1980 Drilling Assessment Report

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MINING RECORDER
WATSON LAKE, Y.T.
I.A. & N.D.

Office of the Supervising Mining Recorder
DEC 11 1980
WHITEHORSE
Yukon Territory

TITLE	Boulder Creek Property
CLAIMS	Al, Piggy, JA-P, Pig, BNA, Morn Seven, A&B, Bug, Uly and Ray
COMMODITY	Tungsten
LOCATED	95 km west of Watson Lake, Y.T. Latitude 60°08'N Longitude 130°26'W Watson Lake Mining District 105 B 1
BY	S.E. Parry
FOR	AMAX of Canada Limited
WORK PERIOD	June 2 to June 20, 1980

AMAX VANCOUVER OFFICE

090688

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SUMMARY

This assessment report presents results of a 561 metre diamond drill program conducted on the Boulder Creek property between June 2 and June 20, 1980.

Boulder Creek property is a joint venture between AMAX of Canada Limited, S.E.R.E.M. Ltd., and Pan Ocean Oil Ltd., located 95 km west of Watson Lake, Yukon Territory.

Diamond drill hole BC-80-2, drilled to a depth of 561 metres at azimuth 325°, -80° dip encountered a band of garnet-wollastonite-diopside-scheelite skarn from 348.3 to 416.7 metres. The best mineralized section was 36 metres of 0.067% WO_3 from 376.0 to 412.0 metres. Core is stored on Morn 1 claim beside the BC-80-2 drill hole collar.

A cost of $39,154.68 is applied as assessment to the following claims:

2 years:	A & B 1-4, Morn 1-4, Seven 1-2, Piggy 1-72, Pig 1-4, Uly 1-4, Ray 1-8, Al 1-6, BNA 1-6, JA-P 1-4
1 year:	A&B 3-4 FR, A&B 7-32, Bug 5-8

INTRODUCTION

General Statement

This assessment report presents results of a 561 metre diamond drill program on the Boulder Creek property, Yukon Territory, conducted between June 2 and June 20, 1980. The work was performed under a joint venture agreement between AMAX of Canada Limited, S.E.R.E.M. Ltd., and Pan Ocean Oil Ltd.

Location and Access

The property is located 95 km west of Watson Lake, Yukon Territory (Figure 1), 5 km north of the Alaska highway at latitude 60°08'N, longitude 130°26'W (NTS 105 B 1). The property lies within the Watson Lake Mining District.

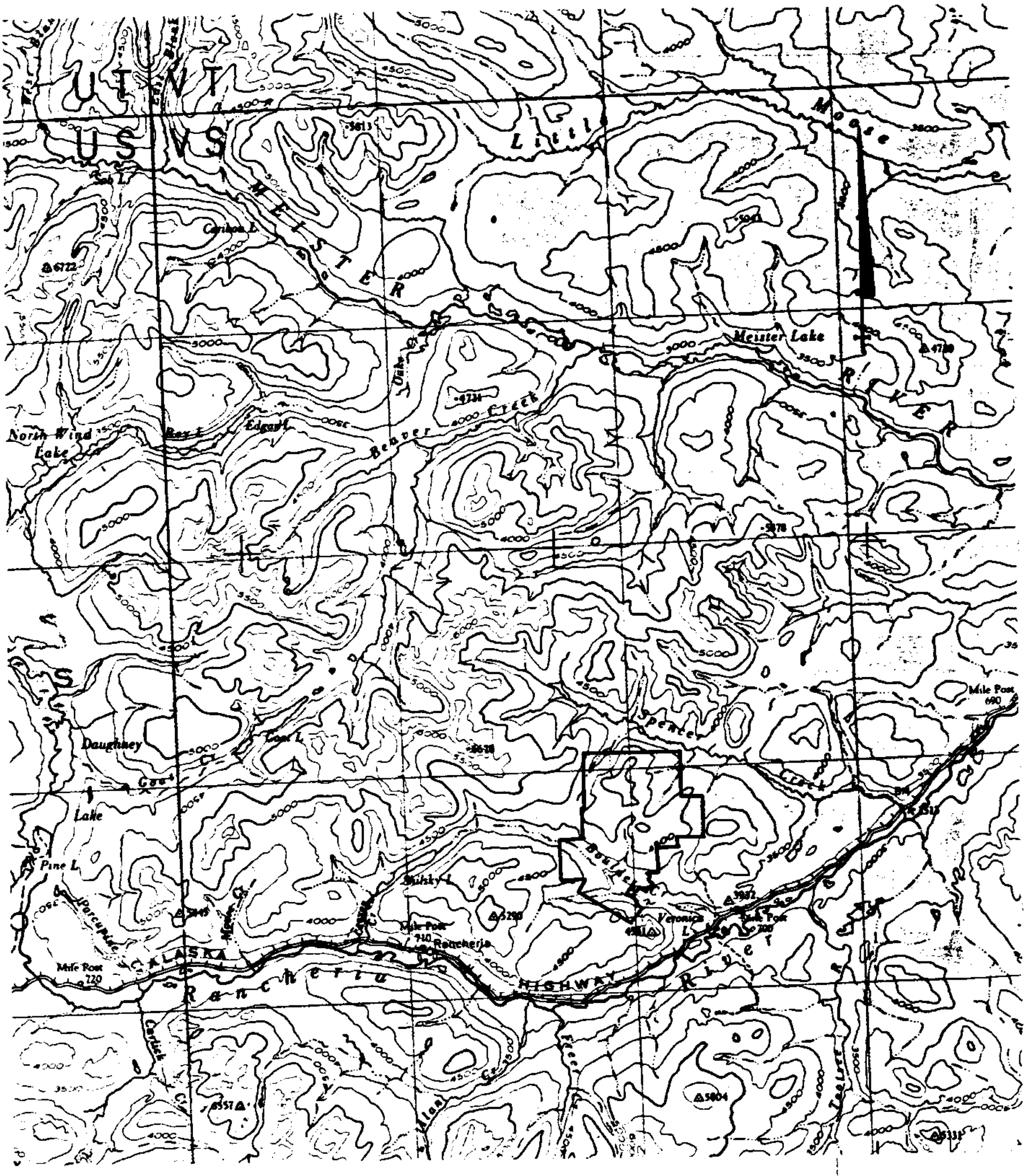
Access to the property is gained by an 8 km four-wheel drive road from km 1129 on the Alaska highway. Boulder Creek must be forded 4.2 km from the highway. The road is steep and poorly maintained in some sections past Boulder Creek.

Claims Data

The property consists of 144 contiguous claims, jointly held through underlying agreements by AMAX of Canada Limited, S.E.R.E.M. Ltd., and Pan Ocean Oil Ltd. Claims data is summarized in Table I.

Physiography

The claims cover the northeast slope of the Boulder Creek valley. The terrain is gently sloping over most of the property. The dominant vegetation is low lying buck brush with occasional mixed conifer stands.



