85-322-14275

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### ASSESSMENT REPORT

DIAMOND DRILL HOLE CHEVRON MM 84-1 TOURM CLAIM - STAN CLAIM GROUP N.T.S. 82G/4W FORT STEELE MINING DIVISION MOUNT MAHON AREA

COORDINATES: 574100E 5439500N

FILMED

PERIOD: September 29, 1984 to October 21, 1984

OPERATOR: CHEVRON CANADA RESOURCES LIMITED

AUTHORS: L. Dekker, P. Schiarizza

February 1985

GEOLOGICAL BRANCH ASSESSMENT REPORT

14.215

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EXHIBIT "A" - Expenditure Statement

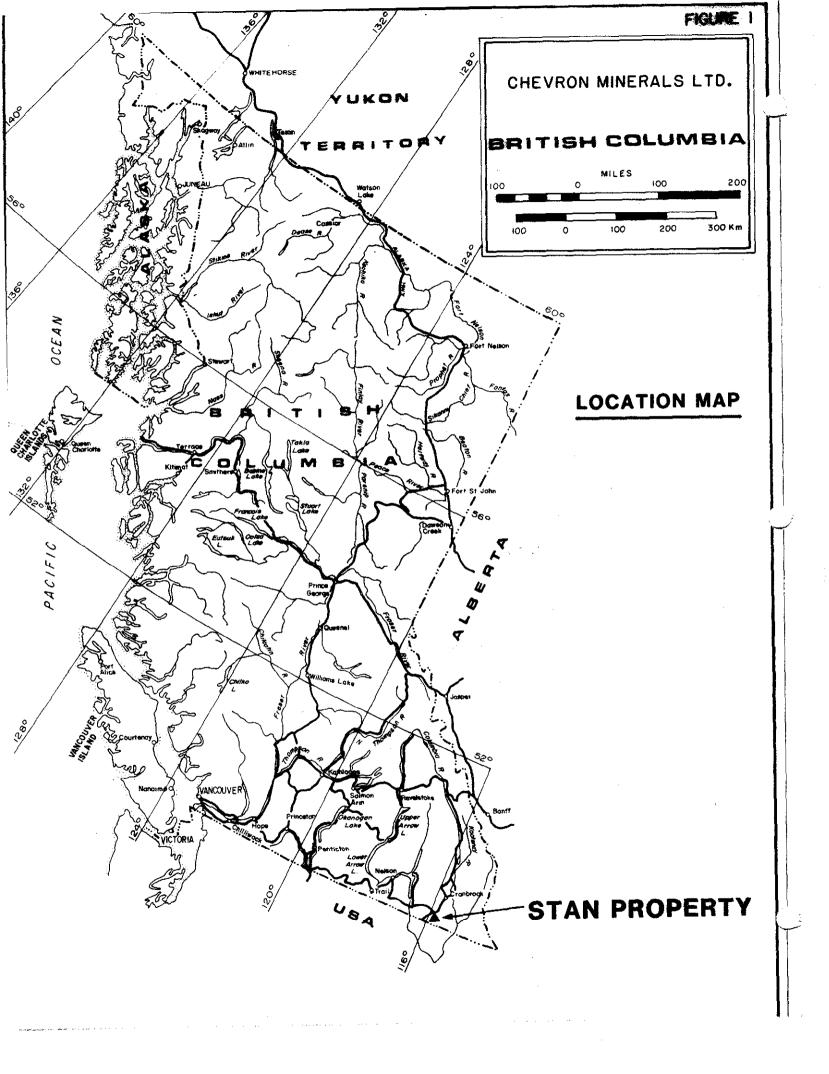
AFFIDAVIT

APPENDIX I - Chevron Personnel and Statements of Qualifications

APPENDIX II - Application of Assessment Work Credits to Claims

APPENDIX III - Copies of Invoices OM file

APPENDIX IV - Core Description DDH Chevron MM 84-1



#### I. INTRODUCTION

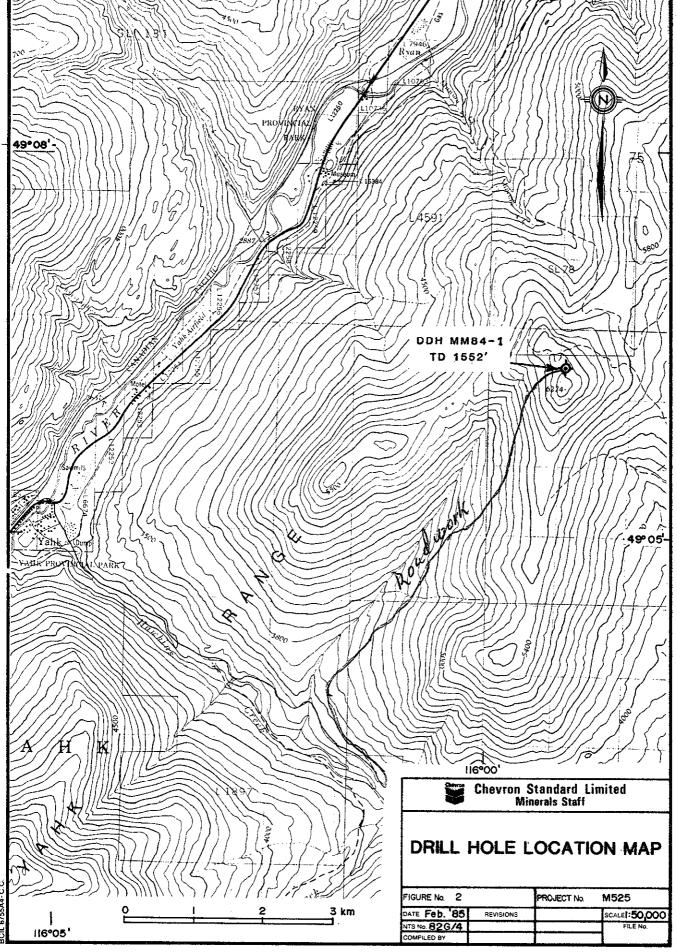
The claim group is situated in the Purcell Mountains in southeastern B.C., approximately 10 km northeast of the town of Yahk (Fig. 1). Stratigraphically the Mount Mahon area is located near the Lower/Middle Aldridge contact which represents the Sullivan Time Horizon. Exploration on the property has been carried out with the objective to locate a Sullivan-Type, shale-hosted Pb, Zn, Ag deposit at this important exhalative time horizon. The Mount Mahon area exhibits characteristics found also in the Sullivan District, which, combined with its stratigraphic position, make it a favourable exploration area.

Diamond Drill Hole Chevron MM 84-1 was primarily a stratigraphic test to intersect the Lower/Middle Aldridge contact, as well as the section above and below this contact to assess the extent and character of the tourmalinization exposed near the summit of Mount Mahon. Both objectives were accomplished.

#### 2. LOCATION AND ACCESS

The claim group is located in the Purcell Mountains in southeastern B.C. approximately 10 km northeast of the town of Yahk (Fig. 1). The property can be reached by turning east off Highway #3 onto Hawkins Creek road near the north end of the town of Yahk. At km 7 an old logging road which turns off north from Hawkins Creek Road leads to Mount Mahon summit and directly to the drill location (see Fig. 2). This road needed substantial upgrading, particularly the top section, to enable the passage of heavy drill equipment and water truck. The road is negotiable with a 4 x 4 vehicle.





1.

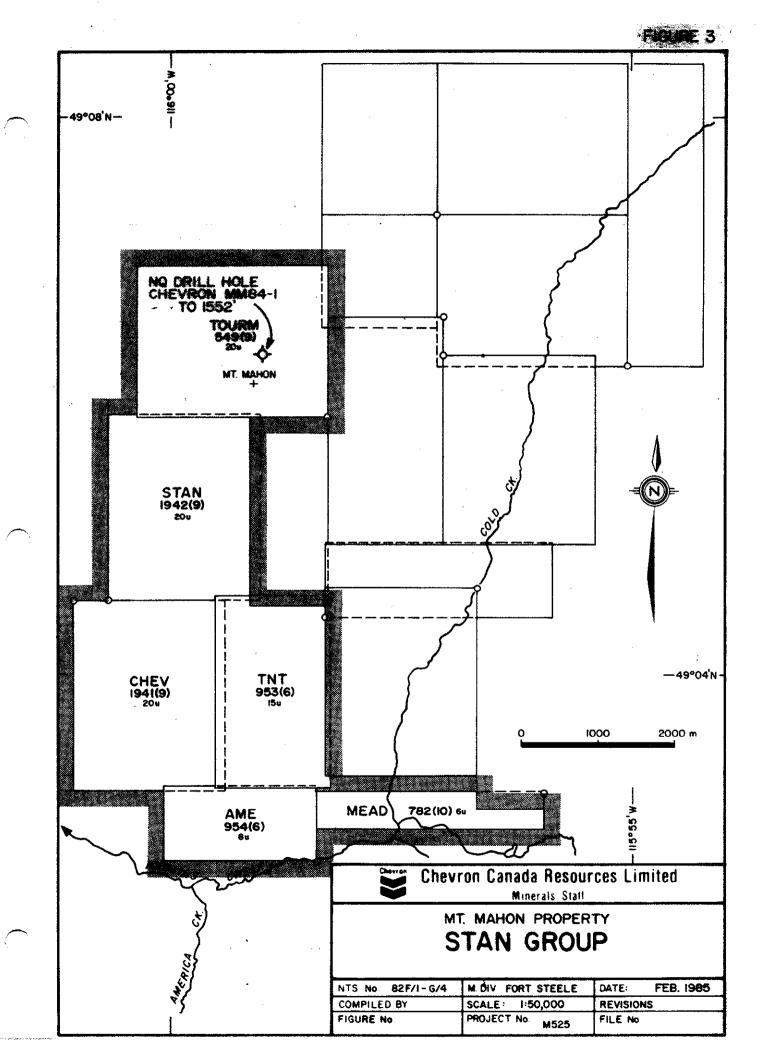
### 3. CLAIM STATUS

The TOURM claim, on which MM 84-1 was drilled, forms part of a larger claim group in which Chevron obtained an interest through a farm-in from Falconbridge Limited and St. Eugene Mining Corporation Limited on August 26, 1983. This group of claims included the TOURM, YAHK, AME, TNT, TOP, PINE, ALDER MEAD and LARCH claims (see Table I and Fig. 3). Subsequently Chevron added the CHEV and STAN claims in 1983 and the TOONA, CHARMAINE, ERIK, EARL and MEL claims in 1984. For the purpose of filing assessment work credits the following claims are grouped: TOURM (20 units), TNT (15), AME (8), MEAD (6), STAN (20), CHEV (20) to the STAN claim group consisting of 89 units (see Fig. 3). Assessment work credits as per Appendix II are filed to maintain these claims in good standing until 1990.

#### 4. GEOLOGY

Outcrops in the vicinity of Mount Mahon summit are gently northeast dipping Middle Aldridge clastic sedimentary rocks. They are characterized by a quartz-muscovite-biotite-garnet metamorphic mineral assemblage and finer grained horizons are locally cut by an east dipping slaty cleavage. Primary sedimentary features are, however, very well preserved. The dominant rock type is fine grained, light grey weathering sandstone in beds ranging from several centimeters to 1 m; beds are generally massive, but may have graded tops. Dark grey to rusty weathering, thinly bedded and/or laminated siltstone occurs in subordinate quantities, and light to dark grey argillite occurs at the tops of graded sandstone beds and as thin laminae intercalated with siltstone. Thin lenses of intraformational conglomerate occur at a number of levels near the Mount Mahon summit. Most extensive is a 1 m thick horizon that can be traced for several hundred meters to the northeast. Tourmalinite, a very fine

a2/22.2



#### TABLE I

### MOUNT MAHON PROSPECT

### Unpatented Mineral Claims located in the Fort Steele Mining Division, Kootenay Land District, Province of British Columbia (NTS 82G/4 and 82F/1)

CLAIM NAME	RECORD NO.	<u>UNITS</u>	DATE RECORDED	HECTARES	EXPIRY DATE
TOURM	549	20	1978/09/21	500.0	1990/09/21
YAHK	721	18	1979/08/01	450.0	1990/08/01
AME	954	8	1980/06/20	200.0	1985/06/20
TNT	953	15	1980/06/20	375.0	1985/06/20
ТОР	952	10	1980/06/20	250.0	1990/06/20
PINE	754	12	1979/09/07	300.0	1991/09/07
ALDER	753	20	1979/09/07	500.0	1990/09/07
MEAD	782	6	1979/10/09	150.0	1986/10/09
LARCH	650	20	1979/06/11	500.0	1990/06/11
CHEV	1941	20	1983/09/23	500.0	1986/09/23
STAN	1942	2 <b>0</b>	1983/09/23	500.0	1986/09/23
TOONA	2127	ľ6	1984/03/05	400.0	1985/03/05
CHARMAINE	2128	20	1984/03/05	500.0	1985/03/05
ERIK	2129	9	1984/03/05	225.0	1985/03/05
EARL	2130	20	1984/03/05	500.0	1985/03/05
MEL	2131	12	1984/03/05	300.0	1985/03/05

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Claim Status February 1/85 L. Dekker

a2/22/3

grained, hard, dark grey cherty rock comprised largely of very fine, felted tourmaline needles, occurs over an 80 m stratigraphic interval exposed on the south and southeast flanks of the mountain. It is most common as thin horizons which occur in place of argillite at the tops of graded sandstone beds and within finely laminated siltstone/tourmalinite couplets. Similar tourmalinite occurs as clasts within intraformational conglomerate. Sulphide mineralization in the immediate vicinity of Mount Mahon summit is restricted to a few exposures containing 1 to 2% disseminated pyrrhotite within both tourmalinized and nontourmalinized rocks.

#### 5. DRILL RESULTS

Veritical Diamond Drill Hole Chevron MM 84-1 penetrated 473 m (1552') of Aldridge Formation sandstone, siltstone and argillite (refer to Figs. 2 and 3 for location). Recovery was virtually complete. The hole appears to have gone through the Middle/Lower Aldridge contact since the lowermost 90 m contains only minor amounts of the distinct, massive, thick sandstone beds typical of the Middle Aldridge Formation in surface outcrops and in the upper part of the hole. This interval also contains a significantly higher proportion of pyrrhotite-rich siltstones characteristic of the Lower Aldridge. Bedding/core angles maintained relatively high (75-89°) values throughout the hole reflecting the shallow dips measured in surface exposures.

A number of distinctive horizons (including a 1 m thick conglomerate) penetrated in the upper 120 m of DDH MM 84-1 can be correlated with units encountered in outcrop in the Mount Mahon summit area and in Falconbridge DDH Y-13-81, 240 m to the south. Tourmalinization is negligible in MM 84-1, in sharp contrast to the abundant tourmalinite on the south and southeast slopes of Mount Mahon and in DDH Y-13-81. This indicates a rather abrupt northward decline in tourmalinization away from Mount Mahon summit.

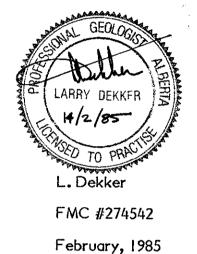
Pyrrhotite mineralization is distinctly more abundant in DDH MM 84-1 than in surface outcrops in the vicinity of Mount Mahon. Much of the mineralization, however, occurs in the lower two-thirds of the hole, over stratigraphic levels not exposed at the surface. The pyrrhotite occurs mainly within massive to laminated siltstone horizons, but also within concretions contained in sandstone beds and disseminated in the sandstone. No other sulphides were seen in any of the pyrrhotite-rich zones. Thirty-seven intervals were assayed for Cu, Pb, Zn, Ag and Mn, and an additional 22 grab samples were submitted for rock geochemistry. No anomalous metal values were obtained.

