

LOG NO: NOV 03 1994 RD.

ACTION:

FILE NO:

MOUNTAIN MINERALS COMPANY LTD.

PARSON MINE

ASSESSMENT TECHNICAL REPORT

DIAMOND DRILLING

082N/02E

51° 01' N

116° 39' W



P. Harvey
20, 1994

GEOLOGICAL BRANCH ASSESSMENT REPORT

23,573

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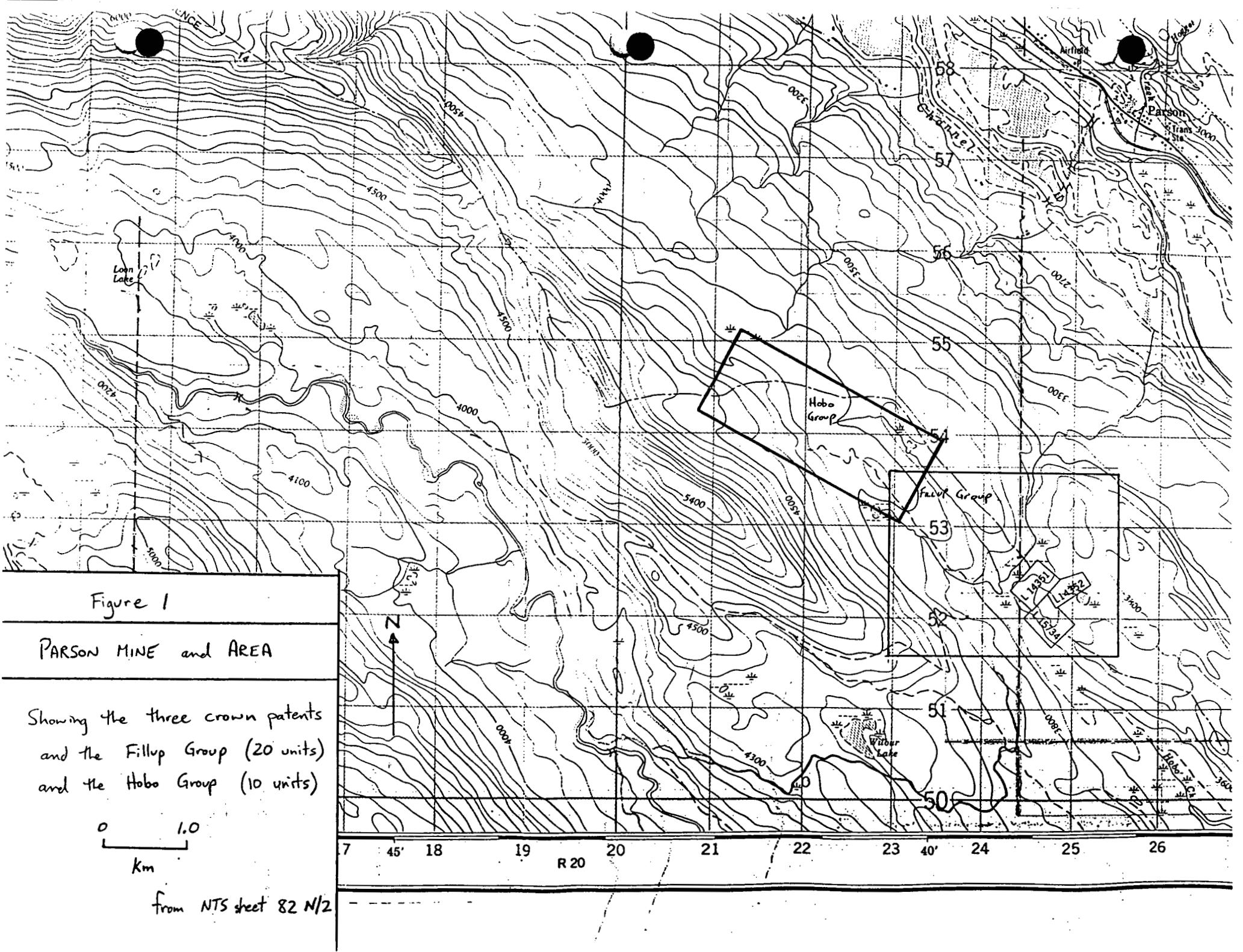
Drill Logs
and
Sections

Introduction

As a part of an underground drilling program at the Parson Mine during September and October, 1994, three holes totalling 864 feet of BQ core were drilled by Kootenay Exploration Drilling Ltd. The purpose of these three holes was to drill test beneath the mine workings and drill through a major fault encountered in the underground workings.