AMAX OF CANADA LIMITED

BOULDER CREEK PROPERTY

WATSON LAKE M.D. — YUKON

LOCATION MAP

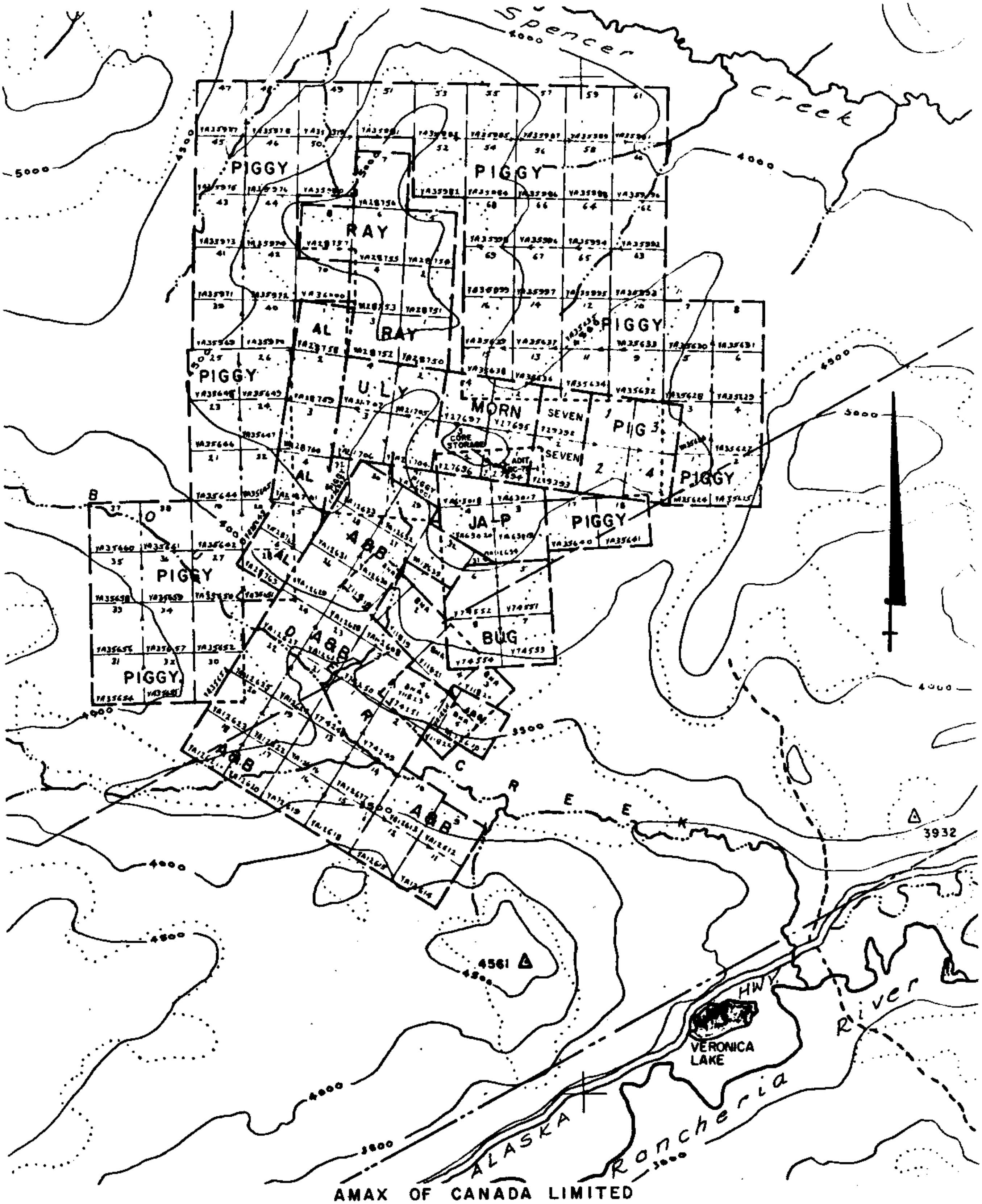
SCALE 8 0 8 KILOMETRES
4 0 4 MILES

1 : 250,000

FIG. 1

N. T. S. Ref. 105 B 1 and 2

S.P. Nov. 21/90



AMAX OF CANADA LIMITED

BOULDER CREEK PROPERTY

WATSON LAKE M.D. — YUKON

CLAIM MAP

SCALE 1600 0 1600 METRES
4000 0 4000 FEET

1:50,000

S.P. NOV.21/80

FIG. 2

N. T. S. Ref. 105 B 1 and 2

TABLE I

MINERALS CLAIMS

CLAIM		Number	Due Date
BNA	1-6	Y11818-Y11823	December 31, 1983
Morn	1-4	Y27694-Y27697	December 2, 1983
Seven	1-2	Y29392-Y29393	December 2, 1983
A&B	1-4	Y74248-Y74251	December 31, 1983
Bug	5-8	Y74551-Y74554	December 31, 1984
A&B	3-4 FR.	YA12608-YA12609	December 31, 1984
A&B	7-32	YA12610-YA12635	December 31, 1984
Uly	1-4	YA21704-YA21707	December 31, 1983
Ray	1-8	YA28750-YA28757	December 31, 1983
Al	1-6	YA28758-YA28763	December 31, 1983
Piggy	1-38	YA35624-YA35661	December 31, 1982
Piggy	39-72	YA35969-YA36002	December 31, 1983
JA-P	1-4	YA36017-YA36020	December 31, 1983
Pig	1-4	YA45443-YA45446	December 31, 1983

(prior to application of work covered in this report)

1980 DRILL PROGRAM

General Statement

A 561 metre NQ/BQ diamond drill hole was completed between June 2 and June 20, 1980. The hole is located adjacent to the Yukon Tungsten Corporation Syndicate adit, at 1490 metres elevation (Figure 3) on the Morn 1 claim. The hole was drilled at azimuth 325^{0}, dip -80^{0}, to test for scheelite mineralization in skarn beds and scheelite-wolframite in a quartz-filled breccia zone exposed at the adit.

BC-80-2

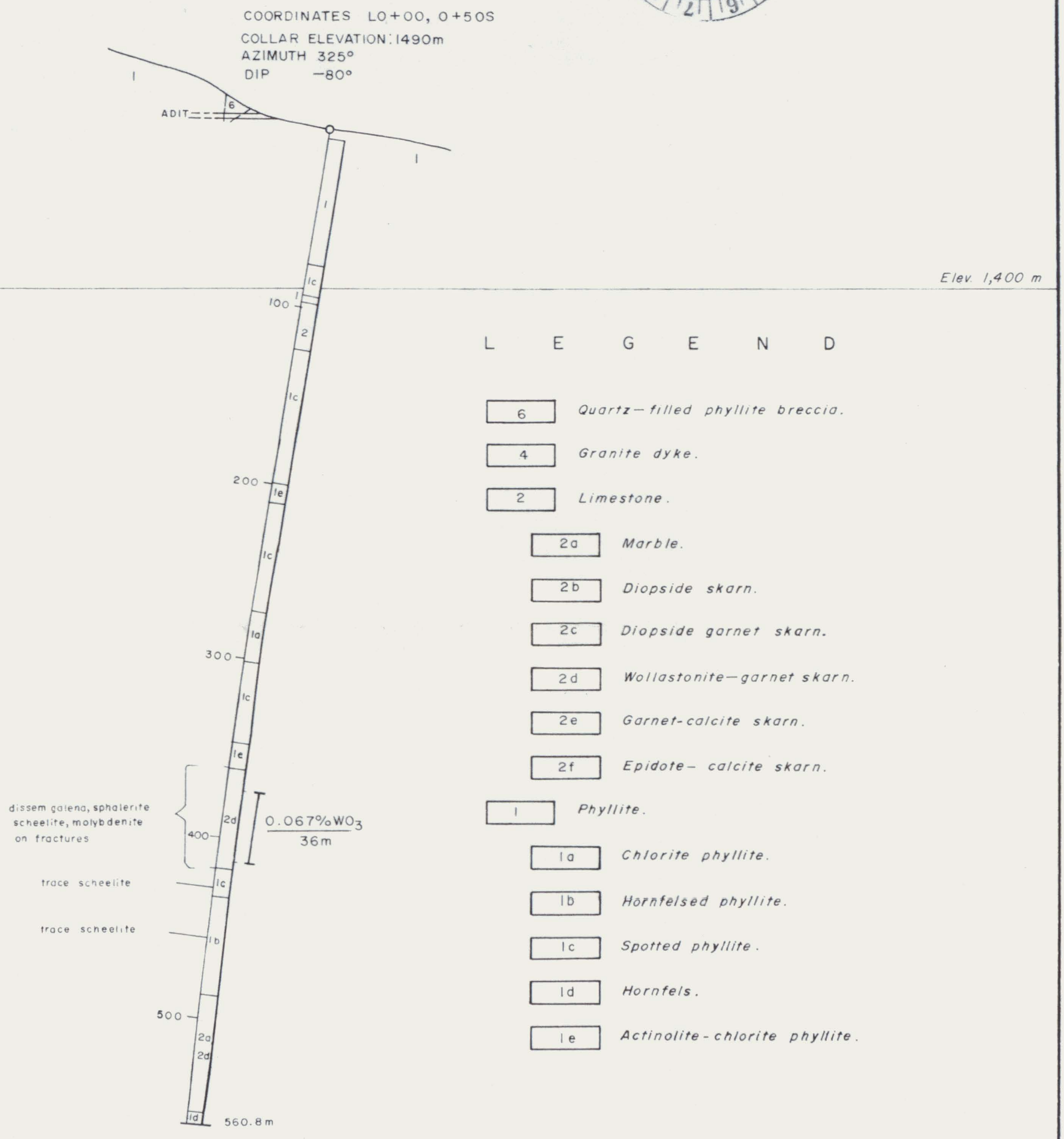
The hole encountered interbanded limestone, phyllites and hornfels with trace amounts of scheelite. Garnet-wollastonite-diopside skarn was intersected from 348.3 to 416.7 metres (Appendix III). Pyrrhotite, pyrite, sphalerite, galena and scheelite were disseminated throughout the skarn section. Trace amounts of wolframite and molybdenite were identified in a few veins cutting the skarn.

The best mineralized section was 38 metres of 0.067% WO_3 from 376.0 to 412.0 metres.