Pyrrhotite, with traces of chalcopyrite, occurs in two relatively thick (3 cm+) quartz veins, at 35 m and 148 m respectively, as well as in a number of thinner veins throughout the interval. A quartz vein containing pyrrhotite, galena, sphalerite and traces of chalcopyrite was intersected at 320.26 - 321.01 m. This vein is sub-parallel to the core axis and is estimated to be approximately 9 cm thick. This was the only Pb-Zn mineralization encountered in the hole. A 16 cm interval of this vein material assayed: 8.82% Pb; 3.34% Zn; 261.4 g/tonne Ag.

The core of DDH MM 84-1 is stored at Chevron Resources' warehouse facilities in Vancouver.

### 6. CONCLUSIONS

Diamond Drill Hole MM 84-1 cored 473 m of Middle and Lower Aldridge sediments. Tourmalinization within the hole is negligible, indicating an abrupt decrease in tourmalinization northward from Mount Mahon summit. Leadzinc-silver mineralization within the hole is restricted to a steeply dipping 9 cm thick quartz vein encountered at 320.26 – 321.01 m.



#### IN THE MATTER OF THE

### B. C. MINERAL ACT

AND

#### THE DIAMOND DRILL PROGRAM ON

#### THE TOURM CLAIM OF THE STAN CLAIM GROUP

### MOUNT MAHON AREA, S.E. BRITISH COLUMBIA

in the FORT STEELE MINING DIVISION of the

#### PROVINCE OF BRITISH COLUMBIA

#### N.T.S 82G4W

#### AFFIDAVIT

I, Larry Dekker, residing in the City of Vancouver, in the Province of British Columbia, make Oath and say

- a) That I am employed as a Senior Exploration Geologist by Chevron Canada Resources Limited, Mineral Staff and that I have personal knowledge of the facts of which I hereinafter depose.
- b) That the annexed hereto Exhibit marked "A" is a true statement of expenditures incurred in the Drill Program on the TOURM Mineral Claim, which forms part of the STAN claim group.
- c) That the said expenditures were incurred between September 29 and October 21st, 1984 for the purpose of mineral exploration on the STAN claim group.

L. Dekker Sr. Geologist

### APPENDIX I

### CHEVRON PERSONNEL EMPLOYED ON THE STAN CLAIM GROUP

Larry Dekker, Senior Exploration Geologist, 850 Cardero Street, Vancouver, B. C. V6G 2G5

Phone: 604-669-2367

A. Paul Schiarizza, Geologist, c/o B.C. Ministry of Energy, Mines and Resources, Geological Branch, Mineral Resources Division, Parliament Buildings, Victoria, B. C. V8V 1X4

John Patrick Henry, Drill Supervisor, 7822 Langley Street, Burnaby, B. C.

Phone: 604-525-3874

# STATEMENT OF QUALIFICATIONS

I, Larry Dekker, have worked as a geologist since graduation from the University of Amsterdam, the Netherlands, with a B.Sc. Degree in Geology (1965) and a M.Sc. Degree in Stratigraphy and Sedimentology (1969).

I am a licensee (P.Eng.) of the Association of Professional Engineers, Geologist and Geophysicists of the Province of Alberta, a Fellow of the Geological Association of Canada, a member of the American Association of Petroleum Geologists and a member of the Canadian Society of Petroleum Geologists.

I am currently employed as a senior geologist by Chevron Canada Resources Limited, 1900 – 1055 West Hastings St., Vancouver, B. C. V6E 2E9 and have been with this company for 16 years.

The exploration program on the STAN claim group was performed under my direction and supervision.

### STATEMENT OF QUALIFICATIONS A. PAUL SCHIARIZZA

A. Paul Schiarizza holds a B.Sc. (honours) Degree in Geology (1975) from Queen's University, Kingston, Ontario.

He has been employed as a research assistant at Queen's University (1976 and 1977), by Cominco (1978) and as a senior field assistant to Dr. V. A. Preto of the B.C. Ministry of Energy, Mines and Petroleum Resources (1978, 1979 and 1983). During the 1983 and 1984 field seasons he worked as a senior field assistant for Chevron Canada Resources, Minerals Staff, 1900 -1055 West Hastings Street, Vancouver, B. C., V6E 2E9.

### EXHIBIT "A"

### EXPENDITURE STATEMENT

### DIAMOND DRILL HOLE: CHEVRON MM 84-1 TOURM CLAIM - STAN CLAIM GROUP FORT STEELE MINING DIVISION

### i) WAGES (Chevron Personnel)

Drill and crew supervision, geology, core examination, etc.

	Name	<u>Position</u>	Period	Days at)	Amount	
A.Pc	y Dekker aul Schiarizza ttrick Henry	Sr. Geologist Geologist Drill Supr.	2/10-3/10/84 29/9-21/10/84 8/10-21/10/84	2 at \$250/day 23 at \$155/day 14 at \$230/day	\$    500. 3,565. 3,220.	
2)	DIAMOND DR	ILLING (inc. Mo	b, Demob, Set-u	o, etc.)		
		ng Ltd., Kamlooj d invoices #1284	os, B. C. 6, 12878, 12879	in Appendix III		\$ 65,880.60
3)	ROAD CONST	RUCTION AND	IMPROVEMENT			
	D7 Cat, W.R.	Johnson, Moyie d	s per invoice in .	Appendix III		\$ 3,626.00
<u>4)</u>	OTHER EXPE	NSES				
	Travel Truck Rental Food & Lodgin Report Prepar	ig (Ambleside Pa ation	rk, Yahk)	1,67	9.37 9.13 2.95 <u>0.00</u>	
				\$4,23	1.45	\$ 4,231.45
			GRAND TOTA	NL.		\$ 81,023.05
			Dille			

L. Dekker Sr. Geologist

### APPENDIX II

### ASSESSMENT WORK CREDITS TO BE APPLIED AS FOLLOWS:

<u>Claim Name</u>	Record No.	<u>Units</u>	Expiry Date	Assessment Cr. Applied	New Expiry Date
STAN	1942	20	1986/09/23	yr/\$2,000. 3 yrs/\$12,000.	1990/09/23
CHEV	1941	20	1986/09/23	yr/\$2,000. 3 yrs/\$12,000.	1990/09/23
TNT	953	15	1985/06/20	5 yrs/\$1 <b>5,000.</b>	1990/06/20
AME	954	8	1985/06/20	5 yrs/\$8,000.	1990/06/20
MEAD	782	6	1986/10/09	4 yrs/\$4,800.	1990/10/09
TOTAL ASS	ESSMENT WO	RK CRE		\$55,800.	

TOTAL EXPENDITURE	\$81,023.05
APPLIED ASSESSMENT WORK CREDITS	\$55,800.00
BALANCE	\$25,223.05

We request the balance of \$25,223.05 be applied to the PAC account of Chevron Canada Resources Limited.

### APPENDIX IV

### CORE DESCRIPTION CHEVRON MM 84-1

## DIAMOND []]LL RECORD

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MOUNT MAHON

## HOLE No. MM84-1

	DIP TEST	-		
Angle				
Footage	Reading	Corrected		
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182 m	<u>87°</u>			
464 m	87°			

Hole No. MM84-1 Sheet No. 1 of 77	Ł
Section	C
Date Begun October 3, 1984	8
Date Finished October 21, 1984	Ε

Lat
Dep
Dep Bearing
Elev. Collar. <u>1882 m</u> (6175')

473 m (1552') Total Depth	
Logged By P. Schiarizza	
Logged By. P. Schiarizza Tourm Cloim	
Core Size NQ	

DEPTH (m)	DESCRIPTION	SAMPLE No.	OF SAMPLE	Cu	Pb	Zn	Ag
0-2.1	Casing; no core	INTERVAL				-	
2.1-9.1	Sandstone; fine grained, light (rarely medium)					-	
	grey, massive. Bedding not distinct, but thick.						
	Darker grey biotite±garnet rich patches, to 4 cm				_		
· · · · · · · · · · · · · · · · · · ·	throughout (in part concretions?). Broken core			·		-	
, ,, , <u>, , , , , , , , , , , , ,</u>	from 2.1-2.8. Crumbled rusty zone from 2.8 - 2.85,			<u></u>		-	
	appears to be argillaceous siltstone with some vein						
	quartz, possibly po or py. O° quartz vein from						
	3.3 - 4.11; 3 cm thick at top, pinches out at bottom.						
	Bd/core angle 85°.						
9.1-11.52	Siltstone; light to medium (rarely dark) grey.				-	+	
	Beds 2 mm-13 cm; faint pinstripe laminations in					· ·	
	darker beds. Rare garnets in some darker beds.						
	Dark greenish-grey po-silicate spots (to 1.5 mm)						-
	in darker beds from 10.7-10.95. Two concordant	· · ·		<u> </u>			
	rusty zones (to 3.5 cm) in lower part of interval						
	may contain disseminated po. Rusty hairline fractures					-	
	at 5 -55° angle; one 10° fracture with py on surface.				+		1
	Bd/core angle 82°.						<b> </b>
11.52-19.00	Sandstone, fine grained, light (to medium) grey.						
	Beds 5-50 cm, massive, rarely with vague lensey					+	

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## HOLE No. MM84-1

	DIP TEST			
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Hole NoSheet No2 of 77	Lat	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Рb	Zn	Ag
	biotite-rich layering or laminations. 10% medium						
	to dark grey silstone/argillaceous silstone	1.					
···· · · · · · · · · · · · · · · · · ·	intervals to 20 cm; 2-15 mm beds, rarely with	117					
	thin light grey laminations. Bd/core angle 82°.	1					
19.00-20.27	Siltstone/argillaceous siltstone; light to medium	20.06-20.3	36	80 ppm	18 ppm	92 ppm	0.4 p
	grey. Beds 2-20mm; light grey siltstone (to very						
	fine grained sandstone) beds commonly cross						
	laminated; medium grey argillaceous siltstone						
	occasionally finely laminated. Lower 18 cm						
· · · · · · · · · · · · · · · · · · ·	contains 25% dark green po-silicate patches (to						
	5mm). Minor po? also within thin biotite-rich						
	laminae. Bd/core angle 78°.						
20.27-21.72	Siltstone; medium to dark grey. Fine pinstripe						
	laminations; some planar to lensey banding (3-						
	20 mm) defined by light to medium grey layers.						
	Dark green po-silicate patches common in upper						
	25 cm. Rusty 0-70° fractures, some coated with						
	po, common throughout. Bd/core angle 81°.						
21.72-23.56	Sandstone; fine to medium grained, micaceous, medium						
	grey. Beds to 60 cm, grading to very fine grained						
	sandstone or siltstone tops.						

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Hole NoSheet No	Lat	Total Depth
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Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
23.56-24.78	Sandstone; very fine grained, medium grey. Vague						1
	to distinct beds, 1-6 cm, with partings and						
	interbeds of darker grey argillaceous siltstone.						
	Upper 20 cm comprises distinct couplets (2-10						
	mm) of sandstone vs. dark grey argillaceous						
	siltstone. Rusty hairline fractures at variable						
	angles common throughout. Lower 90 cm cut by						
	10°, 3 cm+ guartz vein with 2-3% biotite and 5%						
	rusty stringers and vuggy patches, some with						
	traces of py (or po?).						
24.78-25.25	Siltstone/biotitic siltstone; light/dark grey. Beds						
	1-15 mm, contorted from 24.88-25.00 where cut by						
	85° quartz vein. Biotitic silstone contains 20-						
	25% discrete biotite flakes which define weak						
	cleavage at 50° core angle. Bd/core angle 75°.						
25.25-26.41	Sandstone; very fine grained, micaceous. Beds 1-						
	17 cm with minor siltstone interbeds. 20-25%						
	mica (mainly biotite) in places defines weak						
	cleavage at 50° core angle. Bd/core angle 80°.						
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Date Finished	Eley. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
26.41-26.85	Distinct graded couplets, 2-15 mm, of dark grey						
·	biotitic siltstone grading up into light greenish-						
	grey argillaceous siltstone. Bd/core angle 85°.						
26.85-40.05	Sandstone; fine grained, light to medium grey. Beds						
	5-70 cm; massive, some with graded tops. Minor						
	(to 7 cm) intervals of laminated siltstone to						
	very fine grained sandstone. Load casts/channels						
	at some sandstone bases. Elliptical biotite-						
······	rich patches or selvages (concretions?) in lower						
	4.33 m and lensey very fine grained, light greenish-						
	grey siliceous patches (also concretions?) with						
	minor biotite, muscovite? and po? from 35.36 to						
	35.72. Very low angle, 2.5 cm+ quartz vein from						
	34.14-35.36; contains 15% biotite + chlorite (or						
	chloritized biotite) as scattered grains and						
	patches and, in places, as a selvage along						
	vein/sandstone contact, and contains 5% po and						
	trace cpy as large patches concentrated mainly						
·	in upper and central portion of vein. Vein pinches						
	out within core at top, and gradually passes out						
	of 'core at base. Bd/core angle 80°.						

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Hole NoSheet No. 5 of 77	Lat	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev, Collor	Core Size

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
40.05-40.95	Conglomerate; lenses and amoeboid-shaped clasts						
	of medium to dark grey argillaceous siltstone						
	and silty argillite within a light to medium grey,						
	fine grained sandstone matrix. Clasts to 2 cm						
1. 111.17.4.141.141.4	thick; some look more like disrupted beds than				_		
	discrete clasts. At 40.68 m is base of 5 cm sandstone						
	layer which passes up into 7 cm of light grey						
· · · · · · · · · · · · · · · · · · ·	siltstone with thin laminae of dark grey silty						
	argillite- could be an intact bed or lense within				_		
	the conglomerate. This is clearly the same conglomera	te					
	that is recognized in outcrop on both flanks of						
	Mount Mahon.						
40.95-47.94	Sandstone; fine to very fine grained, medium grey,						
	some garnets. Beds 7 to 50 cm (often not distinct),			<b>.</b>			
	massive, rarely with graded tops. Load casts						
	or channels at some sandstone bases. Rare concretions	· · · · · · · · · · · · · · · · · · ·					
	rich in biotite and garnet. 20% laminated dark/light						
	grey silty argillite, intervals to 32 cm; laminae						
	1-8 mm, some grading from thin dark bases to thicker						
	light grey tops. Feldspar porphyroblasts in some						
	light grey laminae. Bd/core angle 75%.						

## DIAMOND PYLL RECORD

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## HOLE No. MM84-1

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Hole No Sheet No. 6 of 77	Lat	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished		

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
47.94-48.21	Contorted to conglomeratic sandstone/silty argillite						
	similar to that from 40.05-40.95.						
48.21-51.91	Argillaceous siltstone; laminated, light vs. medium						
	to dark grey (light bands predominate); siltstone						
······································	intervals to 30 cm separated by 40-50% light to						
	medium grey, fine to very fine grained sandstone						
	in 3 to 15 cm beds. Rare flames/load casts at						
· · · · · · · · · · · · · · · · · · ·	sandstone/siltstone contacts. Rare garnet						
	porphyroblasts in sandstone. Lower 10 cm contains						
	minor po within thin (1-2 mm) dark grey siltstone						
	laminae. Bd/core angle 81°.						
51.91-54.08	Sandstone; fine grained, light to medium grey.						
	Beds 2-15 cm, massive with irregular biotite-rich						
	patches to 3 cm. Trace to 5% po within some of						
- ····	these biotite-rich areas. Rare thin horizons of						
	dark to light grey laminated argillaceous siltstone/						
	silty argillite (with feldspar porphyroblasts).						
	From 52.50 to 52.75 m is regularly banded (<1 mm-				-	-	
	18 mm) light/dark grey argillaceous siltstone						
	similar to Marker Bed lithology. Faint pinstripe						
	laminations evident in some darker bands.						