Location

The Parson Barite Mine is located about 6.0 km south of the town of Parson, B.C., about 35 km south of Golden. It is within patents 14351, 14352, and 15734. The Fillup Group (20 units) and the Hobo Group (10 units) have recently been added to enlarge the property (Figure 1).



Geology

The mine occurs within Hamill Formation quartzites, near the contact with Donald Formation slates (Figure 2). It consists of two north - south trending barite veins (the East and West Veins) which are about 300 feet apart at surface. At surface the veins dip at about 45 degrees West, but the dip shallows with depth so at the mine bottom (600 feet below surface) they converge.

Several smaller veins offshoot from and link the two veins (the Central Zone). Underground workings encountered a major fault (North Fault) at several locations in the mine, which has apparently truncated the barite veins (Figures 3 and 4).

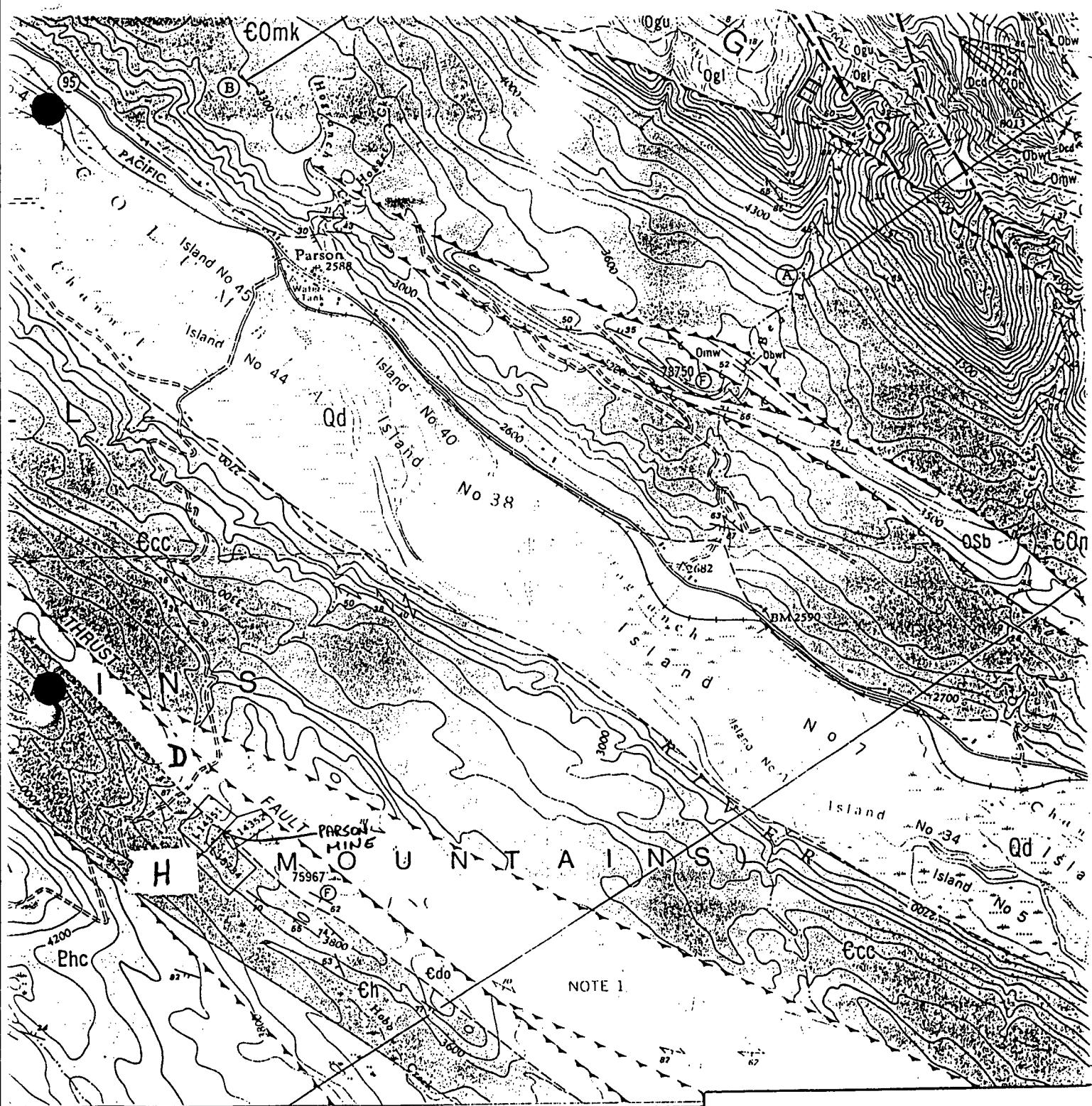


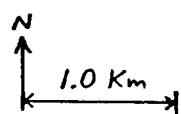
FIGURE 2

GSC MAP 1501A
GEOLOGY

McMURDO

(East Half)

