor scattered, fine, tan leucoxene grains								
	- minor to 3% disseminated dark and brassy pyrite	02829	371.0	372.5	1.5	0.58			
	- minor quartz veining	02830	372.5	374.0	1.5	0.89			
	- gradational lower contact	02831	374.0	375.5	1.5	0.03			
		02832	375.5	377.0	1.5	tr			
		02833	377.0	378.5	1.5	tr			
	373.54 24cm quartz vein crosscutting foliation (upper -50°, lower -70°) numerous quartz stringers in wallrock, 1-3% pyrite in wallrock, minor hydromuscovite in wallrock	02834	378.5	380.0	1.5	tr			
380.33	382.59								
	GREY MAFIC								
	- fine grained, light/medium grey, carbonaceous altered mafic weakly to moderately foliated at 55-60° to C.A.								
	- weak pervasive carbonaceous alteration								
	- 1-2% fine, elongate, disseminated, tan leucoxene grains throughout								
	- minor to 1% crosscutting quartz veins								
	- 1-5% disseminated dark and brassy pyrite throughout								
	- gradational contacts								
	380.48 4cm quartz vein crosscutting foliation at 50° to C.A.	02835	380.0	381.5	1.5	0.89			
	380.85 2cm quartz vein crosscutting foliation at 35° to C.A., dark carbonate along margins	02836	381.5	383.0	1.5	0.03			
	381.14 3cm quartz vein crosscutting foliation at 40° to C.A.								

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DATE:

PROPERTY

HOLE NO.

PAGE NO. 15

FROM - TO		DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS							
				m				Au gram						
382.59	393.81	MASSIVE MAFIC												
		- fine grained, light/medium grey, massive mafic foliated, weakly at 55-60° to C.A.												
		- weak to moderate pervasive carbonatization, locally sericitized/carbonatized												
		- minor, erratic thin quartz veining												
		- minor disseminated pyrite locally												
		- gradational upper contact, lower contact at 45° to C.A.												
		382.59 - 385.29 strongly/sericitized carbonatized, pale grey section, 1-5% disseminated dark and brassy pyrite	02837	383.0	384.5	1.5	8.33							
			02838	384.5	386.0	1.5	0.99							
			02839	386.0	387.5	1.5	tr							
			02840	387.5	389.0	1.5	tr							
		383.50 - 383.65 irregular quartz vein crosscutting foliation, VISIBLE GOLD specks at 383.58 associated with fine pyrite along wallrock margin	02841	389.0	390.5	1.5	tr							
			02842	390.5	392.0	1.5	tr							
			02843	392.0	393.5	1.5	0.03							
			02844	393.5	395.0	1.5	tr							
		384.74 1cm quartz vein crosscutting foliation at 50° to C.A., VISIBLE GOLD speck at 384.75 in quartz near wallrock margin												
393.81	409.67	HIGH MG PILLOWED MAFIC												
		- fine grained, light greyish-green to light grey, high mg pillowed mafic moderately foliated at 55-60°												
		- moderate to weak pervasive and fracture controlled carbonatization, weak pervasive chloritization												
		- 5-10% thin, irregular, discontinuous, carbonate stringer veinlets throughout												

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HOLE NO.

PAGE NO. 16

FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS				
			m			Au gram				
	- pillow selveges generally 1-3cm wide, 45-50° to C.A., distinguished by dark green/grey chloritic/carbonate alteration									
	- minor scattered pyrite locally									
		02845	404.0	405.5	1.5	tr				
		02846	405.5	407.0	1.5	tr				
	404.58 - 409.67 light/medium grey, weak carbonaceous alteration, moderate pervasive carbonatization, minor scattered pyrite	02847	407.0	408.5	1.5	tr				
		02848	408.5	410.0	1.5	tr				
409.67	411.94									
	GREY MAFIC									
	- fine grained, medium grey, carbonaceous altered mafic moderately foliated at 55-60°	02849	410.0	411.5	1.5	tr				
		02850	411.5	413.0	1.5	tr				
	- weak pervasive carbonaceous alteration, moderate to strong pervasive and fracture-controlled carbonatization									
	- 1-5% thin, discontinuous carbonate veining throughout									
	- minor scattered pyrite									
411.94	448.66									
	HIGH MG VARIOLITIC PILLOWED MAFIC									
	- fine grained, light (lime) green to light greenish-grey, variolitic pillowed mafic weakly foliated at 55-60°									
	- weak fracture controlled, carbonatization, weak pervasive chloritization									
	- minor carbonate veining									
	- pillow selveges at various orientations and various widths, 1-3cm variolitic zones along pillow margins, varioles 1-2mm, oval to round, pale/light green with darker green cores, beige-white feldspar clots and patches associated with selveges.									

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HOLE NO.

PAGE NO.17

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD

SAMPLE NUMBER	(m) FROM	(m) TO	COMPOSITE SAMPLING													ROCK TYPE AND REMARKS	
			Au														
			ppb														
AE 01651	38.0	59.0	3														Sediments
AE 01652	59.0	80.0	6														Sediments
AE 01653	80.0	101.0	4														Sediments
AE 01654	101.0	125.0	2														Sediments
AE 01655	125.0	143.0	3														Sediments
AE 01656	143.0	170.0	25														graphitic argillite
AE 01657	176.0	185.0	3														fractured mafic
AE 01658	197.0	214.0	8														massive mafic
AE 01659	236.0	255.0	60														massive mafic
AE 01660	255.0	269.0	4														massive mafic
AE 01661	272.0	304.0	6														pillowed mafic
AE 01662	398.0	403.0	7														pillowed mafic
AE 01663	413.0	432.0	6														variolitic Pt mafic (Mg)
AE 01664	432.0	448.0	3														variolitic Pt mafic (Mg)
AE 01665	449.0	461.0	67														carbonaceous argillite

DIAMOND DRILL LOG SAMPLE RECORD

HOLE No. H13-46.

PAGE _____ OF _____

SAMPLE NUMBER	FOOTAGE			8/T.			DESCRIPTION
	From	To	Length				
	348.0	349.0	1.0	7.06	7.06		
	349.0	350.0	1.0	1.61	1.61		
	350.0	351.5	1.5	1.03	1.545		
	351.5	353.0	1.5	8.37	12.555		
	353.0	354.5	1.5	1.23	1.845		
	354.5	356.0	1.5	1.82	2.730		
	356.0	357.5	1.5	1.71	2.565		
	357.5	359.0	1.5	2.19	3.285		
	359.0	360.7	1.7	0.75	1.275		
	360.7	362.1	1.4	0.99	1.386		
	362.1	363.5	1.4	0.07	0.098		
	363.5	365.0	1.5	tn	0.015		
	365.0	366.5	1.5	tn	0.015		
	366.5	368.0	1.5	tn	0.015		
	368.0	369.5	1.5	tn	0.015		
	369.5	371.0	1.5	1.06	1.590		
	371.0	372.5	1.5	0.58	0.870		
	372.5	374.0	1.5	0.89	1.335		
	374.0	375.5	1.5	0.03	0.045		
	375.5	377.0	1.5	tn	0.015		
	377.0	378.5	1.5	tn	0.015		
	378.5	380.0	1.5	tn	0.015		
	380.0	381.5	1.5	0.89	1.335		

DIAMOND DRILL LOG SAMPLE RECORD

HOLE No. H-13-462

PAGE _____ OF _____

SAMPLE NUMBER	FOOTAGE						DESCRIPTION
	From	To	Length				
	381.5	383.0	1.5	0.03	0.045		
	383.0	384.5	1.5	0.33	12.495		
	384.5	386.0	1.5	0.99	1.405		
	386.0	387.5	1.5	7.2			
<u>AVERAGES:</u>	348.0	353.0	5.0	4.55			0.13/16.4'
	348.0	362.1	14.1	2.54	35814		0.07/46.3'
	362.1	369.5	7.4	0.02	.148		
	364.5	374.0	4.5	0.84	3.28		0.14/14.8
	374.0	380.0	6.0	0.02	.12		
	383.0	386.0	3.0	4.66			0.13/9.8
	380.0	386.0	6.0	2.56	15.36		0.07/19.7'
	348.0	386.0	38.0	1.45			0.04/124.7'

KIDD CREEK MINES LTD.
EXPLORATION DIVISION

DRILL HOLE RECORD

HOLE NO. H13-47..... PROPERTY Syngold J.V. #1 PROJECT NO. 008155 CONTRACTOR Bradley Bros. START 18-06-87
 FINISH 23-06-87.....
 COORDINATES Grid Location: Latitude 340S..... UTM: Lat. Surveyed: Lat. Mine Grid: Lat.
 Departure 60W..... Dep..... Dep..... Dep.....
 Elevation Elev.....
 COLLAR ATTITUDE Azimuth 333 Dip -50° LENGTH 302m CORE SIZE BQ.....

INCLINATION TESTS

Rotodip/Acid Tests

Compass Tests

Depth	Dip	Depth	Dip

Depth	Observed Azimuth	True Azimuth	Dip
61m	(in casing)		-49.5
121m	17° NW	334°	-45°
149m	16° NW	335°	-41°
179m	16.5° NW	334.5°	-38.5°
209m	16.0° NW	335°	-36.0°
238m	16.0° NW	335°	-35°
271m	17° NW	334°	-32.5°

REMARKS 3m of 40 m NW casing pulled, BW casing to 94m

Logged by M. Jerome.....

Date 25-6-87.....

Property

Hole No. H13-47.....

FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS				
				m		Au gram				
	- minor scattered pyrite locally									
	- minor to 1% thin quartz stringers throughout									
	- gradational contacts									
	- lower portion of unit amygdaloidal									
	- upper portion of unit broken, lost core from 77.6 - 80.0, 80.4, - 83.0, 83.67 - 86.0, 86.52 - 89.0									
	77.0 - 89.0 broken core with core loss									
	94.0 end of NQ core									
	96.06 - 96.23 broken quartz vein									
	96.23 - 98.15 weakly/moderately sericitized/carbonatized massive mafic	02851	95.0	96.5	1.5	tr				
	with scattered pyrite, rusty oxidized core along fractures	02852	96.5	98.0	1.5	tr				
		02853	98.0	99.5	1.5	1.03				
	114.5 - 115.33 tectonic mafic breccia with 1-60mm sharp mafic fragments (in situ breccia), with white carbonate matrix, 1-2% grey round carbonate amygdules in fragments									
	115.33 - 119.08 weakly amygdaloidal massive mafic									
	118.9 - 119.0 in situ brecciated mafic									
119.08	127.9									
	PILLOWED (?) MAFIC									

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DATE:

PROPERTY

HOLE NO.

PAGE NO.

2

FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS			
						Au			
	<ul style="list-style-type: none"> - fine grained, light/pale green, pillowed (?) mafic (possibly massive), weakly foliated at 45-50° to C.A. - weak pervasive and fracture controlled carbonate alteration - indistinct, thin pillow selveges, at 50° to C.A. - minor quartz veining - mottled pattern locally - gradational contacts 	AF							
127.9	134.22								
	<p>MASSIVE MAFIC</p> <ul style="list-style-type: none"> - light medium grey, fine grained, massive mafic weakly foliated at 55-60° to CA - weak to moderate pervasive carbonatization, very weak carbonaceous alteration increasing towards lower grey zone - minor, fine leucoxene grains scattered locally - minor carbonate veinlets - gradational contacts 								
	128.0 - 128.33 broken core								
134.22	146.05	02854	132.5	134.0	1.5	tr			
	<ul style="list-style-type: none"> - fine grained, medium to dark grey, carbonaceous altered mafic weakly/moderately foliated at 55-60° - moderate/strong pervasive carbonaceous alteration, weak pervasive carbonatization 								
LOGGED BY: M. Jerome		DATE:	PROPERTY	HOLE NO.	PAGE NO. 3				

FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m			Au gram			
	- 5-10% quartz-carbonate veining primarily as one principal vein in central portion of unit								
	- minor to 1% scattered brassy pyrite blebs in mafic								
	- gradational contacts								
		02855	134.0	135.5	1.5	0.03			
		02856	135.5	136.75	1.25	tr			
		02857	136.75	137.75	1.0	tr			
	136.75 - 138.94 complex, irregular, quartz vein with minor carbonate, 5-7% dark brown, irregular dravite swaths in latter half of vein, common wallrock blotches and ribbons throughout, vein subparallel(?) to foliation, minor grey carbonate locally	02858	137.75	138.94	1.19	tr			
		02859	138.94	140.0	1.06	tr			
		02860	140.0	141.5	1.5	tr			
		02861	141.5	143.0	1.5	0.03			
		02862	143.0	144.5	1.5	tr			
	139.52 6cm quartz-dravite vein crosscutting foliation at 70° to C.A., approximately 35-40% brown dravite in vein	02863	144.5	146.0	1.5	0.03			
		02864	146.0	147.5	1.5	0.17			
	140.3 9 cm quartz vein crosscutting foliation at (U-55°, L-30°) minor tourmaline needles along vein margin, offsheet veinlets from vein								
	140.71 6cm quartz vein subparallel to foliation at (U:85°, L-70°)								
	140.92 5cm quartz vein subparallel to foliation at 60° to C.A.								

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DATE:

PROPERTY

HOLE NO.

PAGE NO. 4

FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS		
146.09	153.78	MASSIVE MAFIC					
		- fine to medium grained, light grey to pale/mottled/bleached green, massive mafic weakly to moderately foliated at 55-60° to C.A.					
		- weak to moderate pervasive carbonatization uphole decreasing downhole to weak fracture controlled carbonatization, mottled chloritic spotting with bleaching increasing downhole					
		- 1-2% carbonate veinlets throughout					
		- gradational upper contact					
153.78	172.61	PILLOWED MAFIC					
		- fine grained, light/medium green, pillowed mafic weakly/moderately foliated at 55-60° to C.A.					
		- weak fracture controlled carbonatization					
		- pillow selveges generally thin (2-5mm), at various orientations (30-40°), with up to 5-10%, 1-5mm oval/round carbonate amygdules in adjacent pillows					
		- minor fracturing throughout, flow breccia zones locally					
		- gradational contacts					
		- minor pyrrhotite locally in fractures, and in selveges					
		153.78 - 154.39 brecciated mafic with carbonate matrix					
		164.24 - 166.14 gloppy mafic breccia (pillow breccia) with hyaloclastitic matrix, fine white feldspar (minor -2%) in matrix					

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DATE:

PROPERTY

HOLE NO.

PAGE NO. 5

FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM	TO	SAMPLE LENGTH m	ASSAYS				
						Au				
			m		m	gram				
172.61	201.85	MASSIVE MAFIC								
		- fine grained, medium green to medium greyish-green, massive mafic weakly to moderately foliated at 55-60° to C.A., foliation increasing in intensity toward lower grey mafic								
		- weak to moderate pervasive and fracture-controlled carbonatization throughout, weak pervasive chloritization throughout.								
		weak pervasive carbonaceous alteration towards lower portion of unit								
		- minor wispy, thin carbonate veining throughout								
		- minor to 1% disseminated, patchy pyrite locally								
		- gradational contacts								
		- locally fine 1-2mm carbonate blotches (amygdules)								
		176.90 - 177.30 zone of irregular carbonate veining								
		177.17 principal vein - 15cm wide carbonate vein parallel to foliation (U-25°, L-55°), minor pyrite scattered in vein, common wallrock inclusions	02865	176.0	177.5	1.5	tr			
			02866	177.5	179.0	1.5	tr			
		188.36 - 191.0 zone with minor to 2% scattered pyrite blebs								
			02867	188.0	189.5	1.5	0.03			
			02868	189.5	191.0	1.5	0.69			
		189.62 9cm quartz vein crosscutting foliation at 30° to C.A., 3-4mm rind of dravite crystals along upper margin with minor pyrite	02869	191.0	192.5	1.5	tr			
			02870	192.5	194.0	1.5	tr			

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DATE:

PROPERTY

HOLE NO.

PAGE NO. 6

FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS		
			m			Au gram		
	200.0 - 201.85 increasing carbonaceous alteration, tan leucoxene grains common throughout, moderate to strong foliation	02872	194.0	195.5	1.5	tr		
		02873	195.5	197.0	1.5	tr		
	gradational lower contact	02874	197.0	198.5	1.5	tr		
		02875	198.5	200.0	1.5	tr		
201.85	209.55	02876	200.0	201.5	1.5	tr		
	- fine grained, medium to dark grey, carbonaceous altered mafic moderately to strongly foliated at 55-60° to C.A.							
	- moderate to strong pervasive carbonaceous alteration, moderate to weak pervasive carbonatization decreasing downhole, chloritic alteration of wallrock fragments in quartz veins :							
	- 3-5% irregular quartz veining throughout, generally as stringer veinlets							
	- minor to 2% pyrite associated with quartz veins and within fractures in grey mafic							
	- tan leucoxene grains locally common	02877	201.5	203.0	1.5	tr		
	- gradational contacts	02878	203.0	204.5	1.5	0.03		
		02879	204.5	206.0	1.5	0.21		
		02880	206.0	207.4	1.4	0.03		
	207.43 - 208.19 zone of irregular quartz veining with numerous wallrock inclusions, common hydromuscovite, minor scattered pyrite	02881	207.4	209.0	1.6	0.17		

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DATE:

PROPERTY

HOLE NO.

PAGE NO. 7

FROM - TO		DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS			
				(m)				Au		
209.55	221.72	MASSIVE MAFIC								
		- fine to medium grained, granular, buff grey massive mafic weakly foliated at 60° (?) to C.A.								
		- strong pervasive carbonatization/sericitization, weak fracture controlled carbonatization								
		- minor to 1% thin quartz stringer veinlets throughout								
		- locally carbon-filled fractures								
		- minor disseminated pyrite in mafic								
		- fine, tan leucoxene grains throughout	02882	209.0	210.5	1.5	tr			
		- gradational contacts	02883	210.5	212.0	1.5	0.03			
			02884	212.0	213.5	1.5	tr			
			02885	213.5	215.0	1.5	tr			
			02886	215.0	216.5	1.5	tr			
		216.05 7 cm quartz vein sup-parallel to foliation at 50° to C.A.	02887	216.5	218.0	1.5	tr			
			02888	218.0	219.5	1.5	tr			
		221.31 6cm quartz-carbonate vein subparallel (?) to foliation at 70° to C.A., minor hydromuscovite in vein	02889	219.5	221.0	1.5	tr			
221.72	237.75	ALTERED MAFIC								
		- fine grained, buff grey to light grey, granular, altered massive mafic weakly foliated at 55-60° to C.A.								
		- intense pervasive sericitization/carbonatization, weak carbonaceous alteration in lower portion of unit.								

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DATE:

PROPERTY

PAGE NO. 8

FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM m	TO	SAMPLE LENGTH m	ASSAYS		
						Au		
						gram		
	- minor to 1% irregular quartz veining throughout, discontinuous and narrow							
	- tan leucoxene grains common in lower half of unit							
	- minor to 2% scattered pyrite generally in weak carbonaceous altered portion of unit, and peripheral to quartz veins, brassy cubic and dark varieties							
	- gradational contacts							
		02890	221.0	222.5	1.5	tr		
	221.72 - 232 buff grey section with minor to 1% scattered pyrite	02892	222.5	224.0	1.5	1.44		
	230.16 - 230.21 irregular zone of quartz veining bounded by a slip plane at 20° to C.A., VISIBLE GOLD flecks at 230.17 along wallrock margin	02893	224.0	225.5	1.5	0.03		
		02894	225.5	227.0	1.5	tr		
		02895	227.0	228.5	1.5	tr		
		02896	228.5	230.0	1.5	tr		
		02897	230.0	231.5	1.5	0.03		
		02898	231.5	233.0	1.5	0.03		
	231.0 beginning of distinct leucoxene grains, increase in number and size towards lower grey mafic							
	232.0 - 237.75 weakly carbonaceous altered mafic; leucoxene bearing, minor to 5% scattered pyrite principally peripheral to quartz veins							
	233.29 irregular quartz vein approximately 4-5cm wide with extremely uneven margins, crosscutting foliation at 20° to C.A., common wallrock inclusions	02899	233.0	234.5	1.5	12.82		
	1-2% pyrite along vein margins	02900	234.5	236.0	1.5	1.71		
		02901	236.0	237.5	1.5	1.78		
	235.56 6cm quartz vein crosscutting foliation at 50°, 1-2% pyrite and minor arsenopyrite in wallrock, 3-4% dark carbonate in vein in fractures							

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PROPERTY

HOLE NO.