S.E. Parry

S.E. Parry

Nov 21/80



L E G E N D

6	*Quartz—filled phyllite breccia.*
4	*Granite dyke.*
2	*Limestone.*
2a	*Marble.*
2b	*Diopside skarn.*
2c	*Diopside garnet skarn.*
2d	*Wollastonite—garnet skarn.*
2e	*Garnet-calcite skarn.*
2f	*Epidote— calcite skarn.*
1	*Phyllite.*
1a	*Chlorite phyllite.*
1b	*Hornfelsed phyllite.*
1c	*Spotted phyllite.*
1d	*Hornfels.*
1e	*Actinolite-chlorite phyllite.*

AMAX OF CANADA LIMITED

BOULDER CREEK PROPERTY
WATSON LAKE M.D. — YUKON

SECTION

DIAMOND DRILL HOLE BC—80-2

SCALE
100 0 100 METRES
400 0 400 FEET
1 : 2,500

Vancouver —

N. T. S. Ref. 105 B 1 and 2
FIG. 4

APPENDIX I - STATEMENT OF COSTS

SUMMARY OF WORK

Diamond Drilling - Boulder Creek

PERIOD OF WORK

June 2-June 20, 1980

DRILLING

Amity Drilling Ltd., Whitehorse, Yukon Invoice #159, drilling charges BC-80-2	39,154.68
Total	$39,154.68

This work is to be applied to the following claims, to keep them in good standing until the specified anniversary dates in 1985.

BOULDER CREEK			EXPIRY
A & B 1-4	2 years	800	Dec. 31/85
A & B 3-4 FR	1 year	200	Dec. 31/85
A & B 7-32	1 year	2,600	Dec. 31/85
MORN 1-4	2 years	800	Dec. 2/85
SEVEN 1-2	2 years	400	Dec. 2/85
PIGGY 1-72	2 years	14,400	Dec. 31/85
PIG 1-4	2 years	800	Dec. 31/85
ULY 1-4	2 years	800	Dec. 31/85
RAY 1-8	2 years	1,600	Dec. 31/85
AL 1-6	2 years	1,200	Dec. 31/85
BNA 1-6	2 years	1,200	Dec. 31/85
JA-P 1-4	2 years	800	Dec. 31/85
BUG 5-8	1 year	400	Dec. 31/85
		26,000	

APPENDIX II

STATEMENT OF QUALIFICATIONS

NAME	S.E. PARRY
EDUCATION	4 year BSc. (Hons. Geological Sciences) Queen's University, Kingston, Ontario MSc. (Geology) University of Western Ontario, London, Ontario
EXPERIENCE	Geological Assistant - Cominco Ltd. - 1975 Geological Assistant - Shell Canada Resources - 1976 Geologist - Falconbridge Copper Ltd. - 1977, 1978 Geologist - AMAX of Canada Limited - 1979-

APPENDIX III

BC-80-2 DIAMOND DRILL LOG

DIAMOND DRILL RECORD

PROPERTY BOULDER CREEK Project Number 973

Hole No. BC-80-2 Co-ordinates L0+00 0+45S

Bearing at Collar 325°

Dip at Collar -80°

Collar Elevation 1490 m

Commenced Drilling June 8, 1980

Total Depth 560.8 m

Completed Drilling June 20, 1980

S.P. Nov. 21/90

Logged By: S. Noble

Core Size NQ, BQ

Coring Method

Drilling Contractor Amity Drilling, Whitehorse

Survey Summary				Pertinent Assay Data		Pertinent Geology	
Depth	Dip	Bearing	Method	Interval	WO_3%	Interval	Rock Type
24.6 m	80.0°		acid test	376.0-412.0	0.067%	3.4 m - 122.1	Interbanded limestone and phyllite, minor spotted phyllite
274.3	82.0°		" "			3 122.1-248.3	Spotted phyllite, minor chlorite phyllite, muscovite phyllite, marble
560.8	82.5°		" "			348.3-416.7	Garnet-wollastonite-diopside skarn. Minor marble, spotted phyllite
						416.7-485.2	Hornfelsed phyllite
						485.2-560.8	marble, minor skarn, hornfelsed phyllite

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80- 2

SHEET 1 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS					
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO AND INTERVAL	% Sn	W	Mo	% TOTAL Mo AS MoS_2	TOTAL	SCH.	POWEL.	MoS_2	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Cass.	Sph	Fluor.	Po	Wolf
				0	0																					
2	PH			35+	27							1														
4	LM			90+	74							.7					6									
6	PH			70+	45																					
8	BX PH			38	46							3					3									
10	BX			100+	78		64651		10	1		3					3									
12	PH			100+	78							10												Tr		
14	LM	80		65+	75							15												Tr		
16	PH			74+	85							12												Tr		
18	LM PH			60+	95							19														
20	LM PH	70		60+	95		64652		5	3		18														
22				44+	85							10					3									
24	LM	55		72+	93							7					2									
26				37+	100							10					8									
28		80		43+	93							9					4									
30	PH	70		40+	100		64653		2	1		13					4									

NOTES

0-3.35	no core, ground badly broken
3.35-3.80	fine grained grey phyllite and a fragmented quartz vein
3.80-6.50	light brown limestone, fine grained with minor phyllite partings, cut by 1 mm calcite veinlets Quartz vein 6 cm at 5.33
6.50-7.96	dark grey phyllite, badly fragmented
7.96-8.23	quartz-phyllite breccia
8.23-10.50	dark grey phyllite with minor brown limestone layers
10.50-12.80	quartz-phyllite breccia composed of phyllite fragments in a fine grained quartz matrix. Core is badly fragmented.
12.80-14.32	dark grey phyllite with minor limestone layers and green fluorite-quartz vein at 13.44
14.32-15.38	light brown limestone with minor phyllite partings
15.38-17.53	phyllite with light brown limestone bands, core is badly broken up with quartz veins running along the core axis. An 8 cm quartz-fluorite vein at 17.30
17.53-18.20	brown limestone and phyllite cut by numerous anastamosing quartz veins up to 3 cm wide, trace fluorite → a breccia?
18.20-19.36	grey phyllite, core is badly fractured in some spots
19.36-20.10	brown fine grained limestone with contorted phyllite layers
20.10-23.10	dark grey phyllite with limestone layers; core is badly fractured
23.10-27.78	brown limestone with 40% phyllite layers up to 25 cm thick
27.78-32.20	dark grey phyllite incompetent. Calcite veinlets

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80-2
SHEET 2 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS						NOTES
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO AND INTERVAL	% Sn	W	Mo	% TOTAL Mo AS MoS_2	TOTAL	SCH.	POWEL.	MoS_2	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Cass.	Sph	Fluor.	Po	Wolf	
																											cut the limestone and phyllite, quartz veins have limonite staining. Phyllite is contorted and cut by quartz veins at 30.06 to 30.10.

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80- 2

SHEET 3 OF 22

DEPTH METRES	1:200 GRAPHIC LOG LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA SAMPLE NO AND INTERVAL	% Sn	W	M	% TOTAL Mo AS MoS_2	VEINS TOTAL	SCH.	POWEL.	MoS_2	LARGE QTZ-WO	CAL.	PY-SER	% MODE W DISS.	VEIN	% MINERALS Py	Cass.	Sph	Fluor.	Po	Wolf
34	LM quartz vein			26	89							7					4									
36				38	90							10					5									
38				21	100							17					10							Tr		
40	PH	50		57+	100							18					14									
42		90		41+	90		64654		5	1		10					4									
44				58+	100							2														
46		75		46+	98							5					5				<1					
48	LM			54	90							6					1									
50	PH BX			40	100							2					2							1	1	
52	PH LM			15	100		64655		120	1		6					4							Tr	1	
54	PH			16	100							3					2								Tr	
56		80		16	100							2	1								100					
58	LM			15	100							2														
60	PH	70		13	100							3					1								1	
62				10	100		64656		15	1		1													1	
64				17	100							2													1	

NOTES

32.20-32.82 brown limestone with 5% phyllite partings

32.82-34.90 dark grey phyllite with gouge at 32.93 and at 34.60 the phyllite is weathered and limonite stained

34.90-36.40 large quartz vein with phyllite fragments, cut by later fractures filled with limonite probably after pyrite and calcite veinlets (with minor fluorite)

36.40-43.00 dark grey phyllite with brown limestone pods and layers, badly broken at 38.00 to 39.40, probably fault gouge. Core is badly broken at 41.30 to 41.80

43.00-43.70 phyllite is badly broken

43.70-44.81 phyllite with rusty fractures, rock is imcompetent

44.81-47.55 dark grey phyllite with 10% brown limestone layers 3 cm quartz vein with 5% pyrite at 46.70