## DIAMOND PYLL RECORD

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### HOLE No. MM84-1

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Hole No	Lat	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
·	Bd/core angle 80%.						
54.08-54.19	Argillaceous siltstone; medium to dark grey with						
	thin (1-3 mm) light grey laminae. Similar to						
	Marker Bed lithology. 6 mm band of light grey						
	silty argillite in central part of interval.						
· · · · · · · · · · · · · · · · · · ·	Bd/core angle 79°.						
54.19-54.73	Argillaceous siltstone/silty argillite; dark vs.						
	light grey, distinctly laminated (4-8 mm), often						
· · · · · · · · · · · · · · · · · · ·	graded from dark up to light grey. Less argillaceous						
	with thicker, less distinct banding over lower						
	15 cm. Bd/core angle 79°.						
54.73-59.39	Sandstone; fine grained, light grey. Beds 6-	57.95-58.	00	54 ppm	12 ppm	114 ppm	0.1 p
	30 cm(+?), often not distinct; massive grading						
	to finer, more micaceous tops. Semi-concordant,						
· · · · · · · · · · · · · · · · · · ·	darker, coarser garined biotite rich patches (to						
	3 cm) common; some of these in lower half of						
	interval contain up to 10% disseminated po. At						
· · · · · · · · · · · · · · · · · · ·	58.04 to 58.13 are thin cross bedded very fine						
	grained sandstone beds capped by argillaceous						
	siltstone. Bd/core angle 79°.						

## DIAMOND FYLL RECORD

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
59.39-60.31	Argillaceous siltstone; medium grey. Pinstripe						
	laminations and rare laminae (1-3 mm) of light				-		
<u>_</u>	grey siltstone. Very fine trains of rusted out						
	po(?) enhance pinstriping in lower portion; rare						
	dark green po-silicate spots (1-2 mm) also in lower						
	portion. Bd/core angle 81°.						
60.31-62.14	Siltstone/silty argillite; dark/light grey. Mainly						
-	as 1-15 mm graded complets in which light grey						
	tops (with feldspar porphyroblasts) predominate.						
	10-15% cross bedded siltstone (to very fine grained						
	sandstone) as laminae and thin beds capped by darker						
	grey silty argillite. Rare beds of fine grained						
	sandstone, to 6 cm, in lower 60 cm. 5 x 3 cm						
	concretion of quartz-biotite-10% po 30 cm from						
	base of interval. Rare po blebs ( 1-2 mm), mainly						
	in light grey horizons, in upper part of interval.						
	Bd/core angle 80°.						
52.14-63.24	Sandstone; fine grained. Beds 1-30 cm. Patches						
·····	of relatively coarser grained and biotite-rich						
	garnetiferous rock. Interbeds (tops to sandstone				·		
	beds?) of medium to dark grey silty argillite with						

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Рb	Zn	Ag
	feldspar porphyroblasts. Rare intervals to 8 cm						
	of laminated siltstone/silty argillite as in						
	overlying interval.						
	2 x 15 mm chips of dark grey argillite at top of						
	sandstone bed 69 cm below top of interval. Bd/core						
	angle 81°.						
63.24-63.48	Siltstone; upper 8 cm is laminated (1-8 mm) medium-						
	dark grey argillaceous siltstone/lightish grey						
,	silty argillite with feldspar and biotite (?)						
	porphyroblasts underlain by medium grey cross			·····			
	bedded siltstone. Lower 16 cm is medium grey,						
	pinstriped siltstone with rare 3 mm bands of light						
	grey silty argillite. Bd/core angle 81°.						
63.48-67.38	Sandstone; fine grained, medium grey, some garnets.						
r	Beds 8-35 cm, massive, with relatively coarser						
	grained garnet-biotite-quartz concretions(?). 10%						
····	laminated siltstone/silty argillite intervals to						
	12 cm. Two chips, largest 3 x 5 cm, of dark grey						
	silty argillite encased in 1 mm po rim near base						
	of sandstone bed at 63.75 m. Minor po disseminated						
	in concretions. Po as disseminations and patches						

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
······	from 66.03 - 66.28 m. Bd/core angle 83°.						
67.38-68.80	Argillaceous siltstone-silty argillite; light						
	to dark grey. Distinctly banded, typically as						
	2-12 mm medium to light grey laminae separated			•			
	by≤1 mm dark grey laminae. Rare feldspar						
	porphyroblasts in lighter bands. Rare graded						
	beds.						
	10% 1-2 cm very fine grained sandstone beds, graded,						
	flames at bases.						
	- at 68.54 m are contraction faults (45° core						
	angle) with 1 cm offsets. Bd/core angle 79°.						
68.80-70.04	Sandstone; fine grained, medium grey. Beds 5-						
	25 cm. Laminated siltstone intervals to 4 cm.						
	Siltstone disrupted and occasionally as rip-up						
	clasts against overlying sandstone. Bd/core angle						
·•	85°.						
70.04-71.10	Silstone-argillaceous siltstone; light/medium						
	grey, distinctly banded (<1-15 mm) with rare very						
	thin laminae of dark grey argillite or argillaceous						
	siltstone; minor po in some dark grey laminae.						
	Some cross laminations(?). Some laminae contain						

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	to 15% white feldspar porphyroblasts. Banding						
	mainly planar, but is lensey and contorted from						
	70.27-70.67 m where rock is relatively po-rich;						
	po as lenses and blebs (to 4 x10 mm) within specific						
	thin dark grey laminae. 15% po within 4 cm contorted						
	siltstone lense in central part of suplhide-rich						
	interval. Py within low angle hairline vein in						
	lower part of po-rich interval. Bd/core angle						
	81°.						
71.10-74.06	Sandstone; fine grained, medium grey. Beds 12-	71.14-71.	59	<0.01%	<0.01%	0.02%	0.5 g
	50 cm, massive, with biotite (± garnet)rich patches					-	
	(concretions?) to 6 cm. Rare intervals, to 5 cm, of						
	laminated siltstone/silty argillite. Sandstone						
· · · · · · · · · · · · · · · · · · ·	in upper 50 cm is darker grey, with 3-4% disseminated						
	po. 5-8% po within 6 cm garnet-biotite concretion						
·	within this zone. Minor po disseminated elsewhere						1
······································	in interval, mainly in biotite-rich patches.						
74.06-76.77	Siltstone-argillaceous siltstone (minor silty argillite	;					
	medium-dark (rarely light) grey; Most in distinct						
<u></u>	1-20 mm laminae; flames, load casts, scours, rare						
	cross laminations & graded laminae (from dark to						

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	light grey). Three intervals (8 to 18 cm) of						
	medium grey argillaceous siltstone with pinstripe						
	laminations and rare light grey siltstone laminae.						
	40% fine to very fine grained, light grey sandstone;						
	beds 1-11 cm, some grading to finer grained more						-
	argillaceous tops. 5 mm tourmalinite clast rimmed	·					
	by 1 mm po halo within 8 cm sandstone bed near top						
	of interval; disseminated po in lower portion						
	of bed. Underlying sandstone bed contains non-						
	tourmalinized argillite chip. Po disseminated						
	through small portion of siltstone and as blebs						
	and heavy disseminations within rare thin (to						
	4 mm) dark grey laminae. 1-2% po disseminated through						
	thin medium to dark grey (slightly tourmalinized?)						
··· · · · ·	garnetiferous sandstone from 74.92-75.13 m. 10-						
	15% po within two separate relatively coarse grained						
	quartz-biotite-garnet lenses (to 2 cm) in sandstone						
· · · · · · · · · · · · · · · · · · ·	from 75.79-76.11 m. (concretions?). Bd/core angle						
	81°.						
6.77-85.02	Sandstone; fine grained, light to medium grey.	and the second se					
	Beds 5-40 cm, often not distinct, massive.						

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	Biotite (±garnet)-rich patches, to several cm,						
	quite common; some with vague concentric structure,						
	probably concretions. From 81.57 to 82.73 sandstone						
	contains 20% dark grey amoeboid-shaped biotite-						
· · · · · · · · · · · · · · · · · · ·	rich patches 1-10 mm. 10% laminated light/medium						
	grey siltstone/argillaceous siltstone; commonly						
	cross laminated, some load casting. Po disseminated						
	sparsely through some argillaceous siltstone laminae						
	and within concretions in sandstone. 5 x 20 mm						
·	quartz-biotite clast(?) at 84.23 m contains 30-						
	35% po, has thin biotite selvage. A few darker						
	grey (with pinkish tint) zones, to 20 cm, in lower						
	part of interval contain 1% disseminated po. Bd/core						
	angle 81°.						
85.02-87.00	Siltstone/argillaceous siltstone; light to dark						
	grey, 1 to 40 mm beds, may be distinct or only						
	poorly defined; minor flames/load casts/graded						
·····	beds (from dark base to light top with feldspar						
	porphyroblasts). 50% sandstone as 5-20 cm beds.						
	15 cm greenish concretion containing chlorite-						
	biotite-garnet-calcite-quartz and minor po within						

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	sandstone at 85.85 m. Minor po disseminated through						
	some siltstone and sandstone beds. 5% po as 1-						
	2 mm patches within siltstone from 86.68-86.80						
	m. Bd/core angle 87°.						
87.00-87.19	Sandstone; fine grained, medium to dark grey.						
	Contains abundant po (and py?); 1-5% po as fine						
	disseminated grains in lower 13 cm, 10-15% po						
	(and py?) as relatively large (few cm) patches						
	in upper 6 cm.						
87.19-88.46	Siltstone; medium to dark grey (with purplish						
	tint), hard, looks hornfelsic (possibly tourmalinized)	?).					
	Rare light grey siltstone laminae to 1 cm. 1%						
	po disseminated sparsely through interval. po						
	also in 1-2 mm 15° biotite-rich veins found mainly						
	in upper portion of interval.						
88.46-89.18	Siltstone/argillaceous siltstone; medium to dark					<u> </u>	
	grey/light grey. Distinct 1-15 mm laminae; light						
	bands dominate, rare grading from dark up to light.						
	Up to 20% po within some thin (to 3 mm) dark laminae.						
· · · · · · · · · · · · · · · · · · ·	Pō also along rusty hairline fractures at 0-30° angle.						
	Bd/core angle 80°.						

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	РЪ	Zn	Aq
89.18-93.25	Siltstone/argillaceous siltstone; medium grey,	89.59-90.	68	<0.01%	<0.01%	0.01%	K 0.39
	may be slightly tourmalinized in places. 20%						
	light grey argillite in 0.5-10 cm intervals;						
	argillite typically crowded with light grey						
	feldspar porphyroblasts. po occurs in seven						
******	separate patches, 1-9 cm; patches either dark						
	grey, irregular and biotite rich, or light grey,						
	lense-shaped and composed mainly of quartz along						
	with biotite and po. Minor po disseminated through			· · · · · · · · · · · · · · · · · · ·			
	the "normal" medium grey siltstone. Bd/core angle						
	81°.						
93.25-94.68	Siltstone/argillaceous siltstone; medium to dark	93.28-94.	32	<0.01%	< 0.01%	<0.01%	< 0.3
	grey. Massive, with rare 2-10 mm laminae; may						
	be slightly tourmalinized in places? Lower 35						
	cm is distinctly banded with 1-15 mm laminations						
	and rare laminae of light grey argillite with						
	white feldspar porphyroblasts. Minor po disseminated						
	through siltstone and as 15-25% concentrations						
	in rare thin, 2-3 mm, laminae. 10-15% po in vague						
	coarser grained biotite-quartz patch (5 cm wide)						
	in upper part of interval. 2 x 4 cm lense						

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	(concretion? or clast?) at 93.88 m contains 20-						-
	30% po and is enclosed in 3mm po rim; rare similar,						
	but smaller, lenses lower down in interval. Bd/core						
- <b>-</b> · · · · · · · · · · · · · · · · · · ·	angle 79°.						
94.68-99.18	Sandstone; very fine grained, argillaceous, medium						
	grey. Beds 8-40 cm, often not distinct. 10%					_	
	laminated dark grey biotitic siltstone/light grey						
	silty argillite; intervals to 5 cm. Po as very						
	minor disseminations through some sandstone, and						
	as 10-20% concentrations in rare biotite-rich						
	patches and in light grey quartz-biotite-po lenses						
	(concretions?).						
99.18-100.25	Argillaceous siltstone/silty argillite; medium						
	to dark grey, 60% with very faint pinstripe						
	laminations, 40% with distinct 1-10 mm laminae.						
	Weak slaty cleavage at 35-40° core angle. Minor						
	disseminated po through much of siltstone; very						
	rare thin ( 1 x 20 mm) stratiform po lenses. Dark						
	green chlorite (or chloritized hornblende?)-biotite-						
	<pre>quartz-garnet-calcite concretion(?) from 100.04-</pre>						
	100.13 m; contains 1% po. Bd/core angle 82°.						

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
100.25-103.49	Sandstone; fine to very fine grained, argillaceous,			· · · · · · · · · · · · · · · · · · ·			
	garnetiferous, medium grey. Beds to 30 cm(?),						
	but not distinct. Rare thin (to 3 cm) intervals						
	of medium/dark grey laminated siltstone or light						
	grey silty argillite with feldspar porphyroblasts.						
	Rare vague garnet-biotite patches (to 2 cm) with						
	up to 2% disseminated po. Bd/core angle 80°.						
103.49-104.24	Argillaceous siltstone; medium grey. Vague pinstripe						
	laminations, and rare 1 cm laminae of light grey						
	siltstone or of light grey silty argillite with						
	feldspar porphyroblasts. 1% disseminated po;						
	5% green po-silicate patches (1-5 mm) from 103.73-						
	103.87 m. Bd/core angle 81°.						
104.24-106.23	Sandstone; fine grained, argillaceous, 1-2% garnets,						
	medium grey. Beds 15-40 cm. 10% light to dark			•			
	grey laminated siltstone/silty argillite (intervals						
	to 5 cm). Bd/core angle 78°.						
106.23-106.99	Siltstone/argillaceous siltstone/silty argillite;						
	dark to light grey. Distinct thin beds and laminae;						
	planar over most of interval, but contorted (including						
	possible load casts and flames) over upper 8 cm.						