PAGE NO. 9

FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM m	TO	SAMPLE LENGTH m	ASSAYS			
						Au			
	and along vein margins								
	236.11 19 cm quartz vein subparallel to foliation (U-50°, L-60°), minor hydromuscovite and carbonate in vein, wallrock inclusions with 1% pyrite in lower 6cm of vein								
	236.50 - 237.75 carbon filled fracture planes throughout.								
237.75	241.65								
	GREY MAFIC								
	- medium to dark grey, fine grained, carbonaceous altered mafic moderately to strongly foliated at 55-60° to C.A.								
	- moderate to strong pervasive carbonaceous alteration								
	- fine, tan leucoxene grains locally								
	- 3-5% irregular quartz veining throughout								
	- 2-7% brassy pyrite throughout as disseminated blebs associated with quartz veining, and in fractures								
	- gradational contacts								
	238.91 6cm quartz vein subparallel to foliation (U-35°, L-20°) 5% grey carbonate in vein, minor pyrite in vein, 3-5% pyrite in wallrock	02902	237.5	239.0	1.5	1.54			
		02903	239.0	240.5	1.5	3.09			
		02904	240.5	242.0	1.5	0.99			
	239.21 5cm irregular quartz vein crosscutting foliation at 20° to C.A., with extremely irregular vein margins, minor hydromuscovite in fractures, 2-3% pyrite along vein margins, 5% pyrite in wallrock								
LOGGED BY: M. Jerome		DATE:	PROPERTY		HOLE NO.		PAGE NO. 10		

FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS			
						Au			
		AE	m		m	gram			
	239.86 - 240.37 zone of quartz veining (15-25%), melange of tectonized quartz veins wallrock, 2-5% pyrite								
	240.26 6cm quartz vein crosscutting foliation at 30° to C.A., minor to 1% pyrite along vein margin								
	240.8 - 242.0 leucoxene bearing grey mafic								
241.65	255.65								
	MASSIVE MAFIC								
	- fine grained, granular light to buff grey, altered massive mafic moderately foliated at 60-65° to C.A.:								
	- strong pervasive carbonatization/sericitization, weak pervasive carbonaceous alteration								
	- tan leucoxene grains throughout, fine 1-3%								
	- minor to 1% thin (1-2cm) quartz veins throughout generally crosscutting foliation	02905	242.0	243.5	1.5	tr			
	- minor to 3% pyrite as dark and brassy varieties disseminated in mafic	02906	243.5	245.0	1.5	0.03			
	- gradational contacts	02907	245.0	246.5	1.5	tr			
		02908	246.5	248.0	1.5	tr			
		02909	248.0	249.5	1.5	tr			
		02910	249.5	251.0	1.5	0.48			
		02911	251.0	252.5	1.5	1.95			
		02912	252.5	254.0	1.5	0.03			
		02913	254.0	255.5	1.5	tr			
		02914	255.5	257.0	1.5	tr			
LOGGED BY: M. Jerome		DATE:		PROPERTY		HOLE NO.		PAGE NO. 11	

FROM - TO	DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS			
						Au			
		AE	m		m	gram			
	243.72 2cm quartz vein crosscutting foliation at 50° to C.A., VISIBLE GOLD specks along upper vein margin at 243.74								
	250.0 - 254.0 zone of minor to 7% scattered disseminated pyrite, with weak carbonaceous alteration, minor-1% quartz veining								
	251.66 7cm quartz vein crosscutting foliation at 30° to C.A., 2-3% dark and brassy pyrite along vein margins								
255.65	269.0 HIGH MG PILLOWED MAFIC								
	- waxy greyish green to medium greyish-green, fine grained, high Mg pillowed mafic								
	- moderate to strong fracture controlled carbonatization throughout								
	- 5-10% thin, stringer, carbonate veinlets throughout								
	- pillow selvages generally 1-2cm wide, dark grey, and indistinct								
	- minor disseminated pyrite locally								
	- gradational contacts								
	255.65 - 256.68 broken core								
269.0	271.55 GREY MAFIC								
	- fine grained, medium grey, carbonaceous altered high Mg mafic moderately foliated at 50-55° to C.A.	02915	267.5	269.0	1.5	0.03			
		02916	269.0	270.5	1.5	0.07			
		02917	270.5	272.0	1.5	tr			

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PROPERTY

HOLE NO.

PAGE NO. 12

DIAMOND DRILL LOG SAMPLE RECORD

HOLE No. H13-47.

PAGE _____ OF _____

SAMPLE NUMBER	FOOTAGE			G/T.			DESCRIPTION
	From	To	Length				
	233.0	234.5	1.5	12.82			
	234.5	236.0	1.5	1.71			
	236.0	237.5	1.5	1.78			
	237.5	239.0	1.5	1.54			
	239.0	240.5	1.5	3.09			
	240.5	242.0	1.5	0.99			
	242.0	243.5	1.5	tl			
	243.5	245.0	1.5	0.03			
	245.0	246.5	1.5	tn			
	246.5	248.0	1.5	tn			
	248.0	249.5	1.5	tn			
	249.5	251.0	1.5	0.48			
	251.0	252.5	1.5	1.95			
	252.5	254.0	1.5	0.03			
<u>AVERAGES:</u>	233.0	240.5	7.5	4.19			0.12/24.6
	240.5	252.5	12.0	0.29			
	233.0	252.5	19.5	1.76			0.05/64.0

FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
0	28.22	OVERBURDEN							
28.22	143.69	SEDIMENTS							
		- light to medium grey, fine grained, interbedded greywacke and argillite sediments at 20-25° to C.A. increasing downhole to 35-40°							
		- topping direction downhole as indicated by bedding features							
		- gritty greywacke sediments (light grey) predominant uphole decreasing in proportion to argillite sediments (medium grey) downhole							
		- minor thin quartz-carbonate veining throughout parallel with bedding with associated minor pyrite, pyrite also associated with fractures in sediments. minor sphalerite in thin carbonate veinlets locally							
		- unit extremely broken in upper portion of unit with core loss, lost core from 28.44 - 29.0, 30.03 - 32.0, 33.26 - 35.0, 36.0 - 33.0, 38.70 - 41.0, 41.68 - 44.0, 44.86 - 47.0, 48.0 - 50.0							
		51.0 bedding at 20° to C.A.							
		55.61 end of HQ core							
		57.84 bedding at 22° to C.A.							
		58.65 2-3% sphalerite in thin secondary carbonate veinlets							
		68.33 bedding at 20° to C.A., soft sediment deformation indicates downhole topping direction							
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FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
	75.59 16cm quartz-carbonate vein subparallel to bedding at 60° to C.A., 1-3% hydromuscovite in fractures in vein							
	80.5 bedding at 20° to C.A.							
	105.34 graded sequence topping downhole at 30° to C.A.							
	116.78 bedding at 35° to C.A.							
	121.65 bedding at 40° to C.A.							
	130.77 bedding at 40° to C.A.							
	135.0 - 143.69 development of crenulation cleavage perpendicular to bedding, increasing carbonaceous content, increased cubic pyrite (1-3%) over last 1.5m							
	143.62 - 143.69 15-20% cubic pyrite							
	sheared and broken lower contact							
143.69	151.18							
	CARBONACEOUS ARGILLITE							
	- fine grained, dark grey to black, bedded carbonaceous argillite at 40-50° to C.A.							
	- 1-2% thin carbonate veinlets parallel with bedding throughout							

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FROM - TO		DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS		
				m	m		Au gram		
		- 1-3cm carbonatized mafic (?) intrusive locally							
		- minor to 5% scattered brassy cubic pyrite throughout							
		- light grey, moderate to strongly carbonatized mafic (?) intrusives parallel with bedding at 143.96 - 143.98 (45°), 144.28 - 144.31 (50°), 144.36 - 144.39 (50°), 145.84 - 145.88 (50°), 146.94 - 147.13 (40°)							
		147.25 - 147.35 quartz vein with broken contacts	02918	146.0	147.5	1.5	tr		
			02919	147.5	149.0	1.5	tr		
151.18	158.0	GRAPHITIC ARGILLITE							
		- fine grained, dark grey to black, conductive graphitic argillite bedded at 40-45° to C.A.							
		- thin, white carbonate stringer veins and planes generally parallel with bedding							
		- graphitic slip surfaces throughout							
		- minor to 2% pyrite in fractures and along bedding planes							
		- gradational upper contact							
		152.21 - 153.05 tectonized graphitic argillite with broken carbonate minor pyrite disrupted bedding							
158.0		END OF H13-48 (29/06/87), pull up to 128m set plug, top of wedge at 125m, wedge down (H13-48A)							

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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
126.0	143.64	SEDIMENTS							
		- light to medium grey, fine grained interbedded greywacke and argillite sediments at 35-40° to C.A. (similar to sediments from 28.22-43.69 in H13-48)							
		- minor thin carbonate veinlets throughout							
		- minor pyrite in fractures and associated with carbonate veinlets							
		- gradational lower contact							
		127.17 bedding at 35° to C.A.							
		131.32 bedding at 40° to C.A.							
		136.0 - 143.64 development of cleavage perpendicular to bedding with graphitic slip surfaces							
143.64	152.49	CARBONACEOUS ARGILLITE							
		- fine grained, dark grey to black, bedded carbonaceous argillite at 45-50° to C.A., similar to carbonaceous argillite from 143.69 - 151.18m in H13-48							
		- 1-2% thin carbonate veinlets generally parallel with bedding							
		- light green-grey carbonated mafic (?) intrusives locally							
		- gradational contacts							
		- minor to 3% scattered cubic brassy pyrite throughout							
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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
		- light grey, moderate to strongly carbonatized mafic (?) intrusives parallel with bedding at 144.25 - 144.32 (30°), 144.92 - 144.96 (45°), 146.60 - 146.64 (30°), 147.83 - 148.30 (35°)							
152.49	179.96	GRAPHITIC ARGILLITE							
		- fine grained, dark grey to black, conductive graphitic argillite bedded at 40-45° to C.A., similar to graphitic argillite from 151.18 - 158.0 in H13-48							
		- 1-2% thin carbonate veins generally parallel with bedding with associated brassy pyrite, minor to 7% brassy pyrite throughout in - carbonate veinlets scattered at random, semi-massive locally							
		- graphitic slip surfaces throughout							
		155.71 - 155.75 light greenish-grey carbonated mafic (?) intrusive at 45° to C.A.							
		166.08-166.12 mafic (?) intrusive at 45° to C.A., minor scattered fine pyrite within							
		169.70 - 171.67 greywacke rich section with 3-5% pyrite							
179.96	189.79	FRACTURED MAFIC							
		- fine grained, light to buff grey, fractured pillowed (?) mafic moderately to strongly foliated at 45-50° to C.A.							
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FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS			
				m		Au gram			
	- unit weakly to strongly tectonized (insitu fracturing to complete brecciation)								
	- minor to 1% stringer carbonate veinlets throughout	02920	188.0	189.5	1.5	tr			
	- moderate to strong pervasive carbonatization throughout, very weak to weak pervasive carbonaceous alteration locally	02921	189.5	191.0	1.5	tr			
	- minor to 1% cubic brassy pyrite in upper portion of unit								
	- unit locally has 1-2mm dark carbonate amygdules								
189.79	202.68								
	PILLOWED MAFIC								
	- fine grained, light green, pillowed mafic weakly to moderately foliated at 50-55° to C.A.								
	- lower portion of unit weakly to moderately pervasively carbonatized								
	- minor to 1% quartz-carbonate veining and thin carbonate veinlet								
	- pillow selvages generally less than 1cm wide, at 50° to C.A., and locally with minor pyrrhotite								
	- 1-2mm elongate, oval carbonate amygdules locally								
	- gradational contacts								
	198.5 - 202.68 weak to moderate pervasive carbonatization increasing downhole								
202.68	207.57								
	FRACTURED MAFIC								
	- light greenish-grey to medium greenish-grey fractured mafic moderately foliated at 50° to C.A.								
	- moderate to strong pervasive carbonatization throughout, very weak to weak pervasive carbonaceous alteration locally.								

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FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m	m		Au gram			
	- minor to 1% thin, discontinuous, stringer carbonate veinlets throughout								
	- variable tectonism ranging from weak dilatory fracturing to complete brecciation								
	- minor scattered pyrite blebs								
	203.0 -204.0 medium grey carbonaceous altered fractured mafic	02922	202.0	203.0	1.0	tr			
		02923	203.0	204.5	1.5	tr			
		02924	204.5	206.0	1.5	tr			
		02925	206.0	207.5	1.5	tr			
207.57	210.1								
	MASSIVE MAFIC								
	- fine grained, light grey to light greenish-grey, massive mafic weakly foliated at 50° to C.A.								
	- weak dilated fracturing throughout	02926	207.5	209.0	1.5	tr			
	- weak pervasive carbonatization, very weak pervasive carbonaceous alteration	02927	209.0	210.5	1.5	tr			
	in lower portion of unit.								
	- minor thin carbonate veining								
210.1	213.68								
	GREY MAFIC								
	- fine grained, medium grey, carbonaceous altered massive mafic weakly to moderately foliated at 50-55° to C.A.								
	- weak pervasive carbonaceous alteration and carbonatization throughout								
	- 1-2% thin erratic carbonate stringer veinlets throughout								
	- minor scattered pyrite locally								
	- gradational contacts								
	- weak fracturing throughout								
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FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH (m)	ASSAYS			
			(m)			Au gram			
	211.66 19 cm wide carbonate vein subparallel to foliation at 60° to C.A.	02928	210.5	212.0	1.5	tr			
		02929	212.0	213.5	1.5	tr			
213.68	218.0								
	MASSIVE MAFIC								
	- fine grained, light greenish-grey massive mafic weakly to moderately foliated at 50° to C.A., similar to massive mafic unit from 207.57 - 210.1m	02930	213.5	215.0	1.5	0.07			
	- weak fracturing throughout								
	- minor thin carbonate veinlets throughout								
218.0	End of H13-48A (01/07/87), pull up to 203m - set plug, top of wedge at 200m, wedge down (H13-48B)								
201.0	202.78								
	PILLOWED MAFIC								
	- fine grained, medium greyish-green, pillowed mafic weakly to moderately foliated at 45-50° to C.A., similar to pillowed mafic unit in H13-48A from 189.79-202.68m								
	- weak dilated fracturing throughout, increasing in intensity downhole								
	- minor thin carbonate veinlets and carbonate amygdules								
202.78	206.61								
	FRACTURED MAFIC								
	- fine grained, light to medium greyish-green, fractured mafic (pillowed?) moderately to strongly foliated at 45-50° to C.A. similar to fractured mafic unit from 202.68 - 207.57 in hole H13-48A								
	- moderate to strong pervasive and fracture controlled carbonatization, weak pervasive carbonaceous alteration locally								
	- minor discontinuous, thin carbonate veining throughout								
	- gradational contacts								
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FROM - TO		DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS							
								Au gram						
206.61	217.23	MASSIVE MAFIC												
		- fine grained, light greyish-green to light grey massive mafic weakly to moderately foliated at 45-50° to C.A.												
		- weak dilated fracturing throughout												
		- weak pervasive and fracture controlled carbonatization throughout, very weak to weak pervasive carbonaceous alteration												
		- minor to 1% thin, irregular carbonate stringers throughout												
		- gradational contacts												
		- minor scattered pyrite												
			02932	206.0	207.5	1.5	tr.							
			02933	207.5	209.0	1.5	tr							
			02934	209.0	210.5	1.5	tr							
		211.38 - 213.97 light/medium grey, very weak to weakly carbonaceous altered zone, minor pyrite in fractures and with carbonate veinlets	02935	210.5	212.0	1.5	tr							
			02936	212.0	213.5	1.5	tr							
			02937	213.5	215.0	1.5	tr							
			02938	215.0	216.5	1.5	tr							
			02939	216.5	218.0	1.5	tr							
217.23	220.16	GREY MAFIC												
		- Fine grained, light greyish-green, fractured pillowed (?) mafic strongly foliated at 45-50° to C.A.												
		- weak to moderate pervasive carbonaceous alteration, moderate to strong pervasive carbonatization												
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FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS				
				m		Au gram				
	- weak dilatatory fracturing throughout with brecciation locally									
	- minor thin carbonate stringer veining	02940	218.0	219.5	1.5	tr				
	- minor scattered pyrite	02941	219.5	221.0	1.5	1.06				
	- gradational contacts									
220.16	221.22									
	FRACTURED MAFIC									
	- fine grained, light greyish-green, fractured pillowed(?) mafic strongly foliated at 45-50° to C.A.									
	- moderate to strong pervasive carbonatization									
	- unit strongly tectonized - generally all breccia with minor dilated fracturing	02942	221.0	222.5	1.5	tr				
	carbon filled fractures									
	- minor pyrite in carbonaceous matrix, minor sphalerite locally									
221.22	246.31									
	PILLOWED MAFIC									
	- fine grained, light green pillowed mafic weakly to moderately foliated at 50-55° to C.A.									
	- weak pervasive carbonatization									
	- minor thin, irregular, discontinuous carbonate stringer veinlets throughout									
	- minor to 1% oval, elongate, white carbonate amygdules in central portion of unit									
	- pillow selveges generally less than 1cm wide, dark green/grey, 40-50° orientations with bleached pillow margins, minor pyrrhotite in selveges locally									
	- minor fracturing throughout, increasing in intensity downhole with local									
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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
		breccia zones							
		- gradational contacts							
		226.52 7cm carbonate vein parallel to foliation at 35° to C.A. with minor wallrock inclusions, minor chlorite patches							
		242.27 - 246.31 weak dilated fracturing with local breccia zones, carbonaceous matrix and fracture filling							
		243.43 - 244.38, 244.72 - 245.01, 246.02 - 246.31 breccia zones							
246.3	298.19	MASSIVE MAFIC							
		- fine grained, light green to greyish-green to light grey, massive mafic weakly foliated at 50-55° to C.A.							
		- variable alteration intensities and types throughout - locally very weak pervasive and fracture controlled carbonatization, mottled chloritic spotting with bleaching							
		- minor thin carbonate and quartz-carbonate veining throughout, generally subparallel with foliation							
		- weak fracturing locally							
		- minor fine beige leucoxene grains locally							
		- gradational contacts							
		246.3 - 248.0 minor, very fine leucoxene grains in a weakly fractured massive mafic							
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FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m			Au			
						gram			
	249.72 - 251.69 light to medium grey weakly carbonaceous altered zone with minor crosscutting carbonate veining	02943	248.0	249.5	1.5	tr			
		02944	249.5	251.0	1.5	tr			
		02945	251.0	252.5	1.5	tr			
	252.28 16 cm quartz-carbonate vein subparallel(?) to foliation (upper -30°, lower -80°), 50-60% brown-beige clinozoisite, 40-50% quartz, minor carbonate and pyrite								
	256.60 - 261.5 fine grained, light greyish-green section with minor fine leucoxene grains								
	264.69 - 280.55 light green, mottled and chloritic spotted massive mafic								
	267.80 - 273.3 possible pillowed mafic section with remnant pillow selvages, obscured by alteration								
	273.37 9cm quartz-clinozoisite - carbonate vein crosscutting foliation at (upper -75°, lower -80°)								
	275.67 8cm carbonate-chlorite vein crosscutting foliation (upper -50°, lower 45°)								
	280.55 - 290.0 light buff-grey, mottled massive mafic								
		02946	288.5	290.0	1.5	tr			
	290.0 - 298.19 light greyish-green to grey massive mafic with increasing carbonaceous alteration towards lower grey mafic, moderate pervasive carbonatization throughout, minor carbonate veining	02947	290.0	291.5	1.5	0.03			
		02948	291.5	293.0	1.5	tr			
		02949	293.0	294.5	1.5	tr			

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FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m			Au			
		02950	294.5	296.0	1.5	tr			
		02951	296.0	297.5	1.5	tr			
	294.70 12cm carbonate vein crosscutting foliation at 60° to C.A., minor ribbon of dravite near upper contact								
298.19	305.32								
	GREY MAFIC								
	- fine grained, medium grey, carbonaceous altered massive mafic weakly foliated at 50-55° to C.A.								
	- weak pervasive carbonaceous alteration, weak to moderate pervasive carbonation								
	- weak fracturing throughout						ppb	gram	
	- minor thin carbonate veining								
	- gradational contacts								
	- minor scattered pyrite blebs	02952	297.5	299.0	1.5	i	tr		
		02953	299.0	300.5	1.5	8			
	304.74 - 304.90 complex carbonate veined zone, extremely irregular contacts with common wallrock inclusions. Minor scattered pyrite	02954	300.5	302.0	1.5	8			
		02955	302.0	303.5	1.5	15			
		02956	303.5	305.0	1.5	165			
	305.13 13cm (?) quartz-carbonate vein subparallel to foliation at 50° to C.A., minor pyrite in quartz, 5% galena with carbonate in lower quarter of unit								
305.32	309.65								
	MASSIVE MAFIC								
	- fine grained, light greenish-grey to grey, massive mafic weakly								

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FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS								
			AF	m		m	ppb							
	foliated at 50-55° to C.A.													
	- weak pervasive carbonatization, sericitization, very weak pervasive carbonaceous alteration with weak fracturing in upper portion of unit													
	- gradational contacts	02957	305.0	306.5	1.5	355								
	- minor scattered pyrite locally	02958	306.5	308.0	1.5	15								
		02959	308.0	309.5	1.5	11								
309.65	340.93													
	ALTERED MASSIVE MAFIC													
	- fine to medium grained, granular, light buff-grey to grey to mauve-grey, altered massive mafic, very weakly to weakly foliated at 50-60° to C.A.													
	- variable alteration types and intensities throughout - strong to intense pervasive sericitization, carbonatization and silicification (locally), minor carbonaceous alteration													
	- minor thin quartz veining throughout generally crosscutting foliation at high angles													
	- variable sulphide content - nil to 5% pyrite-pyrrhotite or pyrite locally, minor arsenopyrite peripheral to quartz veining locally													
	- tan to pink-grey fine leucoxenes throughout													
	i) 309.65 - 314.54 light grey, strongly carbonatized/sericitized massive mafic with local pyrite													
	310.3 - 310.8 4-5% dark pyrite disseminated in mafic and concentrated peripheral to a 2cm wide quartz vein crosscutting foliation at 40° to C.A. at 310.49m	02960	309.5	311.0	1.5	162								
		02961	311.0	312.5	1.5	11								
		02962	312.5	314.0	1.5	11								
		02963	314.0	314.54	0.54	26								
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FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS		
			m	m		Au ppb	gram	
	ii) 314.54 - 316.60 medium mauve-grey, granular, intensely sericitized/carbonatized, leucoxene bearing massive mafic, 2-5% fine dark and brassy pyrite and pyrrhotite throughout, minor fine arsenopyrite peripheral to thin quartz veinlets, gradational contacts	AE						
		02964	314.54	315.54	1.0		108.69	
		02965	315.54	317.0	1.46		1.5	
	315.35 truncated quartz vein with 15-80% patches of massive to semi massive pyrite, smear of VISIBLE GOLD flecks in offshoot thin quartz-filled fracture at 315.30							
	iii) 316.60 - 318.70 altered massive mafic with minor pyrite and quartz veining	02966	317.0	318.5	1.5	606		
	iv) 318.70 - 323.7 altered massive mafic with 1-4% dark pyrite throughout (5% locally), minor pyrrhotite locally up to 1mm pink-tan leucoxenes throughout, minor quartz veining							
	318.70 - 319.10 medium mauve-grey, granular zone with 4-5% pyrite-pyrrhotite, minor arsenopyrite	02967	318.5	320.0	1.5	594		
		02968	300.0	321.5	1.5		1.61	
	320.58 4cm quartz vein crosscutting foliation (U-45°, L-65°) with irregular contacts, 1-2% ribbony dravite and hydromuscovite in vein, 3-5% dark pyrite in surrounding wallrock							
	321.96 13 cm quartz vein crosscutting foliation at 55° to C.A., minor pyrite along wallrock margins	02969	321.5	323.0	1.5	447		
		02970	323.0	324.5	1.5		2.02	
		02971	324.5	326.0	1.5	34		
		02972	326.0	327.5	1.5	98		