47.55-48.00 fine grained brown limestone

48.00-48.50 phyllite with up to 20% brown limestone layers and contorted foliation

48.50-49.10 dark grey phyllite

49.10-49.55 quartz-phyllite breccia with quartz and fluorite as breccia matrix with 1% pyrite in small late fractures

49.55-50.85 dark grey phyllite with 20% brown limestone layers. Phyllite has 1-2% disseminated and fracture filling pyrrhotite

50.85-51.23 brown limestone fine grained with 30% phyllite partings

51.23-56.10 grey phyllite with 20-30% limestone layers and 1% pyrrhotite

56.10-58.20 fine grained Brown limestone with 20% phyllite parting

58.20-65.76 grey phyllite with brown limestone layers, 2 cm quartz-green fluorite-pyrrhotite vein at 59.10 m quartz and trace scheelite vein 54.80 m

63.50- 5 cm quartz vein

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80- 4

SHEET 4 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS					
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO. AND INTERVAL	% Sn	W	% Mo	% TOTAL Mo AS MoS_2	TOTAL	SCH.	POWEL.	MoS_2	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Coss.	Sph	Fluor.	Po	Wolf.
	PH			10	100							1													1	
66				11	100							1												Tr	1	
68		90		8	100							2													1	
70	PH	70		10	100		64657		15	1		1												Tr	Tr	
72				20	100							2									1				Tr	
74				14	100							4						1			1					
76				16	100							7	1					5		100	2					
78	SE	70		9	100							9									<1			Tr		
80				12	100		64658		35	1		2													1	
82	PH	75		10	100							7						1			Tr				Tr	
84				13	100							3														
86	SP			16	100							7						2			Tr				Tr	
88				9	100							2	1							100				Tr	1	
90	CA	70		15	100		64659		10	1		8							100						1	
92	PH			9	100							3							100						1	
94				8	100							2							100						1	

NOTES

65.56-75.80 light grey phyllite with calcareous bands and
1% disseminated po and minor po in veinlets.
Beds are often folded and sheared
Fluorite veinlet at 70.5
the phyllite is silicic, and silica rich beds
occur, often they contain pyrrhotite
-2 cm quartz vein with 10% pyrite and chlorite
(?) or sericite at 76.00

75.80-83.07 spotted phyllite composed of silicic phyllite
with biotite porphyroblasts up to 1.5 mm.
quartz-scheelite vein at 76.30. 2 cm quartz-
purple fluorite vein at 79.50

83.07-83.30 phyllite with few biotite porphyroblasts and
some chloritc bands

83.30-89.59 spotted chloritic phyllite with pegmatite
disseminated in siliceous layers pyrite-
chlorite vein at 83.90 m
71 cm quartz-pyrite-pyrrhotite vein at 86.49

89.59-91.45 (calc-silicate?) light grey hornfelsed phyllite
composed of fine grained recrystallized quartz
mica, chlorite and minor calcite (<1%) and 1%
pyrrhotite. trace shceelite in a small quartz
veinlet at 89.69. a large quartz-purple fluor-
ite (minor) trace pyrrhotite vein runs along
the core axis between 90.75 to 90.05, with
maximum width of 5 cm.

91.45-97.25 fine grained grey phyllite with 20% fine grained brown limestone beds, with 1% pyrrhotite
disseminated in the calc layers. bedding is
sometimes crenulated. rock contains trace
scheelite.

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D D H. BC-80 2
SHEET 5 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS					
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES	%		SAMPLE NO AND INTERVAL	% Sn	W	% Mo	% TOTAL Mo AS MoS2	TOTAL	SCH.	POWEL.	MoS2	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Cass.	Sph	Fluor.	Po	Wolf
96	PH			9	100							1							100							
98	MA			8	100							9							100							
100				9	100		64660		10	1		6					1		100							
102				19	100							4					1		100		Tr			Tr		
104		80		12	100							6														
106	LM			12	100							5					4									
108		85		10	100							6					5							Tr	Tr	
110	MA			9	100		64661		0	8		3					1				Tr					
112	LM			8	100							1					1				Tr			Tr	Tr	
114	CH	85		8	100							18					5								Tr	
116	LM			5	100							8					6								Tr	
118				14	100							3					3								1	
120				7	100		64662		25	5		3					2								1	
122				8	100							8													1	
124	SP	90		12	100							8													1	
126				11	100							7					5								Tr	
128																										

NOTES

97.25-102.70 grey fine to medium grained marble with bedding still visible and 5% chloritic phyllite partings. cut by chlorite and quartz veinlets. relict bedding is sometimes obscured by recrystallization and brecciation. contains trace scheelite

102.70-111.04 fine grained light brown limestone with 10% chloritc phyllite partings. brown limestone often contains minor amounts of fine grained disseminated pyrite. brown limestone is cut by a few small quartz and calcite veins, usually at 70-80° to core axis. pyrrhotite-green fluorite veinlet at 109.80

111.04-111.28 coarse grained marble where the original bedding has been strongly disturbed with tight folds and chlorite veining

111.28-114.70 same brown limestone as 102.70-111.04

114.70-114.82 chloritic phyllite band. 2 cm calcite-purple fluorite-pyrrhotite vein with trace galena at 114.75 m

114.82-119.10 same brown limestone as 102.70-111.04. have a series of narrow calcite veinlets at 2-3 cm spacing cutting the core at 50°. A <1 mm pyrrhotite-calcite-fluorite(?) veinlet runs along the core axis for 25 cm at 117.75 m

119.10-120.20 brown limestone with 20% phyllite partings with grey marble at 119.50

120.20-122.10 brown limestone, finely bedded

122.10-131.90 spotted phyllite with 30% brown limestone layers. phyllite has biotite porphyroblasts and 1% disseminated pyrrhotite. coarse (>2 cm) pyrrhotite grain in a chloritic brown limestone band at 124.00. brown limestone 10 cm thick at 126.49. quartz-pyrrhotite vein 2-5 cm wide at 124.70.

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80- 2
SHEET 6 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS					
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO. AND INTERVAL	% Sn	W	Mo	% TOTAL Mo AS MoS_2	TOTAL	SCH.	POWEL.	MoS_2	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Coss.	Sph	Fluor.	Po	Wolf.
				9	100							6					3								Tr	
130	SP			9	100		64663		15	1		11					1								1	
132	LM	85		9	100							.2													1	
134	SP			10	100							8													1	
136	LM	90		13	100							9					1								1	
138	SP			10	100							7					2									
140	LM			12	100		64664		0	1		8									Tr					
142	SP			13	100							4													Tr	
144				12	100							9					1								Tr	
146		70		10	100							9					3								Tr	
148				12	100							7													Tr	
150				11	100		64665		10	1		8													Tr	
152	SP			6	100							9													Tr	
154		60		12	100							4												Tr?	1	
156				9	100							6												Tr?	1	
158				16	100							15												Tr?	1	

NOTES

129.30	core cut by a 2 cm quartz-pyrrhotite vein
130.35	core is cut by 2 quartz-pyrrhotite veins. pyrrhotite is up to 2 mm. similar veins at 130.70 and 130.80 with pyrrhotite grains up to 1 cm
131.50	quartz-pyrrhotite vein with trace chalcopyrite
131.90-132.24	brown limestone with 10% phyllite partings
132.24-136.58	grey spotted phyllite with chlorite rich sections and 20% brown limestone bands. quartz-fluorite vein at 135.70 m
136.58-138.60	brown, fine grained limestone with 10% spotted phyllite partings
138.60-140.00	grey spotted phyllite with crenulated foliation in some spots. 2 cm quartz-fluorite(?)-pyrrhotite-chlorite veins at 139.56. phyllite has 10% brown limestone layers
140.00-140.60	fine grained limestone with minor phyllite partings and trace green diopside? limestone has been recrystallized
140.60-149.70	spotted muscovite phyllite with biotite porphyroblasts and 10% limestone beds. phyllite is crenulated in several locations. 16 cm brown limestone band at 141.90. quartz-pyrrhotite veins are the main type of vein with pyrrhotite occuring in veins and in calcite layers
149.70-150.00	calc-silicate rock, fine grained quartz-chlorite-calcite-pyrrhotite
150.00-168.90	spotted muscovite phyllite with 10% calc-silicate layers. the phyllite is becoming more granular and less calcareous. pyrrhotite is concentrated in the calc-silicate layers. The phyllite is dark grey and hard. foliation often

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80- 2
SHEET 7 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS						NOTES
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO. AND INTERVAL	% Sn	% WO_3	% Mo	% TOTAL Mo AS MoS_2	TOTAL	SCH.	POWEL.	MoS_2	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Cass.	Sph	Fluor.	Po	Wolf.	
																											tightly folded and crenulated. the silicic
																											layers are clear to green and purple. indicating
																											fine grained fluorite in the layers
																											158-160 13 chlorite-pyrrhotite veinlets