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
·····	Some dark grey argillaceous siltstone contains						
	pinstripe laminations & minor disseminated po.						
-	20% fine grained sandstone in 4-6 cm beds. Sandstone			· · · · · · · · · · · · · · · · · · ·			
	(2 beds) from 106.50-106.60 contains 5% po as						
	irregularly distributed patches and disseminations.						
	Bd/core angle 80°.						
106.99-113.86	Sandstone; fine to very fine grained, argillaceous,						
	medium grey. Beds 2-30 cm. 20% light to dark						
	grey siltstone/argillaceous siltstone; most in						
· · · · · · · · · · · · · · · · · · ·	distinctly laminated to thin bedded intervals						
to 8 cm.Dark grey silty argillite with pinstripelaminations from 110.73-110.95 m; contains rarevery thin black laminae and rare thin beds ofmedium to light grey silty argillite.1-3% powithin pinstriped siltstone.2-10% po within severalrelatively coarse grained quartz-biotite±garnetpatches (to 4 cm) within sandstone (concretions?).Po rarely elsewhere in interval as minor disseminatioor as green po-silicate patches within sandstone.							
	very thin black laminae and rare thin beds of						-
	medium to light grey silty argillite. 1-3% po						
	within pinstriped siltstone. 2-10% po within several						1
	relatively coarse grained quartz-biotite±garnet						
	patches (to 4 cm) within sandstone (concretions?).						
	Po rarely elsewhere in interval as minor dissemination	5					
	or as green po-silicate patches within sandstone.						
	Bd/core angle 81°.						1

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
113.86-115.20	Argillaceous siltstone (silty argillite; medium						
	to light (rarely dark) grey. Well defined 1-						
	5 mm laminae; generally planar, occasionally						
· · · ·	lensey and/or contorted. Fine pinstripe						
	laminations in thicker, darker bands. Occasional						
	feldspar porphyroblasts in light grey silty argillite						
	laminae. 5% very fine grained sandstone in 4-						
	6 cm beds; minor load casting and rip ups at						
	sandstone bases. Minor po disseminated mainly						<u> </u>
	in pinstriped siltstones. 1 cm lense with 25%						
	py (and po?) near top of interval. 6 mm of 10%						
	disseminated po at top of one sandstone bed.						
á)	Bd/core angle 82°.						
115.20-116.19	Siltstone/argillaceous siltstone/minor argillite;						
	light to dark grey. Mainly as 5-15 mm cross						
	laminated bands; also 1-10 mm planar, sometimes						
	graded, dark to light grey laminae; minor dark						_
	grey beds, to 2 cm, with pinstripe laminations.						
	Rare beds of very fine grained sandstone to 3						
	cm. Garnet porphyroblasts in some sandstone and						
	siltstone beds. Minor po as disseminations within						

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	pinstriped siltstone, as discordant patches within						
	cross laminated siltstone, and as 15-20%						
	concentrations in rare very thin ( 1 mm) dark			··· · · · · · · · · · · · · · · · · ·			
<u> </u>	grey laminae. Bd/core angle 80°.						
116.19-120.67	Sandstone; fine to very fine grained, argillaceous,						
	garnetiferous; medium grey. Beds 3-30 cm, massive					_	
	with rare vague internal laminations. 30% laminated						
	light to dark grey siltstone/silty argillite and			· • • • • • • • • • • • • • • • • • • •			
	dark grey pinstripe-laminated argillaceous						
	siltstone; siltstone intervals to 16 cm, become			~			
	more abundant towards base of interval (as sandstone						
	beds become thinner). 5-20% po in eight separate						
	garnet-biotite-quartz concretions, to 8 cm. Po	·····					
	rarely as $\leq 1$ mm blebs with biotite selvages;						
	generally at 60-70° core angle, rarely sub-						
	parallel bedding. Bd/core angle 83°.						
120.67-120.69	quartz vein; 80° core angle.						
120.69-123.13	Siltstone to silty argillite; light to dark grey.						
	2-30 mm beds, rarely cross laminated or graded;						
······	some flames and load casts; 20% with vague pinstripe						
	laminations. 30% fine grained sandstone in 1.5						

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	to 6 cm massive or graded beds. Po disseminated						
	within several garnet-biotite-quartz concretions						
	in sandstone and within generally pinstriped						
	argillaceous silstone. Po rarely concentrated						
	in 1-2 mm siltstone laminae. Bd/core angle 82°.						
123.13-123.63	Argillaceous siltstone/silty argillite; dark/light						
	grey. Distinct even graded laminae 4 to 8 mm.						
	15% light grey siltstone to very fine grained						
	sandstone in 10-15 mm beds with load casts and						
	flames at their bases. 1-3% po disseminated in						
····	some light grey siltstone beds; rare thin po						
	lenses in 1 mm black laminae within siltstone.						
	Bd/core angle 82°.						
123.63-125.92	Siltstone to silty argillite with 30% very fine						
	grained sandstone interbeds as from 120.69-123.13.						
	Minor po finely disseminated through some siltstone,			<u></u>			
	as very thin ( $\leq 1$ mm) concentrations at bases						
	of a few sandstone beds, and as disseminations						
	within two biotite-quartz concretions(?) in sandstone						
	beds. 5 x 20 mm lense (clast?) of dark grey,						
	hard, very fine grained siliceous or tourmalinized						

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	rock at 124,27 m. Bd/core angle 81°.						
125.92-127.25	Sandstone; fine grained, argillaceous, scattered						
	garnet porphyroblasts; medium grey. Massive,						
· · · · ·	bedding not distinct. Includes 4 cm of medium			~			
	grey argillaceous siltstone near base. Six relatively						
	coarser grained garnet-biotite-quartz concretions,						
	to 7 cm, with only minor disseminated po.						
127.25-127.92	Silty argillite/argillite; medium greenish-grey/light						
	grey. Mainly silty argillite with faint streaky						
	laminations. 10% is light grey argillite, in 6-						
	26 mm beds, that is so crowded with roundish feldspar						
	porphyroblasts that it resembles a medium to coarse						
	grained sandstone. Medium grey, very fine grained						
	argillaceous sandstone common from 127.50-127.80.						
	Bd/core angle 80°.						
127.92-128.85	Sandstone; fine grained, light grey. Massive						-
	beds 4-25 cm; four garnet-biotite concretions						
	to 2 cm. 10% medium grey laminated siltstone						
	intervals to 2 cm. Very minor po disseminated						
	within concretions. Bd/core angle 80°.		~				

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Date Begun	Bearing	Claim
Dote Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	· · · · · · · · · · · · · · · · · · ·						
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128.85-132.16	Argillaceous siltstone; medium to dark grey. Streak	/					1
	discontinous laminae <1-8 mm,with rare planar						
	thin black laminae, and light grey silty argillite						
	laminae to 6 mm. 5% faintly pinstripe laminated						
	argillaceous siltstone in parallel-sided beds				3		
	to 10 cm. Rare cross laminated horizons $\leq 1$ cm.						
	20% fine grained sandstone in 2-15 cm graded beds.						
	5% disseminated po from 130.93-131.15 m; includes						
	streaky laminated siltstone, cross laminated siltsto	ne,	· · · · · · · · · · · · · · · · · · ·	· · · ·		******	
	and thin sandstone beds. ≤1% po disseminated through						
	much of remaining interval. Bd/core angle 80°.		-				
132.16-137.36	Sandstone; fine grained, light grey; commonly	133.69-1	.33.79	700 ppm	5 ppm	250 ppm	0.6 p
	with garnet porphyroblasts. Massive beds 4-35			· · · · · · · · · · · · · · · · · · ·			<u> </u>
	cm (mainly 20-30 cm). 20% thinly bedded or laminate	đ					
	medium to dark grey argillaceous siltstone intervals						
	to 16 cm. Rare 5-15 mm bands of light grey argillit						

## DIAMOND ())ILL RECORD

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Hole NoSheet No24 of 77	Lat	Total Depth
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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	РЪ	Zn	Ag
	with black biotite and white feldspar porphyroblasts	biotite and white feldspar porphyroblasts Two small (4 x 25 mm) chips of dark lite within sandstone at 134.99 and 2 mm, 0-10° quartz vein with biotite from 132.80-133.57 m. 1-2% (rarely seminated through 15-20% of the sandstone, poorly defined darker grey patches to liceous garnet-biotite patch from 133.62- ontains abundant po as heavy disseminations, patches, and rare solid po lenses to					
	DESCRIPTION       SAMPLE No. OF SAMPLE       CU       PB       Zh         with black biotite and white feldspar porphyroblasts						
	grey argillite within sandstone at 134.99 and						
	135.36 m. 2 mm, O-10° quartz vein with biotite						
	and 1% po from 132.80-133.57 m. 1-2% (rarely						
	5%) po disseminated through 15-20% of the sandstone,						
	mainly in poorly defined darker grey patches to						
	10 cm. Siliceous garnet-biotite patch from 133.62-						
	133.80 m contains abundant po as heavy disseminations	,					
	irregular patches, and rare solid po lenses to						
	2 x 20 mm. 4 cm concretion at 135.50 m consists	···				1	
	of 1 cm siliceous (+biotite and garnet) rim enclosing					-	
	core of garnet-biotite-quartz with 10% po. Bedding/						
	core angle 81°.						
137,36-141,69	Siltstone/argillaceous siltstone; medium grey.						
	Streaky discontinous, often contorted bands 1-						
	6 mm. Non-banded intervals to 8 cm with very					h	
	thin blebs of biotite±po defining a discontinous						
	pinstripe lamination. Rare intervals, to 2 cm,						
	of light grey argillaceous siltstone in 1-5 mm			Ì			
	parallel bands with thin dark grey biotite-rich						

# DIAMOND F JILL RECORD

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Date Begun	Bearing	Claim
Date Finished	Elev, Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	laminae. 40% fine to very fine grained sandstone					1	
	in 2-12 cm graded beds; flame structures at some				-	<b>*</b> ·	
	sandstone/siltstone contacts. 1-3% po found in						
	pinstriped siltstone, in thin biotite-rich laminae,						
· · · · · · · · · · · · · · · · · · ·	and disseminated in basal portion of some sandstone		·				
	beds; rare blebs, 1 x 4 mm, of po within some						
	siltstone laminae. Bd/core angle 81°.						
141.69-145.55	Argillaceous siltstone; medium to dark grey; po-	142.52-14	3.77	<0.01%	<0.01%	0.01%	<0.3
	rich. Upper 71 cm is mainly massive, with 1-	143.87-14	4.88	< 0.01%	<0.01%	0.01%	20.3 g
	10 mm lenses and contorted layers of slightly						
	lighter grey siltstone scattered throughout. From						
	142.40-144.07 contains pinstripe laminations defined						
	by very thin trains of biotite and po. Lower		· · · ·				
	1.48 m comprises distinct planar bands, mainly						
	1-10 mm, defined by thin dark grey laminae and						
	rare light grey laminae, also includes planar						
	beds, to 5 cm, with pinstripe laminations. 1-						
	4% po within most pinstriped intervals; 2-5% po						
	from 143.88-144.07 with lenses and laminae, to						
· · · · · · · · · · · · · · · · · · ·	17 mm, containing 20-30% po. Elsewhere po concentrate	d					
	mainly in light grey lenses in upper part of interval						

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Hole NoSheet No	77 Lat	Total Depth
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Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	and in thin dark grey laminae in lower part. 2-						
	8 mm siliceous lense at 132.62 m enclosed in dark						
	greenish-brown po-rich rim. Bd/core angle 82-						
	85°.						
145.55-149.75	Sandstone; fine to very fine grained, light to	147.40-14	8.06	< 0.01%	<0.01%	<0.01%	< 0.3 9
	medium grey. Massive, thick bedded, but contacts						
·	not readily apparent; relatively thin (4-10 cm)						
	beds over upper and lower 20 and 45 cm respectively.						
	10% thin horizons of light grey argillite (with						
	feldspar porphyroblasts) or laminated medium to						
· · ·	dark grey argillaceous siltstone. Rare darker						
	garnet-biotite patches within sandstone containing						
	to 15% po. At 145.80 is 9 mm quartz-po vein at						
	71° core angle; this truncates a thicker (4 cm+),						
	very low angle, quartz-biotite-po vein which						
···-	extends to base of interval. Vein averages 5%						
	po in large patches to 2 cm; also contains 5-						
	10% large biotite flakes and rarely an ascicular						
	greenish-grey mineral which occurs in sheaf-like						
	clusters to 1 cm long.						
149.75-150.87	Argillaceous siltstone; medium grey. 1-10 mm						

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Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
· · · ·	indistinct irregular laminae; rarely massive					-	<u> </u>
	or with faint pinstripe laminations. Rare lanses						
	and beds, to 1 cm, containing abundant light						
	grey feldspar porphyroblasts. 35 mm faintly				1		-
	pinstriped bed at 150.48 contains 20% finely						1
	disseminated po. Bd/core angle 81°.						1
150.87-152.69	Sandstone; fine grained, light grey, rare garnet				1		
	porphyroblasts. Thick, massive beds; contacts	····		••·			1
	not distinct. Minor laminated medium grey						
	siltstone and light grey argillite with feldspar				1		
	porphyroblasts. 2 cm garnet-biotite-quartz						
	concretion at 152.26 m contains 25% po in						
_	central biotite-rich portion.						1
152.69-153.98	Argillaceous siltstone; medium grey. 20% with						1
	faint pinstripe laminations and 1-2% disseminated						1
	po (with rare thin laminae of 20-30% po). 15%						[
	as distinct 1-2 cm graded beds with thin dark						
	grey biotite-rich selvage at base and lighter			, ,	† · .	· · · ·	
	grey top containing feldspar porphyroblasts.					-	
	20% fine grained sandstone as 4-6 cm graded beds.						
	Bd/core angle 85°.						

## DIAMOND PALL RECORD

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Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
153.98-156.47	Sandstone; light to medium grey, fine grained,						
	in part argillaceous, scattered garnet porphyroblasts	•					
	Three po-garnet-biotite-quartz concretions, to						
	3 cm, in lower half of interval. Thin biotite						
	selvages at low core angle common in lower 70						
	cm. 10% medium grey vaguely laminated argillaceous						
	siltstone intervals to 10 cm.						
156.47-165.81	Argillaceous siltstone; medium grey. Most with	160.90-16	1.97	<0.01%	<0.01%	0.01%	< 0.3.0
	poorly defined lensey laminations; also as	163.28-16	4.19		<0.01%		
	parallel-sided bands, 4-12 mm, commonly grading						
	from dark grey bases to medium or light grey						
	tops; some massive to faintly pinstripe-laminated						
	intervals to 6 cm. 35% fine to very fine grained						
	light to medium grey sandstone in massive (rarely						
	graded?) beds 2-50 cm, with rare garnet						
	porphyroblasts. Interval contains substantial						
	po; occurs as minor to major disseminations						
	within both sandstone and siltstone, as massive				-		
	lenses and laminae, typically only a few mm						
	thick, within siltstone; as dark green po-			·			
	silicate intergrowths covering intervals up to						

## DIAMOND F JILL RECORD

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	11 cm within both siltstone and sandstone, as						
	2-15% concentrations within concretions in sandstone	,					
	as thin discordant biotite-po blebs and stringers						
	within sandstone, and rarely as very thin quartz-						
	po veins. Seems to be a definite positive correlation	ו					
	between garnet and po within sandstone. Bd/core						
	anglë 80°.						
165.81-169.78	Mislatch; only 1.6 m recovered (2.37 m missing).						
	Mainly fine grained light to medium grey sandstone	·					
	and argillaceous sandstone, massive. Minor amounts						
·	of light grey silty argillite with feldspar porphyro	•					
	blasts. 1-3% po disseminated through garnetiferous						
	portions of the sandstone, and in thin biotite-						
	rich lenses and layers within the argillaceous						
	sandstone.						_
169.78-171.86	Sandstône; fine grained, light to medium grey.			<u></u>			
	Massive beds 10-50 cm. 20% medium/light grey			<u>.</u>			
	argillaceous siltstone/silty argillite. Minor						
	po disseminated through sandstone. 5-15% po						
	within 2 cm concretion; 6 cm halo of 2-5%						
	disseminated po in sandstone surrounding						

DIAMOND F JILL RECORD

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Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	concretion.						
171.86-174.58	- Argillaceous siltstone; medium to dark (rarely						
	light) grey. Most with 1-20 mm lensey banding;	,					
	7 cm of parallel banded siltstone at top of interval,						
	includes some graded beds from dark biotite-						
	rich bases to lighter grey tops. 40% medium						
	grey fine to very fine grained sandstone and						
	argillaceous sandstone; beds 4-20 cm, some graded.						-
	Minor po disseminated through most of interval.						
	Massive py (and/or po?) in six separate thin						
	(1-2 mm) lenses within siltstone. 20% py as						
	lenses and blebs within 3 cm siltstone interval.						
	2-10% po (+py?) disseminated in basal portions						
. <u></u>	(to 5 cm) of six different sandstone beds.						
	Bd/core angle 80°.						
174.58-176.00	Argillaceous siltstone; medium grey. Fine pinstripe	174.81-17	6.00	<0.01%	<0.01%	0.01%	<0.3
	laminations from 175.04-175.75 m defined by biotite-						
	po trains and blebs. Distinct 4 mm-5 cm beds						
	in upper 20 cm, some grading from light grey						
	siltstone bases to medium grey argillaceous						
	siltstone tops; flames and load casts at bases						

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Hole NoSheet No	7 Lat	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE			
	of thicker beds. Remainder of interval characterized					
	by indistinct lensey banding. 2-5% po within					
	pinstriped siltstone. 5-10% po within two					
	<pre>separate quartz-biotite-garnet concretions(?)</pre>					
	(2 and 3 cm) between 174.78 and 175.04 m. 1-					
	5 mm irregular greenish po-silicate patches	·······		 _		
<b>S</b> 10	common from 175.22-175.37. Minor po as					
	disseminations and thin blebs and lenses					
	elsewhere in interval. Thin (1 mm) 50-75° po				_	
	and biotite-quartz-po veins in lower part of					
	interval. Bd/core angle 82°.			 		
176.00-177.81	Sandstone; fine grained; light to medium grey.					
	15-40 cm beds, massive with some graded tops.					
	30% medium grey argillaceous siltstone intervals					
	to 10 cm. Minor po disseminated through most			 		
	of sandstone and siltstone. 2-10% po in massive			 		
	sandstone from 176.19-176.58 and from 177.65-					
	177.81 m where it is associated with biotite					
	in irregular patches to 15 cm, in small (1-2					
	mm) blebs and spots, and in thin discordant					
	stringers.					