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FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m	m		Au ppb			
	y) 323.7 - 340.93 medium buff/mauve-grey, leucoxene bearing, strongly carbonatized /sericitized massive mafic, minor thin quartz veining, minor scattered pyrite	02973	327.5	329.0	1.5	19			
		02974	329.0	330.5	1.5	15			
		02975	330.5	332.0	1.5	89			
		02976	332.0	333.5	1.5	15			
		02977	333.5	335.0	1.5	18			
		02978	335.0	336.5	1.5	14			
		02979	336.5	338.0	1.5	15			
		02980	338.0	339.5	1.5	49			
		02981	339.5	341.0	1.5	29			
340.93	342.3								
	GREY MAFIC								
	- light to medium grey, fine grained, carbonaceous altered massive mafic weakly to moderately foliated at 50-55° to C.A.	02982	341.0	342.5	1.5	40			
	- weak pervasive carbonaceous and carbonate alteration								
	- minor irregular quartz veining with associated minor brassy pyrite in veins and in surrounding wallrock								
	- fine grained tan-beige leucoxenes throughout								
	- minor fracturing								
342.3	383.31								
	ALTERED MAFIC								
	- fine grained, granular, light buff-grey to light grey, altered massive mafic weakly foliated at 55-60° to C.A.								
	- variable alteration types and intensities throughout - strong to intense sericitization/carbonatization, weak carbonaceous alteration locally								
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FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m	ASSAYS		
			m			Au ppb	gram	
	- minor quartz veining							
	- gradational contacts							
	i) 342.3 - 352.06 light (buff) grey, altered massive mafic with minor scattered pyrite	02983	342.5	344.0	1.5	36		
		02984	344.0	345.5	1.5	49		
		02985	345.5	347.0	1.5		6.00	
	350.27 start of pyrite occurrence increasing downhole	02986	347.0	348.5	1.5	22		
		02987	348.5	350.0	1.5	18		
	ii) 352.06 - 352.41 light grey, weakly carbonaceous altered section with minor 3% scattered dark and brassy pyrite	02988	350.0	351.5	1.5	163		
		02989	351.5	352.5	1.0	237		
	352.96 - 353.19 23 cm irregular quartz vein subparallel (?) to foliation (U-25°, L-65°) minor to 1% pyrite along vein margins 1-3% pyrite in surrounding wallrock	02990	352.5	353.5	1.0	288		
		02991	353.5	354.5	1.0	355		
		02992	354.5	356.0	1.5	549		
	iii) 353.41 - 356.84 light grey, intensely sericitized/carbonatized massive mafic, 1-3% scattered dark and brassy pyrite throughout, minor quartz veining crosscutting foliation	02993	356.0	357.5	1.5	147		
		02994	357.5	359.0	1.5	754		
		02995	359.0	360.5	1.5	47		
		02996	360.5	362.0	1.5	171		
	iv) 356.84 - 376.0 light buff grey to grey strongly carbonatized/sericitized massive mafic with minor scattered dark pyrite, minor veining	02997	362.0	363.5	1.5	488		
		02998	363.5	365.0	1.5	101		
		02999	365.0	366.5	1.5	32		
	v) 376.0 - 383.31 light grey, intensely altered section, leucoxene bearing, locally weak carbonaceous alteration, minor quartz veining crosscutting foliation with associated minor arsenopyrite in wallrock locally, minor to 2% pyrite throughout (dark and brassy varieties)	03000	366.5	368.0	1.5	12		
		AF						
		01666	368.0	369.5	1.5	11		
		01667	369.5	371.0	1.5	14		
		01668	371.0	372.5	1.5	6		

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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS	
			m			Au ppb	gram
	380.27 - 380.34 irregular quartz vein crosscutting (?) foliation, fine blue-grey quartz (?) eyes in wallrock, VISIBLE GOLD speck in quartz near lower margin at 380.34	01669	372.5	374.0	1.5	8	
		01670	374.0	375.5	1.5	45	
		01671	375.5	377.0	1.5		1.37
		01672	377.0	378.5	1.5		1.65
		01673	378.5	380.0	1.5		1.20
		01674	380.0	381.60	1.6		1.68
		01675	381.6	383.31	1.71		1.41
383.31	388.2						
	MASSIVE HIGH MG MAFIC						
	- light green to greyish-green, fine grained, massive high Mg mafic weakly foliated at 60° to C.A.	01676	383.31	384.5	1.19	37	
	- weak pervasive carbonatization, chloritization	01677	384.5	386.0	1.5	22	
	- minor quartz veining crosscutting foliation	01678	386.0	387.5	1.5	469	
	- minor fracturing	01679	387.5	389.0	1.5	115	
	- gradational contacts						
388.2	389.63						
	GREY MAFIC						
	- fine grained, light-medium grey, carbonaceous altered high Mg mafic moderately foliated at 60°	01680	389.0	390.5	1.5	489	
	- weak pervasive carbonaceous alteration and carbonatization						
	- minor erratic thin carbonate and quartz veining with associated minor pyrite						
	- gradational contacts						

LOGGED BY:

DATE:

PROPERTY

HOLE NO.

PAGE NO.

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T P P K - M

DIAMOND DRILL LOG SAMPLE RECORD

HOLE No. H13-48

PAGE _____ OF _____

SAMPLE NUMBER	FOOTAGE			g/t.			DESCRIPTION
	From	To	Length				
	314.54	315.54	1.0	108.69	108.69		
	315.54	317.0	1.46	1.54	1.2484		
	317.0	318.5	1.5	0.61	.915		
	318.5	320.0	1.5	0.59	.885		
	320.0	321.5	1.5	1.61	2.415		
	321.5	323.0	1.5	0.45	.675		
	323.0	324.5	1.5	2.02	3.015		
	324.5	326.0	1.5	0.03			
	344.0	345.5	1.5	0.05			
	345.5	347.0	1.5	6.00			
	347.0	348.5	1.5	0.02			
	348.5	350.0	1.5	0.02			
	350.0	351.5	1.5	0.16			
	351.5	352.5	1.0	0.24			
	352.5	353.5	1.0	0.29			
	353.5	354.5	1.0	0.36			
	354.5	356.0	1.5	0.55			
	356.0	357.5	1.5	0.15			
	357.5	359.0	1.5	0.75			
	359.0	360.5	1.5	0.05			
	360.5	362.0	1.5	0.17			
	362.0	363.5	1.5	0.49			
	363.5	365.0	1.5	0.10			

DIAMOND DRILL LOG SAMPLE RECORD

HOLE No. H13-48.

PAGE _____ OF _____

SAMPLE NUMBER	FOOTAGE						DESCRIPTION
	From	To	Length				
	365.0	366.5	1.5	0.03			
	366.5	368.0	1.5	0.01			
	368.0	369.5	1.5	0.01			
	369.5	371.0	1.5	0.01			
	371.0	372.5	1.5	0.01			
	372.5	374.0	1.5	0.01			
	374.0	375.5	1.5	0.05			
	375.5	377.0	1.5	1.37			
	377.0	378.5	1.5	1.65			
	378.5	380.0	1.5	1.20			
	380.0	381.6	1.6	1.68			
	381.6	383.31	1.71	1.41			
<u>AVERAGES</u>	314.54	324.5	9.96	11.93			0.35/32.7'
	344.0	347.0	3.0	3.03			0.09/9.8'
	375.5	383.31	7.81	1.46			0.04/55.6'

KIDD CREEK MINES LTD.
EXPLORATION DIVISION

DRILL HOLE RECORD

HOLE NO. H13-49 PROPERTY Syngold JV #1 PROJECT NO. 008155 CONTRACTOR Bradley Bros. START 10/07/87
 COORDINATES Grid Location: Latitude 395S UTM: Lat. Surveyed: Lat. Mine Grid: Lat.
 Departure 20W Dep. Dep. Dep.
 COLLAR ATTITUDE Azimuth 335° Dip -52° LENGTH 351m CORE SIZE BQ
 Elevation Elev.

INCLINATION TESTS

Rotodip/Acid Tests

Compass Tests

Depth	Dip	Depth	Dip

Depth	Observed Azimuth	True Azimuth	Dip
92m	In casing		-52.0°
134m	12.5°NW	338.5°	-48.0°
164m	13.0°NW	338.0°	-46.5°
194m	11.5°NW	339.5°	-45.0°
233m	11.5°NW	339.5°	-44.0°
263m	10.5°NW	340.5°	-42.5°
298m	10.5°NW	340.5°	-40.0°
323m	11.0°NW	340.0°	-39.0°

REMARKS 6m of 37m NW casing pulled, BW casing to 123.0m

Logged by M. Jerome Date 23/07/87 Property Hole No. H13-49

FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
0	37.0	OVERBURDEN							
37.0	83.0	SEDIMENTS							
		- fine grained, light to medium grey, interbedded greywacke and argillite sediments at 25-35° to C.A. (generally 30°)							
		- indistinct topping direction							
		- increasing carbonaceous content downhole							
		- unit broken throughout with core loss							
		- minor scattered pyrite throughout							
		- nil to minor carbonate veining							
		37.77 - 38.0 lost core							
		40.25 bedding at 25° to C.A.							
		45.16 bedding at 30° to C.A.							
		58.2 - 59.0 lost core							
		59.83 bedding at 25° to C.A.							
		67.44 - 68.0 lost core							
		68.97 bedding at 35° to C.A.							
LOGGED BY: M. Jerome		DATE:	PROPERTY	HOLE NO.	PAGE NO.	1			

FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS		
			m			Au ppb		
	77.25 bedding at 30° to C.A.							
	79.12 - 80.0 lost core							
	80.26 increase in carbonaceous argillite content with minor to 1% cubic brassy pyrite							
	broken lower contact							
83.0	89.72							
	GRAPHITIC ARGILLITE							
	- fine grained, dark grey to black, bedded graphitic argillite at 35-40° to C.A.							
	- unit extremely broken throughout							
	- minor to 80-90% massive/nodular pyrite locally							
	- broken contacts							
	83.78 - 86.0 lost core							
	86.65 - 86.96 85-95% massive and nodular pyrite, minor carbonate	01682	86.0	87.5	1.20	261	}	lost core
	87.79 - 88.17 40-45% nodular and massive pyrite	01683	87.5	89.0	1.20	261		
	86.0 - 89.0 2.39 of 3.0m of core recovered							
LOGGED BY: M. Jerome		DATE:		PROPERTY		HOLE NO.		PAGE NO. 2

FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS				
			m			Au ppb				
123.14 - 159.0	PILLOWED MAFIC									
	- fine grained, buff grey to light green to greyish-green, pillowed mafic weakly to moderately foliated at 45-50° to C.A.									
	- weak to moderate pervasive carbonatization throughout particularly in buff grey areas, weak pervasive chloritization locally									
	- unit locally amygdaloidal with 1-3% oval, elongate, carbonate amygdules									
	- minor to 1% thin carbonate veinlets and thicker quartz-carbonate veins throughout									
	- pillow selvages generally 1-2cm wide, chloritized (dark grey-green), variable orientation (25-35° to C.A.), locally with well-formed, hyaloclastitic texture.									
	- weak fracturing locally									
	123.14 - 126.85 buff grey, carbonatized/bleached section									
	129.26 - 135.40 weakly chloritized section (light green)									
	133.90 well-formed hyaloclastitic selvege									
	140.16 - 140.42 25cm quartz vein crosscutting foliation (U-broken L-60° to C.A.), minor wallrock inclusions, chloritic patches, very minor pyrite	01684	140.0	141.0	1.0	14				
	142.8 - 143.32 irregular quartz vein with complex contacts, common wallrock inclusions, minor to 1% emerald green hydromuscovite along fractures and in patches, minor pyrite	01685	142.5	144.0	1.5	23				
LOGGED BY: M. Jerome		DATE:	PROPERTY		HOLE NO.		PAGE NO. 4			

FROM - TO		DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS							
				m				Au ppb						
		145.10 - 145.64 lost core												
		158.13 - 158.90 shear zone at 40-45° to C.A. with minor, fine scattered pyrite pyrrhotite, chlorite patches	01686	158.0	159.0	1.0	18							
159.0	170.79	MASSIVE MAFIC												
		- fine grained, buff-greenish grey to light greenish-grey massive mafic weakly foliated at 45-50° to C.A.												
		- weak pervasive carbonatization throughout, weak carbonaceous alteration nearing grey zone												
		- minor thin, irregular carbonate veinlets throughout												
		- minor to nil scattered pyrite-pyrrhotite												
		- gradational lower contact												
		159.0 - 164.0 buff grey section												
		164.0 - 170.79 light grey to greenish-grey section with medium grey carbonaceous altered zones												
170.79	181.85	GREY MAFIC												
		- fine grained, light to medium grey, carbonaceous altered massive mafic moderately foliated at 45-50° to C.A.												
		- weak to moderate pervasive carbonatization, moderate to strong pervasive carbonatization												
LOGGED BY: M. Jerome		DATE:	PROPERTY	HOLE NO.		PAGE NO. 5								

FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS			
						Au			
		AF	m	m	m	ppb			
	- minor thin carbonate veinlets throughout	01687	170.0	171.0	1.0	6			
	- minor slickensides on core interiors	01688	171.0	172.45	1.45	18			
	- gradational contacts	01689	172.45	174.0	1.55	8			
	- minor scattered pyrite	01690	174.0	175.5	1.50	10			
	172.48 4cm wide, irregular quartz vein with numerous off-shoot veinlets,	01691	175.5	177.0	1.5	12			
	subparallel (?) to foliation at 65°, 3-5% brown dravite along vein	01692	177.0	178.5	1.5	11			
	margins, minor pink carbonate	01693	178.5	180.0	1.5	11			
		01694	180.0	181.5	1.5	14			
181.85	195.49	01695	181.5	183.0	1.5	11			
	MASSIVE MAFIC								
	- fine grained, light green to medium greyish-green, massive mafic weakly								
	foliated at 55-60° to C.A. unit light in middle, darker at top and bottom								
	- weak pervasive and fracture-controlled carbonatization, weak pervasive								
	chloritization								
	- minor thin, erratic carbonate veinlets throughout								
	- minor scattered pyrite locally								
	- gradational contacts								
	- minor, fine leucoxene grains (white-cream) scattered locally								
195.49	203.65								
	GREY MAFIC								
	- fine grained, light to medium greenish-grey carbonaceous altered massive								
	mafic weakly foliated at 50-55° to C.A.								
	- very weak to weak pervasive carbonaceous alteration, weak to moderate								
	pervasive carbonatization								
LOGGED BY: M. Jerome		DATE:	PROPERTY		HOLE NO.	PAGE NO. 6			

FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS				
			m			Au				
	- minor to 1% thin, irregular, carbonate and quartz-carbonate veinlets throughout									
	- minor scattered pyrite in grey mafic and associated with thin carbonate veinlets									
	201.07 irregular quartz vein crosscutting foliation at 30° to C.A., minor pyrite in vein, brown (carbonate?) mineral rimming wallrock inclusion in vein	01696	195.0	196.5	1.5	140				
		01697	196.5	198.0	1.5	29				
		01698	198.0	199.5	1.5	96				
		01699	199.5	201.0	1.5	167				
		01701	201.0	202.5	1.5	21				
		01702	202.5	204.0	1.5	14				
203.65	207.98									
	PILLOWED MAFIC									
	- fine grained, light to medium green, pillowed mafic moderately foliated at 50° to C.A.									
	- weak to moderate pervasive carbonatization, weak chloritic alteration									
	- up to 5mm oval, elongate carbonate amygdules throughout									
	- minor, thin, carbonate veinlets throughout									
	- pillow selvages generally 1cm wide, dark green (chloritized), 25-45° to C.A.									
	- gradational contacts									
207.98	229.47									
	MASSIVE MAFIC									
	- fine grained, light to medium greyish green, massive mafic weakly to moderately foliated at 50-55° to C.A.									
	- weak pervasive and fracture-controlled carbonatization, weak pervasive chloritization locally, mottled chloritic spotting with bleaching downhole									

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PAGE NO. 7

FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
	- minor discontinuous and erratic, thin carbonate veining throughout							
	- minor carbon filled fracturing with pyrite locally							
	- fine white leucoxene grains in zones throughout							
	- gradational contacts							
229.47	246.0	PILLOWED MAFIC						
	- fine grained, light green to greyish-green pillowed mafic weakly foliated at 50-55° to C.A.							
	- Weak pervasive carbonatization towards lower massive mafic, weak pervasive chlorite alteration locally							
	- locally 1-4mm oval, elongate, carbonate amygdules							
	- minor thin quartz-carbonate veinlets, locally with minor pyrrhotite							
	- weak fracturing throughout							
	- pillow selvages generally 35-45° chloritized 5-10mm wide with bleached pillow margins, minor pyrrhotite in selvages locally							
	243.60 - 246.0 shear zone at 35-40° to C.A., increasing intensity towards lower contact, wispy chloritic/sericite alteration, sharp lower contact at 40° to C.A.							
246.0	252.18	MASSIVE MAFIC						
	- fine grained, granular, medium grey to greenish-grey massive mafic weakly foliated at 55-60° to C.A.							
	- weak pervasive carbonaceous ^{and} chloritic alteration							
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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m			Au ppb			
	- thin erratic, carbonate veining throughout								
	- gradational lower contact								
	246.54 - 249.42 weak grey mafic	01703	246.0	247.5	1.5	10			
		01704	247.5	249.0	1.5	8			
		01705	249.0	250.5	1.5	12			
	251.93 - 252.03 5cm carbonate vein crosscutting foliation at 15° to C.A.	01706	250.5	252.1	1.6	15			
	minor chlorite along margins, 1-3% black tourmaline blotches								
252.18	326.14								
	ALTERED MASSIVE MAFIC								
	- fine grained granular light/medium grey to pale bleached grey to mauve-grey altered massive mafic weakly foliated at 50-55° to C.A. -								
	- variable alteration types and intensities throughout-strong to intense pervasive sericitization/carbonatization, very weak pervasive chloritization, carbonaceous alteration locally								
	- up to 3-4% pyrite and/or pyrrhotite disseminated in intensely altered zones								
	- minor quartz and carbonate veining throughout								
		01707	252.1	253.5	1.4	7			
	i) 252.18 - 259.03 fine grained, medium greenish grey, moderately chloritized mafic, fine white to beige leucoxene grains throughout	01708	253.5	255.0	1.5	21			
		01709	255.0	256.5	1.5	44			
		01710	256.5	258.0	1.5	12			
	ii) 259.03 - 268.37 intensely sericitized/carbonatized, pale grey, granular, minor quartz veining, fine white feldspar clots and tan-beige leucoxene grains throughout, minor to 4% scattered pyrite	01711	258.0	259.5	1.5	63			
		01712	259.5	261.0	1.5	523			
		01713	261.0	262.5	1.5	133			
		01714	262.5	264.0	1.5	37			
		01715	264.0	265.5	1.5	14			

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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m			Au ppb	gram		
	feldspar clots and tan-beige leucoxene grains throughout, minor to 5% scattered pyrite	01716	265.5	267.0	1.5	21			
		01717	267.0	268.5	1.5	604			
	266.80 - 268.37 minor to 4% dark and brassy pyrite scattered throughout, most concentrated from 267.19 - 267.91m								
	iii) 268.37 - 270.44 intensely altered, pale grey massive mafic with 1-5% scattered pyrite-pyrrhotite 1-3% thin erratic quartz veining throughout								
	269.11 12cm quartz vein crosscutting foliation at 75° to C.A., 10-15% grey carbonate blotches in vein					2.81 4.5			
	269.75 - 270.10 irregular quartz vein crosscutting foliation (L-35°), 2-3% scattered pyrite-pyrrhotite in wallrock, VISIBLE GOLD specks with grey carbonate inclusions at 270.06 and 270.08m	01718	268.5	270.15	1.65	2.64			4.00 3.0
	iv) 270.44 - 290.72 strongly to intensely sericitized/carbonatized light to buff grey, massive mafic, fine tan leucoxene grains locally throughout, 1-2% scattered dark and brassy pyrite locally	01719	270.15	271.5	1.35	5.66			
		01720	271.5	273.0	1.5	59			
		01721	273.0	274.5	1.5	6			
	276.39 9cm complex quartz-carbonate vein crosscutting (?) foliation, carbonate offshoots in wallrock	01722	274.5	276.0	1.5	11			
		01723	276.0	277.5	1.5	143			
	279.0 - 282.0 0.47m of core missing	01724	277.5	279.0	1.5	75			
		01725	279.0	280.25	1.25	21			0.47m lost
		01726	280.25	281.53	1.28	97			core from
	285.40 - 290.72 minor to 1% scattered dark pyrite throughout	01727	282.0	283.5	1.5	133			279.0-282.0
		01728	283.5	285.0	1.5	128			

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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS		
			m			Au ppb	gram	
	289.86 9cm quartz-carbonate vein subparallel to foliation at 40° to C.A.	01729	285.0	286.5	1.5	685		
		01730	286.5	288.0	1.5	132		
	v) 290.72 - 326.14 buff to buff grey (light grey), moderately to strongly carbonatized, locally weakly carbonaceous altered (light grey sections)	01731	288.0	289.5	1.5	15		
	massive mafic, minor thin quartz veining throughout, grey chloritic spots throughout fine leucoxenes locally	01732	289.5	291.0	1.5		1.95	
		01733	291.0	292.5	1.5	14		
		01734	292.5	294.0	1.5	4		
		01735	294.0	295.5	1.5	7		
	290.72 - 312.0 buff, carbonatized, massive mafic	01736	295.5	297.0	1.5	3		
		01737	297.0	298.5	1.5	4		
		01738	298.5	300.0	1.5	6		
	312.0 - 326.14 alternating buff massive mafic with weak carbonaceous altered sections	01739	300.0	301.5	1.5	3		
		01740	301.5	303.0	1.5	45		
		01741	303.0	304.5	1.5	4		
	309.21 9cm quartz-carbonate vein crosscutting foliation (perpendicular to C.A.)	01742	304.5	306.0	1.5	7		
		01743	306.0	307.5	1.5	6		
		01744	307.5	309.0	1.5	2		
	309.48 6cm quartz-carbonate vein crosscutting foliation at 75° to C.A.	01745	309.0	310.5	1.5	6		
		01746	310.5	312.0	1.5	3		
	318.20 - 319.58 very weakly carbonaceous altered zone	01747	312.0	313.5	1.5	3		
		01748	313.5	315.0	1.5	3		
		01749	315.0	316.5	1.5	3		
		01750	316.5	318.0	1.5	38		
		01751	318.0	319.5	1.5	263		
		01752	319.5	321.0	1.5	21		
		01753	321.0	322.5	1.5	6		
		01754	322.5	324.0	1.5	10		