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80-2
SHEET 8 OF 22

DEPTH METRES	1:200 GRAPHIC LOG LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA SAMPLE NO. AND INTERVAL	% Sn	W	Mo	% TOTAL Mo AS MoS_2	VEINS TOTAL	SCH.	POWEL.	MoS_2	LARGE QTZ-WO	CAL.	PY-SER	% MODE W DISS.	VEIN	% MINERALS Py	Coss.	Sph	Fluor.	Po	Wolf.
	SP			8	100		64666		0	1		14													2	
162				10	100							6													1	
164				9	100							4													2	
166		55		10	100							9													4	
168				9	100							9													1	
170	BR SP			12	100		64667		0	1		6													Tr	
172				7	100							4													Tr	
174				15	100							3													Tr	
176		40		6	100							7													Tr	
178				9	100							11	1							100					1	
180				7	100		64668		45	2		8													2	
182				12	100							9													1	
184				11	100							8													1	
186	CH			19	100							6					1									
188	SP	70		15	100				0	1		5													Tr	
190				8	100		64669					10													Tr	

NOTES

160-162	veins are chlorite-pyrrhotite with minor quartz. pyrrhotite most common at the contacts of pyrrhotite veins and calc-silicate layers
162.30	5cm quartz-chlorite-pyrrhotite vein
166.50	10cm quartz-chlorite-pyrrhotite vein
167.70	15cm quartz-chlorite-pyrrhotite vein
168.40	5cm quartz-calcite-chlorite-pyrrhotite vein
168.90-170.70	brown phyllite, spotted phyllite with granular texture and weak foliation, minor green mineral (diopside?)
170.70-178.20	spotted phyllite with contorted foliation in some spots, cut by quartz-chlorite-pyrrhotite veinlets
180.00	quartz vein with scheelite grains up to 2-3mm (1-2% of vein)
178.20-178.80	fine grained spotted muscovite phyllite with 40% quartz-diopside layers (granular calc-silicate)
178.80-185.85	fine grained spotted muscovite phyllite with biotite porphyroblasts and 20% calc-silicate bands. bedding is contorted in some spots degree of porphyroblast development is variable. Majority of veins are quartz-pyrrhotite
185.85-186.70	medium grained chlorite-phyllite with a narrow talc-chlorite-calcite vein running along core axis from 186.90 to 187.25. bedding is folded, and rock is generally incompetent.

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80- 2
SHEET 9 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS					
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.		SAMPLE NO. AND INTERVAL	% Sn	% W	% Mo	% TOTAL Mo AS MoS$_2$	TOTAL	SCH.	POWEL.	MoS$_2$	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Cass.	Sph	Fluor.	Po	Wolf.
	SP			14	100							6													1	
194		70		7	100							4													1	
196				11	100							8													1	
198				9	100							4													1	
200	CA SK			12	100		64670		15	2		7							100						5	1
202	CA			6	100							5													1	
204	SK			8	100							4													1	
206	SP	40		9	100							5													1	
208	CA			10	100							5													1	
210				6	100		64671		10	2		11													1	
212				7	100							11													1	
214	SP			11	100							6					1								Tr	
216		75		6	100							9													Tr	
218				10	100							10													Tr	
220	PH			8	100		64672		40	1		8													Tr	
222	SP			7	100							11													1	

NOTES

186.70-199.58	spotted muscovite-phyllite with biotite porphyroblasts and 15% white and green calc-silicate layers. calc-silicate layers are composed of quartz-diopside-pyrrhotite. pyrrhotite is most adundant when calc-silicate is cut by chlorite-pyrrhotite veins. bedding is more regular than previous spotted phyllite pyrrhotite grains up to 1 cm
199.58-201.40	calc-silicate rock composed of quartz-diopside-muscovite with ~5% spotted phyllite partings and 1% pyrrhotite
201.40-201.75	pyrrhotite skarn composed of 10% pyrrhotite<.2% wolframite in a host of calc-silicate rock. the pyrrhotite and wolframite occur as 1 mm disseminated grains.
201-75-204.45	calc-silicate rock
204.45-205.20	diopside skarn composed of dark green diopside quartz and calcite. skarn is fine grained. at 205.10 the skarn is cut by a 1 cm wide vein composed of medium grained calcite
205.20-207.80	fine grained spotted muscovite-phyllite with 40% calc-silicate (quartz-diopside) layers. 1-2% disseminated. pyrrhotite in calc-silicate 7 cm quartz-pyrrhotite vein at 207.50
207.80-210.40	quartz-diopside calc-silicate with 10% spotted phyllite partings. quartz-pyrrhotite-chalcopyrite vein at 210.30 cutting the core at 20%
210.40-217.30	spotted muscovite-phyllite with 10% calc-silicate layers. 12 cm quartz-chlorite-pyrrhotite vein at 211.35. 2 cm calcite vein a 216.00

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80- 2
SHEET 10 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS					
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO AND INTERVAL	% Sn	W	Mo	% TOTAL Mo AS MoS_2	TOTAL	SCH.	POWEL.	MoS_2	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Cass.	Sph	Fluor.	Po	Wolf.
				7	100							14													1	
226	SP	85		7	100							6													1	
228				6	100							6													1	
230				10	100		64673		20	1		5													Tr	
232		40		6	100							10													Tr	
234				7	100							6													Tr	
236		40		13	100							7													Tr	
238	SP			12	100							4													Tr	
240				10	100		64674		0	24		4													Tr	
242				15	100							6													Tr	
244	PH	35		13	100							6													Tr	
246				9	100							7											Tr?		Tr	
248				5	100							5													Tr	
250				9	100		64675		10	1		5													Tr	
252	SP			8	100							9													Tr	
254				15	100							7													Tr	

NOTES

217.30-222.40 muscovite-phyllite with few biotite porphyroblasts and with 20% calc-silicate bands. pyrrhotite-trace chalcopyrite in a quartz-chlorite vein at 220.30. majority of the veinlets are quartz-chlorite-pyrrhotite

222.40-243.80 spotted muscovite phyllite with 15% calc-silicate layers. quartz vein with muscovite selvages at 228.40. pyrrhotite is disseminated in the calc-silicate layers, and in the small veins. 30 cm quartz-chlorite-pyrrhotite vein with trace chalcopyrite at 227.00 m. the large vein has several chlorite-pyrrhotite veinlets branching away from it 2 cm quartz chlorite-pyrrhotite vein at 230.60. from 232 m, the foliation becomes crenulated, calc-silcate layers are reduced to 5%, and chlorite composed 10% of the rock. chlorite concentrates in narrow bands

243.80-250.56 greenish grey chlorite-muscovite-phyllite with few biotite porphyroblasts. rock crenulated foliation with chloritic shear planes crossing the core axis at 50°. veins are mainly chlorite-pyrrhotite. 1 cm quartz-(sphalerite?) vein at 247.80

250.56-263.40 spotted chlorite-muscovite-phyllite with crenulated foliation and chloritic shear planes. 2 cm quartz & trace pyrrhotite and calcite at 251.45. 4 cm quartz-chlorite-pyrrhotite vein at 252.60. several long (20-30 cm) quartz and quartz-chlorite-pyrrhotite veins run along the core axis between 254 and 256 m. 20 cm quartz-chlorite-pyrrhotite vein at 258.60.

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80- 2

SHEET 11 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS					
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO. AND INTERVAL	% Sn	% W	% Mo	% TOTAL Mo AS MoS_2	TOTAL	SCH.	POWEL.	MoS_2	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Cass.	Sph	Fluor.	Po	Wolf.
258	SP	50		10	100							8													Tr	
260				12	100							6													Tr	
262				11	100		64676		0	1		.7													Tr	
264	PH			14	100							8													Tr	
266	SP	60		9	100							6													Tr	
268				12	100							4													Tr	
270	SK			8	100							5	Tr						100						Tr	
272	SP HK			9	100		64677		300	1		5	Tr						100						Tr	
274	CH			5	100							5	Tr											Tr	Tr	
276	BX		?	9	100							8		Tr					100						Tr	
278	CH			8	100							4														
280				8	100							4														
282		50		10	100		64678		5	2		3													Tr	
284				11	100							6									Tr				Tr	
286				13	100							3													Tr	
				12	100																				Tr	

NOTES

263.40-263.90 fine grained muscovite phyllite with 10% garnet-diopside calcite skarn layers

263.90-268.40 spotted chlorite-muscovite phyllite with biotite porphyroblasts and crenulated foliation veins are quartz-chlorite-pyrrhotite and barren quartz phyllite has 10% brown phyllite layers

268.40-269.30 quartz-diopside-garnet skarn with trace pyrrhotite and chalcopyrite. relict crenulated foliation still visible in siliceous layers skarn contains trace disseminated scheelite

269.30-270.46 spotted muscovite-chlorite phyllite

270.46-270.89 quartz-diopside-garnet skarn with disseminated trace scheelite

270.89-273.87 dark green chlorite-phyllite with minor biotite porphyroblast development and skarn bands up to 20 cm at 271.60, 271.25.