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Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
177.81-178.75	Siltstone/ argillaceous siltstone; light to medium						
	grey. 1-20 mm beds, may be planar or somewhat						
	lenticular. Light grey feldspar and muscovite						
	porphyroblasts in 12 mm bed near base of interval.						
	Weak slaty cleavage at 55% core angle. 1-6 mm						
	concordant lenses and layers of 20-60% po (±py?)						
	at twelve places within interval, typically in		-				
	biotite-rich horizons. Rare very thin po veins						-
	at variable, generally low, core angle. Minor				<del></del>		
	disseminated po elsewhere in interval. Bd/core						
	angle 83°.	· · · · · · · · · · · · · · · · · · ·					
178.75-184.62	Sandstone; fine to very fine grained, medium (to	178.98-1	79.06	93 ppm	7 ppm	92 ppm	0.2 pp
	light) grey, argillaceous. Beds 5-40(+?) cm,						
	often graded. 20% medium to dark grey thinly	, · · · · · · · ·					1
	bedded siltstone to silty argillite; mostly in						
	2-8 cm intervals but one 62 cm siltstone interval		· · · · · · · · · · · · · · · · · · ·				
	from 181.03-181.65 m. Light greenish-grey very		· · · · · · · · · · · · · · · · · · ·				
	fine grained siliceous rock from 182.63-182.79			· · ·			
	m; rusty, but no visible sulphides. Po disseminated						
	through most of sandstone and siltstone and	<u></u>					
	concentrated (2-20%) in numerous garnet-biotite-						+

# DIAMOND PALL RECORD

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	quartz concretions (to 4 cm) in sandstone, at						
	bases of some sandstone beds, and rarely in thin						
	biotite-rich laminae in siltstone. Bd/core angle						
	82°						
184.62-193.70	Siltstone/argillaceous siltstone/rare silty argillite	192.00-1	2.10	47 ppm	1 ppm	61 ppm	0.1 p
	light to dark grey. Beds 1-20 cm, mainly lenticular						
	and of non-uniform thickness, but in places planar.						
	Grading (dark up to light grey), load casts,						
	flames, scouring, fairly common; rare cross lamination	IS.					
	from 192.70-192.96m; faint pinstripe laminations						
	from 186.17-186.24 m. 30% fine grained, light						
· · · · · · · · · · · · · · · · · · ·	to medium grey sandstone; beds 1-36 cm, commonly						
- · · · · · · · · · · · · · · · · · · ·	graded, rare channelling at bases. 19 cm quartz-						
	chlorite-(+hornblende?)-biotite-garnet-calcite						
	concretion within 36 cm sandstone bed in central						
	part of interval. Po as minor disseminations						
	through most of sandstone and often as 1-10%						
	concentrations within biotite-garnet concretions						
	(1-4 cm) and at bases of some sandstone beds.						
	Po less common in siltstone as minor disseminations	L					
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# DIAMOND F JILL RECORD

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Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Coliar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	and rare thin (1-3 mm) lenses, layers and blebs.						
	1-2% po within the pinstriped siltstone. Bd/core						
	angle 82°.						
193.70-197.21	Sandstone; fine grained, garnetiferous, medium						
	to light grey. Beds mainly 10-40 cm (+?), massive.						_
	Abundant greenish hornblende-biotite-garnet concretion	ns					
	with light grey gnartzose rims. 20% medium to						
	dark grey thinly banded argillaceous siltstone						
	intervals to 15 cm. Flames/load casts at bases				_		
	of both sandstone and siltstone beds. Minor						
	po within cores of some concretions and disseminated				·		
	through sandstone adjacent to concretions. Bd/core						
	angle 82°.						
197.21-198.34	Argillaceous siltstone; medium to dark grey. Beds						
	2-50 mm, often graded from dark bases to lighter						
	grey tops; rare flames/load casts. Beds may be						
	planar or lensey. 40% fine to very fine grained						
	medium grey sandstone in beds 5 mm-11 cm; grading/						
	flame structures common. Minor po as disseminations						
	and thin lensey patches in sandstone. Bd/core						
	angle 82-84°.						

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Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
198.34-200.16 Sandstone; fine grained, medium grey, argillaceous,							
·	garnetiferous. Massive, thick beds to 60 cm.				-		
	10% thinly banded medium grey argillaceous				1		-
i	siltstone. Minor po disseminated through rare						1
	garnet-biotite-quartz concretions and in vague						
	patches containing garnet porphyroblasts.					-	
00.16-201.43	Argillaceous siltstone; light to dark grey. Beds						-
	3-55 mm (mainly 3-12 mm), mainly planar, but in						1.
	places irregular and contorted. Some grading,	····					1
generally from dark bases to lighter tops, but	generally from dark bases to lighter tops, but						
	rarely get very thin dark grey biotite-rich base						1
	passing abruptly up into lightish-grey siltstone						
	which then grades into darker grey argillaceous						-
	siltstone top. 25% very fine grained sandstone						
	in 0.5-8 cm graded beds. Minor po disseminated				1		
	through lower part of some sandstone beds, and						
	as 5-10% concentration in one 5 cm biotite-rich						
	sandstone bed. 1-2% po within vaguely pinstriped						
	and banded siltstone from 201.30-201.36 m. Minor						
	po within 20-30° 2 mm quartz vein. Bd/core angle						
	80°.					1	1

### DIAMOND F JILL RECORD

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Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
201.43-202.06	Sandstone; fine grained, medium grey, garnetiferous.	201.93-20	2.00	75 ppm	8 ppm	73 ppm	0.1 pp
	Massive beds, 6-50 cm, with thin argillaceous						
	siltstone tops. Rare garnet-biotite-quartz						
	concretions. Very small brownish specs disseminated						
	from 201.93- 202.00 (biotite?). Bd/core angle						
	86°.						
202.06-202.60	Sandstone; very fine grained, argillaceous. Massive						
	beds 3-10 cm. 40% thinly banded medium to dark						
	grey argillaceous siltstone. Load casts/rip ups						
	at both sandstone and siltstone bases. Bd/core						
	angle 86°.						
202,60-203.34	Ground core, 32 cm lost. Medium brownish-grey						
	sandstone with very minor dark grey silty argillite.						
203.34-205.42	Argillaceous siltstone; medium to dark grey.						
	Planar beds 1 mm- 5 cm. 25% fine grained						
	sandstone in 1-10 cm beds, often graded.						
	Contorted lenses and layers of siltstone, within						
	sandstone matrix from 204.50-205.07 m (slump?).						
	Minor po within thin biotite-rich laminae in						
	siltstone and as rare patches (to 1 cm) in						·· ·
	sandstone. Bd/core angle 81°.						

# DIAMOND PTILL RECORD

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Hole NoSheet No370f7	7 Lat	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collor	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
205.42-206.15	Sandstone; fine to very fine grained, argillaceous,						_
	garnetiferous, medium grey. Beds 4-25 cm, commonly						
	graded with thinly banded silty argillite tops.						
	Rare greenish patches of very fine grained po						
· · · · · · · · · · · · · · · · · · ·	to 3 cm. Bd/core angle 85°.						
206.15-206.90	Argillaceous siltstone; medium to dark grey.						
	2-8 mm laminae; lenticular to rarely planar. 20%						
· · · · · · · · · · · · · · · · · · ·	argillaceous sandstone in 2-5 cm beds. 8 x 25						
	mm elliptical, well rounded siltstone chip in						
	one sandstone bed. Rare greenish po-rich patches,						
· · · · · · · · · · · · · · · · · · ·	to 1 cm, within siltstone. Bd/core angle 82°.						
206.90-209.09	Sandstone; fine grained, in part argillaceous,						
	medium grey. Beds 5-25 cm, some graded. 25%						
	medium to dark grey thinly bedded/laminated						
	siltstone intervals to 15 cm. Rare greenish po-						
	rich patches, to 2 cm, within sandstone. 2% po						
	in 3 cm garnet-biotite-quartz concretion. 46						
	cm of missing core from lower part of interval.						
	Bd/core angle 83°.						
209.09-210.92	Ground core, 1.33 m lost. Mainly fine grained						
	medium grey massive sandstone. 9 cm of medium						

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Hole NoSheet No	Lat	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Dote Finished	Elev. Collar	Core Size

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	grey laminated siltstone in lower portion.		,				
210.92-213.97	Sandstone; fine grained, argillaceous, medium						
	grey. Massive beds 3-25 cm. 40% medium to dark						<u> </u>
	grey thinly bedded/laminated argillaceous siltstone				ļ		
	intervals to 15 cm. 5-10% po in 7 cm garnet-						
	biotite-guartz concretion in sandstone near base.						_
	Minor po in vague biotite-rich patches in sandstone.						
	Minor po disseminated in siltstone and as 5-10%						
· · · · · · · · · · · · · · · · · · ·	concentrations in rare 1-6 mm laminae and lenses.						
· · · · · · · · · · · · · · · · · · ·	Bd/core angle 82°.						
213.97-216.21	Siltstone/argillaceous siltstone; medium to dark						
	grey. Most as distinctly planar to lenticular						
	laminated intervals 1.5 to 16 cm thick; less						
	common as beds, to 4.5 cm, with only vague internal						
	laminations. 50% medium grey fine to very fine						
	grained sandstone in 3-15 cm massive or graded						ļ
	beds. Samll (1-4 mm) greenish patches containing						
	very fine grained po found in sandstone throughout						
	interval, becoming more common towards base. Rare						ļ
	po-rich lenses and laminae, to 5 mm, within siltstone.						
	Bd/core angle 82°.						

HOLE No. MM84-1

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Hole No	'Lat	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
		216.24-21	7 42	<u> &lt; 0 01%</u>	<0.01%	0.01%	10.3
216.21-217.56	Argillaceous siltstone; medium to dark grey.	210.24-23	/ • 42	~0.01%	20.01/0	0.01/0	<b>1</b> .0.3
	Vague po-biotite pinstripe laminations. Po also						<u> </u>
	found in small greenish patches throughout interval						<u> </u>
	and concentrated in rare thin laminae to 3 mm.						
	Interval averages almost 10% po. Bd/core angle						
	84°.						
217.56-223.85	Sandstone; fine (rarely medium) grained, light						
	to medium grey. Beds 30-60 cm; massive, often						
	with graded tops. 10% light to dark grey siltstone						
	to silty argillite, typically as laminated intervals						
	to 20 cm thick. 3 cm+ quartz vein at 0° core						
	angle from 220.00-220.93 m, contains minor biotite,						
	and small chalky feldspar grains in places along						
	margin. Rusty hairline fractures at various						
·····	angles throughout interval, and at persistent						
	30° core angle from 222.35-222.80 m. Very minor						
	po in small (to 5 mm) greenish patches in a couple						
	sandstone beds. Bd/core angle 85°.						
223.85-233.62	Sandstone/argillaceous sandstone; fine to very						F.,
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Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collor	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Рb	Zn	Ag
	fine grained, garnetiferous, medium (rarely light)						
	grey. Beds 15-40 cm, but generally not distinct.						
	40% thinly banded medium to light grey siltstone						
	to silty argillite intervals to 50 cm. Rare	1					
	lightish grey argillite beds, to 6 cm, containing			······			
	feldspar and biotite porphyroblasts. Rare garnet-						
	biotite- quartz concretions with up to 5% disseminat	ed					
	po. Very minor po elsewhere as small greenish						
	po-rich patches and as thin blebs and lenses						
	within siltstone. Bd/core angle 84°.						
233.62-234.76	Argillaceous siltstone; medium grey. Upper 52	233.62-23	34.76	<0.01%	<0.01%	0.01%	<0.3
	cm contains vague pinstripe laminations and rare						
	laminae, 1-3 mm, of light grey siltstone. Lower						
	portion comprises thin bands, in alternating						
	shades of medium to dark grey, which gradually						<u> </u>
	become more distinct towards base of interval.						
	Rare thin beds of medium grey, very fine grained						
	argillaceous sandstone; some beds grade upwards						
	into overlying siltstone. 1-3% po disseminated						
	through siltstone. Po also concentrated in rare						
	1-6 mm lenses and laminae within siltstone and						

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Hole NoSheet No. 41 of 77	, Lot	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collor	Core Size

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE			
	in rare intervals, to 2 cm, containing greensih			. <u></u> .		
	po-rich patches in siltstone and sandstone. Bd/core					
	angle 83°.					
234.76-241.40	Sandstone; fine to very fine grained, in part				 	
	argillaceous, medium grey. Beds 4-40 cm (mainly					
	20-30 cm), massive. 35% thinly bedded/laminated					
· · · · · · · · · · · · · · · · · · ·	siltstone to silty argillite. Rare garnet-biotite-			·	 	
	quartz concretions in sandstone with minor po.					
	Minor po disseminated in siltstone. Green chloritic				 	
	stringers at 20-25° core angle at base of sandstone					
	bed from 236.28-236.40 m; 3% po in small garnet-					
	chlorite-biotite-quartz concretion(?) in this					
	bed. Bd/core angle 82°.					
241.40-244.50	Argillaceous siltstone; medium grey. Thin, 2-					
	10 mm bands, generally planar; minor massive					
	intervals to 6 cm, and rare pinstripe laminated					
·	siltstone. 40% medium grey fine to very fine					
	grained sandstone and argillaceous sandstone;				 	
	beds 2-15 cm, some graded, some include contorted	L			 	
	lenses and chips of siltstone. Po disseminated					
	through pinstriped siltstone and rarely as 1-					

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Bearing	Claim
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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	2 mm lenses and laminae elsewhere. Rare greenish						
	patches of intergrown po-silicates, 1 to 2 cm,						
	within siltstone and sandstone. Bd/core angle				<u> </u>		<u> </u>
	82°.						-
244.50-244.92	Sandstone; fine grained, light to medium grey.	244.50-24	5.47	< 0.01%	<0.01%	0.01%	<0.3 g
	Massive (rarely graded?) beds, 8-18 cm, Minor						
	medium grey argillaceous siltstone. Abundant				ļ		
	po in fine grained greenish po-silicate patches.					0.01%	
244.92-247.70	Argillaceous siltstone; medium grey. Poorly	246.48-24	7.63	0.01%	0.01%	0.01%	<0.3 ç
	defined 1-17 cm beds, with rare distinct thinly	· · · ·	* <u>************************</u>				
	banded intervals to 12 cm. 20% fine grained light		·				
	to dark grey sandstone in 2-6 cm beds. Abundant						
	po intergrown with silicate minerals in irregular		·····				
	greensih patches. Bd/core angle 86°.						ļ
247.70-249.13	Sandstone: fine grained, light grey. Beds 3-		·				
	35 cm; massive (rarely graded), with thin						4
	partings and interbeds of argillaceous siltstone.						
·	Upper 8 cm contains po in greenish patches as						
	in overlying interval. Core badly broken along	-					
	05° rusty fractures in central part, and is crushed				<b>_</b>		 
, i i i i i i i i i i i i i i i i i i i	and crumbled over lower 20 cm. Rusty hairline						