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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS			
0	31.0	OVERBURDEN								
31.0	110.0	SEDIMENTS								
		- fine grained, light to medium grey, interbedded greywacke and carbonaceous argillite sediments bedded at 25-35° to C.A.								
		- possible uphole topping direction from indistinct graded sequences								
		- minor thin discontinuous carbonate veinlets throughout								
		- minor fracture-controlled pyrite locally								
		- unit broken with core loss locally								
		31.0 - 32.0 oxidized, weathered broken sediments								
		35.24 bedding at 20° to C.A.								
		40.56 - 41.0 lost core								
		43.26 - 44.0 lost core								
		42.42 quartz vein (6cm thereof) with broken contacts								
		49.37 bedding at 30° to C.A.								
		61.67 bedding at 30° to C.A.								
		69.78 end of NQ core								
LOGGED BY: M. Jerome		DATE:	PROPERTY		HOLE NO.		PAGE NO. 1			

FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
0	31.0	OVERBURDEN						
31.0	155.47	SEDIMENTS						
		- fine grained, interbedded gritty greywacke sediments (light grey) and finer grained argillite (medium grey) at 25-30° to C.A., increase in argillite content downhole						
		- indistinct graded sequences indicate possible uphole topping direction						
		- minor, thin, irregular carbonate veinlets throughout with minor pyrite locally						
		- upper portion of unit broken and fractured with core loss						
		core loss: 31.75 - 32.0, 37.77-38.0, 39.44 - 41.0						
		42.24 bedding at 30° to C.A.						
		50.83 - 51.25 possible graded section at 25° to C.A.						
		61.40 bedding at 24° to C.A.						
		63.24 end of NQ core						
		84.59 bedding at 25° to C.A.						
		96.04 bedding at 30° to C.A.						
LOGGED BY:		DATE:	PROPERTY	HOLE NO.	PAGE NO. 1			

FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
	98.0 - 155.47 predominantly carbonaceous argillite with slight increase in pyrite occurrence							
	106.96 bedding at 20° to C.A.							
	113.0 beginning of crenulation cleavage perpendicular to bedding, increase intensity downhole							
	126.08 bedding at 32° to C.A.							
	- fine grained, granular light greenish-grey, carbonatized mafic (?) intrusives generally parallel with bedding at:							
	128.94 (4 cm, 45°) 129.19 (9cm, 40°) 133.74 (21 cm, 40°), 134.25 (3cm 65°), 136.24 (15 cm 45°), 136.75 (7cm, 40°) 145.50 (8cm, 50°), 145.66 (25 cm, 40°)							
	146.88 bedding at 25°							
	152.03 - 154.16 carbon-rich, shear zone with pyrite, broken carbonate veinlets							
155.47	170.39 GRAPHITIC ARGILLITE							
	- fine grained, black to dark grey, bedded graphitic argillite at 30-40° to C.A., bedding folded and bent locally (tectonized)							
	- 1-3% erratic thin carbonate stringers uphole, parallel to bedding downhole							
LOGGED BY:		DATE:	PROPERTY	HOLE NO.	PAGE NO. 2			

FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
91.0	146.86	SEDIMENTS							
		- fine grained, light to medium grey, interbedded gritty greywacke sediments and fine grained argillite at 25-35° to C.A. generally, unit similar to sediments in H13-50A from 31.0 - 155.47							
		91.77 - 92.0 lost core							
		92.77 bedding at 25° to C.A.							
		100.76 bedding at 30° to C.A.							
		112.0 beginning of crosscutting crenulation cleavage increasing in intensity downhole							
		117.0 bedding at 25° to C.A.							
		119.2 - 119.63 shear zone at 40° to C.A.							
		- fine grained, granular, carbonated, light greenish-grey, mafic (?) intrusives generally subparallel with bedding at: 126.36 (9cm, 40°), 129.51 (14 cm, 40°), 132.51 (20cm, 25°), 133.64 (5cm, 30°), 142.08 (33 cm, 50°)							
		133.08 bedding at 20° to C.A.							
		gradational lower contact							

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PAGE NO. 4

FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS			
162.48	173.77	FRACTURED MAFIC								
		- fine grained, light to medium grey, fractured massive mafic weakly foliated at 35-40° to C.A.								
		- weak to very weak pervasive carbonaceous alteration in upper portion of hole, weak pervasive and fracture controlled pervasive carbonatization throughout								
		- minor to 1% thin, erratic, carbonate and quartz-carbonate veinlets throughout								
		- minor scattered pyrite locally								
		- variable intensity of stress throughout - range from weak insitu brecciation/fracturing to complete brecciation, carbon filling of fractures								
		162.48 - 164.0 moderate to strong pervasive carbonaceous alteration obscuring mafic								
		164.0 - 168.5 weak pervasive carbonaceous alteration								
173.77	179.67	MASSIVE MAFIC								
		- fine grained, buff grey, massive mafic weakly foliated at 40-45° to C.A.								
		- weakly to moderately pervasively carbonatized								
		- minor thin carbonate veinlets throughout								
		- weak fracturing obscured by alteration								
		- minor scattered pyrite throughout								
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FROM - TO	DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS			
						Au ppm			
	178.26 - 179.67 fractured mafic, locally amygdaloidal (possibly pillowed), carbon-filled fractures	AF							
	178.50 - 178.63 dark grey, carbonaceous altered section with minor pyrite								
179.67	183.30	GREY MAFIC							
	- medium grey fine grained, carbonaceous altered, fractured massive (?) mafic moderately to strongly foliated at 45° to C.A.	01764	178.0	179.0	1.0		.018		
	- weak pervasive carbonaceous alteration throughout, moderate to strong pervasive carbonatization	01765	179.0	180.5	1.5		.023		
	- 1-2% thin, erratic carbonate stringer veinlets throughout	01766	180.5	182.0	1.5		.012		
	- minor, scattered pyrite throughout	01767	182.0	183.5	1.5		.014		
	- insitu brecciation and dilated fracturing throughout								
	- sharp lower contact								
183.30	188.0	PILLOWED MAFIC							
	- fine grained, light green to buff-green, pillowed mafic weakly foliated at 45-50° to C.A.								
	- weak to moderate pervasive carbonatization throughout								
	- locally, 1-4mm oval carbonate amygdules								
	- minor, thin quartz-carbonate and carbonate veinlets								
	- pillow selvages generally less than 1cm wide, with bleached pillow margins								
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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
158.47	169.30	FRACTURED MAFICS							
		Dark grey-buff to light buff-coloured and fine grained. Unit is moderately carbonatized and weakly carbonaceous. Moderately fractured throughout with the fractures having been dilated and filled with carbonaceous material. Moderate foliation at 40-45° to the core axis. Unit carries 1% cubic pyrite.							
		158.47 - 165.57 medium to dark grey-buff zone. Strongly fractured throughout, which are carbonaceous filled. Carries 1-2% cubic and fine masses pyrite pillowed?							
		158.65 - 159.00 lost core							
		165.57 - 169.30 light buff-coloured weakly fractured zone. Definitely a pillowed sequence.							
169.30	176.63	PILLOWED MAFICS							
		Light to medium buff-coloured and fine grained. Unit is pillowed with thin 10-40mm, weakly chloritic selvages. Unit is strongly carbonatized and moderately sericitized. Minor 1-3mm carbonate amygdules. Weakly fractured, which are carbonate filled.							
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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS		
								Au ppm	
176.63	181.09	GREY FRACTURED MAFICS	AE						
		Medium grey and fine grained. Unit is moderately fractured throughout, which are carbonaceous filled. Unit is moderately carbonatized and carbonaceous. Minor shearing at 50° to the core axis paralleling foliation. Minor thin carbonate stringers and minor pyrite.	7517	176.5	178.0	1.5	.021		
			7518	178.0	179.5	1.5	.007		
			7519	179.5	181.0	1.5	.006		
181.09	198.55	PILLOWED MAFICS							
		Light buff-coloured to light green and fine grained. Unit pillowed with 10-30mm chloritic selvages with hyaloclastite often visible. Amygdaloidal with 1-3mm carbonate filled amygdules. Unit is bleached about the pillow selvages, amygdules and fractures. Weak foliation at 40-45° to the core axis.							
		181.09 - 184.23 Medium buff coloured, moderately carbonatized zone							
		184.23 - 198.55 light to medium green, relatively fresh pillowed mafics. Minor feldspar phenocrysts developed adjacent to pillow selvages.							
		109.84 - 191.06 quartz vein at 70-75° to the core axis crossing foliation. Carries 5-7% coarse light buff coloured clinozoisite.							
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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS							
214.03	216.05	SHEARED PILLOWED MAFICS												
		Light to medium green, fine grained. In part sheared at 40° to the core axis. Sheared portion dark green and chloritic. Carries 2-3% thin irregular carbonate stringers.												
		214.03 - 214.97 Dark green, strongly sheared zone.												
		214.97 - 216.05 Light green pillowed and amygdaloidal mafics. Weakly sheared. Minor bleaching about selvages and amygdules.												
216.05	231.72	MASSIVE MAFICS												
		Medium green to buff-green and medium to coarse grained. Carries minor fine white leucoxenes. Moderate foliation at 45-50° to the core axis. Locally bleached.												
		216.05 - 221.09 Light green granular zone that is weakly carbonatized and chloritic.												
		221.09 - 226.02 Medium buff-green to dark buff moderately carbonatized zone. Carries 1-2% thin carbonate stringers and minor cubic pyrite.												
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FROM - TO		DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m.	ASSAYS						
				m.	m.		Au						
		226.02 - 229.62 Dark buff-green to green moderately chloritic and carbonatized zone. Carries 2-3% thin carbonate stringers.	7528	228.0	229.5	1.5	.027						
		229.62 - 230.76 Carbonate zone with coarse grey to white carbonate crystals. Carries 20-25% buff coloured mafic inclusions, minor pyrite and minor pyrrhotite.	7529	229.5	231.0	1.5	.069						
		230.76 - 231.72 Dark green-buff massive mafics with minor pyrite and pyrrhotite. Moderately carbonatized.	7530	231.0	232.5	1.5	.468						
231.72	233.30	PILLOWED MAFICS											
		Medium green, fine grained short interflow unit. Pillowed with thin, 5-10mm selvages. Amygdaloidal with 1-3mm carbonate filled amygdules. Local bleached patches. Weakly fractured which are carbonate filled.											
233.30	235.87	MASSIVE MAFICS											
		Medium green and fine to medium grained. Unit is leucoxene bearing with 1-2% fine white leucoxene crystals. Unit is moderately chloritic and weakly carbonatized. Weak foliation at 45-50° to the core axis.											
235.87	263.15	PILLOWED MAFICS											
		Light to medium green, fine grained and moderately hard. Pillowed with thin 10-60mm selvage zones. Unit is also amygdaloidal with 1-4mm. often											

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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS		
								Au	
		"pipe-like" carbonate filled amygdules. Weak bleaching occurs about the selvages and amygdules. Weak foliation at 50° to the core axis. Minor pyrrhotite in the selvages.	AE						
		@ 243.30 a wedge was set at the bottom of drill hole H13-50C. Core starts again at 243.0m and drill hole now designated H13-50D.							
263.15	270.13	MASSIVE MAFICS							
		Medium green to green-buff and medium grained. Moderately carbonatized (reacts to HCl acid). Unit is weakly to moderately bleached which gives core a mottled appearance. Minor fine white leucoxenes throughout. Weak foliation at 50-55° to the core axis. Carries minor pyrite and minor thin carbonate stringers.							
		269.75 - 270.13 Dark grey sheared carbonaceous zone with 20-30% intermixed quartz and 1% fine pyrite.	7531	268.2	269.7	1.5	.004		
			7532	269.7	270.2	0.5	.006		
270.13	278.24	PILLOWED MAFICS							
		Very similar to unit at 235.87m. Moderately bleached about pillow selvages, amygdules and fractures							

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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS		
				m.	m.		AU		
278.24	281.36	FLOW BRECCIA	AE						
		Light green, fine grained oblong fragments in a dark green chloritic matrix. Matrix locally contains light cream coloured feldspar (Albite?) 2-3mm in size. The fragments range from 20-60mm in diameter and have distinct bleached rims.							
281.36	285.71	PILLOWED MAFICS							
		Very similar to unit at 270.13. Becomes moderately carbonatized and sericitic towards end of unit.							
285.71	362.85	ALTERED MASSIVE MAFICS							
		Dark grey-green to various buff shades and fine to medium grained. Ranges from moderately to intensely carbonatized. Usually with a granular appearance.							
		285.71 - 295.76 Dark grey-green zone. Moderately carbonatized (reacts to HCl acid) and weakly chloritic. Minor carbonate stringers. Minor pyrite and sphalerite. Moderate foliation at 50-55° to the core axis.							
		285.71 - 288.41 Amygdaloidal zone with 1-3mm round calcite filled amygdules.							
			7533	285.5	287.0	1.5	.027		
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FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS			
			m.			m.	Au		
	@ 287.77 a large 20x3mm sphalerite clot in a carbonate patch.	AE 7534	287.0	288.5	1.5				
	@ 290.33, a 15mm carbonate vein at 35° to the core axis. Parallels foliation with 5% red sphalerite. Sheared contacts.	7535	288.5	290.0	1.5				
		7536	290.0	291.5	1.5	.012			
	@ 291.94, a 10-20mm quartz vein at 20° to the core axis. Parallels foliation with 15% intermixed carbonate. Sheared contacts.	7537	291.5	293.0	1.5	.029			
	@ 293.49, a 10-15mm quartz vein at 65° to the core axis. Subparallel to foliation with minor pyrite. Sheared carbonaceous contacts.	7538	293.0	294.5	1.5	.004			
	295.76 - 300.96 Medium to dark grey-buff zone. Intensely carbonatized (does not react to HCl acid). Carries 1-3% fine pyrite, 1% pyrrhotite and 3-5% quartz veining. Hazy tan coloured leucoxenes throughout.	7539	294.5	295.7	1.2	.007			
	295.76 - 296.09 Dark grey sheared zone with 20-30% intermixed quartz paralleling foliation. Central portion broken and carbonaceous. Carries 1-2% pyrite and minor hydromuscovite.	7540	295.7	296.5	0.8	.022			
	296.09 - 296.36 Quartz vein at 36° to the core axis paralleling foliation. Carries 10-15% mafic inclusions, 5-7% pyrite and pyrrhotite, 1% arsenopyrite within the inclusions and 1% fracture controlled hydromuscovite.					3.67			
	296.38 - 300.97 Intensely altered zone with 2-3% streaky pyrite and pyrrhotite and 1-3% quartz veining.								

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FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS			
			m.	m.		Au			
	297.04 - 297.78 light grey-green strongly bleached (silicified) zone with 5-7% pyrite and pyrrhotite.	AE 7541	296.5	297.9	1.4	ppm 2.02			
	298.49 - 298.60 quartz vein at 70° to the core axis. Crosses foliation with 5% dravite in a 2-3mm band, minor pyrite and pyrrhotite and minor hydromuscovite.	7542	297.9	299.3	1.4	.608			
	299.39, a 30mm quartz vein at 60° to the core axis. Parallels foliation with a 2-4mm dravite band along upper contact and 3-5% pyrite and pyrrhotite.	7543	299.3	300.8	1.5	.307			
	300.39 - 300.49 quartz vein at 40-60° to the core axis. Crosses foliation with minor pyrite and minor dravite.								
	300.96 - 317.17 Dark buff, gradually becoming a light buff colour. Coarse grained and granular. Strongly carbonatized. Carries 2-3% tan to mauve coloured leucoxenes. Minor carbonate stringers. Towards end of zone contains short patches with dendritic carbonaceous material.	7544	300.8	302.3	1.5	.047			
		7545	302.3	303.8	1.5	.008			
		7546	303.8	305.3	1.5	.014			
		7547	305.3	306.8	1.5	.004			
		7548	306.8	308.3	1.5	.006			
	317.17 - 320.00 Medium buff-coloured granular zone. Carries 1-3% fine clotty pyrite along foliation planes and within fractures and minor quartz stringers. Minor carbonaceous material about the quartz stringers. Moderate foliation at 55° to the core axis.	7549	308.3	309.8	1.5	.007			
		7550	309.8	311.3	1.5	.012			
		7551	311.3	312.8	1.5	.010			
		7552	312.8	314.3	1.5	.007			
		7553	314.3	315.8	1.5	.004			
		7554	315.8	317.3	1.5	.015			

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FROM - TO	DESCRIPTION	SAMPLE NO. AE	FROM — TO		SAMPLE LENGTH m.	ASSAYS				
			m.	m.		g/g	g/g	g/g	g/g	
	@ 317.59, a 3mm quartz stringer at 60-65° to the core axis. Crosses foliation with several fine flecks Visible Gold within vein.	7555	317.3	318.6	1.3	1.71				V.G.
	@ 318.67, a weakly contorted 30mm vein at 30-50° to the core axis. Crosses foliation with 5% mafic inclusions and 1-2% pyrite.	7556	318.6	320.1	1.5	.622				
	319.10 - 319.19 Quartz-carbonate zone at 70° to the core axis. Parallels foliation with minor fine pyrite.									
	320.00 - 323.45 Weak grey zone. Medium to dark grey-buff in colour and fine grained. Intensely carbonatized and weakly carbonaceous. 3-5% dark tan coloured leucoxenes. Carries 3-5% streaky pyrite and pyrrhotite and 5% quartz veining.									
	@ 320.18, a 70mm quartz vein at 45° to the core axis. Parallels foliation with 10-15% mafic inclusions and 1% pyrite and pyrrhotite.	7457	320.1	321.6	1.5	2.74				
	@ 320.50, a 50mm quartz-carbonate vein at 80° to the core axis. Crosses foliation with minor pyrite and chalcopyrite.									
	321.11 - 321.22 quartz vein at 75° to the core axis. Crosses foliation with 1% pyrite about the contacts.									

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FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS			
						Au ppm			
	@ 321.45 a weakly contorted 20mm quartz-carbonate vein at 65-70° to the core axis. Parallels foliation with minor pyrite and sphalerite.	AE							
	@ 321.87 a 55mm quartz vein at 65-80° to the core axis. Crosses foliation with 5-7% fine pyrite about the contacts and within fractures, and 2-3% pyrrhotite.	7558	321.60	323.10	1.5	9.94			V.G.
	322.05 - 322.15 Quartz vein at 40-60° to the core axis. Parallels foliation with 2-3% fracture controlled pyrite.								
	@ 322.19, a 15mm quartz vein at 70° to the core axis. Parallels foliation with 3-5% fine pyrite along the contacts.								
	@ 322.23, a 20mm carbonate-quartz vein at 75° to the core axis. Parallels foliation with 10-15% fine pyrite and 5% dravite.								
	322.27 - 322.35 Quartz vein at 75-80° to the core axis. Crosses foliation with 1-2% fracture controlled pyrite and minor pyrrhotite.								
	@ 322.61, a 4mm quartz vein at 70° to the core axis. Crosses foliation with 2-3% pyrrhotite masses. Several small Visible Gold flecks are associated with one pyrrhotite mass.								
	@ 322.69, a 30mm quartz-carbonate vein at 70° to the core axis. Crosses foliation with 2-3% fracture controlled pyrite.								
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FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS			
			m.	m.		Au ppm			
	@ 323.39, a 15mm quartz vein at 60° to the core axis. Crosses foliation with 1-2% pyrite and pyrrhotite.	AE 7559	323.10	324.20	1.2	1.71			
	@ 328.30, a 50mm quartz vein at 50-55° to the core axis. Crosses foliation with minor pyrite.								
	323.45 - 344.58 Light buff to medium grey-buff zone. Intensely carbonatized throughout. Sulphide content varies from minor to 4% - predominantly pyrite. Minor quartz veining. Moderate foliation at 55-60° to the core axis.								
	323.45 - 325.70 zone with 2-3% fine clotty pyrite, minor pyrrhotite and minor quartz stringers.	7560	324.20	325.70	1.5	.960			
	326.68 - 329.21 zone with 2-4% fine clotty pyrite and 1-2% quartz stringers.	7561	323.70	327.0	1.3	.112			
	@ 327.29, a 5mm quartz vein at 80° to the core axis. Crosses foliation with minor pyrite.	7562	327.0	328.0	1.0	2.26			
	@ 327.44, a 20-30mm quartz vein at 10-40° to the core axis. Parallels foliation with 2-3% fine pyrite.								
	@ 327.61, a 5mm quartz vein at 80° to the core axis. Crosses foliation with 2-3% pyrite and pyrrhotite.	7563	328.0	329.5	1.5	.506			
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FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS			
			m.	m.		Au ppm			
	330.42 - 330.75 zone with 1-2% fine clotty pyrite.	7564	329.5	331.0	1.5	.226			
	331.10 - 332.96 light buff-coloured zone with 2-3% "two-tone" pyrite, 1% pyrrhotite and 1-2% quartz veining.	7565	331.0	332.0	1.0	.398			
	@ 332.21, a 20-50mm quartz vein at 60° to the core axis. Parallels foliation with 1% pyrite and pyrrhotite and minor sphalerite.	7566	332.0	333.0	1.0	4.97			
	332.33 - 332.46 irregular quartz patch at 10-30° to the core axis. Carries 2-3% pyrite and pyrrhotite.	7567	333.0	334.1	1.1	1.41			
	334.82 - 336.25 zone with 1-2% fine pyrite and 1-2% quartz veining.								
	@ 334.86, a 15mm quartz vein at 70° to the core axis. Crosses foliation.	7568	334.1	335.1	1.0	.032			
	@ 335.44, a 50mm quartz vein at 80° to the core axis. Crosses foliation with 10% coarse carbonate and minor pyrite. Weakly carbonaceous contacts.	7569	335.1	336.5	1.4	1.10			
	@ 336.17, a 55mm quartz-carbonate vein at 70-80° to the core axis. Crosses foliation.								
	336.25 - 342.00 Light buff coloured zone with very minor pyrite and minor thin quartz stringers.								
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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS							
								Au						
362.85	397.0	PILLOWED MAFICS	AE											
		Light to medium green-buff and fine to medium grained. Pillowed unit with hazy 10-60mm chloritic selvages. Varioles are occasionally seen adjacent to the pillow selvages. Unit is strongly carbonatized and sericitized. Local bright green fuchsitic (chloritic?) zones. Weak foliation at 65° to the core axis												
			7587	362.0	363.5	1.5	.067							
			7588	363.5	365.0	1.5	.010							
		366.15 - 367.14 Pale green fuchsitic (chloritic?) zone with minor "two-tone" pyrite.												
			7589	365.0	366.5	1.5	.049							
			7590	366.5	368.0	1.5	.071							
		373.10 - 380.15 dark buff-green zone with minor thin quartz stringers.												
			7591	368.0	369.5	1.5	.012							
			7592	369.5	371.0	1.5	5.83							
			7593	371.0	372.5	1.5	.019							
		380.15 - 390.02 Light to medium buff coloured zone with local 10-30mm fuchsitic (chloritic?) patches.												
			7594	373.5	374.0	1.5	.015							
		390.02 - 397.0 light to medium green weakly bleached zone. Weakly carbonatized and chloritic. Carries 5-7% thin carbonate stringers and blebs.												
		397.00 end of hole.												