273.87-274.00 quartz filled phyllite breccia or quartz vein with phyllite fragments. phyllite fragments are angular. matrix is fine grained quartz with white calcite and fluorite.

274.00-274.60 chlorite-phyllite with minor quartz-diopside skarn. cut by a 1 cm branching quartz vein with source in the breccia at 273.87. the vein cuts the core along the core axis. rock contains trace powellite?→small white grains-yellow fluorescence.

274.60-300.99 chlorite-phyllite with minor spotted phyllite and siliceous (calc-silicate?) layers. 20 cm quartz vein at 278.61. 28 cm calc-silicate band with 5% pyrrhotite at 280.40. 4 cm quartz-pyrrhotite-chalcopyrite vein at 286.80

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80- 2

SHEET 12 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS					
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.		SAMPLE NO. AND INTERVAL	% Sn	% W	% MoS	% TOTAL Mo AS MoS_2	TOTAL	SCH.	POWEL.	MoS_2	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Coss.	Sph	Fluor.	Po	Wolf.
		80		8	100							7					2									
290				24	100		64679		0	1		25					23				Tr				Tr	
292				11	100							11					3								Tr	
294	CH			8	100							12					4									
296		55		11	100							8					2								Tr	
298		60		10	100							9					2								Tr	
300				12	100		64680		25	1		5					1								1	
302		60		9	100							4													Tr	
304	SP			8	100							8													1	
306		70		9	100							12							100						Tr	
308	SK			9	100							2	Tr												Tr	
310	SK			10	100		64681		560	2		2														
312				7	100							4														
314	SP			11	100							7														
316				9	100							10									Tr				Tr	
318				7	100							8													Tr	

NOTES

288.50-292.10 core is cut by numerous calcite veinlets, usually at 0°-30° to the core axis. chlorite-phyllite foliation is crenulated.

300.54-300.99 large quartz-chlorite-pyrrhotite vein

300.99-309.32 spotted muscovite-chlorite-phyllite with biotite porphyroblasts and is cut by quartz-chlorite-pyrrhotite veins.

309.32-309.60 quartz-garnet-diopside skarn with minor phyllite layers trace scheelite in the skarn (disseminated)

309.60-310.60 spotted chlorite-phyllite, cut by barren quartz-chlorite veins.

310.60-311.30 quartz-garnet-diopside skarn

311.30-323.08 spotted chlorite-phyllite with trace disseminated pyrrhotite. the core is cut by quartz veins containing minor pyrrhotite and pyrite. the phyllite has 5% calc-silicate layers mainly at 318.00 m with quartz-diopside?-pyrrhotite.

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80- 2
SHEET 13 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS					
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO. AND INTERVAL	% Sn	% W	% Mo	% TOTAL Mo AS MoS2	TOTAL	SCH.	POWEL.	MoS2	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Coss.	Sph	Fluor.	Po	Wolf.
	SP			4	100		64682		5	1		4													Tr	
322	SK			13	100							4	Tr						100						Tr	
324		55		7	100							3													Tr	
326				9	100							4														
328	SP	65		14	100							3														
330	SK			10	100		64683		20	2		2	Tr						100							
332	SP SK			5	100							2														
334		60		10	100							6													Tr	
336	SP			9	100							9					1								Tr	
338				6	100							4					2								Tr	
340		50		10	100		64684		0	5		6													Tr	
342	GT			7	100							3														
344				6	100							3													Tr	
346	SP			10	100							5													Tr	
348				9	100							1							100							
350	CA			4	100		64685		125	5		3			1				100						Tr	

NOTES

323.08-323.46 garnet-diopside(?) skarn with disseminated pyrrhotite grains up to 2 cm, cut by a quartz-epidote vein. contains disseminated trace scheelite

323.46-331.40 spotted chlorite-muscovite-phyllite with minor siliceous layers. the rock is cut by quartz veins containing trace to 2% pyrrhotite and trace chalcopyrite. foliation is folded and crenulated in places.

331.40-331.70 quartz-garnet-diopside skarn. skarn is composed of fine grained sugary quartz, fine grained diopside and garnet rich pods. the garnet is pink. ← skarn also contains 5% epidote and disseminated trace scheelite

331.70-332.06 spotted chlorite-muscovite-phyllite

332.06-332.76 quartz-garnet-diopside skarn, same as 331.40-331.70

332.76-343.58 spotted chlorite-muscovite-phyllite with siliceous and skarn bands (5%)
340-342 several quartz veins have muscovite selvages. pyrrhotite is mainly confined to the chlorite-pyrrhotite veinlets.

343.58-343.98 quartz-garnet-diopside skarn with 10% spotted phyllite partings

343.98-348.34 spotted chlorite-muscovite-phyllite with silicic bands. most of the pyrrhotite is disseminated in the phyllite. spotted phyllite has 10% skarn bands from 347.64-348.34

348.34-362.80 calc-silicate rock with 10% garnet skarn and 15% spotted phyllite bands. calc-silicate is composed of quartz (70%), diopside (20%), and wollastonite? (10%). quartz vein with 0.5% molybdenum at 351.60. trace disseminated moly

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80- 2

SHEET 14 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS						NOTES
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO. AND INTERVAL	% Sn	% WO_3	% MoS_2	% TOTAL Mo AS MoS_2	TOTAL	SCH.	POWEL.	MoS_2	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Cass.	Sph	Fluor.	Po	Wolf.	
																											occurs in the garnet-skarn layers. garnet skarn composed of garnet, diopside, epidote, also contains disseminated trace scheelite.

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80-2
SHEET 15 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS					
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO. AND INTERVAL	% Sn	W PPM	MoS_2 PPM	% TOTAL Mo AS MoS_2	TOTAL	SCH.	POWEL.	MoS_2	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Cass.	Sph	Fluor.	Po	Wolf.
				12	100							4	1						20	80					Tr	
354		55		7	100							4							100						Tr	
356	CA			6	100							2					1		100						Tr	
358				7	100							12			1		8		100							
360				11	100		64601 2m		30	4		2							100							
362				6	100		64602 2m		48	14		3							100						Tr	
364		80		8	100		64603 2m		1400	32		3							100							
366	SK			11	100		64604 2m		70	19		3							100							
368				8	100		64605 2m		160	8		2														
370				8	100		64606 2m		100	12		1														
372	SP SK PH			11	100		64607 2m		50	7		1							100						Tr	
374	SK PH			10	100		64608 2m		70	4		1							100				Tr		Tr	
376	SK			12	100		64609 2m		2200	15									100						Tr	
378	PH			11	100		64610 2m		60	12									100						Tr	
380	SK PH			8	100		64611 2m		500	324		1							100				1		Tr	
382	GT	55		8	100		64612 2m		1400	710									100				1		Tr	

NOTES

352.65-	8 cm quartz vein with 10% scheelite. scheelite grains up to 1½ cm in diameter.
356.00-	10 cm zone of calc-silicate with 2% pyrrhotite and ~ 0.5-1% molybdenum
358.85-	2 cm quartz vein with 0.2% molybdenum as very small blebs
359.00-359.70	a series of narrow calcite veinlets cut the core
362.80-363.67	spotted chlorite-muscovite phyllite with 5 cm quartz vein at 363.37. trace scheelite disseminated in minor skarn layers.
363.67-371.60	garnet skarn alternating with quartz-diopside skarn layers. skarn has 10% spotted phyllite partings and 5% wollstonite-garnet-diopside skarn layers. skarn contains trace disseminated molybdenum and trace disseminated scheelite (often at the boundary of different skarn types). skarn formation follows original bedding.
371.60-372.60	spotted chlorite-muscovite-phyllite with contorted bedding and 5% skarn layers.
372.60-373.08	garnet skarn with diopside-epidote-calcite-galena?
373.08-373.68	grey phyllite with siliceous layers and contorted bedding. phyllite has minor skarn zones.
373.68-374.93	quartz-diopside-garnet skarn with trace galena and sphalerite and 30% phyllite partings. trace scheelite in the skarn.
374.93-376.48	grey phyllite with 20% skarn layers and disseminated trace scheelite
376.48-378.60	quartz-diopside-garnet skarn with 30% phyllite and trace to 0.1% disseminated scheelite
378.60-380.53	grey phyllite