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Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collor	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	fractures and rusted out specs common throughout						
	interval.						
249.13-251.02	Argillaceous siltstone/silty argillite; medium			·····			
· · · · · · · · · · · · · · · · · · ·	grey. Planar, well defined beds or laminae 2-						
	50 mm (mainly 2-10 mm); rare graded beds. Roundish						
	white feldspar porphyroblasts common in 25% of						
	beds. Fine pinstripe laminations in some thicker						
	beds which also contain thin white siltstone laminae.						
	5% light grey sandstone in 5-35 mm beds. Rare						
	greenish po-rich patches in sandstone, and minor						
·	po disseminated in rare siltstone beds. Bd/core						
	angle 87°.				1		
251.02-254.50	Sandstone; fine grained, garnetiferous, light	**************************************					1
	grey. Beds 8-30 cm; massive, some with graded						
	tops. 25% light grey silty argillite (with feldspar						
	porphyroblasts) and medium grey thinly bedded						
	argillaceous siltstone. Rusty hairline fractures						T
	at variable angles, and small rusted out spots						
	common. Closely spaced, rusty, 0° fractures in						
	central part of interval; fairly soft clear grey						
	mineral with radiating sheaf-like habit on fracture						1

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Hole NoSheet No. 44 Of 77	Lot	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	surface at 252.40 m ( a zeolite ??). Bd/core angle					-	1
	86°.				1		
254.50-261.91	Sandstone; fine grained, in part argillaceous						
	and garnetiferous, medium to light grey. Beds						
	0.5-40 cm; commonly graded at tops, flames and			:			1
	scours at bases. 40% medium/light grey argillaceous						
	siltstone/silty argillite to argillite as distinct						1
······································	planar beds, 1-12 mm, over intervals up to 90			<u></u>	1		
	cm; commonly graded from dark bases to light grey						1
	tops with feldspar porphyroblasts. 5-10% po found						
· · · · · · · · · · · · · · · · · · ·	in five concretions, to 2 cm, within sandstone.					İ	+
	Minor po disseminated elsewhere in garnetiferous			*****			
	sandstone, at bases of some sandstone beds, and						<u>}</u>
	as concordant lenses within siltstone. Bd/core			•••· <del>.</del>			
	angle 87°.			<del></del>			
261.91-265.92	Argillaceous siltstone; hard ( hornfelsic appearance),	262.11-26	3.20	< 0.01%	<0.01%	0.01%<	Ю.З п.
	grey. Contains vague pinstripe laminations, and	264.55-26			< 0.01%		-
	2-20 mm beds of lighter grey very fine grained			01010		0.01/0	97 
	quartzite spaced 2-20 cm apart; lower 30 cm is					,,,,,,,,	
	vaguely thinly banded argillaceous siltstone/lighter						· · · · · ·
	grey silty argillite. 2-3 mm beds of light grey						

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Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Рb	Zn	Ag
	argillite with feldspar porphyroblasts comprise				_		
	10% of lower 80 cm, in places argillite grades				-		
	into underlying siltstone. 1% po disseminated				····		
	throughout the siltstone; 2-5%(rarely 20%) po						-
	as blebs and disseminations within the thin quartzite						
	beds, and in thin siltstone lenses over lower						
	30 cm. Bd/core angle 87°.						
265.92-275.28	Sandstone; fine grained, in part garnetiferous,						
	light grey. Beds 1-40 cm (mainly 5-20 cm), massive						-
	or graded (thicker beds generally massive with						
	only upper portion graded). Flames and channels						
	at sandstone bases. 35% medium to light grey						
	argillaceous siltstone to argillite, mainly as						
	thin (2-8 mm) graded beds over intervals to 15						
	cm. Feldspar porphyroblasts within light grey			•			1
	argillite. Minor pinstripe laminated siltstone						
	intervals to 8 cm. Minor po disseminated through						
	garnetiferous sandstone and pinstriped siltstone,						
	in rare greenish patches in sandstone, and as			·			
	rare 1-5 mm blebs and lenses in siltstone. Bd/core						
	angle 86°.						

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Hole NoSheet No. 46 0.6 77	<sup>7</sup> Lot	Total Depth
Section	Dep	Logged By
Date Begun		
Date Finished	Elev. Collor	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
275.28-279.43	Sandstone; fine (rarely medium) grained, light					· · · · · · · · · · · · · · · · · · ·	
	grey. Massive thick beds to 60 cm (+?); bedding						
	contacts not distinct. Very minor darker grey,					·	_
	finer grained argillaceous sandstone; 4 cm horizon						
	of silty argillite near base. Rock broken along	1					
	rusty, 0-15° fractures throughout most of interval.		~				
	Po coats some fractures surfaces and also occurs						
	as patchy disseminations in sandstone mainly in						
	upper and lower 50 and 45 cm respectively.						
279.43-280.90	Argillaceous siltstone; medium grey. Lensey laminae,						
	2-15 mm, in upper and lower portions; from 280.17-			···.			
	280.70 m comprises a few poorly defined, vaguely						
	laminated intervals grading to very fine argillaceous						
	sandstone at their bases. Light grey fine grained				-		
	sandstone bed from 280.08-280.13 m. Minor po						
	as disseminations and small greenish patches over					-	1
	15% of interval. Bd/core angle 86°.						
280.90-281.22	Sandstone; fine grained, medium grey. Three massive						-
	beds, 9-13 cm. 1-2% po in small greenish patches						
	over upper 8 cm.						-
281.22-283.18	Argillaceous siltstone; medium grey. 2-12 mm planar						

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Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	to lenticular bands; minor non-banded pinstripe						
	laminated siltstone intervals to 10 cm. 25-30%						
	light grey very fine grained argillaceous sandstone						
	in 2-30 mm beds which increase in abundance and		·····				
	thickness towards base of interval. 3 cm garnet-						
	biotite-quartz concretion containing 5% po within						
	siltstone near top. Minor po as disseminations						
	and blebs in siltstone. 1-5% po in small greenish						
	patches within most sandstone beds. Bd/core angle						
	90°.						
283.18-285.62	Sandstone; fine grained, in part garnetiferous,						
	medium to light grey; 3-35 cm beds. 30% medium						
	grey argillaceous siltstone (rare argilllite) as						
	thinly banded intervals to 20 cm. Very minor po						
	disseminated in garnetiferous sandstone and in						
	some siltstone bands. Bd/core angle 85°.						
285.62-290.82	Sandstone; fine (rarely medium) grained, in part						
	garnetiferous, light grey. Massive, beds 30-80						
	cm. Rare garnet-biotite rich concretions. 5%						
···-	light greenish grey silty argillite with biotite						
	(and/or chlorite?) and feldspar porphyroblasts						

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Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	as laminated intervals 1-2 cm (rarely to 23 cm)						
	thick. Light greenish-grey lenses, to 5 mm, of						
	almost pure quartz intercalated with argillite						
······································	in one interval. Trace po as disseminations and						
	in rare small greenish patches. Bd/core angle						
	<b>8</b> 5°.						
290.82-292.44	Argillaceous siltstone; medium grey. 2-10 mm laminae						
	with 10% interlaminated light grey argillite containing						
	biotite and feldspar(?) porphyroblasts; argillite						
	laminae to 5 mm, in places grade into underlying						
· · · · · · · · · · · · · · · · · · ·	siltstone. Minor very fine grained sandstone in						
	beds to 5 cm. Trace po as disseminations and rare						
	small (1-3 mm) patches. Bd/core angle 89°.						
292.44-296.27	Sandstone; fine grained, light grey. Massive,						
	beds mainly 30-70 cm. 5% medium to light grey						
	thinly bedded/laminated argillaceous siltstone						
	to argillite (with biotite porphyroblasts). Very						
	minor po in patches scattered through sandstone.						
	1 mm quartz-py vein at very low core angle near					_	
	top of interval. Bd/core angle 88°.						
296.27-297.40	Sandstone; fine grained, medium to light grey;						

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Date Begun	Bearing	Cloim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	OF SAMPLE	Cu	Pb	Zn	Ag
	beds 3-10 cm. 45% greenish-grey silty argillite						
	(minor argillaceous siltstone) in massive or thinly						
	bedded/laminated intervals to 15 cm (mainly 2-						
	3 cm). Small biotite porphyroblasts in argillite.						
	Flames/load casts at sandstone/argillite contacts.						
	Very minor po disseminated in argillaceous siltstone						
	and in rare greenish patches in sandstone. Bd/core						
	angle 88°.						
297.40-300.49	Zone of broken up and partially ground core. Medium		`			•••	
	grey argillaceous siltstone, and very fine grained						
	argillaceous sandstone in beds to at least 15 cm.						<u>+</u>
	Rare 2-5 mm beds of light greenish-grey argillite						
	within siltstone. Rusty 40° fractures, some with	-					
	po coating, in centre of interval. Very minor						
	po as patches and disseminations.						
300.49-301.00	Sandstone; fine grained, argillaceous, medium grey.						
	Massive, single bed(?). 05-20° quartz-chlorite						
	veins, ≤1 mm, at base.						
301.00-301.75	Argillaceous siltstone; medium to light grey. 2-	301.20-30	1.30	58 ppm	8 ppm	76 ppm	0.1 pp
	15 mm planar laminae with some thin very fine grained						
	sandstone beds. Rare cross laminations in light						
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Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	grey siltstone to sandstone beds. 20 cm of						
	pinstripe laminated siltstone at top. 1-2% po						
	within pinstriped siltstone. Po occurs elsewhere						
	as thin lenses and blebs mainly within thin						
	sandstone beds. Bd/core angle 89°.						
301.75-308.01	Sandstone; fine grained, in part garnetiferous,	306.78-30	6.86	37 ppm	11 ppm	133 ppm	0.1 pp
	light to medium grey. Massive beds, 6-70 cm						
	(mainly 20-40 cm). 15% thinly bedded argillaceous						
	siltstone to argillite intervals, 2-15 cm. Small				···		
	biotite porphyroblasts in argillite. 20-30% of						
	the sandstone contains 1% po as disseminated						
· · · · · · · · · · · · · · · · · · ·	grains and small patches. Bd/core angle 89°.						
308.01-308.80	Sandstone; very fine grained, argillaceous, medium						
	grey. Beds 3-6 cm. 30% light to medium grey						
	argillite (with biotite porphyroblasts) to						
	argillaceous siltstone in laminated intervals						
	1 to 8 cm thick. Rare po blebs, 1-4 mm, in						
	sandstone. Bd/core angle 87°,						
308.80-315.64	Sandstone; fine grained, in part garnetiferous,						
	medium grey. Beds 6-75 cm; massive with graded						
	tops. 25% thin bedded medium grey argillaceous						

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Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	РЬ	Zn	Ag
	siltstone/light greenish-grey silty argillite						
19 <u>19</u> , 2, 200	(with biotite porphyroblasts) intervals to 40						
	cm. Minor scouring at sandstone/siltstone contacts.						
	Minor po as disseminations and patches within						
	sandstone. Rarely 2-5% po over thin (to 5 mm)						
	intervals at base of sandstone beds. Rare 1-						
····	2 mm po veins at 5-12° core angle. Bd/core angle						
	89°.						
315.64-319.54	Sandstone: fine grained, in part argillaceous,						
· · · · · · · · · · · · · · · · · · ·	medium grey. Massive beds 3-16 cm. 40% medium						
	to light grey argillaceous siltstone to argillite,						
	mainly as thinly bedded or laminated intervals						
· · · · · · · · · · · · · · · · · · ·	to 30 cm, rarely as pinstripe laminated intervals						
	to 10 cm with rare thin light grey siltstone						
	laminae. Rare contorted banding and thin lenses						
	or clasts of argillite within darker siltstone.						
	Substantial po through interval, increasing towards						
	base. Po occurs as disseminations, and thin						
	lenses and laminae within siltstone, as patchy						
	disseminations in sandstone, and in thin (≤1 mm)						
	veins, generally at low to moderate core angles,						

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Dep	Logged By
Bearing	Claim
Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	РЬ	Zn	Ag
	where it is generally associated with biotite.						
	From 318.10-381.20 are 65° contraction faults,						1
	with up to 6 mm offset, within distinctly banded						
	siltstone; po + biotite fill some of these faults.						
	Bd/core angle 84°.	1					
319.54-320.26	Siltstone; medium grey, garnetiferous. Massive,	319.52-32	0.25	< 0.01%	< 0.01%	0.02%	<0.3g/
	very hard, 2% disseminated po throughout. 4 cm						
· · · · · ·	light greenish-grey argillite horizon with small						
	biotite porphyroblasts near top, includes discordant	1					
	"patch"(?) (only exposed along edge of core) with						
	garnet and muscovite prophyroblasts. 3.5 cm						
	greensih siliceous band at 319.93 m with biotite						
· · · · · · · · · · · · · · · · · · ·	and garnet porphyroblasts. 2 cm lense of relatively						
	coarse grained garnet-biotite rich rock with 25%						
	po at 319.99 m.					••••••••••••••••••••••••••••••••••••••	
320.26-321.01	Quartz vein containing abundant pyrrhotite-sphalerite-	320.41-32	0.57	0.06%	8.82%	3.34%	261.4g
	galena and trace chalcopyrite. In contact with						
	hard siltstone (as above) over upper 15 cm and						
	with medium grey massive sandstone (as in underlying						
, , , , , , , , , , , , , , , , , , ,	interval) over lower 37 cm; sandstone adjacent						
·····	to vein has 5-20 mm alteration zone of greenish			<u> </u>		· · · ·	

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Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	siliceous rock and thin po stringers parallel						
	to vein contact. Contact at 20° core angle at						
	top and 07° angle over lower 35 cm. Vein is			din - k1			
· · · · ·	medium grained crystalline quartz with 40%						
	sluphide minerals as large (to 5 cm) irregularly						
	shaped patches, and minor amounts of chlorite						
	and biotite(?). Sulphides mainly po, along with						
	approximately 30%(?) sphalerite and 8% galena;						
·	trace cpy within the po.						
321.01-322.60	Sandstone; fine grained, medium grey. Beds 5-						
	35 cm, massive or graded. Minor light greenish-						
	grey silty argillite with biotite ± garnet						
	porphyroblasts. Rare greensih siliceous patches						
	in upper 40 cm similar to alteration zone along				· ·		
	vein contact in overlying interval. Bd/core angle						
	88°.						
322.60-323.57	Ground core; 0.53 m lost. Mainly fine grained						
	light grey massive sandstone, with very minor						
	greenish-grey silty argillite.						
323.57-325.81	Sandstone; very fine grained, medium grey. Beds						
	5-15 cm, massive or graded. 40% light greenish-						

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Date Finished	Elev. Collar	Core Size

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	grey silty argillite (with biotite porphyroblasts)						
	as massive to vaguely laminated intervals to						
	6 cm. Trace po disseminated in sandstone. Bd/core						
	angle 86°.						
325.81-328.17	Argillaceous siltstone; medium grey. Upper	325.81-3	26.74	< 0.01%	< 0.01%	0.01%	< 0.03
	70 cm indistinctly banded (5-30 mm) with pinstripe						
	laminations and rare dark grey biotite-rich laminae						
	(≤1 mm). Lower portion is more massive, occasionally						
	garnetiferous, and contains minor 5-20 mm light						
	greenish-grey bands of silty argillite with small						<u> </u>
· · · · · · · · · · · · · · · · · · ·	biotite porphyroblasts, and very rare 2-4 mm laminae						
	of light grey argillite crowded with small feldspar						
	porphyroblasts. Po occurs as disseminations and						
· · · · · · · · · · · · · · · · · · ·	thin lenses and laminae, mainly within upper pinstripe	d					
	interval. Bd/core angle 84°.						
328.17-330.78	Argillaceous siltstone; medium grey. Either banded					1	
	(3-25 mm beds) or as non-banded intervals to 15						
	cm. Vague pinstripe laminations common. Rare						
	beds, to 1 cm, of lightish grey argillite with						
	small biotite porphyroblasts. 40% light to medium						
	grey, fine to very fine grained sandstone ( in						:

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Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	part argillaceous) in 2-20 cm beds. 1-2% po disseminate	d					
	through most of siltstone; higher concentrations						
	in a few biotite-rich lenses and laminae. Minor						
	po disseminated in sandstone and in thin biotite-						
	rich selvages at base of some sandstone beds.						
<u></u>	10% po in 1 cm fine grained biotite-quartz lense						
	(concretion?) within sandstone bed.						
330,78-337.64	Sandstone; fine grained, garnetiferous, medium						
······································	grey. Beds 25-70 cm; massive with graded tops.						
	Silvery porphyroblastic grains of muscovite (in						
	places intergrown with quartz and/or feldspar?)						
······································	are conspicuous throughout the sandstone - these						
	are not present in sandstone horizons higher in						
	the section. Sandstone contains garnet-biotite						
	rich concretions to 6 cm. 35% interbedded or						
	interlaminated medium/light grey siltstone/argillite						
	intervals to 60 cm; occasional graded beds and						
	laminae. Po commonly associated with biotite						
	as thin blebs and stringers in siltstone. Minor						
	po disseminated through some sandstone and siltstone						
	beds, and in concretions in sandstone. Thin $50^\circ$						

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Date Begun	Bearing	Claim
Date Finished		Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Aq
·	po stringers over 2 cm near top of interval.			<u> </u>			
	Bd/core angle 85°.						
337.64-338.82	Siltstone/argillaceous siltstone; light to dark					······································	
	grey. Minor light greenish-grey argillite with						
	biotite porphyroblasts. Distinct planar 5-20						
	mm beds over upper 60 cm become thin (mainly						
	3-5 mm), irregular, and lenticular in bottom part						
	of interval. Grading/flames/load casts/channels						
	are common in lower part of interval. Minor po						
	as thin blebs and disseminations within 1-2 mm						
	biotite-rich laminae within siltstone. Bd/core						
	angle 85-89°.		-				
338.82-355.20	Sandstone; fine grained, medium to light grey.						
	Garnet and silvery muscovite porphyroblasts common.			<u>.</u>			
	Beds 30-50 cm; massive with graded tops. Some						
	graded sandstone/vaguely laminated siltstone/argillite						
, 	sequences may be A-B-E turbidites. 40% medium						
	grey argillaceous siltstone intervals (5-75 cm)						
	containing laminae and thin beds of light greenish-						
	grey argillite with biotite and feldspar						
	porphyroblasts. Siltstone is thinly bedded or						

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	РЬ	Zn	Ag
	laminated; mainly planar but occasionally lenticular						
	and wedge-like with rare channels and cross						
	laminations. Single 2 x 10 mm cream coloured						
	argillite clast within siltstone at 347.47 m.					•	
	Minor po as patchy disseminations within siltstone						
	and sandstone, thin blebs and lenses in siltstone,						
	and as 1-5 % disseminations within some concretions						
	in sandstone. Bd/core angle 83°.						
355.20-356.01	Fault zone; badly broken and rusted core. Medium						
	grey argillaceous siltstone; slickensided surfaces						
	and thin seams of light grey clay gouge in upper			· · ·			
	part of interval. Minor po. One slickensided						
,	surface at 37° core angle, another, with clay						
	gouge, at 70° core angle.						
356.01-356.60	More coherent, but badly fractured, medium to						
	dark grey argillaceous siltstone. Rusty fractures						
	mainly at 10-30° core angle.						
356.60-357.23	Broken and fractured core; medium grey fine grained	-					
	massive sandstone. No bedding contacts evident.						
······································	Fractures at 0-10° core angle with rusty coatings.						
357.23-361.00	Core broken and cut by rusty factures; medium		····				

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Date Begun	Bearing	Claim
Date Finished	Elev. Collor	Core Size

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	РЬ	Zn	Ag
	to dark grey argillaceous siltstone. Pinstripe						
	laminations evident in places; elsewhere contains						
	vague 5-20 mm banding. Garnet porphyroblasts	······································					
	from 359.66-359.89 m. Trace to 1% po found						
	mainly in pinstriped siltstone. Broken zones						
	and rusty fractures at 0-30° angle common						
	throughout interval.						
361.00-361.55	Argillaceous siltstone; medium grey. Minor amounts						
	of light grey silty argillite with small biotite						
	porphyroblasts. Beds 0.5 to 9 cm (mainly 0.5						
	to 4 cm). Thicker beds may grade to very fine						
	grained sandstone at base, and are even sided						
	and massive or faintly pinstriped. Thin beds						
	display slightly uneven, ragged contacts. 1-						
	5% po disseminated through 15% of siltstone,						
-	mainly in relatively darker beds. Bd/core angle						
-	84°.						
361.55-363.43	Sandstone; fine grained, in part argillaceous,	362.32-362	.36	450 ppm	3 ppm	54 ppm	0.2 p
	garnetiferous, medium grey. Rare garnet-biotite-						
	quartz concretions. Beds 15-40 cm, massive.						
	15% light to medium grey silty argillite and				· · ·	-	

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	argillite containing biotite and feldspar						
	porphyroblasts. 3 cm biotite-quartz concretion						
	in argillite contains substantial po. Minor						
······································	po elsewhere as small patches in argillite and						
	rare disseminations in sandstone. Two thin (4						
	mm) greenish siliceous bands in centre of interval						
	represent silicification adjacent to hairline						
	fractures at 40° core angle. Bd/core angle 84°.						
363.43-364.08	Sandstone; fine to very fine grained, in part						
	argillaceous, medium grey. Graded beds, 1.5						
	to 10 cm. Rare load casts, scours. 40% thinly						
	bedded to laminated medium grey argillaceous						
	siltstone/ light grey argillite. Some graded						
	beds. Biotite± feldspar porphyroblasts common						
	in argillite. Very minor po as disseminations		······				
	and blebs. Bd/core angle 86°.						
364.08-366.06	Sandstone; fine grained, garnetiferous, medium						
	grey. Massive beds, 20-30 cm. Minor light to		iii iii				
	medium greenish-grey silty argillite. Greenish						
	to rusty hairline fractures at variable (mainly		,				
	low) core angle throughout interval; greenish						-

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Hole NoSheet No. 60 of 77	Lat	Total Depth
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Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	altered zone from 365.70-365.81 m containing						
	numerous rusty hairline fractures. Trace						
	disseminated po in very small proportion of						
	sandstone. Bd/core angle 84°.						
366.06-366.37	Badly fractured and broken core. Mainly sandstone						
··· =··· - · · · · · · · · · · · · · · ·	with minor argillaceous siltstone at base. Clay						
	gouge zone (1 cm(?) wide) at 20° core angle at						
	top of interval.						
366.37-367.01	Silty argillite; medium to dark grey. Beds to						
	2 cm. Two 2.5 cm graded very fine grained sandstone						
	beds, and one 10.5 cm graded argillaceous siltstone						
	bed capped by light grey argillite with feldspar						
	porphyroblasts. Core broken with chloritic						
	fault(?) surfaces at top of interval. Bd/core						
	angle 84°.						
367.01-370.18	Sandstone; fine grained, medium grey. Garnet						
	and muscovite porphyroblasts common; rare biotite-						
	garnet-quartz concretions. Beds 25-60 cm, massive.						
	30% dark grey to medium greenish-grey silty argillite;						
	biotite porphyroblasts in lighter coloured beds.						
	Dark grey silty argillite is fractured and broken						

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Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	from 367.73-367.89 m; soft white (zeolite?) mineral						
	coats some slickensided surfaces. Bd/core angle						
	85°.						
370.18-371.54	Sandstone; fine to very fine grained, in part						
	argillaceous or garnetiferous, medium grey. Beds						
	0.5-18 cm, massive or graded. 20% medium grey						
	argillaceous siltstone/light greenish-grey silty						
	argillite (with biotite porphyroblasts). 1-5%						
	po in rare garnet-biotite-quartz concretions,						
	to 2 cm, within sandstone. Minor po elsewhere						
	as disseminated grains or in small very fine						
	grained greenish patches. Bd/core angle 84-88°.						
371.54-375.47	Sandstone; fine grained, garnetiferous, medium	374.80-37	4.90	11 ppm	3 ppm	38 ppm	0.1 p
	grey. Beds 20-40 cm, massive with graded tops						
	and rarely with reverse-graded bases. Rare						
	<pre>muscovite(?)-garnet-biotite-quartz concretions.</pre>						
	10% thinly bedded medium grey argillaceous						
	siltstone/light grey silty argillite (with						
	biotite porphyroblasts) intervals to 26 cm.				T		
and a property of the second s	Abundant 0-20° fractures from 373.54-374.80; most			· · · · · · · · · · · · · · · · · · ·	1		
	are coated with soft white (zeolite?) mineral.						

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Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	Rusted out brownish specs ( $\leq 1$ mm) through much						
	of sandstone - probably biotite and/or po. Bd/core		,				
	angle 87°.						
375.47-381.89	Sandstone; very fine grained, in part argillaceous,						
	medium grey. Garnet porphyroblasts and silvery			<u>.</u>			
	muscovite patches and grains common. Beds 3-						
	35 cm, massive with graded tops. 9 cm garnet-						
	biotite-calcite-quartz concretion near base of						
	interval; contains trace po. 30% thinly bedded						
	to laminated grey and greenish-grey argillite						
	and argillaceous siltstone intervals to 30 cm.						
	Biotite porphyroblasts common in argillite.						
	Sandstone/argillite contacts often distinctly						
	non-planar. 0-20° fractures occur in places;						
	some with polished and slickensided surfaces,	,					
	many coated with soft white (zeolite?) mineral.						
	Small brownish rusted out pits common in much						
	of sandstone - po and/or biotite(?). Bd/core						
	angle 82°.						
381.89-383.06	Argillaceous siltstone; medium to dark grey. Vague						
	streaky laminations, 1-3 mm; rare massive beds			· • i.			

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Date Begun	Bearing	Claim
Date Finished	Elev. Collor	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	to 5 cm. 1-2% disseminated po over 20 cm near						
	base of interval; po (or py?) coats 50° hairline						
	fracture surface within this interval. Bd/core						
	angle 83°.					<b></b>	
383.06-385.71	Sandstone; fine grained, medium grey. Beds 3-						
	30 cm; massive or graded. Garnet porphyroblasts				`	1	1
···· ·	in thicker beds. 5 cm siliceous biotite-garnet						
	concretion in one bed. 50% medium to dark grey					1	
	argillaceous siltstone as in overlying interval.						
	Trace po dissemianted in siltstone and within				1		
	concretion in sandstone. Py coats rusty 20°						1
· · · · · · · · · · · · · · · · · · ·	fracture plane near top of interval. Bd/core						
	angle 80°.						
385.71-385.90	Fault zone; clay gouge and soft chloritic rock.				1		1
	Abrupt contact with adjacent metasediments: Upper					· · · · · · · · · · · · · · · · · · ·	
	contact at 55° core angle; lower contact at 45°						
, , , , , , , , , , , , , , , , , , ,	core angle.						1
385.90-395.69	Siltstone/argillaceous siltstone; medium to dark	386.10-38	7.10	< 0.01%	20.01%	0.01%	<0.3g/
	grey, po-rich. 1-50 mm beds and laminae; mainly	387.80-387	.88	19 ppm	2 ppm	47 ppm	0.1 pp
<u> </u>	planar but some are lenticular. Some graded beds,	389.66-38		30 ppm	1		0.1 pp
	rare cross laminated beds. Massive medium grey	390.56-39	0.66	19 ppm			1

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Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	siltstone from 393-395 m, and rarely elsewhere		91.68	41 ppm	3 ppm	82 ppm	0.1 p
	in interval. 0.5 x 1 cm rounded chip of hard	392.74-3	93.77	<b>CO.01</b> % .	0.01%	<0.01% <	0.3 g
	light grey rock (argillite crowded with feldspar	393.90-3	394.88 <	< 0.01%	< 0.01%	0.01%	0.5 g
porphyroblasts?) within argillaceous siltstone 394.94- at 390.94 m. 15% fine to very fine grained				< 0.01%	< 0.01%	< 0.01% <	0.3 g
	sandstone as 2-35 cm massive beds with garnet				······································		
	porphyroblasts. Sandstone contains garnet-biotite-					1	
	quartz concretions and one green garnet-biotite-						
	hornblende-calcite-quartz concretion. 1-3% po						
	disseminated throughout the massive siltstone;						-
	po (and py?) also as 1-3 mm lenses and laminae,						
	and as 1-5% disseminations in beds to 2 cm within						
	the bedded/laminated siltstone. Minor po						
	disseminated in sandstone and in sandstone	[					
	concretions; rare indistinct biotite-rich				· · · · ·		
	patches, to 3 cm, contain 1-5% po. Po coats a						
few fracture surfaces at moderate to low core							
	angle. Bd/core angle 80°.						
395.69-402.25	Argillaceous siltstone to argillite; medium to	399.14-40	0.23 4	20.01% <	(0.01%	0.01% <	10.3 g/
	dark grey. 1-30 mm beds and laminae; may be distinct						
	or vague, planar or lensey. 35% fine to very fine						

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	grained sandstone similar to that in overlying						
	interval; increases in abundance towards base of						
	interval. Po occurs in same styles as in overlying						
	interval, but is much less abundant; decrease has						
	been gradational over several m. Rusty 20° fractures						
	from 396.60-397.40 m. Bd/core angle 78°.						
402.25-404.28	Quartzite; fine to very fine grained, argillaceous,						
	medium grey. Distinct 1-30 cm massive beds, rarely						
·····	with sparse garnet porphyroblasts. 15% laminated						
	grey argillaceous siltstone/lighter grey silty						
	argillite (with biotite and/or feldspar porphyroblasts)						
	in 1-7 cm intervals. Minor po disseminated through						
	small proportion of quartzite. 0-20° hairline						
	fractures in lower part of interval, some coated						
	with soft white (zeolite?) mineral. Bd/core angle						
	81°.						
404.28-405.52	Argillaceous siltstone/silty argillite; medium/light	404.28-40	95.52	< 0.01%	<0.01%	0.01%	<0.3 g
	grey. Indistinct thin beds and laminae. Biotite						
	and/or feldspar porphyroblasts in some silty argillite						
	beds. 30% medium grey fine to very fine grained						
	argillaceous sandstone as 4-8 cm beds. Sandstone						
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## DIAMOND PRILL RECORD

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#### HOLE No. MM84-1

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Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collor	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	beds all contain 20-30% small (1-5 mm) greenish						
	patches comprised of fine grained po intergrown						
	with silicate minerals. Po also as disseminations						
	and concordant lenses and belbs, to 5 mm, within						
	argillaceous siltstone. Very small disseminated						
	brownish grains (po?, biotite?) in a couple 2-						
	3 mm lenses at 405.30 m. Bd/core angle 82°.			÷			
405.52-408.68	Quartzite; fine grained, argillaceous, medium grey.						
	Beds 4-23 cm, contacts often not distinct. Contains						
	garnet porphyroblasts and rare silvery muscovite						
	porphyroblasts. 35% interlaminated or thinly inter-						
	bedded medium to dark grey argillaceous siltstone/light	er					
· · · · · · · · · · · · · · · · · · ·	grey silty argillite to argillite. Biotite porphyrobla	sts					
	common in argillite. Minor disseminated po in						
	some quartzite and siltstone beds. 0-20° fractures						
	common through interval; some coated with soft						
	white (zeolite?) mineral. Bd/core angle 82°.						
408.68-412.58	Quartzite/argillaceous quartzite; fine grained,			•			
	medium grey. Silvery muscovite grains and patches						
	(intergrown with quartz?) common, along with garnet						
	porphyroblasts. Beds massive, 10-50 cm, but contacts						

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## DIAMOND PHILL RECORD

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HOLE No. MM84-1

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Hole No	7 Lat	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev, Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	РЪ	Zn	Ag
	generally not distinct. 25% argillaceous siltstone/						
	argillite as in overlying interval. Minor po						
	disseminated in quartzite; seems to get more abundant						
	towards base of interval. A few 10-30° fractures						
	coated with dark green chloritic material and sometime	\$					
	with po. Bd/core angle 82°.						
412.58-422.73	Argillaceous siltstone; medium to dark grey, po-	412.58-41	3.59 🗸	0.01%	<0.01%	<0.01%	< 0.39
	rich. Most is massive or vaguely pinstripe laminated.	415.47-41	5.57	41 ppm	4 ppm	70 ppm	0.1 p
	Small proportion is thinly bedded to laminated	417.08-41	8.19 -	0.01%	< 0.01%	0.01%	<0.3
	and is intercalated with very minor proportions	418.51-41	9.51 <	0.01%	< 0.01%	<0.01%	< 0.39
	of lighter grey silty argillite to argillite with	420.16-42	0.30	33 ppm	8 ppm	75 ppm	0.1 p
	biotite ± feldspar porphyroblasts; includes a few	421.74-42	2.81 <	0.01%	<0.01%	<0.01%	< 0.3
	graded argillaceous siltstone to argillite laminae.						
	15% medium grey, very fine grained quartzite (with						
	garnet porphyroblasts) as indistinct massive or						
100 H 1	graded(?) beds to 20 cm. Po occurs as discontinuous						
	blebs defining siltstone laminae; as concentrations						
· · · · · · · · · · · · · · · · · · ·	in 1-5 mm biotite-rich siltstone lenses and laminae,						
	as patches and disseminations in siltstone and						
	sandstone and within garnet-biotite-quartz concretions	,					
	to 14 cm, within both sandstone and siltstone beds.						