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HOLE NO.

PAGE NO. 23

DIAMOND DRILL LOG SAMPLE RECORD

HOLE No. H13-50

PAGE _____ OF _____

SAMPLE NUMBER	FOOTAGE						DESCRIPTION
	From	To	Length				
	294.5	295.7	1.2	0.022			
	295.7	296.5	0.8	3.67		2.934	
	296.5	297.9	1.4	2.02		2.818	
	297.9	299.3	1.4	0.61		.854	
	299.3	300.8	1.5	0.31		.465	
	300.8	302.3	1.5	0.05.			
	317.3	318.6	1.3	1.71		2.223	
	318.6	320.1	1.5	0.62		0.73	
	320.1	321.6	1.5	2.74		4.11	
	321.6	323.1	1.5	9.94		14.91	
	323.1	324.2	1.2	1.71		2.052	
	324.2	325.7	1.5	0.96		1.44	
	325.7	327.0	1.3	0.11		.143	
	327.0	328.0	1.0	2.26.		2.86.	
	328.0	329.5	1.5	0.51		.765	
	329.5	331.0	1.5	0.33		.495	
	331.0	332.0	1.0	0.46		.40	
	332.0	333.0	1.0	4.97		4.97	
	333.0	334.1	1.1	1.91		1.551	
	334.1	335.1	1.0	0.03		0.03	
	335.1	336.5	1.4	1.10		1.54	

FROM - TO m		DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
0	31.0	OVERBURDEN							
31.0	173.48	SEDIMENTS							
		- fine grained, light to medium grey, gritty interbedded greywacke and argillite sediments at 20 - 30° to c.a. generally.							
		- minor, thin, erratic carbonate veinlets throughout.							
		- upper portion of unit (12-15 m) broken with core loss.							
		- gradational sections indicate probable uphole topping direction.							
		- minor pyrite locally in carbonate veinlets.							
		- argillite content increasing downhole.							
		31.0 - 32.0 0.51 of 1.0 m core recovered.							
		32.0 - 38.0 3.61 of 6.0 m core recovered.							
		41.28 bedding at 25° to c.a.							
		51.28 bedding at 30° to c.a.							
		52.39 - 52.50 gradational section topping uphole.							
		56.15 bedding at 30° to c.a.							
		62.05 bedding at 35° to c.a.							

LOGGED BY: M. Jerome

DATE: Aug. 25, 1987

PROPERTY Syngold #1

HOLE NO. H13-51

PAGE NO. 1

FROM - TO m	DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
67.96	bedding at 25° to c.a.							
69.0	end of NQ core							
69.0 - 71.0	1.5 of 2.0 m of core recovered.							
82.97	bedding at 25° to c.a.							
95.18	bedding at 30° to c.a.							
106.0 - 107.0, 108.0 - 109.17	lost core							
104.06	bedding at 30° to c.a.							
112.44	4 cm carbonated, granular mafic (?) intrusive at 35° to c.a.							
123.98 - 124.31	mafic (?) intrusive.							
125.27	bedding at 20° to c.a.							
	- secondary cleavage crosscutting bedding beginning at 134.0 m. increasing downhole with increased pyrite occurrence.							
139.95	bedding at 30° to c.a.							
	- unit has tectonized appearance past 152.0 m. with broken core, common stringer							

LOGGED BY: M. Jerome

DATE: Aug. 25, 1987

PROPERTY Syngold #1

HOLE NO. H13-51

PAGE NO. 2

FROM - TO m	DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
	carbonate veinlets, and crosscutting cleavage.							
	153.88 - 154.02 mafic (?) intrusive.							
	163.59 - 163.78 mafic (?) intrusive at 48°.							
	173.0 - 173.48 carbon-rich section.							
173.48	190.77 GRAPHITIC ARGILLITE							
	- very fine grained, dark grey to black, tectonized and bedded graphitic argillite (35 - 40° to c.a.).							
	- 1 - 3% thin carbonate stringer veinlets throughout with associated minor to 2% pyrite nodules.							
	- unit fractured and broken locally, graphitic slip surfaces, crosscutting cleavage locally.							
	- gradational contacts.							
	- unit carbonated throughout.							
	178.03 - 178.19 complex quartz-carbonate vein with numerous wallrock inclusions, subparallel to bedding at 50°.							
	178.26 - 180.0 broken, tectonized core with shear at 178.70.							
	183.83 - 183.95 quartz-carbonate vein subparallel to bedding at 45° to c.a. with numerous wallrock inclusions.							
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PROPERTY Syngold #1					HOLE NO. H13-51 PAGE NO. 3			

FROM - TO m	DESCRIPTION	SAMPLE NO. AF	FROM — TO m		SAMPLE LENGTH m	ASSAYS			
						Au ppb			
	185.48 - 185.72, 185.80 - 185.90 semi-massive nodular pyritic sections.								
	188.20 bedding at 40° to c.a.								
190.77 - 204.49	MASSIVE MAFIC								
	- fine grained, medium grey, fractured massive mafic.								
	- moderately foliated at 40° to c.a.								
	- very weak to weak pervasive carbonaceous alteration, weak to moderate pervasive and fracture controlled carbonatization.								
	- minor scattered cubic pyrite within upper 2 m of graphitic argillite unit.								
	- minor thin quartz and carbonate veining throughout.								
	- weak carbon-filled dilational fracturing with local areas of brecciation (minor)								
	- broken upper contact with graphitic argillite.								
	190.77 - 192.0 minor to 1% scattered cubic pyrite, carbonaceous alteration of mafic.								
	201.79 - 202.15 complex quartz vein subparallel (?) to foliation (U - 65°, L - 80°), minor pyrite in vein along margins, 5 - 10% emerald green hydromuscovite in vein, wallrock inclusions throughout.	01768	201.5	203.0	1.5	7			
		01769	203.0	204.5	1.5	6			
204.49 - 215.35	FRACTURED MAFICS								
	- fine grained, tan grey to medium grey, fractured massive mafic moderately to strongly foliated at 40° to c.a.								

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PROPERTY Syngold #1

HOLE NO. H13-51 PAGE NO. 4

FROM - TO m	DESCRIPTION	SAMPLE NO. AF	FROM — TO m		SAMPLE LENGTH m	ASSAYS			
						Au ppb			
	- very weak to weak pervasive carbonaceous alteration locally, moderate to strong pervasive carbonatization throughout.								
	- minor scattered pyrite throughout mafic, in carbonate stringers and in fractures.								
	- structure variable throughout - ranging from weak dilational fracturing to complex brecciation with dark grey carbonaceous matrix.								
	- gradational contacts.								
		01770	204.5	206.0	1.5	8			
	207.0 - 210.5 weakly carbonaceous altered grey mafic.	01771	206.0	207.5	1.5	11			
		01772	207.5	209.0	1.5	8			
	209.65 - 209.85 16 cm quartz vein with irregular contacts (U - 50°, L - 70°), minor wallrock inclusions and clinozoisite grains along upper contact.	01773	209.0	210.5	1.5	8			
		01774	210.5	212.0	1.5	10			
		01775	212.0	213.5	1.5	11			
		01776	213.5	215.0	1.5	8			
	211.76 - 213.06 weakly carbonaceous altered grey mafic.								
215.35	221.2								
	MASSIVE MAFIC								
	- fine grained, tan-grey-green, massive mafic weakly foliated at 35 - 40° to c.a.								
	- weak to moderate pervasive and fracture controlled carbonatization throughout.								
	- minor thin carbonate stringers throughout.								
	- weak dilational fracturing throughout.								
	- gradational contacts.								
221.2	228.35								
	FRACTURED MAFIC								
	- fine grained, light tan-green to light green, fractured massive mafic (possibly								

FROM - TO m	DESCRIPTION	SAMPLE NO. AF	FROM — TO m		SAMPLE LENGTH m	ASSAYS			
						Au			
	changing to pillowed mafic downhole), moderately to strongly foliated at 40 - 45° to c.a., similar to fractured unit from 204.49 - 215.35 m.								
	- weak to moderate pervasive carbonatization throughout, very weak pervasive carbonaceous alteration locally.								
	- minor thin carbonate stringers throughout.								
	- variable structure ranging from weak dilational fracturing to complete brecciation.								
	- gradational contacts.								
228.35	237.09	PILLOWED MAFIC							
	- fine grained, light green, pillowed mafic weakly foliated at 45 - 50° to c.a.								
	- weak pervasive and fracture controlled carbonatization.								
	- 1 - 4 mm oval, creamy, carbonate-filled amygdules throughout, generally								
	2 - 5% peripheral to pillow selveges, locally pyrrhotite-filled.								
	- pillow selveges generally less than 1 cm wide, oriented at 30 - 35° to c.a.								
	- minor thin carbonate veining throughout.								
237.09	248.03	GREY MAFIC							
	- fine grained, dark to medium grey, carbonaceous altered massive (?) mafic weakly foliated at 40° to c.a.	01777	236.0	237.5	1.5	7			
	- moderate to strong pervasive carbonatization decreasing in intensity downhole.	01778	237.5	239.0	1.5	181			
	weak to moderate pervasive carbonaceous alteration.	01779	239.0	240.5	1.5	168			
	- 1 - 3% thin irregular quartz and quartz-carbonate stringer veinlets throughout	01780	240.5	242.0	1.5	162			
	with associated minor pyrite.	01781	242.0	243.5	1.5	27			
		01782	243.5	245.0	1.5	21			

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PROPERTY Syngold #1

HOLE NO. H13-51 PAGE NO. 6

FROM - TO m	DESCRIPTION	SAMPLE NO. AF	FROM — TO m	SAMPLE LENGTH m	ASSAYS			
					Au			
	- beige brown, fine leucoxene grains throughout.							
	- thin carbonate stringers throughout.							
	- mottled texture.							
	- gradational upper contact.							
	248.03 - 252.5 light grey-green, weakly carbonaceous / carbonatized massive mafic.							
	252.5 - 260.0 mottled, chloritic spotted light green massive mafic.							
260.0	END OF H13-51							
	pull up to 218 m - set plug, wedge up from 215.0 -- H13-51A							
216.0	221.2 MASSIVE MAFIC							
	- fine grained, tan-grey-green, massive mafic similar to massive unit in H13-51 from 215.35 - 221.20 m (possibly pillowed), weakly foliated at 40 - 45° to c.a.							
	- weak to moderate pervasive carbonatization throughout, very weak pervasive carbonatization in lower portion of unit.							
	- minor, thin, quartz-carbonate stringer veining throughout.							
	216.0 - 218.0 0.42 m of core missing.							
	216.40 - 216.51 10 cm quartz-carbonate vein with irregular margins (U - 60°, L - 70°), 1 - 2% light green hydromuscovite along lower and upper							

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PROPERTY Syngold #1

HOLE NO. H13-51

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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS						
m				m			m						
							Au						
				ppb									
		contacts.											
		220.2 - 221.2 very weak pervasive carbonaceous, weak fracturing increasing in intensity downhole.											
221.2	228.4	FRACTURED MAFIC											
		- fine grained, light tan-green to light green, fractured massive mafic (possibly pillowed mafic downhole), similar to fractured mafic in H13-51 from 221.2 - 228.35 m.											
		- weak pervasive and fracture controlled carbonatization throughout.											
		- variable structure - generally complete in situ brecciation with weak dilational fracturing locally.											
		227.65 - 228.4 weak pervasive carbonaceous alteration.											
228.4	237.2	PILLOWED MAFIC											
		- fine grained, light green, pillowed mafic similar to unit in H13-51 from 228.35 - 237.0 m, foliated weakly from 45 - 50° to c.a.											
		- weak pervasive and fracture controlled carbonatization.											
237.2	248.5	GREY MAFIC											
		- fine grained, dark to medium grey, carbonaceous altered massive (?) mafic weakly foliated at 40° to c.a., similar to grey mafic unit in H13-51 from	01786	236.0	237.5	1.5	7						
			01787	237.5	239.0	1.5	180						

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PROPERTY Syngold #1

HOLE NO. H13-51

PAGE NO. 8

FROM - TO m	DESCRIPTION	SAMPLE NO. AF	FROM — TO m		SAMPLE LENGTH m	ASSAYS				
						Au ppb				
	237.09 - 248.03 m.									
	- weak to moderate pervasive carbonaceous alteration decreasing in intensity towards upper and lower contacts, moderate to strong pervasive carbonatization.	01788	239.0	240.5	1.5	144				
		01789	240.5	242.0	1.5	38				
	- 1 - 3% thin, irregular, quartz and quartz-carbonate stringer veinlets throughout with associated minor pyrite, minor dravite locally.	01790	242.0	243.5	1.5	41				
		01791	243.5	245.0	1.5	8				
	- weak dilational fracturing distinguishable locally.	01792	245.0	246.5	1.5	154				
	- gradational contacts.	01793	246.5	248.0	1.5	8				
		01794	248.0	249.5	1.5	19				
248.5	250.0									
	MASSIVE MAFIC									
	- fine grained, light greyish-green to light green, massive mafic weakly to moderately foliated at 40 - 45° to c.a., similar to massive unit in H13-51 from 248.03 - 260.0 m.									
250.0										
	END OF HOLE, wedge set at 247.0									
248.0	248.57									
	GREY MAFIC									
	- latter portion of grey mafic unit from 237.2 - 248.5 in H13-51A (above).									
248.57	266.17									
	MASSIVE MAFIC									
	- fine grained, light greyish-green to light green, massive mafic weakly foliated at 40 - 45° to c.a., mottled, similar to massive mafic unit in H13-51 from 248.03 - 260.0 m, and from 248.5 - 250.0 m (above).									
	- chloritic spotting with background bleaching throughout, very weak pervasive									

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HOLE NO. H13-51

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FROM - TO m	DESCRIPTION	SAMPLE NO. AF	FROM — TO m	SAMPLE LENGTH m	ASSAYS				
					Au				
	carbonaceous alteration and carbonatization in upper 2 m of unit. - beige-brown, fine leucoxene grains throughout.								
	253.17 - 253.48 31 cm carbonate vein subparallel to foliation (U - 70°, L - 70°), minor quartz, chlorite and Mg (?) carbonate in vein.								
	263.25 - 263.40 15 cm quartz vein at 80° to foliation (crosscutting), minor carbonate.								
266.17	278.78								
	PILLOWED MAFIC								
	- fine grained, light green, pillowed mafic weakly foliated at 50 - 55° to c.a.								
	- weak pervasive carbonatization throughout.								
	- minor thin carbonate veinlets.								
	- locally, minor 1 - 3 mm elongate carbonate amygdules.								
	- pillow selvages generally thin (1 - 3 mm), variable angles (40 - 45° to c.a.).								
	- weak fracturing locally.								
	- gradational lower contact.								
278.78	285.34								
	GREY MAFIC								
	- fine grained, medium to dark grey, carbonaceous altered pillowed mafic weakly foliated at 45 - 50° to c.a.								
	- moderate to strong pervasive carbonaceous alteration, weak to moderate pervasive carbonatization throughout.								
	- minor, thin carbonate veinlets throughout.								

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HOLE NO. H13-51 PAGE NO. 10

FROM - TO m	DESCRIPTION	SAMPLE NO. AF	FROM — TO m		SAMPLE LENGTH m	ASSAYS				
						Au ppb				
	- gradational contacts. - minor pyrite locally.									
	281.67 - 281.92 complex quartz vein parallel (?) to foliation at 60° to c.a., 5 - 10% dark brown dravite throughout, minor wallrock inclusions (approximately 23 cm wide vein).	01795	278.0	279.5	1.5	4				
		01796	279.5	281.0	1.5	6				
		01797	281.0	282.5	1.5	15				
		01798	282.5	284.0	1.5	8				
		01799	284.0	285.5	1.5	19				
		01800	285.5	287.0	1.5	6				
285.34	316.2									
	PILLOWED MAFIC									
	- fine grained, light green pillowed mafic weakly foliated at 50 - 55° to c.a., unit similar to pillowed unit from 266.17 - 278.78 m.									
	- weak fracture controlled carbonatization locally.									
	- minor to 1% thin carbonate stringer veinlets throughout.									
	- pillow selvages generally less than 1 cm wide, variable orientations (40 - 60° generally), commonly with 1 - 2% elongate carbonate amygdules along margins of pillows.									
	- weak fracturing downhole.									
	- minor pyrrhotite locally in pillows and in pillow selvages.									
	312.70 - 312.97 brecciated pillowed mafic section.									
316.2	322.26									
	PILLOW BRECCIA									
	- fine grained, light buff-green, pillow fragments set in granular, medium									

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HOLE NO. H13-51

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FROM - TO m	DESCRIPTION	SAMPLE NO. AF	FROM — TO m		SAMPLE LENGTH m	ASSAYS		
						Au ppb	Au gram	
	grained, medium greyish-green mafic matrix, unit moderately foliated at 45 - 55° to c.a.							
	- mafic fragments weakly carbonatized, weak to very weak pervasive carbonaceous alteration at bottom of unit.							
	- minor, complex quartz veining locally.							
	320.38 - 321.51 irregularly carbonate veined section disguising brecciated nature, weak pervasive chloritization / carbonaceous alteration.	01801	320.0	321.0	1.5	8		
322.26	324.29							
	GREY MAFIC							
	- fine grained, light to medium grey, carbonaceous altered massive (?) mafic, indistinct foliation.							
	- weak pervasive carbonaceous alteration and moderate pervasive carbonatization throughout.	01802	321.5	323.0	1.5	7		
	- minor pyrite locally along fractures.	01803	323.0	324.5	1.5		7.23	/
	- minor veining except for a quartz vein near lower contact.							
	323.71 - 324.18 quartz vein with broken contacts subparallel to foliation at 40° (U), minor carbonate and wallrock inclusions in vein, 1 - 2% hydromuscovite along fractures.							
324.29	401.8							
	ALTERED MASSIVE MAFIC							
	- light grey (mauve) to greenish-grey, fine to medium grained (granular), altered massive mafic weakly to moderately foliated at 40 - 50° to c.a.							

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HOLE NO. H13-51 PAGE NO. 12

FROM - TO m	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m	m		Au ppb			
	- variable alteration types and intensities throughout - strong to intense pervasive carbonatization / sericitization.								
	- minor to 5% sulphide mineralization (dark and brassy pyrite, pyrrhotite) associated with intensely altered sections.								
	- quartz veining locally.								
	i) 324.29 - 333.29 light greyish-green, moderately to strongly carbonatized / sericitized, massive mafic, minor thin quartz stringers throughout, minor pyrite locally.	01804	324.5	326.0	1.5	17			
		01805	326.0	327.5	1.5	6			
		01806	327.5	329.0	1.5	8			
		01807	329.0	330.5	1.5	480			
	ii) 333.29 - 337.18 light grey to light buff-grey, intensely carbonatized / sericitized, massive mafic, thin quartz stringers locally (minor to 1%), minor to 1% disseminated pyrite.	01808	330.5	332.0	1.5	49			
		01809	332.0	333.5	1.5	6			
		01810	333.5	335.0	1.5	141			
		01811	335.0	336.5	1.5	684			
		01812	336.5	338.0	1.5	8			
	333.90 2 cm quartz vein crosscutting foliation at 55°, 1% pyrite in wallrock.								
	335.02 - 336.09 slightly darker section (less intense alteration).								
	broken lower margin.								
	iii) 337.18 - 341.17 strongly to intensely carbonatized / (sericitized), granular, light grey, massive mafic, fine buff leucoxene grains throughout, minor thin quartz stringers throughout with minor pyrite in wallrock.	01813	338.0	339.5	1.5	52			
		01814	339.5	341.0	1.5	58			

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FROM - TO m	DESCRIPTION	SAMPLE NO. At	FROM — TO m		SAMPLE LENGTH m	ASSAYS			
						Au ppb	Au gram		
	iv) 341.17 - 345.94 light grey to mauve-grey, fine grained, intensely carbonatized / sericitized, massive mafic, 5 - 7% high angle quartz veining throughout, 1 - 7% sulphide content as two tone pyrite (dark and brassy cubic) and pyrrhotite locally (generally 5 - 7% sulphide from 342.0 - 345.5).	01815	341.0	342.5	1.5		2.40		
		01816	342.5	344.0	1.5		5.83		
		01817	344.0	345.0	1.0		30.31		
		01818	345.0	346.0	1.0		9.43		
	342.26 15 cm quartz vein crosscutting foliation (U - 65°, L - 75°), 5 - 7% wallrock inclusions, 1 - 3% pyrite in wallrock, minor pyrite in vein.								
	342.92 10 cm quartz vein crosscutting foliation (U - 75°, L - 85°), minor pyrite in vein.								
	343.45 6 cm quartz vein crosscutting foliation at 70° to c.a., minor pyrrhotite in vein, VISIBLE GOLD smear with pyrite along upper margin at 343.45 m, about 5 - 7% pyrite in wallrock.								
	344.12 8 cm quartz vein crosscutting foliation at 75° to c.a., 1 - 2% pyrite / pyrrhotite in vein.								
	344.71 - 344.82 erratic, complex section of quartz veining.								
	345.35 9 cm quartz vein crosscutting foliation (U - 50°, L - 55°), minor pyrite and hydromuscovite in vein.								