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80-2
SHEET 16 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS					
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO. AND INTERVAL	% Sn	W PPM	Mo PPM	% TOTAL Mo AS MoS2	TOTAL	SCH.	POWEL.	MoS2	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Cass.	Sph	Fluor.	Po	Wolf.
386	GT			5	100		64613 2m		250	26									100				Q2		Tr	
388	WS			13	100		64614 2m		360	143									100				Q2		Tr	
390				8	100		64615 2m		300	26									100				Q2		Tr	
392				7	100		64616 2m		240	21									100				Q2		Tr	
394	BR	70		9	100		64617 2m		360	45									100						Tr	
396	SK BR			8	100		64618 2m		900	14									100							
398	SK			7	100		64619 2m		600	8									100							
400	MA			13	100		64620 2m		200	9									100							
402	SK MA SK MA			10	100		64621 2m		360	8									100							
404				9	100		64622 2m		240	10									100							
406	SK			9	100		64623 2m		240	11									100							
408				17	100		64624 2m		240	11		1							100							
410				23	100		64625 2m		700	62									100							
412	SP	80		11	100		64626 2m		360	21									100							
414				9	100		64627 2m		160	17		1							100							
	SK			12	100		64628 2m		240	206		2					1		100		Tr					

NOTES

380.53-381.20 diopside-garnet skarn with trace galena, sphalerite, and disseminated trace scheelite.

381.20-381.66 grey phyllite

381.66-384.05 garnet skarn with 2% galena, 1% sphalerite, 0.0X% molybdenum, 0.3% scheelite. skarn is composed of:
pink garnet 60%
diopside 20%
wollastonite 10% (as white layers)
quartz 5%
epidote 5%
sulphide minerals occur in 0.3-1.5 mm grains

Note: Sch estimates high by a factor of 10

384.05-391.50 wollastonite-garnet with calcite-garnet bands. rock contains 0.5% galena, 0.2% sphalerite, 0.0X% molybdenum (concentrated in garnet skarn layers) and 0.1% disseminated scheelite and trace powellite.

391.50-393.85 dark grey, graphitic hornfelsed phyllite with minor biotite porphyroblast development and 5% quartz-diopside bands. foliation is locally contorted and crenulated and the rock has been partially recrystallized. contains trace disseminated scheelite.

393.85-395.60 skarn composed of wollastonite, garnet, diopside calcite; with 10% hornfelsed phyllite layers. and 0.0X% disseminated scheelite.

395.60-396.00 dark grey hornfelsed phyllite

396.00-398.08 wollastonite-garnet-diopside skarn with 30% hornfelsed phyllite layers and 0.1% disseminated scheelite and trace powellite.

397.72 reduced to BQ from NQ.

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80- 2
SHEET 17 OF 22

	1:200 GRAPHIC LOG						ASSAY DATA					VEINS							% MODE W		% MINERALS						
DEPTH METRES	LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	SAMPLE NO. AND INTERVAL	% Sn	% W	% MoS_2	% TOTAL Mo AS MoS_2	TOTAL	SCH.	POWEL.	MoS_2	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Cass.	Sph	Fluor.	Po	Wolf.	NOTES
																											398.08-399.28 fine grained grey marble with 5% phyllite layers and minor epidote-calcite skarn layers and disseminated trace scheelite.
																											399.28-400.44 diopside-garnet skarn with epidote-calcite skarn layers and disseminated pyrite. trace scheelite
																											400.44-400.71 grey marble with disseminated trace scheelite
																											400.71-401.30 diopside-garnet skarn with disseminated trace scheelite
																											401.30-402.20 grey marble with disseminated trace scheelite
																											402.20-409.78 skarn composed of diopside-garnet-wollastonite-epidote with 5% phyllite layers and 0.1% disseminated scheelite and trace powellite.
																											409.78-413.40 spotted phyllite with 30% skarn bands and 5% hornfelsed phyllite layers. foliation is folded and crenulated. phyllite contains trace disseminated scheelite and powellite.
																											413.40-416.66 diopside-garnet skarn with 20% spotted phyllite bands and trace disseminated scheelite.

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80-2
SHEET 18 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS					
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES	%		SAMPLE NO AND INTERVAL	% Sn	W PPM	MoS2 PPM	% TOTAL Mo AS MoS2	TOTAL	SCH.	POWEL.	MoS2	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Cass.	Sph	Fluor.	Po	Wolf.
418	SK			7	100		64629 2m		50	20		4					4		100							
420				8	100		64630 2m		100	10		2					2		100							
422	SP			7	100							.2							100							
424				6	100														100							
426				10	100														100							
428				7	100														100						Tr	
430		75		8	100														100	70					Tr	
432				9	100		64686		5	4									100						Tr	
434				9	100														100						1	
436				12	100														100						1	
438	BR			9	100														100						Tr	
440				10	100							1							100						Tr	
442		70		9	100		64687		5	5		1							100						Tr	
444				6	100														100						Tr	
446				11	100														100						Tr	
				8	100							1					1		100						Tr	

NOTES

416.66-431.69 partially recrystallized spotted phyllite with minor skarn layers and 15% silicic bands. the core is cut by a few calcite veinlets, that cut the core at 0°-40° to the core axis. phyllite contains trace disseminated scheelite pyrrhotite-scheelite veinlet at 429.35.

431.69-468.48 hornfelsed chlorite phyllite with some spotted phyllite bands, 10% silicic bands and 5% diopside skarn bands. disseminated pyrrhotite occurs in the skarn bands. the foliation is folded in many places. single, isolated *scheelite grains occur as trace disseminated* grains in the phyllite. the core is cut by irregular pyrrhotite veinlets, and calcite veins.

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80- 2
SHEET 19 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS					
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO. AND INTERVAL	% Sn	% WO$_3$	% MoS$_2$	% TOTAL Mo AS MoS$_2$	TOTAL	SCH.	POWEL.	MoS$_2$	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Cass.	Sph	Fluor.	Po	Wolf.
				10	100							2					1		100						Tr	
450		60		9	100		64688		5	26		2					2		100						Tr	
452				13	100																				Tr	
454				10	100							2					1								Tr	
456				8	100							1					1								Tr	
458		60		8	100																				Tr	
460	BR			7	100		64689		30	25									100						Tr	
462				13	100							1					1		100						Tr	
464		60		10	100							3							100						Tr	
466				7	100							2					1		100						Tr	
468				7	100														100						Tr	
470		70		28	100		64690		10	45		3					2		100		Tr				Tr	
472				11	100							2							100						Tr	
474				11	100							4					3		100						Tr	
476		60		14	100							3					1		100				Tr		Tr	
478				16	100							2					2		100						Tr	

NOTES

468.48-468.96 calcite-chlorite rock section of hornfelsed phyllite.

468.96-485.20 fine grained hornfelsed chlorite-phyllite with minor talc? at 470.47-471.40. phyllite contains trace scheelite and powellite. core is cut by a 1 cm quartz vein containing trace galena and sphalerite at 476.15 and a quartz galena vein at 476.75. hornfelsed phyllite contains 10% siliceous bands and is cut by a series of narrow calcite veinlets from 475.60 to 476.46. the foliation is well preserved but is often crenulated and tightly folded. rock is brecciated from 482.00 to 482.30. breccia is composed of phyllite fragments in a calcite matrix. rock is 80% silicic bands from 482.30 to 482.90. trace galena in a quartz-calcite band at 484.30.

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80- 2
SHEET 20 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS					
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO. AND INTERVAL	% Sn	W	% MoS₂	% TOTAL Mo AS MoS₂	TOTAL	SCH.	POWEL.	MoS₂	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Cass.	Sph	Fluor.	Po	Wolf.
				12	100		64691		15	26		2					1		100		Tr				Tr	
482	BR			17	100							3					2		100						Tr	
484				12	100														100		Tr				Tr	
486	MA	65		9	100														100		Tr				Tr	
488				6	100														100		Tr				Tr	
490	MG			11	100		64692		0	67									100				Tr	Tr	Tr	
492		35		6	100							1							100						Tr	
494	MA			8	100														100						Tr	
496				5	100							1					1		100				Tr		Tr	
498		80		4	100														100						Tr	
500				5	100		64693		20	13																
502				6	100							4							100							
504				8	100														70	30						
506				9	100																					
508		85		10	100							1					1									
510				6	100		64694		15	5																

NOTES

485.20-488.46 medium grained marble with disseminated pyrrhotite and pyrite and minor diopside? original bedding still visible. contains trace scheelite (very minor)

488.46-492.12 medium grained marble with 5% pink garnet up to 2 cm in diameter. quartz band 8 cm wide with trace fluorite, and disseminated sphalerite, galena, and pyrrhotite; at 490.20. contains trace scheelite

492.12-504.35 medium grained marble with colour bandings. contains trace scheelite. marble contains 5% diopside, and 5% diopside and diopside-garnet skarn. rock contains very minor disseminated scheelite and powellite. 2 cm quartz-calcite-galena? vein at 493.23 3 cm calcite-fluorite vein at 497.25.