## DIAMOND PTILL RECORD

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#### HOLE No. \_\_\_\_MM84-1\_\_\_\_\_

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Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Рb	Zn	Ag
	Po also occurs as coating on fractures at low to						1
	moderate core angle, and as thin stringers and						
	veinlets (with or without biotite) at 0-30° core						
	angle. Zone of fractured rusty rock from 415.60-						
	415.99 m; fractures mainly at 30° core angle.						
	Bd/core angle 77°.						
422.73-428.70	Sandstone; fine grained, medium to light grey.	427.38-42	7.46	26 ppm	5 ppm	18 ppm	0.1 pp
	Distinct 10-55 cm beds; massive with sharp bases						
	and graded tops. 20% medium grey argillaceous						
	siltstone/lighter grey silty argillite as thinly						-
	bedded to laminated intervals to 35 cm(mainly 2-						
	5 cm). 0-10° stringers, veinlets and fracture						
	fillings of white to greenish-white material from						
	424.44 to 425.04 m. The whitish material is in	*****					· · · · ·
	<pre>part calcite but may also include white zeolite(?)</pre>						
	mineral, and includes some biotite, chlorite and						
· · · · · · · · · · · · · · · · · · ·	po. Sandstone in this interval is light pinkish-						
	grey and is slightly calcerous in places. From						
	426.65-427.80 is $10^{\circ}$ quartz-calcite vein (4 cm+						
	thick) containing biotite, garnet, chlorite(?)				, ••••		
	and minor disseminated po; garnet and/or biotite						

## DIAMOND PAILL RECORD

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Hole NoSheet No	7 Lot	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	selvage along much of vein contact. Hairline						<u> </u>
	fractures at low core angle at a few places within						
	interval; most are coated with fibrous white						
	(zeolite?) mineral. Bd/core angle 79°.					<b>r</b> ;	
428.70-436.61	Siltstone to silty argillite; medium to light grey.	431.01-43	1.11	31 ppm	6 ppm	51 ppm	0.1 p
	45% massive to vaguely laminated beds of medium	434.30-43			15 ppm	57 ppm	1
	grey siltstone and argillaceous siltstone to 15						
	cm. Remainder of siltstone is interlaminated or						1
	thinly interbedded with silty argillite to argillite.					· · · · · ·	
	Beds mainly planar and regular (including some						
	thin graded beds and laminae) but in places are						
	lensey and/or contorted, including load casts and						
	flames. 15% fine to very fine grained sandstone		·				
	as 1-20 cm massive beds; load casts and flames						
	at bases of thicker beds. Garnet porphyroblasts				·		
	and garnet-biotite-quartz concretions within some						
	beds. Substantial po throughout interval, mainly						· · ·
	as disseminations within massive to vaguely laminated						
	siltstone. Po also concentrated in 1-4 mm lenses						
	and laminae in well bedded and laminated siltstone/						
	argillite and as minor disseminations within garnet-						

## DIAMOND POILL RECORD

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Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev, Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	biotite-quartz concretions in sandstone. Bd/core						
	angle 81°.				1		
436.61-438.58	Sandstone; fine grained, medium grey. Distinct						
	massive beds, 2-37 cm (but mainly 2-6 cm) with						
	sharp bases and sharp, or rarely graded, tops.						
	Flames, rip-ups, channels at some sandstone bases.						
	30% thinly bedded or laminated argillaceous siltstone/						
	silty argillite intervals to 7 cm. Minor po					1	
	disseminated through all lithologies within interval.						
	1-3 mm quartz-biotite-po vein at 05° core angle						
	over lower 50 cm of interval. Bd/core angle 80°.						
438.58-440.69	Sandstone; fine to very fine grained, in part	438.61-439	.61 4	<0.01%	<0.01%	0.01%	<0.3 g
· · · · · · · · · · · · · · · · · · ·	argillaceous, medium (to dark) grey. Beds 2-20						
	cm; massive or graded. Garnet porphyroblasts in						
	some thicker beds. 40% medium to dark grey argillaceou	s					
	siltstone and (minor) lightish grey argillite in						
	1-30 cm intervals; siltstone/argillite generally		· · · · · · · · · · · · · · · · · · ·				
	in streaky lensey bands, 1-15 mm. 1-2% po disseminated						
	through most sandstone and siltstone. Po heavily						
	disseminated through small proportion of siltstone				· · · · ·		1
	in upper part of interval. Bd/core angle 81°.				1		1

### DIAMOND F JILL RECORD

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Date Begun	Bearing	Claim
Date Finished	Elev. Collor	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
440.69-442.59	Sandstone; fine to very fine grained, argillaceous,						
	garnetiferous, medium grey. Silvery muscovite						
	porphyroblasts and muscovite-rich patches conspicuous						
	in places. Beds mainly 20-25 cm; massive. 5%						
<u></u>	medium greenish-grey silty argillite horizons to						
	3 cm. Minor po disseminated through some of the						
· · · · · · · · · · · · · · · · · · ·	sandstone. 30° hairline fractures and thin calcite-						
	quartz(?)-chlorite-po veins near top of interval.						
	Bd/core angle 80°.						
442.59-443.62	Argillaceous siltstone; medium to dark grey. Thin	442.59-44:	3.61 ·	< 0.01%	×0.01%	<0.01%	<b>∠0.3</b> g
	lenticular beds and laminae intercalated with minor						
	silty argillite. 10% fine to very fine grained						
	sandstone in 1-9 cm massive or graded beds. Minor						
	po disseminated in siltstone and sandstone. Po						
· · · · · · · · · · · · · · · · · · ·	also as 1-3 mm concentrations in siltstone laminae						
	and rarely at bases of sandstone beds. Bd/core						
	angle 81°.				i.		
443.62-445.46	Sandstone; fine grained, in part argillaceous,						
	medium grey. Garnet porphyroblasts and 1-2 mm						
	silvery muscovite-rich patches common. Beds to						
	30 cm; massive. Very few thin lenses of argillite.					1	İ.

### DIAMOND FALL RECORD

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Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
445.46- 450.25	Argillaceous siltstone; medium grey. 1-10 mm streaky	449.21-4			< 0.01%		1
	laminations with minor intercalated argillite.						<u>_</u>
	40% fine to very fine grained sandstone and argillaceous						
	sandstone in 1-20 cm massive beds. Garnet porphyroblast	s					
	and rare garnet-biotite-quartz concretions, to						
	8 cm, within thicker sandstone beds. 1% po disseminate	d					
	through much of siltstone and rarely in sandstone.						
	Rare 5-30% concentrations of po in 1-30 mm siltstone						
	horizons. Bd/core angle 83°.						
450.25-452.89	Sandstone; fine grained, medium grey. Beds 5-						
	40 cm; massive. Garnet porphyroblasts common in						
	thicker beds; silvery muscovite grains conspicuous						
	in places. 30% thinly bedded to laminated medium						
	grey argillaceous siltstone/greenish-grey silty						
	argillite (with biotite porphyroblasts). Po as					<b>-</b>	
	minor disseminations and blebs, mainly in siltstone.						
	Bd/core angle 81°.						
452.89-456.43	Argillaceous siltstone; medium grey. Mainly as	454.75-45	5.80	<0.01%	< 0.01%	0.01%	<0.3g,
	thinly streaky banded intervals, but also as massive						<u> </u>
	beds, to 20 cm, with only rare po-rich laminae,						
	and as po-rich pinstripe laminated intervals.						

## DIAMOND PRILL RECORD

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Hole NoSheet No. 73 Of 77	' Lot	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	30% very fine grained sandstone in massive 1-8						
	cm beds. Po becomes abundant in lower half of						
	interval as thin lenses, laminae, blebs and		-				
	disseminations within siltstone, and also rarely						
	as coatings on fracture surfaces at low core angle.						
	2 mm bedding-parallel quartz-po vein at						
· · · · · · · · · · · · · · · · · · ·	454.81 m. Bd/core angle 85°.						
456.43-458.74	Siltstone/argillaceous siltstone; medium grey,	456.43-45	7.55	< 0.01%	<0.01%	0.01%	0.5 9
	po-rich. Massive appearance, with vague streaky	457.97-45	8.07	52 ppm	47 ppm	60 ppm	0.5
	laminations and thin beds apparent in places.						
	2 cm interval of distinct 4-6 mm graded laminae						
	(light coloured bases to darker tops) near centre						
	of interval. 15% very fine grained medium grey						
	sandstone in beds to 7 cm; contains 1-2 mm silvery						
	muscovite patches. Po as 1-5% disseminated grains						
	throughout entire interval, and rarely as higher						
·	concentrations over intervals of several cm. Py						
	(and/or po) along 0-10° hairline fractures at						
	458.37 m; below this is broken and fractured core						
	with chloritic fault surfaces at 60-70° core angle.						
·····	Bd/core angle 87°.						

## DIAMOND PAILL RECORD

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#### HOLE No. MM84-1

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Hole No	7 Lot	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev, Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
458.74-460.20	Quartzite; fine grained, light-medium grey, rarely	459.04-4	60.07	< 0.01%	< 0.01%	<0.01%	<0.3
· · · · · · · · · · · · · · · · · · ·	with faint greenish tinge. Massive, with darker						
	biotite-rich lenses and patches scattered irregularly						
	throughout. Bedding not distinct. Garnet porphyro-						
	blasts and silvery muscovite-rich patches (1-2						
	mm) present in places. Rare thin argillite lenses.						
	1% po disseminated through most of the quartzite.						
	2-5% po, mainly concentrated in relatively dark						
· · · · · · · · · · · · · · · · · · ·	biotite-rich patches, in upper 30 cm and rarely						
	elsewhere in interval. 10-30° hairline fractures						
	common, some with calcite coating. 60-70° chloritc						
	fractures in upper part of interval.						
460.20-463.00	Siltstone; medium grey, po-rich. Massive appearance;	460.25-4	51.26	< 0.01%	< 0.01%	< 0.01%	<0.3 g
	vague thin banding apparent in places, becomes	461.26-4	52.24	< 0.01%	< 0.01%	< 0.01%	0.5
	more conspicuous over lower 70 cm. Minor light	462.30-4	53.03	<ul><li>&lt; 0.01%</li></ul>	< 0.01%	< 0.01%	K0.3 (
	greenish argillite intercalated with siltstone						
	from 462.12 to 462.27 m. 3-7% po through most						
	of interval; mainly as evenly distributed grains				· · · · · · · · · · · · · · · · · · ·		
	and blebs averaging about 0.5 mm size, some of						
	which are somewhat oriented to define indistinct						
	and discontinous lamination. In lower 70 cm most		`				

### DIAMOND ")ILL RECORD

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PROPERTY

#### HOLE No. MM84-1

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Hole No	Lat	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collor	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	po is concentrated in 1-6 mm lenses and layers.						
	35 cm long fracture surface at 0-5° core angle	· · · ·					
	near base of interval is partially coated with						
	chlorite and framboidal pyrite. Bd/core						
· · · · · · · · · · · · · · · · · · ·	angle 83°.						
463.00-464.76	Argillite/argillaceous siltstone; light/medium	463.42-4	64.42	< 0.01%	< 0.01%	< 0.01%	< 0.3g
	grey. Mainly as distinct but lenticular 2-20 mm		· ·				
	laminae and beds. Biotite porphyroblasts common						
	within argillite. 35% sandstone in massive beds						
	to 40 cm (mainly 2-8 cm); garnet porphyroblasts						
	in thicker beds. Substantial po; mainly as patchy						
	disseminations in sandstone and siltstone, as						
	concentrations to 25% in laminae and lenses, to						
<u> </u>	1 cm, in siltstone, and as discordant blebs and						
	stringers in all rock types. Bd/core angle 83°.						
464.76-468.21	Sandstone; medium grey, in part argillaceous, fine	467.30-4	67.38	18 ppm	7 ppm	48 ppm	0.1 pp
	to very fine grained. Beds 8-35 cm; massive, some						
····	with graded tops. Garnet porphyroblasts and silvery						
·	muscovite grains and/or muscovite-rich patches						
··	common in thicker beds. 20% light grey argillite/						
	medium grey argillaceous siltstone intervals to						

### DIAMOND PAILL RECORD

Date Begun

Date Finished

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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	, Pb	Zn	Ag
	25 cm (mainly 1-2 cm). Biotite porphyroblasts						
	in argillite. Rare argillite lenses (rip-up clasts?)						
	within massive sandstone beds. Minor po disseminated						
	in sandstone and in very thin biotite-rich laminae						
	and lenses in siltstone. Bd/core angle 86°.						
468.21-469.59	Siltstone/argillaceous siltstone; medium grey.	468.40-4	58,50	30 ppm	8 ppm	60 ppm	0.1 pr
	1-15 mm streaky lenticular banding; includes minor						
	light grey argillite laminae with biotite porphyro-						
	blasts. 10% sandstone; mainly as very thin beds						
	and lenses, but including 10 cm bed near top of						
······································	interval containing 4 cm garnet-biotite-quartz						
	concretion. Very minor po disseminated in some						
	siltstone laminae. Bd/core angle 85°.						
469.59-473.05	Quartzite; fine grained, medium grey. Massive						
	beds, 19-46 cm, with garnet porphyroblasts and						
	silvery muscovite grains and muscovite-rich patches.						
	16 cm siliceous concretion containing black biotite						
	and hornblende patches in one bed. 50% inter-						
	laminated light grey argillite/medium grey siltstone						
	to argillaceous siltstone. Laminations generally						
	lenticular, rare cross laminae. Biotite						

## DIAMOND FJILL RECORD

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#### HOLE No. \_\_\_\_MM84-1\_\_\_\_\_

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Hole No	<sup>7</sup> Lat	Total Depth
Section		Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Cu	Pb	Zn	Ag
	porphyroblasts in argillite crudely oriented to					···	
	define cleavage at low to moderate core angle.						-
	Rare massive siltstone to very fine grained						-†
	argillaceous sandstone beds, to 10 cm, within		·				
	laminated siltstone/argillite intervals.					· · · ·	
	Spectacular flame(?) structure at base of one of				<u> </u>		
	these beds. Minor po as disseminations and rare						
	blebs, mainly in siltstone. Bd/core angle 87°.						-
473.05	END OF HOLE						
	Abbreviations						
	Bd Bedding		~.				
	po pyrrhotite						
	py pyrite						
	cpy chalcopyrite						
	All angles are measured against the long axis of the co	re.					
						_	
				<u></u>		-	_
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