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HOLE NO. H13-51

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FROM - TO m	DESCRIPTION	SAMPLE NO. AF	FROM — TO m		SAMPLE LENGTH m	ASSAYS			
			Au				ppb		
	v) 345.94 - 352.49 light / medium greenish-mauve-grey strongly altered massive mafic, mauve / tan leucoxene grains throughout.	01819	346.0	347.0	1.0	82			
		01820	347.0	348.5	1.5	119			
		01821	348.5	350.0	1.5	70			
	iv) 352.49 - 370.18 light grey, granular, strongly to intensely carbonatized/sericitized, massive mafic, minor veining, minor to 1% scattered pyrite locally.	01822	350.0	351.5	1.5	7			
		01823	351.5	353.0	1.5	80			
		01824	353.0	353.90	0.90	432			
		01825	353.90	354.90	1.0	104			
		01826	354.90	356.0	1.1	891			
		01827	356.0	357.5	1.5	45			
		01828	357.5	359.0	1.5	14			
		01829	359.0	360.5	1.5	480			
		01830	360.5	362.0	1.5	18			
		01831	362.0	363.5	1.5	307			
01832	363.5	365.0	1.5	44					
01833	365.0	366.5	1.5	549					
01834	366.5	368.0	1.5	8					
	vii) 370.18 - 374.06 very weakly carbonaceous altered, moderately to strongly carbonatized / sericitized massive mafic, minor quartz veining.	01835	368.0	369.5	1.5	10			
		01836	369.5	371.0	1.5	7			
		01837	371.0	372.5	1.5	4			
	viii) 374.06 - 387.2 medium greyish-green, strongly carbonatized (sericitized) massive mafic, minor veining, fine tan leucoxene grains throughout.	01838	372.5	374.0	1.5	3			
		01839	374.0	375.5	1.5	4			
		01840	375.5	377.0	1.5	7			
		01841	377.0	378.5	1.5	7			
	ix) 387.20 - 401.8 light / medium grey, strongly carbonatized / (sericitized) massive mafic, minor quartz veining, minor to 1% disseminated	01842	378.5	380.0	1.5	6			
		01843	380.0	381.5	1.5	10			
		01844	381.5	383.0	1.5	10			

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DATE: Aug. 25, 1987

PROPERTY Syngold #1

HOLE NO. H13-51 PAGE NO. 15

DRILL HOLE RECORD

KIDD CREEK MINES LTD. EXPLORATION DIVISION

HOLE NO. H13-52 PROPERTY Syngold J.V. #1 PROJECT NO. 008155 CONTRACTOR Bradley Bros. START August 12, 1987
 COORDINATES Grid Location: Latitude 440S UTM: Lat. SURVEYED: Lat. FINISH August 25, 1987
 Departure 120E Dep. Dep. Mine Grid: Lat. .99451, 18N
 COLLAR ATTITUDE Azimuth 333° Dip -60° LENGTH 450m CORE SIZE BQ Elevation Dep. 98342.89E
 Elev. 4984.88m

INCLINATION TESTS

Rotodip/Acid Tests

Depth	Dip	Depth	Dip

Compass Tests

Depth	Observed Azimuth	True Azimuth	Dip
54m	casing	-	-57°
84m	16°NW	335°	-57°
114m	16°NW	335°	-57°
144m	16°NW	335°	-56°
177m	13.5NW	337.5°	-57°
207m	13.5NW	337.5°	-56.5°
237m	16.5NW	334.5°	-55°
267m	14.5NW	336.5°	-53.5°
297m	15°NW	336°	-52°
327m	15°NW	336°	-51.5°
354m	13°NW	338.0°	-52.0°
387m	12.0°NW	339.0°	-49.5°
422m	14.0°NW	337.0°	-46.5°

REMARKS 9m of 26m NW casing pulled, BW casing to 54m

Logged by S.F. Povoden, M. Jerome

Date 27/08/87

Property Syngold J.V. #1

Hole No. H13-52

FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
0.00	26.00	OVERBURDEN							
26.00	163.47	SEDIMENTS							
		- medium grey, fine to medium grained, poorly sorted, gritty greywacke with feldspar, carbonate and local argillaceous rip-up clasts (stretched parallel to bedding)							
		- greywacke is intercalated with weakly carbonaceous argillaceous beds (less than 1cm and up to 28cm) oriented 20°/CA (at 46.0m); initially unit contains about 3-4% argillite which becomes thicker and more prominent with depth - by 65m have about 15% argillite, by 93m about 30% argillite and by 124.00m have about 15% greywacke							
		- graded bedding indicates tops up the hole (to the south)							
		- local carbonate veinlets (up to 2mm) comprise 1-2% of unit; generally parallel bedding but are also common at 60°/CA - may contain local pyrite clots (up to 2mm)							
		- locally pyrite may be finely disseminated (less than 1mm), clotty (up to 5mm increasing to 8mm by 72.0m; present in finer grained zones in/near argillites), as a fracture filling and along bedding planes; initially pyrite content is less than 1% but increases to 2% by 80m.							
		- core badly broken to 54.00m							
		- 26.96 to 28.00m - lost core							
LOGGED BY: SFP		DATE:	PROPERTY	HOLE NO. H13-52	PAGE NO. 1				

FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
	- 29.37 to 31.00m - lost core							
	- 32.97 to 34.00m - lost core							
	- 35.56 to 37.00m - lost core							
	- 37.63 to 40.00m - lost core							
	- 42.29 to 43.00m - lost core							
	- 45.42 to 46.00m - lost core							
	- 58.50m - bedding oriented 30°/CA							
	- 59.55 to 59.62m - carbonate veining and minor brecciation of sediments - fine pyrite (up to 2%)							
	- 68.28 to 68.34m - carbonate vein oriented 35°/CA containing 5% galena							
	- 72.5m - bedding oriented 25°/CA							
	- 81.48 to 82.00m - lost core							
	- 76.5 to 90.0m - broken core							
	- at 91.25m - bedding oriented 30°/CA							
	- 93m - finer grained greywacke with about 30% argillite beds							
	- 95.3m - secondary cleavage developed at 40°/CA approximately perpendicular to bedding							
LOGGED BY: SFP		DATE:	PROPERTY	HOLE NO. H13-52	PAGE NO. 2			

FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
	- as of 92m see local quartz-carbonate veins generally oriented parallel to bedding (up to 5cm true width) and containing minor fine pyrite							
	- 101.5m - graded bedding indicates tops up the hole (to the south)							
	- 119.0 to 124.0 - unit quite broken up							
	- 117.0m - bedding oriented at 25°/CA							
	- 129.28 to 130.00m - lost core							
	- 132.09 to 133.0m - lost core							
	- as of 124.00m - predominantly argillite with about 15% greywacke and 1-2% carbonate veinlets							
	- dendritic pyrite (up to 6mm size) is present (up to 1%)							
	- strong secondary cleavage at 50°/CA							
	at 124.0m - bedding oriented at 25°/CA							
	- 141.0m bedding at 25°/CA							
	- 155.50m - bedding oriented at 30°/CA							
	- secondary cleavage strong - oriented 30-55°/CA							
	- 162.00 to 162.48m - small shear oriented 45°/CA - contains about 10% carbonate and 4% quartz							
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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
		- contact at 163.47m oriented parallel to bedding at 30°/CA							
163.47	194.10	GRAPHITIC ARGILLITE							
		- dark grey to black, fine-grained, weakly sheared unit							
		- about 5% carbonate stringers/veinlets often oriented 30-40°/CA otherwise randomly oriented - often contain pyrite							
		- also some wider carbonate zones (up to 2cm)							
		- pyrite nodules (up to 2.5cm) and euhedra (up to 12mm) comprise up to 5% of unit; pyrite grains are often stretched parallel to foliation (30-40°/CA) and may show strain shadows							
		- local areas (up to 50cm) badly broken							
		- 168.10 to 169.50 - carbonaceous argillite							
		- 169.93 to 174.50 - carbonaceous argillite							
		- these two zones contain less than 1% carbonate veinlets and up to 1% pyrite							
		- local 10cm strongly carbonatized zones							
		- carbonate veining oriented 80°/CA at 186.0m							
		- 187.0m - locally brecciated pyrite nodules in carbonate veins.							
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FROM - TO		DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS							
								Au ppb						
		- 190.30 to 190.61m - strong shear oriented 20°/CA - badly broken with ground graphite												
		- contact at 194.10m in ground core-orientation not known												
194.10	201.13	MASSIVE MAFIC												
		- grey, fine-grained, soft, weakly carbonaceous unit												
		- weakly foliated at 30°/CA												
		- weakly to moderately carbonatized (reactant/HCl)												
		- carbonate veinlets oriented 35°/CA as well as crossing foliation												
		- local pyrite as disseminated grains (less than 1mm), clots (up to 3mm) and large euhedra (up to 6mm, near 201.0m)												
		- 195.20m - 30cm dilative fractured zone with carbonaceous infilling												
		- 194.5 to 198.5 - badly broken core												
		- 195.86 to 196.00m - lost core												
		- 199.30 to 201.13m - dilative fractured zone oriented 35°/CA with carbonaceous infilling	01383	199.63	201.13	1.50	19							
		- sharp contact at 201.13m - marked by possible shear - strongly carbonatized zone from 200.90 to 201.13m oriented 35°/CA	01384	201.13	202.00	0.87	14							
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FROM - TO		DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS			
								Au		
201.13	204.32	GREY MASSIVE MAFIC								
		- dark grey to black, fine-grained, soft, moderately carbonaceous unit								
		- moderately foliated at 20-30°/CA								
		- weakly carbonatized (strongly reactant/HCl)								
		- local, strong secondary cleavage (crenulation cleavage) oriented 60°/CA								
		- weakly fractured and carbonaceously infilled								
		- contains 2-3% pyrite as fine clots (up to 2mm) often stretched parallel to foliation and locally, large euhedra (up to 12mm)								
		- 201.52 to 201.90m - sheared subparallel to C.A.								
		@ 203.50m - 1.5cm quartz (5%) carbonate vein oriented 25°/CA parallel to foliation	01385	202.0	203.5	1.5	10			
		@ 203.54m - 3cm quartz (15%) carbonate vein oriented 20°/CA parallel to foliation								
		@ 204.03m - 4cm quartz (8%) carbonate vein oriented 40°/CA								
		- from 204.07 to 204.24m - sheared subparallel to CA crossing foliation								
		@ 204.24 to 204.32m - quartz (10-12%) carbonate vein oriented 20°/CA (at 204.24; 30°/CA at 204.32m)								
		- sharp contact at 204.32m oriented 30°/CA	01386	203.5	205.0	1.5	7			

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FROM - TO		DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS			
								Au ppb		
204.32	219.41	MASSIVE MAFIC								
		- medium grey (to 213.10m) then tan-grey, fine grained, moderately soft unit - still weakly carbonaceous								
		- foliation oriented 25-45°/CA								
		- weakly to moderately carbonatized (reactant/HCl)								
		- quartz-carbonate veinlets oriented randomly (40-45°/CA and up to 70°/CA) and comprise about 1% of unit								
		- weakly carbonaceous through to 213.10m								
		- weak to moderate dilative fracturing with carbonaceous infilling - oriented 40-50°/CA								
		- pyrite occurs as large euhedra (up to 15mm) randomly occurring or infilling fractures, and as clots (up to 10mm, but generally 3mm) which are generally stretched parallel to foliation or shearing (comprise 2-3% up to 213.2m)	01387	205.0	206.5	1.5	6			
			01388	206.5	208.0	1.5	11			
		- 207.31 to 207.94m - small shear zone oriented 20-25°/CA and contains 15% carbonate								
		- 208.28 to 208.95m - small shear zone (8% carbonate) oriented 30-35°/CA	01389	208.0	209.5	1.5	11			
		- 209.13 to 209.64m - shear oriented 30°/CA containing 15% quartz, and 10-15% carbonate	01390	209.5	211.0	1.5	6			
			01391	211.0	212.5	1.5	12			
			01392	212.5	214.0	1.5	12			
		- contact at 219.41m oriented 50°/CA - 219.18 to 219.41m - somewhat brecciated								

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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
		(or strong dilative fracturing) with carbonate are carbonaceous infilling - stretching is parallel to contact							
219.41	243.10	PILLOWED MAFIC							
		- light green with yellow tint, fine-grained, moderately soft to moderately hard unit							
		- moderate foliation at 30-40°/CA							
		- very weakly carbonatized (variable reaction/HCl) and moderately so in selvages; local carbonate veinlets (up to 2mm) randomly oriented							
		- weakly chloritic throughout with selvages moderately chloritic							
		- selvage thickness ranges from 2-13cm and often contain brecciated or strongly fractured host rock as well as pyrite/pyrrhotite clots (up to 2mm) and minor carbonaceous infilling							
		- amygdules are present locally - carbonate +/- chlorite filled (up to 10mm)							
		- very local quartz (5-15%) carbonate veinlets show various orientations (up to 3cm wide)							
		- 228.5 to 233.0m - weak dilative fracturing with carbonaceous infilling increasing in intensity until unit is brecciated (at about 229.70 to 230.88m) and then reduces in intensity to 233.0m							
		- 241.5 to 243.0m dilative fracturing (weak)							

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FROM - TO		DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS							
				Au										
				ppb										
		- 242m - gradational colour change occurring to grey, due to increased carbon content.												
		- 243.10m - gradational contact												
243.10	249.64	GREY MASSIVE MAFIC												
		- medium to dark grey, fine-grained, moderately soft, moderately carbonaceous, possibly weakly sheared unit.												
		- foliation is moderate to strong at 35-40°/CA indicated by small (up to 2mm) carbonate veinlets which comprise 10% of unit (other carbonate veinlets are randomly oriented)												
		- pyrite (1-2%) occurs as clots (up to 8mm) or groups of clots often stretched parallel to foliation, and as a fracture filling	01393	243.10	244.00	0.90	4							
			01394	244.00	245.50	1.50	47							
		@ 245.28m - 12cm zone of carbonate, quartz (20%), host rock and pyrite (less than 1%) oriented subparallel to foliation (40°/CA)	01395	245.50	246.82	1.32	26							
		- 246.82 - 247.00m - lost core	01396	247.00	248.50	1.50	63							
		- contact at 249.64m in broken core possibly marked by quartz (40-50%) carbonate vein oriented 80°/CA	01397	248.50	249.64	1.14	12							
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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH m	ASSAYS							
							Au							
249.64	259.08	MASSIVE MAFIC	AF											
		- light to medium green (with weak yellow tint locally), fine-grained, hard unit												
		- commonly bleached resulting in either chlorite or possibly albite mottles (less than 1mm)												
		- weakly chloritic												
		- minor (less than 1%) carbonate veinlets present at random orientations												
		- locally, small clinozoisite and quartz veins are present (up to 4cm)												
		- 249.77 - 250.0m - lost core												
		- 255.00 to 255.20m - quartz (50%) carbonate (30%), clinozoisite (possibly) vein with contacts showing variable orientations												
		- 256.12 to 257.70m - grey tan zone which may be due to increased carbonate (granular texture-non to weakly reactant/HCl) and chlorite alteration	01398	256.12	257.72	1.60	3							
		- possible contact at 259.08m oriented 75°/CA												
259.08	279.42	PILLOWED MAFIC												
		- light green, fine-grained, moderately hard to hard (where bleached) unit												

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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS			
		- locally bleached								
		- weakly to moderately carbonatized (reactant/HCl); local carbonate veinlets (generally up to 2mm) show random orientations								
		- weakly chloritic although pillow selvages are often strongly chloritic and often have bleached veins								
		- selvages often quite fractured and may contain fine pyrite/pyrrhotite (less than 1%) clots (less than 2mm) stretched parallel to the selvage								
		- local dilative fracturing with chlorite infilling								
		- amygdules present throughout unit (up to 5%) and may be carbonate (up to 9mm) or quartz (up to 3mm) filled								
		- 276.88 to 277.00m - lost core								
		- local quartz (up to 10%) carbonate veins (up to 1.5cm) oriented 20-50°/CA								
		- gradational contact possibly at 279.42m - marked by gradational colour change to tan grey								
279.42	290.22	GREY PILLOWED MAFIC								
		- light to dark grey, fine-grained, moderately soft to moderately hard, weakly to moderately carbonaceous unit								
		- weak foliation at about 30-40°/CA								
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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS				
						Au				
	- weakly to moderately carbonatized (reactant/HCl) with local carbonate veinlet (up to 3%) showing random orientations.									
	- local dilative fracturing - carbonaceously filled									
	- pillow selvages often fragmented and contain carbonate, minor chlorite and carbonaceous material									
	- 279.42 to 279.98m - tan grey, carbonatized zone with carbonate veinlets often containing pyrite/pyrrhotite clots; amygdules present and carbonate filled (1-2%)	01399	279.42	281.00	1.58	21				
	- 279.98m contact (oriented 40°/CA) with darker grey carbonaceous zone (possibly weakly sheared) which grades into lighter tan grey at 280.90m									
	- about 10% randomly oriented carbonate stringers (several at 40°/CA)									
	- local pyrite clots and fracture filling (about 1%)									
	- 280.90 to 284.10m - similar to 270.42 to 279.98m	01400	281.00	282.50	1.50	3				
	- 284.10 - 290.22 consistent dark grey zone showing strong foliation at 40°/CA	06001	282.50	284.00	1.50	23				
	marked by carbonate veinlets and stretched pyrite clots parallel to foliation									
	- minor carbonate filled amygdules through zone	06002	284.00	285.37	1.37	8				
	- 286.00 to 286.55m - possible shear zone oriented 40°/CA	06003	286.00	287.50	1.50	7				
	(carbonate flooded from 286.28 to 286.55m)	06004	287.50	289.00	1.50	3				
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FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH m	ASSAYS			
						Au			
	- 285.37 to 286.00m - lost core								
	- sharp contact at 290.22m marked by carbonate zone (from 290.09 to 290.22m) oriented 40°/CA	06005	289.0	290.22	1.22	2			
290.22	301.79								
	PILLOWED MAFIC								
	- light green to green grey, fine-grained moderately hard to hard unit with local patches of carbonaceous alteration; fractures, some bleached zones and selvages may contain carbonaceous material								
	- local bleaching of pillow rims and local albite mottles present								
	- weakly carbonatized (non-reactant/HCl); also local (1%) carbonate and quartz-carbonate veinlets/veins (up to 6mm), randomly oriented								
	- local clots of pyrite/pyrrhotite present in small fractures								
	- selvages are either weakly chloritic or chlorite has been replaced by carbonaceous material; also contain local (less than 1%) pyrite/pyrrhotite clots (less than 2mm)								
	- local amygdules (up to 2%) may be carbonate, chlorite, quartz or pyrrhotite filled (up to 6mm)								
	- strong foliation at 290.22 to 291.06m oriented 40°/CA								
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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
		- 291.06 to 291.37m - carbonate vein with host rock inclusions and minor amounts of pyrite (less than 1%, less than 1mm)							
		- 293.70 to 293.97m - medium grey, weakly carbonaceous zone							
		- 296.63 to 297.14m - dark grey carbonaceous zone							
		- 300.03 to 300.45m - medium grey carbonaceous zone							
		- sharp contact at 301.79m oriented 40°/CA consisting of 1cm zone of carbonate and chlorite							
301.79	318.05	MASSIVE MAFIC							
		- green grey, fine-grained, moderately hard to hard unit with mottled alteration texture							
		- weakly foliated at about 40°/CA							
		- locally bleached							
		- weakly to moderately carbonatized (reactant/HCl) - granular texture							
		- fine, randomly oriented carbonate and quartz carbonate veinlets parallel and cross foliation							
		- local carbonate-filled amygdules (up to 6mm)							
		- weakly chloritic and increasing somewhat from 317.0 to 318.05m.							
		- locally, have fracture-filling pyrrhotite and clots of pyrrhotite (less than 1%)							
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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
		- 311.80 to 312.12m - small pillowed horizon, with fragmented selvages - lower contact oriented 35°/CA							
		- @ 316.83 to 316.90m - quartz (75%) carbonate (15%) clinozoisite (10%) vein oriented 50°/CA crossing foliation, with pyrrhotite clots (up to 2mm)							
		- sharp contact at 318.05m oriented 70°/CA marked by 1cm of slightly fragmented material							
318.05	336.85	PILLOWED MAFIC							
		- light green to grey-green, fine-grained, moderately hard unit							
		- local bleaching as well as of pillow rims							
		- local weak foliation oriented 40-45°/CA							
		- weakly carbonatized (variable reaction/HCl) with local, randomly oriented carbonate and quartz carbonate veinlets (up to 4mm) comprising 1% of unit							
		- weakly chloritic with selvages strongly chloritic; selvages often contain carbonate and minor pyrrhotite (up to 1mm; less than 1%)							
		- local weakly carbonaceous alteration							
		- amygdules (up to 5mm) present locally and comprise 1-2% of unit; generally, carbonate filled							
		- local dilative fracturing is quartz or chlorite filled							
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FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS				
					Au				
		AF	m	m	ppb				
	@ 318.65m - 8cm quartz carbonate (10%) vein oriented 50°/CA								
	- minor pyrrhotite/pyrite clot (up to 1mm) along contacts								
	@ 319.35m - 9cm quartz carbonate (10%) vein oriented 50°/CA crossing foliation								
	- locally minor shear zones								
	- 325.89 to 326.36m - shear zone oriented 20°/CA crossing foliation with local pyrrhotite clots stretched parallel to foliation								
	- 328.70m - unit undergoes gradational colour change, to strong carbonate alteration - carbonate needles present locally as of 328.50m								
	- 331.0 to 333.0m - broken core								
	- contact at 336.85m - contact is ground and orientation not known								
336.85	346.93								
	SHEARED PILLOWED MAFIC								
	- green-grey to dark grey, fine-grained, moderately soft, strongly foliated (at 35-45°/CA) unit with zones of moderate carbonaceous alteration (also as fracture filling)								
	- moderately to strongly carbonatized (reactant/HCl)								
	- quartz and quartz carbonate veinlets generally cross-cutting foliation at high angle to core axis								
		06006	336.85	338.50	1.65	7			
		06007	338.50	340.00	1.50	4			
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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS			
						Au			
	@ 339.72 - 339.83m - sheared vein assembly containing quartz, carbonate, host rock and minor pyrite/pyrrhotite oriented 35°/CA and parallel to foliation	06008	340.00	341.50	1.50	22			
		06009	341.50	343.00	1.50	52			
	@ 342.47 - 342.61m - as 339.72 to 339.83m but oriented 45°/CA	06010	343.00	344.50	1.50	8			
	@ 345.00 to 345.20m - quartz, carbonate chlorite weakly sheared vein oriented 45°/CA (subparallel to foliation) with local minor pyrite and chalcopyrite clots parallel to foliation in vein.	06011	344.50	346.00	1.50	8			
	346.30 - 346.38 broken core								
	approximate sharp lower contact at 50° to C.A.								
346.93	381.72								
	MASSIVE MAFIC								
	- fine grained, medium green, massive mafic weakly foliated at 50° (?) to C.A.								
	- weak pervasive carbonatization and weak-moderate pervasive chloritization throughout								
	- minor carbonate high angle veinlets throughout								
	- minor brassy cubic pyrite locally disseminated in mafic								
	- minor - 1%, 1-2mm, white, oval carbonate amygdules in upper portion of unit								
	- up to 1-3%, fine white/cream leucoxene grains increasing in quantity and size downhole								
	- extremely gradational lower contact								
LOGGED BY: MJ		DATE:		PROPERTY		HOLE NO. H13-52		PAGE NO. 17	

FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS		
			AF	m		m	Au	grm
	i) 381.72 - 394.0 strong pervasive carbonatization/sericitization, light/medium tan-greenish-grey, minor pyrite locally	01860	388.0	389.5	1.5			
		01861	389.5	391.0	1.5	4		
		01862	391.0	392.5	1.5	15		
		01863	392.5	394.0	1.5	4		
	ii) 394.0 - 394.52 intensely carbonatized/sericitized, light grey, massive mafic section with 2-3% scattered dark pyrite	01864	394.0	395.5	1.5	12		
		01865	395.5	397.0	1.5		1.58	/
		01866	397.0	398.5	1.5	49		
		01867	398.5	400.0	1.5	8		
	@394.22 4cm quartz vein parallel to foliation at 55° to C.A., 1-2% pyrite in vein, common wallrock inclusions	01868	400.0	401.5	1.5	23		
		01869	401.5	403.0	1.5	6		
		01870	403.0	404.5	1.5	49		
		01871	404.5	406.0	1.5	14		
	iii) 394.52 - 399.86 strong to intense carbonatization/sericitization, minor pyrite locally, fine leucoxene grains throughout	01872	406.0	407.5	1.5	6		
		01873	407.5	409.0	1.5	3		
		01874	409.0	410.5	1.5	3		
		01875	410.5	412.0	1.5	4		
	iv) 399.86 - 402.32 light grey, intensely carbonatized/sericitized massive mafic, minor pyrite locally	01876	412.0	413.5	1.5	32		
		01877	413.5	415.0	1.5	163		
		01878	415.0	416.5	1.5	6		
		01879	416.5	418.0	1.5	7		
	@412.63 3mm quartz veinlet crosscutting foliation at 80°, minor dark pyrite/arsenopyrite in wallrock	01880	418.0	419.5	1.5	4		
		01881	419.5	421.0	1.5	6		
		01882	421.0	422.5	1.5	26		
		01883	422.5	424.0	1.5	8		
	425.74 - 427.16 weakly carbonaceous altered light/medium grey massive mafic	01884	424.0	425.5	1.5	10		
		01885	425.5	427.0	1.5	4		
						2		

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HOLE NO. H13-52

PAGE NO. 19

DRILL HOLE RECORD

KIDD CREEK MINES LTD. EXPLORATION DIVISION

HOLE NO. H13-53..... PROPERTY Syngeold J.V. #1 PROJECT NO. Q08155..... CONTRACTOR Bradley Bros. START 25/08/87.....
 COORDINATES Grid Location: Latitude 330S..... UTM: Lat. SURVEYED: Lat. FINISH 31/08/87.....
 Departure 140E..... Dep..... Dep. Mine Grid: Lat. 99562.89N
 Elevation Dep. 98312.60E
 COLLAR ATTITUDE Azimuth 333° Dip -60° LENGTH 290m..... CORE SIZE 80..... Elev. 4985.57m

INCLINATION TESTS

Rotodip/Acid Tests

Depth	Dip	Depth	Dip

Compass Tests

Depth	Observed Azimuth	True Azimuth	Dip
73m	-59.0°		
98m	-57.5°	20°NW	331.0°
128m	-57.0°	19.0°NW	332.0°
158m	-56.5°	20°NW	331.0°
187m	-55.0°	19.0°	332.0°
217m	-54.0°	20°NW	331.0°
255m	-51.0°	18.0°NW	333°

REMARKS All NW casing pulled (25m), BW casing to 58m

Logged by M. Jerome.....

Date 01/09/87.....

Property

Hole No. H13-53.....

FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
0	25.0	OVERBURDEN							
25.0	29.74	MASSIVE (?) MAFIC							
		- light to medium green fine grained, massive (?) (possibly pillowed) mafic weakly foliated at 20-25° to C.A.							
		- weak fracture controlled carbonatization, weak pervasive chloritization							
		- minor carbonate veinlets throughout							
		- locally, minor oval carbonate amygdules							
		- unit extremely broken with core loss: 25.77 - 26.0, 27.82 - 29.0							
29.74	42.81	OXIDIZED MAFIC							
		- light brown-tan, oxidized fractured and massive mafic							
		- unit extremely broken with core loss: 29.78 - 32.0, 32.41 - 35.0, 36.19, 38.0, 38.27 - 41.0, 41.0 - 42.73							
42.81	77.25	PILLOWED (?) MAFIC							
		- fine grained, light/pale green to tan-grey pillowed (?) mafic weakly foliated at 40-45° to C.A.							
		- weak pervasive carbonatization locally, weak pervasive chloritization							
		- pillow selvages generally 1-3cm wide, at variable orientation, chloritized dark grey-green, with well-developed hyaloclastite locally, bleached margins							
		- 1-3mm carbonate amygdules locally							
		- unit extremely broken with core loss: 46.82 - 47.0, 48.47 - 50.0, 50.74 -							
LOGGED BY:		DATE:	PROPERTY	HOLE NO.	PAGE NO.	1			

FROM - TO		DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS		
				m				Au ppb	gram
		- 52.54, 53.63 - 54.42							
		- minor disseminated brassy pyrite locally							
		- gradational contacts							
		53.63 - 62.31 light tan-grey-green weakly carbonatized pillowed mafic							
		57.94 - 59.68 sheared, foliated pillowed mafic at 40° to C.A.							
		62.31 - 72.28 light/medium green pillowed mafic with well-developed hyaloclastic selvages							
		- white needle-like, feldspar (?) lathes (1-2%) from 70-40 - 71.50m							
		72.28 - 77.25 light/medium greenish-grey to tan pillowed mafic, bleaching increasing downhole, gradational lower contact							
			01894	74.0	75.5	1.5	11		
77.25	91.86	ALTERED PILLOWED (?) MAFIC	01895	75.5	77.0	1.5	8		
			01896	77.0	78.5	1.5	4		
		- fine grained, light tan grey to light grey, bleached/altered pillowed (?) mafic, appears to be massive locally, weakly foliated at 45° to C.A.							
		- weak pervasive carbonatization throughout, locally waxy green pervasive, weak to moderate sericitization							
		- minor veining							
		- minor to 1% scattered dark pyrite throughout							
		- locally 1-2mm carbonate amygdules							
			01897	78.5	80.0	1.5	33		
			01898	80.0	81.5	1.5	4.66		

LOGGED BY:

DATE:

PROPERTY

HOLE NO.

PAGE NO. 2

FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m	m		Au ppb			
	77.25 - 81.91 probable pillowed mafic section	01899	81.5	83.0	1.5	25			
		01900	83.0	84.5	1.5	49			
	81.91 - 91.86 possible massive mafic section	01901	84.5	86.0	1.5	19			
		01902	86.0	87.5	1.5	17			
	89.24 oxidized, iron-stained section (4 cm)	01903	87.5	89.0	1.5	143			
		01904	89.0	90.5	1.5	33			
	89.63 minor to 5% dark greyish-brown, dravite/tourmaline associated with irregular quartz veinlets	01905	90.5	92.0	1.5	15			
	- broken lower contact								
91.86	136.43	PILLOWED MAFIC							
	- fine grained, light green to light grey, pillowed mafic weakly to moderately foliated at 30-35° to C.A.								
	- weak to moderate fracture controlled and pervasive carbonatization, spotty chloritic alteration with bleaching downhole								
	- minor carbonate veinlets throughout								
	- minor disseminated pyrite locally								
	- pillow selvages rare, generally 1-5mm wide, variable orientations	01906	92.0	93.5	1.5	754			
	- carbonate amygdules locally	01907	93.5	95.0	1.5	40			
		01908	95.0	96.5	1.5	17			
	91.86 - 93.25 very weakly carbonaceous altered, sheared pillowed mafic	01909	96.5	98.0	1.5	2			
	foliated at 30-35° to C.A., minor pyrite	01910	98.0	99.5	1.5	2			
		01911	99.5	101.0	1.5	2			
		01912	101.0	102.5	1.5	8			

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FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS			
			m	m		m	Au ppb		
	93.25 - 105.77 light grey, moderately carbonatized pillowed mafic	01913	102.5	104.0	1.5	6			
	105.77 - 136.43 light green, fresh pillowed mafic - mottled sections appear to possibly be massive mafic	01914	104.0	105.5	1.5	4			
	107.0 - 107.07 irregular carbonate veining with 2-3% semi-massive chalcopyrite along wallrock/vein margin								
136.43	148.88	GREY MAFIC							
			134.0	135.5	1.5	3			
			135.5	137.0	1.5	18			
			137.0	138.5	1.5	6			
	- fine grained, medium to dark grey, carbonaceous altered pillowed mafic weakly to moderately foliated at 35-40° to C.A.	01918	138.5	140.0	1.5	2			
	- alternating zones of moderate and weak carbonaceous alteration, weak to moderate pervasive carbonatization throughout	01919	140.0	141.5	1.5	3			
		01920	141.5	143.0	1.5	51			
		01921	143.0	144.5	1.5	15			
		01922	144.5	146.0	1.5	10			
	- minor to 1% thin carbonate veinlets throughout, locally with minor sphalerite	01923	146.0	147.5	1.5	91			
	- minor disseminated pyrite locally	01924	147.5	149.0	1.5	12			
	- sharp upper contact at 10°, gradational lower contact								
	143.35 - 143.52 14 cm carbonate vein parallel to foliation (U-40°, L-50°), minor dravite along fractures								
148.88	154.97	SHEARED PILLOWED MAFIC							
	- fine grained, light tan-greenish-grey, sheared pillowed mafic moderately to well foliated at 40-45° to C.A.	01925	149.0	150.5	1.5	14			
		01926	150.5	152.0	1.5	14			

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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m	m		Au ppb			
	- weak pervasive carbonatization, weak fracture controlled carbonaceous alteration locally	01927	152.0	153.5	1.5	14			
	- minor carbonate veinlets throughout, locally with minor sphalerite	01928	153.5	155.0	1.5	12			
	- gradational upper contact, sharp lower contact at 45° to C.A.								
	- weak dilational fracturing								
154.97	156.66								
	GREY MAFIC								
	- fine grained medium to dark grey, carbonaceous altered pillowed mafic moderately foliated at 40-45° to C.A.	01929	155.0	156.5	1.5	10			
	- moderate to strong pervasive carbonaceous alteration, weak pervasive carbonatization	01930	156.5	158.0	1.5	8			
	- minor, thin carbonate veinlets throughout								
	- gradational lower contact								
156.66	175.32								
	PILLOWED MAFIC								
	- fine grained, light/medium green, pillowed mafic moderately foliated at 35-45° to C.A.								
	- very weak pervasive carbonaceous alteration in upper two metres of unit, weak pervasive carbonatization locally								
	- minor carbonate stringers								
	- pillow selvages, generally thin (1-2mm), low angle (20-40°) with bleached margins.								
	- 1-3% white, 1-3mm, oval carbonate amygdules locally throughout								
	- gradational contacts								

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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m			Au			
	156.66 - 158.0 very weak carbonaceous alteration								
175.32	195.63	MASSIVE MAFIC							
	- fine grained, medium green, massive mafic weakly foliated at 35-40° to C.A.								
	- very weak pervasive carbonatization								
	- minor, thin carbonate veinlets throughout								
	- weak fracturing locally								
	- minor pyrite locally								
195.63	205.31	GREY MAFIC							
		01931	194.0	195.5	1.5	10			
		01932	195.5	197.0	1.5	45			
	- fine grained, medium grey, carbonaceous altered massive mafic weakly to moderately foliated at 40° to C.A.	01933	197.0	198.5	1.5	67			
		01934	198.5	200.0	1.5	336			
	- moderate pervasive carbonaceous alteration, weak to moderate pervasive carbonatization throughout	01935	200.0	201.5	1.5	374			
		10936	201.5	203.0	1.5	73			
	- minor, thin quartz and carbonate stringers throughout	01937	203.0	204.5	1.5	40			
	- minor scattered brassy pyrite through unit	01938	204.5	206.0	1.5	234			
	- gradational contacts								
	- fine tan-mauve leucoxene grains locally throughout								
		01939	206.0	207.5	1.5	141			
205.31	224.89	MASSIVE MAFIC							
		01940	207.5	209.0	1.5	18			
		01941	209.0	210.5	1.5	10			
	- fine grained, light/medium greenish-grey, massive mafic weakly foliated at 40-45° to C.A.	01942	210.5	212.0	1.5	8			
		01943	212.0	213.5	1.5	8			
	- weak to moderate pervasive chloritization/carbonatization throughout	01944	213.5	215.0	1.5	6			

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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m	m		Au ppb	gram		
	- minor carbonate stringers throughout with associated minor pyrite locally,	01945	215.0	216.5	1.5	7			
	minor scattered pyrite throughout	01946	216.5	218.0	1.5	11			
	- gradational contacts	01947	218.0	219.5	1.5	3			
	- fine tan leucoxene grains locally	01948	219.5	221.0	1.5	6			
		01949	221.0	222.5	1.5	10			
		01950	222.5	224.0	1.5	29			
224.89	259.20								
	ALTERED MAFIC								
	- light grey to tan/buff grey, fine grained altered massive mafic weakly foliated at 45-50° to C.A.								
	- variable alteration intensities and types throughout - strong to intense sericitization/carbonatization								
	- minor quartz veinlets throughout								
	- minor disseminated brassy and dark pyrite locally								
	- fine tan leucoxene grains locally								
		01951	224.0	225.5	1.5	10			
	224.89 - 226.90 strongly carbonatized/sericitized, light grey massive mafic	01952	225.5	227.0	1.5	32			
		01953	227.0	228.5	1.5	357			
	226.90 - 233.0 light grey, intensely carbonatized/sericitized massive mafic	01954	228.5	230.0	1.5	517			
	minor to 2% dark and brassy pyrite scattered throughout, minor high angle quartz veinlets (1-2cm)	01955	230.0	231.5	1.5		4.08		
		01956	231.5	233.0	1.5	119			
		01957	233.0	234.5	1.5	15			
		01958	234.5	236.0	1.5	391			
	229.92 4cm quartz vein crosscutting foliation at 80° to C.A. minor	01959	236.0	237.5	1.5		2.06		
	dravite	01960	237.5	239.0	1.5	17			
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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS				
							Au ppb			
	dravite in vein	01961	239.0	240.5	1.5	95				
	233.0 - 259.20 strongly carbonatized/sericitized massive mafic, minor quartz veining	01962	240.5	242.0	1.5	617				
		01963	242.0	243.5	1.5	701				
		01964	243.5	245.0	1.5	128				
	242.0 - 245.0 minor to 1% scattered dark pyrite	01965	245.0	246.5	1.5	137				
		01966	246.5	248.0	1.5	754				
		01967	248.0	249.5	1.5	64				
		01968	249.5	251.0	1.5	11				
		01969	251.0	252.5	1.5	10				
		01970	252.5	254.0	1.5	12				
		01971	254.0	255.5	1.5	10				
		01972	255.5	257.0	1.5	8				
		01973	257.0	258.5	1.5	10				
259.20	279.25	01974	258.5	260.0	1.5	12				
	- fine to medium grained, waxy, yellowish-buff-grey, high Mg pillowed mafic moderately foliated at 40-50° to C.A.									
	- weak pervasive carbonatization, sericitization/chloritization,									
	- minor to 2%, thin carbonate veinlets throughout									
	- upper contact about 55° to C.A., lower contact gradational									
	- pillow selveges up to 5cm wide, chloritized dark green-grey, generally at 40-50° to C.A.									
	- fine white feldspar (?) speckling of core throughout									
	- minor brassy pyrite locally									
	- shearing progressively increasing downhole									

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FROM - TO		DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS			
				m				Au ppb		
279.25	285.72	GREY MAFIC								
		- fine grained, light grey, carbonaceous altered high Mg pillowed mafic strongly to moderately foliated (sheared) at 45-50° to C.A.	01975	279.25	281.0	1.75	16			
		- minor to 2% thin carbonate stringers throughout	01976	281.0	282.5	1.5	7			
		- very weak to weak pervasive carbonaceous alteration/carbonatization	01977	282.5	284.0	1.5	5			
		- minor disseminated pyrite locally	01978	284.0	285.72	1.72	21			
		- unit sheared throughout with breakage								
285.72	286.02	SHEARED GRAPHITIC ARGILLITE								
		- fine grained, black to dark grey, conductive, sheared graphitic argillite								
		- broken throughout, irregular carbonate veining locally								
286.02	290.0	SEDIMENTS								
		- fine grained, medium to dark grey, interbedded carbonaceous argillite and greywacke sediments (predominantly carbonaceous argillite) at 35-40° to C.A								
		- minor to 1% thin carbonate veining throughout, irregular								
		- minor scattered brassy pyrite in sediments and in carbonate veinlets, minor sphalerite in carbonate veinlets locally								
290.0		END OF HOLE								

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FROM - TO		DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS			
				m				Au		
0	19.0	OVERBURDEN								
19.0	35.75	FRACTURED MAFIC								
		- fine grained, light/medium grey to tan-grey fractured pillowed (massive?) mafic moderately foliated at 30-35° to C.A.								
		- very weak to weak pervasive carbonaceous alteration, weak pervasive carbonatization locally								
		- scattered minor brassy cubic pyrite in mafic and in thin carbonate stringer veinlets								
		- minor carbonate veining throughout								
		- upper portion of unit broken with core loss: 20.34 - 22.0 22.0 - 23.40								
		- weak dilational fracturing to brecciation throughout, carbon filling of fracturing								
		25.0 - 25.30 weak carbonaceous alteration, minor to 1% pyrite in carbonate stringers	01887	24.64	26.04	1.5	4			
		30.0 end of NQ core								
35.75	83.51	PILLOWED MAFIC								
		- fine grained, light tan-buff to light green to light greenish-grey, pillowed mafic, weakly to moderately foliated at 45-50° to C.A.								
		- variable alteration types and intensities throughout, locally fresh unaltered pillowed mafic to weak/moderate pervasive carbonatization								
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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m			Au			
	to weak fracture controlled carbonaceous alteration								
	- minor to 1X thin carbonate veinlets throughout								
	- pillow selvages generally less than 1cm wide, variable orientation (30-40° to C.A.) locally with bleached margins								
	- gradational contacts								
	35.75 - 41.32 tan-buff, moderately carbonatized/sericitized pillowed mafic								
	- 40.38 - 40.89 hyaloclastite breccia zone								
	41.32 - 51.67 light to medium green, fresh pillowed mafic								
	51.67 - 60.63 light green, weakly carbonatized pillowed mafic, mottled spotting with bleaching locally	01979	60.0	61.0	1.0	225			
	60.63 - 66.33 fracture controlled weakly carbonaceous altered pillowed mafic, fracture controlled pyrite from 64.90 - 66.33m	01980	61.0	62.5	1.5	18			
		01981	62.5	64.0	1.5	51			
		01982	64.0	64.90	0.90	136			
		01983	64.90	66.33	1.43	679			
	66.33 - 83.51 light green to greenish-grey, bleached pillowed mafic	01984	66.33	67.0	0.67	23			
	69.71 - 70.30 chloritized medium green section								
83.51	85.48								
	SHEARED PILLOWED MAFIC								
	- fine grained, light green, pillowed mafic moderately to strongly foliated at 55-60° to C.A.								