504.35-508.56 medium grained marble with 5% pink garnet porphyroblasts up to 2 cm. garnet concentrates into garnet skarn with chlorite, epidote and vesuvianite? marble contains 10% diopside calcite-scheelite veinlet at 504.85.

508.56-513.42 medium grained marble with 5% epidote skarn layers. epidote skarn contains trace galena and pyrrhotite.

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80-2

SHEET 21 OF 22

DEPTH METRES	1:200 GRAPHIC LOG LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA SAMPLE NO. AND INTERVAL	% Sn	W	% Mo	% TOTAL Mo AS MoS_2	VEINS TOTAL	SCH.	POWEL.	MoS_2	LARGE QTZ-WO	CAL.	PY-SER	% MODE W DISS.	VEIN	% MINERALS Py	Cass.	Sph	Fluor.	Po	Wolf.
514	MA			7	100														100							
				13	100														100							
516				9	100														100							
518		90		6	100														100							
520				16	100		64695		25	11									100							
522				8	100														100				Tr			
524	EP	90		9	100														100						Tr	
526	MA			7	100														100						Tr	
528	EP			10	100														100						Tr	
530	MA			8	100		64696		15	7									100						Tr	
532	SK			11	100														100						Tr	
534	MA			12	100							2					1		100						Tr	
536				15	100							1					1		100						Tr	
538		90		12	100							2					2		100						Tr	
540				11	100		64697		10	6		2					1		100						Tr	
542	SK			13	100														100							

NOTES

513.42-516.81 medium grained marble with 5% diopside and very minor disseminated scheelite (only a few specks per metre)

516.81-524.39 medium grained marble with 10% epidote skarn layers quartz-chlorite-sphalerite vein at 522.50.

524.39-525.25 calcite-epidote skarn with trace disseminated galena.

525.25-529.04 medium grained marble with 10% hornfelsed phyllite partings and 5% epidote skarn layers, and trace disseminated scheelite.

529.04-529.44 calcite-epdiote skarn

529.44-531.25 medium grained marble with 2% wollastonite-epidote skarn and 5% phyllite partings.

531.25-532.54 skarn composed at calcite, diopside, garnet and epidote.

532.54-534.98 medium grained grey marble with 10% phyllite partings, 5% siliceous layers and minor garnet-epidote-diopside skarn layers. core is cut along its axis by a 1 cm epidote veinlet from 534.10 to 534.54. marble contains trace disseminated scheelite

534.98- medium grained grey marble with 10% hornfelsed phyllite partings and 5% siliceous bands, and trace disseminated scheelite.

543.56-544.45 calcite-diopside-epidote skarn with trace galena

AMAX MINERALS EXPLORATION

BOULDER CREEK PROJECT

D.D.H. BC-80- 2
SHEET 22 OF 22

DEPTH METRES	1:200 GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS							% MODE W		% MINERALS					
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO AND INTERVAL	% Sn	% W	% MoS2	% TOTAL Mo AS MoS2	TOTAL	SCH.	POWEL.	MoS2	LARGE QTZ-WO	CAL.	PY-SER	DISS.	VEIN	Py	Cass.	Sph	Fluor.	Po	Wolf.
	SK MA			6	100							1					1									
546	SK			10	100							1					1									
548				9	100							3					3									
550				7	100		64698		0	19		1					1									
552	MA			9	100																					
554				12	100																					
556	HF			8	50							1					1							Tr		
558				17	24																					
560	CH																									
562																										
564																										
566																										
568																										
570																										
572																										
574																										

NOTES

544.45-545.58 medium grained grey marble.

545.58-552.00 skarn composed of epidote-garnet-diopside with 30% grey marble and minor wolframite-diopside-calcite skarn bands. the epidote rich skarn bands contain trace galena.

552.00-553.62 medium grained marble.

553.62-556.05 medium grained marble with 30% epidote skarn.

556.05-559.31 dark grey hornfels with 5% diopside? 8 cm calcite-fluorite vein at 556.50.

559.31-560.83 dark green chlorite-phyllite. phyllite is very soft, and deteriorates to pebbles

Terminal Depth of Hole = 560.83

APPENDIX IV

CONTRACTOR'S INVOICES

Contract Diamond
10 - 12th Avenue,
Whitehorse, Yukon
Y1A 4J4

Phone 403 633 2834

AMAX
RECEIVED
JUN 26 1980
VANCOUVER OFFICE

Invoice #159
June 16, 1980

IN ACCOUNT WITH:

AMAX of Canada Limited
601 - 535 Thurlow Street
Vancouver, B.C.

Drilling charges June 2-15, 1980 (Boulder Creek Project).

Mobilization Charge (re: Clause 11 of Contract)			
½ of $3,400.00 =			$ 1,700.00
Moving In (from Mile 701)			
Labour			
206 man hrs. @ $16.40 per hr. =	S/B 86810	$ 3,378.40	
Truck			
3 days @ $50.00 per day (4x4) =	$ 150.00		
10 hrs. @ $25.00 per hr. (5 ton) = 86940	250.00	400.00	3,778.40
Hole: 1x80xNQ			
Mud & Circulation Time			
34 man hrs. @ $16.40 per hr. =	$ 557.60		
17 machine hrs. @ $7.50 per hr. =	127.50	$ 685.10	
Casing			
0-62=62 ft. @ $23.95 (NW) per ft. =		1,484.90	
Coring			
11-500=489 ft. @ $21.75 per ft. =	$10,635.75		
500-1000= 500 ft. @ $23.00 per ft. =	11,500.00		
1000-1277=277 ft. @ $24.50 per ft. =	6,786.50	28,922.25	31,092.25
Board (Company representative)			
June 7-15/80, 9 days @ $15.00 per day = 86920			135.00
Supplies Chargeable			
8 only bags Quik-Gel A $10.25 ea. =		$ 82.00	
11 only bags Quik-Trol @ $9.70 ea. =		106.70	
8 only pails Poly-Drill @ $156.00 ea. =		1,248.00	
30 only NQ core boxes @ $6.95 ea. =		208.50	
16 only BQ core boxes @ $6.75 ea. =		108.00	
25 only BQ/NQ lids @ $2.45 ea. =		61.25	1,814.45
Third Party Charges (Helicopter fuel)			
June 4/80 Whitepass Inv. #737063 8.570			
225 gals. JP-4		$ 296.98	

CK 19988 JUL 11 1980

Page 1 of 2

Contract Diamond Drilling

10 - 12th Avenue,
Whitehorse, Yukon
Y1A 4J4

Phone: 403 - 633-2834

Invoice #159 (Cont).

June 17/80 Whitepass Inv. #233804 180 gals. JP-4 =	86840	$ 237.60	$ 534.5
Transportation Charge: Truck JP-4 (F. Doering) Whitehorse to property, ½ of $200.00 =	86940		100.0
TOTAL INVOICE			$39,154.6

O.K. to pay
Adjustments, if any,
on final invoice.
July 11/1980

ADD & EXT CORRECT
APPROVED
7/11/80

Project Number	Group Code	[illegible] Code	
923		86810	34606.70
923		86840	534.58
923		86920	135.00
923		86940	3878.40
			39,154.68

19988 JUL 11 1980

-N-

LEGEND

6	Quartz-filled phyllite breccia
5	Diabase dyke
4	Quartz Diorite dyke
3	Quartzite
2	Limestone.
1	Phyllite, with or without marble beds

SYMBOLS

- Outcrop
- Geological contact
- Fault
- Foliation
- Bedding (inclined, horizontal)
- Lineation
- Antiformal axis
- Glacial striations
- Bulldozer trench
- Diamond drill hole
- Road
- Stream
- Topographic contour (contour interval 20 metres)

AMAX OF CANADA LIMITED

BOULDER CREEK PROPERTY

WATSON LAKE MINING DISTRICT - YUKON

GEOLOGICAL MAP
DRILL HOLE LOCATION

1600 800 0 800 1600 FEET

400 200 0 200 400 METRES

1:10,000

To accompany 1980 Report by: S. E. Parry.

Vancouver — S.P. Nov. 21/80

G.T.

REVISED Nov. 1980

N.T.S. Ref. 105 B1 and 2

FIG. 3