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FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO	SAMPLE LENGTH	ASSAYS			
	<ul style="list-style-type: none"> - weak pervasive carbonatization - minor crosscutting, thin carbonate/quartz veinlets - pillow selvages thin (less than 1cm), chloritized dark grey/green, parallel with foliation - gradational contacts - minor scattered pyrite 							
85.48	108.98	PILLOWED MAFIC						
	<ul style="list-style-type: none"> - fine grained, light greenish-buff-grey, to light/medium green, pillowed mafic similar to unit from 35.75 - 83.51m (particularly 41.32 - 51.67m), weakly foliated at 50-55° to C.A. - weak to moderate carbonatization locally - pillow selvages generally thin (less than 1cm), at variable orientations, bleached margins locally, associated 1-3mm oval carbonate amygdules peripheral to selvages - minor carbonate veining throughout 							
108.98	111.63	SHEARED PILLOWED MAFIC						
	<ul style="list-style-type: none"> - fine grained, light green, pillowed mafic moderately to strongly foliated at 55-60° to C.A. (similar to unit from 83.51 - 85.48m) - weak pervasive carbonatization, chloritization - minor to 1% thin carbonate veinlets throughout - pillow selvages thin (less than 1cm), dark grey/green, parallel with foliation 							
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FROM - TO		DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS			
		- gradational contacts								
111.63	145.43	PILLOWED MAFIC								
		- fine grained, light/medium green, pillowed mafic similar to unit from 85.48 - 108.98m, weakly foliated at 50-55° to C.A.								
		- weak pervasive carbonatization locally								
		- minor carbonate veining throughout								
		- 1-3mm carbonate amygdules locally								
		- minor pyrite/pyrrhotite locally in mafic and in selvages								
		136.25 - 136.65 brecciated pillowed mafic section with carbonate speckling throughout (10-15%)								
		144.22 - 144.37 hyaloclastitic section								
		sharp lower contact								
145.43	147.96	PILLOW BRECCIA								
		- light green, fine grained pillowed mafic fragments in a granular, medium/coarse grained mauve-white carbonated matrix moderately foliated at 45-50° to C.A.								
		- weakly to moderately carbonatized matrix								
		- fragments subangular to subrounded, 1-2mm to 4-5cm in size, locally alteration highlights fragments								
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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO m	SAMPLE LENGTH m	ASSAYS			
					Au pph			
	- minor pyrrhotite disseminated in matrix throughout							
147.96	160.61							
	PILLOWED MAFIC							
	- fine grained, light green pillowed mafic weakly foliated at 50-55° to C.A., similar to pillowed unit from 111.63 - 145.43m							
	- weak pervasive chloritization/carbonatization locally							
	- minor quartz/carbonate veining locally							
	- pillow selvages extremely variable in orientation and width, commonly chloritized dark green with bleached margins							
	- 1-3mm carbonate amygdules locally							
	- gradational lower contact							
	- 148.57 - 148.67, 148.86 - 149.40 brecciated pillowed mafic sections with carbonate-rich matrix similar to pillow breccia unit from 145.43 - 147.96m							
	- 149.65 - 150.0 medium green, chloritized mafic section							
	149.72 - 14 cm carbonate vein subparallel to foliation (U-60°, L-70°), common wallrock inclusions							
160.61	168.75							
	GREY MAFIC							
		01985	160.0	161.5	1.5	12		
	- fine grained, medium grey, carbonaceous altered pillowed mafic, moderately foliated (sheared) at 55-60° to C.A.	01986	161.5	163.0	1.5	10		
		01987	163.0	164.5	1.5	40		
	- weak to moderate pervasive carbonaceous alteration and carbonatization	01988	164.5	166.0	1.5	47		
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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m	m		Au			
	throughout								
	- minor thin quartz-carbonate veinlets, generally thin, irregular high angle	01989	166.0	167.5	1.5	10			
	and crosscutting	01990	167.5	169.0	1.5	12			
	- minor scattered, brassy pyrite locally								
	- gradational contacts								
168.75	193.08								
	PILLOWED MAFIC								
	- fine grained, light green, pillowed mafic similar to unit from 111.63 - 145.43m, weakly foliated at 50-60° to C.A.								
	- weak pervasive chloritization/carbonatization locally								
	- minor quartz veining locally								
	- pillow selveges generally irregular in width and orientation, chloritized dark green, bleached margins locally								
	- 1-3mm, oval carbonate amygdules locally throughout								
	177.03 - 178.0 pillow breccia section								
	lower contact approximately at 55° to C.A.								
193.08	211.65								
	MASSIVE MAFIC								
	- fine grained, light green to medium greyish-green massive mafic weakly foliated at 45-55° to C.A.								
	- weak pervasive carbonatization uphole increasing downhole to weak/moderate pervasive carbonatization/chloritization								
	- minor quartz-carbonate veinlets throughout								
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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM	TO	SAMPLE LENGTH m	ASSAYS			
						Au pph	Au gram		
	- upper portion of unit with minor to 1% 1-2mm round carbonate amygdules scattered throughout								
	- gradational lower contact								
	193.08 - 205.62 light green, amygdaloidal massive mafic								
	205.62 - 211.65 medium greyish-green, weakly/moderately chloritized/ carbonatized massive mafic	01991	208.0	209.5	1.5	12			
		01992	209.5	211.0	1.5	8			
211.65	256.64								
	ALTERED MASSIVE MAFIC								
	- fine grained, granular, light/medium greenish-grey to light grey, altered massive mafic weakly to moderately foliated at 50-55° to C.A.								
	- variable alteration intensities and types throughout- moderate to intense sericitization/carbonatization, weak pervasive carbonaceous alteration locally								
	- minor to 2% disseminated pyrite locally, locally pyrite and sphalerite in quartz-carbonate veinlets								
	- gradational contacts between alteration								
	- fine leucoxene grains locally								
	i) 211.65 - 214.65 light greenish-grey, strongly carbonatized/sericitized (?) mafic, moderately foliated at 55° to C.A., fine tan leucoxene grains throughout, minor scattered pyrite	01993	211.0	212.5	1.5	51			
		01994	212.5	214.0	1.5	40			
		01995	214.0	215.4	1.4	63			
		01996	215.4	216.5	1.1		3.15		
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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS				
			m	m		Au ppb				
	ii) 214.65 - 216.52 light/medium grey, weakly/moderately carbonaceous altered and carbonatized sheared massive mafic, minor to 2% thin quartz and carbonate veining throughout locally with minor to 1% pyrite along margins									
	216.31 14cm carbonate vein subparallel to foliation at 50° to C.A., minor to 1% pyrite and sphalerite along margins of wallrock inclusions	01997	216.5	217.0	0.5	463				
		01998	217.0	218.5	1.5	55				
	iii) 216.52 - 220.84 light/medium grey moderately to strongly carbonatized sericitized massive mafic, weak fracturing throughout	01999	218.5	220.0	1.5	52				
		02000	220.0	221.0	1.0	274				
	iv) 220.84 - 223.25 light/medium grey, strongly carbonatized/sericitized, weakly/moderately carbonaceous altered massive mafic, minor to 3% pyrite scattered throughout, minor veining	06401	221.0	222.0	1.0	960				
		06402	222.0	223.25	1.25	839				
	221.31 12 cm irregular quartz-carbonate vein crosscutting (?) foliation at 70° to C.A. minor chlorite in vein, pyrite along margins, wallrock inclusions throughout, minor arsenopyrite in wallrock									
	v) 223.25 - 237.31 variable light to medium grey, moderately to strongly carbonatized/sericitized, weak carbonaceous alteration locally, minor high angle thin quartz-carbonate veining throughout minor to 1% scattered pyrite locally peripheral to quartz veinlets, minor sphalerite, galena and chalcopyrite locally in carbonate veinlets	06403	223.25	224.5	1.25	358				
		06404	224.5	226.0	1.5	32				
		06405	226.0	227.5	1.5	260				
		06406	227.5	229.0	1.5	49				
		06407	229.0	230.5	1.5	92				
		06408	230.5	232.0	1.5	96				
		06409	232.0	233.5	1.5	121				
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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS		
			m	m		Au ppb	Au gram	
	228.55 - 229.75 weakly carbonaceous altered section, minor pyrite locally	06410	233.5	235.0	1.5	80		
		06411	235.0	236.5	1.5	29		
	vi) 237.31 - 246.51 light grey, strongly carbonatized/sericitized, granular massive mafic minor scattered pyrite throughout	06412	236.5	238.0	1.5	180		
		06413	238.0	239.5	1.5	16		
		06414	239.5	241.0	1.5	36		
	vii) 246.51 - 248.85 light/medium grey, strongly carbonatized/sericitized, weakly carbonaceous altered, massive mafic, minor to 1% pyrite peripheral to quartz veining	06415	241.0	242.5	1.5	14		
		06416	242.5	244.0	1.5	93		
		06417	244.0	245.5	1.5	95		
		06418	245.5	247.0	1.5	99		
	248.58 9 cm quartz vein crosscutting foliation at 65° to C.A.	06419	247.0	248.5	1.5	88		
		06420	248.5	250.0	1.5	340		
	viii) 248.85 - 251.19 light grey, intensely carbonatized/sericitized massive mafic, minor quartz veinlets with arsenopyrite locally in wallrock, minor to 1% dark pyrite throughout, tan leucoxenes throughout	06421	250.0	251.5	1.5	192		
		06422	251.5	253.0	1.5	125		
		06423	253.0	254.5	1.5	19		
		06424	254.5	256.0	1.5		1.65	
	ix) 251.19 - 256.64 light/medium grey, strongly carbonatized/sericitized, weakly/moderately carbonaceous altered, massive mafic, moderately foliated at 55-60° to C.A., pink-tan leucoxene grains throughout, minor pyrite scattered throughout	06425	256.0	256.64	0.64	47		
256.64	258.16							
	GRAPHITIC ARGILLITE							
	- fine grained, black to dark grey, bedded at 40° to C.A. broken with core loss (0.31 of 1.52m of core recovered)							
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FROM - TO		DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS							
				m				Au	Au					
0	16.0	OVERBURDEN												
16.0	26.45	PILLOWED (?) MAFIC												
		- fine grained, light/bleached greenish-grey, pillowed (?) mafic (possibly massive) weakly foliated at 40-50° to C.A.												
		- moderate to strong pervasive bleaching/(sericitization?) throughout (weak pervasive carbonatization)												
		- minor carbonate veinlets locally												
		- minor scattered dark pyrite blotches throughout												
		- gradational lower contact												
		- rare pillow selvages concealed by alteration												
		16.0 - 16.22 lost core	06426	16.22	17.0	0.78	857							
			06427	17.0	18.0	1.0	73							
		16.22 - 16.43 broken, irregular, carbonate veining in carbonaceous material	06428	18.0	19.0	1.0	60							
			06429	19.0	20.0	1.0	23							
			06430	20.0	21.5	1.5	21							
		19.0 end of NQ core	06431	21.5	23.0	1.5	67							
			06432	23.0	24.5	1.5	73							
		25.48 11 cm quartz vein, high angle (U-55°, L-80° to C.A.) irregular margins common wallrock inclusions 1-2% oxidized pyrite in vein, brown oxidized footwall	06433	24.5	26.0	1.5		7.13						
26.45	35.34	GREY MAFIC												

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FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m			Au ppb	Au gm		
	- fine grained, medium grey, carbonaceous altered pillowed (?) mafic, weakly to moderately foliated at 45-50° to C.A.	AF							
	- moderate pervasive carbonaceous alteration in central portion of unit weakening on both sides, very weak pervasive carbonatization								
	- minor, thin, quartz veinlets throughout generally parallel with foliation								
	- minor to 1% scattered brassy/cubic pyrite throughout								
	- locally, white, oval quartz/carbonate amygdules								
	- gradational contacts								
	28.23 - 31.38 strongest carbonaceous alteration coincident with most intense foliation/shearing	06434	26.0	27.5	1.5	66			
		06435	27.5	29.0	1.5	339			
	29.03 - 29.36 33 cm irregular quartz vein with broken contacts, 5-10% wallrock (dravite?) inclusions throughout, crosscutting secondary carbonate veinlets in quartz	06436	29.0	30.5	1.5		15.22		
		06437	30.5	32.0	1.5	62			
		06438	32.0	33.5	1.5	103			
		06439	33.5	35.0	1.5	108			
35.34	50.84	MASSIVE MAFIC							
	- fine grained, granular, light grey to bleached grey, massive mafic weakly foliated at 45-55° (?) to C.A.								
	- moderate to strong pervasive carbonatization/bleaching, very weak pervasive carbonaceous alteration	06440	35.0	36.5	1.5	29			
	- weak fracturing throughout	06441	36.5	38.0	1.5	77			
	- minor disseminated brassy and dark pyrite in upper 6-7m of unit	06442	38.0	39.5	1.5	450			
	- minor thin quartz veining	06443	39.5	41.0	1.5	21			
	- gradational upper contact, sharp broken lower contact	06444	41.0	42.5	1.5	16			

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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m			Au ppb			
	35.34 - 42.0 disseminated minor dark and brassy pyrite throughout								
	42.3 oxidized core								
	49.71 - 50.84 broken core								
50.84	87.74								
	PILLOWED MAFIC								
	- fine grained, light green to tan-buff to grey, pillowed mafic weakly to moderately foliated at 50° to C.A.								
	- weak pervasive carbonatization/chloritization/carbonaceous alteration locally								
	- pillow selveges generally less than 1cm wide, variably orientated, hyaloclastitic, bleached margins, associated oval white carbonate amygdules in surrounding pillows								
	- carbonate amygdules throughout unit								
	- minor pyrrhotite in selveges and in mafic								
	51.05 - 51.65 lost core								
	68.03 - 69.37 weakly carbonaceous altered, sheared pillowed mafic at 50° to C.A.	06445	68.0	69.5	1.5	10			
	68.95 - 68.16 18 cm quartz-carbonate vein with 1-3% dravite swathes along lower margin, minor pyrite								
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FROM - TO		DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS		
				m				Au ppb	
87.74	92.68	PILLOW BRECCIA							
		- fine grained, light green pillowed mafic fragments in a medium to coarse grained, dark grey matrix	06446	87.5	89.0	1.5	11		
		- weak to moderate pervasive carbonatization/chloritization of matrix	06447	89.0	90.5	1.5	18		
		hyaloclastitic appearance, white feldspar (?) clots and fine pyrrhotite/	06448	90.5	92.0	1.5	99		
		pyrite throughout	06449	92.0	93.5	1.5	19		
		- weak fracturing throughout							
		- pillow fragments variable in size and shape							
		- gradational contacts							
92.68	131.0	MASSIVE MAFIC							
		- fine grained, light green to greyish-green, massive mafic weakly foliated at 40-50° to C.A.							
		- weak fracture controlled carbonaceous alteration locally, mottled chloritic spotting with bleaching downhole							
		- weak fracturing throughout							
		- minor quartz-carbonate veining throughout							
		- minor pyrite/pyrrhotite locally in mafic							
		92.68 - 99.87 weak to moderate fracture controlled carbonaceous alteration							
		99.87 - 102.21 weak to moderate pervasive carbonaceous alteration							
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FROM - TO	DESCRIPTION	SAMPLE NO.	FROM — TO		SAMPLE LENGTH	ASSAYS							
	100.77 - 102.02 irregular quartz-carbonate vein with indistinct margins	AF		m	m								
	smokey grey carbonate and white quartz throughout, grey mafic	06450	99.5	101.0	1.5	263							
	inclusions along margins	06451	101.0	102.5	1.5	12							
		06452	102.5	104.0	1.5	34							
	102.21 - 103.35 low angle carbonate vein approximately parallel with core axis, 2-3cm wide, minor clinozoisite in vein												
	102.21 - 128.04 light green, mottled massive mafic, sharp lower contact at 70° to C.A.												
	128.04 - 131.0 light grey, moderately carbonatized massive mafic with increasing carbonate alteration	06453	128.0	129.5	1.5	18							
		06454	129.5	131.0	1.5	8							
131.0	136.39	GREY MAFIC											
	- fine grained, medium grey, carbonaceous altered massive (?) mafic weakly to moderately foliated at 50-60° to C.A.												
	- moderate pervasive carbonaceous alteration, weak to moderate pervasive carbonatization												
	- minor irregular quartz veining	06455	131.0	132.5	1.5	33							
	- gradational contacts	06456	132.5	134.0	1.5	26							
		06457	134.0	135.5	1.5	14							
		06458	135.5	137.0	1.5	12							
	132.34 - 132.76 patchy brown dravite swathes with irregular quartz veining, minor pyrite												
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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS		
			m			Au		
136.39 158.52	PILLOWED MAFIC							
	- fine grained, light green to light/medium greyish-green, pillowed mafic weakly foliated at 50° to C.A.							
	- weak pervasive and fracture controlled carbonatization throughout							
	- minor to 1% thin, irregular quartz-carbonate veining throughout							
	- 1-3mm oval, white carbonate amygdules peripheral to pillow selvages throughout							
	- pillow selvages chloritized dark green, irregular with variable widths							
	136.39 - 137.29 sheared pillowed mafic at 55° to C.A.							
	sharp lower contact at 30° (?) to C.A.							
158.52 174.26	MASSIVE MAFIC							
	- fine grained, dark greenish-grey to granular, light grey, massive mafic, weakly foliated locally at 50° to C.A.							
	- weak pervasive chloritization in upper part of unit, weak pervasive carbonatization throughout							
	- minor thin quartz-carbonate veinlets throughout							
	- gradational lower contact							
	- fine grained leucoxene grains in lower portion of unit							
	158.52 - 170.0 dark greenish-grey, chloritized massive mafic							
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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS			
			m	m		Au ppb	Au gram		
	170.0 - 174.26 light greyish-green, granular, weakly chloritized/carbonatized massive mafic, fine tan leucoxene grains throughout	06459	170.0	171.5	1.5	10			
		06460	171.5	173.0	1.5	11			
		06461	173.0	174.0	1.0	36			
174.26 - 218.94	ALTERED MASSIVE MAFIC								
	- fine grained to granular, light grey to buff grey, altered massive mafic, weakly to moderately foliated locally at 50° to C.A.								
	- variable alteration intensities and types throughout-moderate to intense sericitization/carbonatization, weak to moderate pervasive carbonaceous alteration locally								
	- variable quantities of dark and brassy pyrite, and sphalerite locally								
	i) 174.26 - 175.07 strongly carbonatized/sericitized, granular, leucoxene bearing massive mafic, very weakly carbonaceous altered, minor scattered pyrite	06462	174.0	175.0	1.0	18			
	ii) 175.07 - 176.59 strongly carbonatized/sericitized, weakly carbonaceous altered, light grey massive mafic, moderate shearing about central quartz veining at 50° to C.A., minor to 1% pyrite and sphalerite (with galena) along shear planes	06463	175.0	176.60	1.60	5.73			
	175.84 - 176.15 irregular zone of quartz-carbonate veining, 1-3% pyrite/sphalerite in wallrock inclusions within veins								

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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM - TO		SAMPLE LENGTH m	ASSAYS	
			m	m		Au PPB	Au gram
	iii) 176.59 - 182.60 light grey, strongly to moderately carbonatized/ sericitized, massive mafic, minor finely disseminated pyrite throughout	06464	176.60	178.0	1.4		2.64
	increasing to 2-3% peripheral to quartz veinlets	06465	178.0	179.0	1.0	43	
		06466	179.0	180.5	1.5	206	
		06467	180.5	182.0	1.5	480	
	177.29 - 177.44 17 cm irregular quartz vein crosscutting foliation (U-80°, L-55°), minor - 1% pyrite along vein margins, 2-3% pyrite in wallrock (10cm above, 30 cm below)						
	iv) 182.60 - 188.78 light grey to buff grey, moderately sericitized/ carbonatized, massive mafic, minor pyrite locally	06468	182.0	183.5	1.5	132	
		06469	183.5	185.0	1.5	40	
		06470	185.0	186.5	1.5	15	
		06471	186.5	188.0	1.5	8	
	v) 188.78 - 194.75 light/medium grey to mauve-grey, fine grained to granular strong to intensely carbonatized/sericitized massive mafic, minor to 1% quartz veining						
	188.78 - 191.15 light/medium grey, granular leucoxene bearing massive mafic, 1-3% dark and brassy pyrite, 190.78 - 5cm quartz vein crosscutting; foliation at 30° to C.A., 1-3% brassy pyrite along margins and in wallrock	06472	188.0	189.0	1.0	210	
		06473	189.0	190.0	1.0		4.32
		06474	190.0	191.0	1.0		1.65
	191.15 - 193.56 mauve-grey, fine grained massive mafic, 1-3% fine pyrite throughout with minor, fine arsenopyrite near quartz veinlets locally, 192.18 - 2cm quartz vein crosscutting foliation at 50° to C.A., VISIBLE GOLD fleck with pyrite at 192.18m	06475	191.0	192.5	1.5	480	
		06476	192.5	194.0	1.5		1.10

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FROM - TO	DESCRIPTION	SAMPLE NO. AF	FROM — TO		SAMPLE LENGTH m	ASSAYS	
			m	m		Au ppb	Au gram
	193.56 - 194.75 light/medium grey, very weakly carbonaceous altered massive mafic, 2-4% pyrite, 193.69 - 12 cm quartz vein crosscutting foliation at 55° to C.A., 1-2% brassy pyrite along margins	06477	194.0	195.0	1.0		5.31
	vi) 194.75 - 198.0 light grey to mauve grey, intensely to strongly sericitized/carbonatized massive mafic, minor scattered dark pyrite	06478	195.0	196.0	1.0	73	
		06479	196.0	197.0	1.0	69	
		06480	197.0	198.5	1.5	480	
	196.72 - 197.07 zone of quartz veining with intense sericitization/carbonatization of wallrock, minor pyrite						
	vii) 198.0 - 206.82 light/medium grey, weakly to moderately carbonaceous alteration increasing downhole, tan leucoxenes throughout, minor pyrite locally	06481	198.5	200.0	1.5	60	
		06482	200.0	201.5	1.5		1.10
		06483	201.5	203.0	1.5		1.23
		06484	203.0	204.5	1.5	39	
	213.0 - 218.94 weak fracture controlled carbonaceous alteration with increasing foliation (shearing), 217.45 - 217.60 irregular quartz vein with common wallrock inclusions	06485	204.5	206.0	1.5	335	
		06486	206.0	207.5	1.5	92	
		06487	207.5	209.0	1.5	44	
		06488	209.0	210.5	1.5	66	
218.94	221.0	GRAPHITIC ARGILLITE	06489	210.5	212.0	1.5	51
			06490	212.0	213.5	1.5	12
	- fine grained, black to dark grey, bedded graphitic argillite at 50-60° to C.A., conductive	06491	213.5	215.0	1.5	40	
	- unit sheared and broken with distorted carbonate veinlets	06492	215.0	216.5	1.5	14	
	- minor to 2% brassy pyrite associated with carbonate veinlets	06493	216.5	218.0	1.5	37	
	- upper contact at 35° to C.A. broken lower contact	06494	218.0	218.94	0.94	64	
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DIAMOND DRILL LOG SAMPLE RECORD

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SAMPLE NUMBER	FOOTAGE			S/T			DESCRIPTION
	From	To	Length				
	175.0	176.6	1.6	5.73		9.168	
	176.6	178.0	1.4	2.64		3.696	
	178.0	179.0	1.0	0.04		.04	
	179.0	180.5	1.5	0.21		.315	
	180.5	182.0	1.5	0.48		.72	
	182.0	183.5	1.5	0.13		.195	
	183.5	185.0	1.5	0.09		.135	
	185.0	186.5	1.5	0.02		.03	
	186.5	188.0	1.5	0.01		.015	
	188.0	189.0	1.0	0.21		.21	
	189.0	190.0	1.0	4.32		4.32	
	190.0	191.0	1.0	1.65		1.65	
	191.0	192.5	1.5	0.48		.72	
	192.5	194.0	1.5	1.10		1.65	
	194.0	195.0	1.0	5.31		5.31	
	195.0	196.0	1.0	0.07		0.07	
	196.0	197.0	1.0	0.07		0.07	
	197.0	198.5	1.5	0.48		0.72	
	198.5	200.0	1.5	0.06		0.09	
	200.0	201.5	1.5	1.10		1.65	
	201.5	203.0	1.5	1.23		1.845	