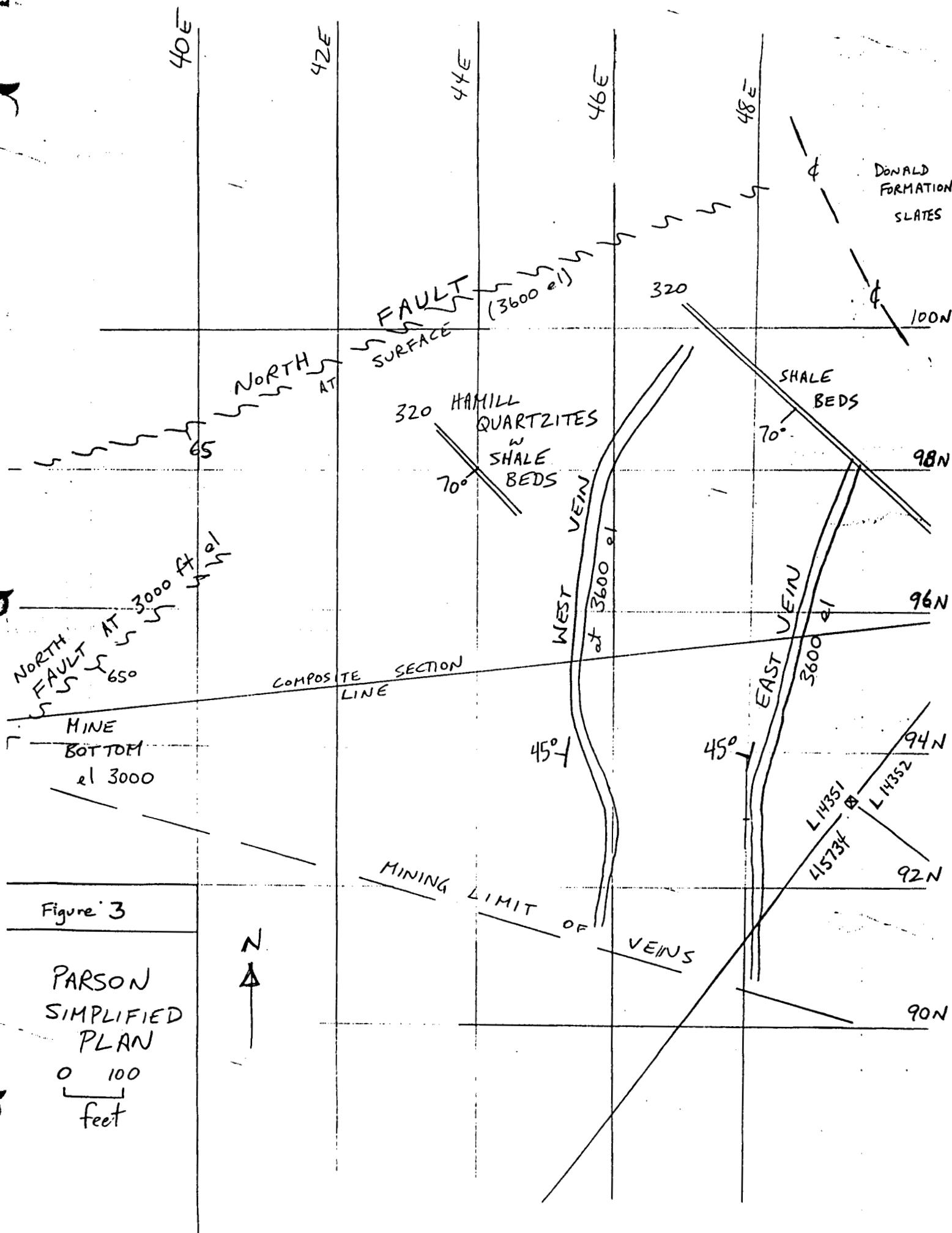
WEST OF FIFTH MERIDIAN
BRITISH COLUMBIA

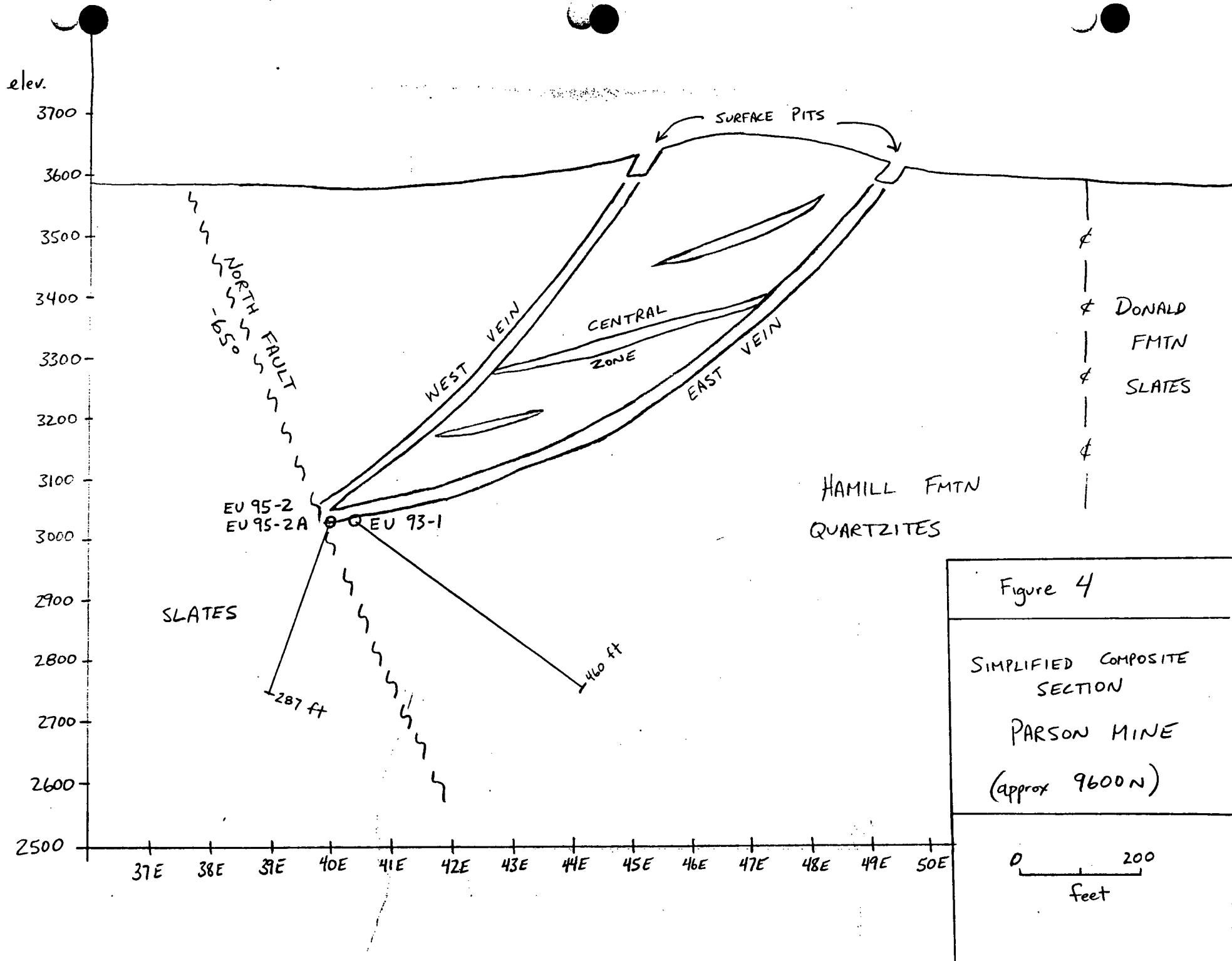


GEOLOGY- PARSON MINE AREA

H- Hamill Formation
Quartzite, sandstone, shale,
siltstone

D- Donald Formation
Slate, siltstone, dolomite,
limestone





1994 Diamond Drill Program

During September and October, 1994, three underground BQ diamond drill holes were drilled to test beneath the known barite veins, as well as test the geology beyond the North Fault (Figure 4).

Hole EU 93-1

This hole was drilled from the bottom of the mine at an azimuth of 060 degrees and a dip of -35 degrees. The purpose was to test for any parallel barite veins beneath the East Vein. Numerous barite stringers were encountered, but the best veins were 2.5 feet with 3.65 S.G. (Specific Gravity) at 108.0 - 110.5 and 1.5 feet with 4.22 S.G. at 303.5 - 305.0. These intersections are considered uneconomic at the present time. The hole was stopped at 460 feet.

Hole EU 95-2

This hole was also drilled from the bottom of the mine, at an Azimuth of 315 degrees and a dip of -70 degrees. The purpose was to test the geology beyond the North Fault. Difficulties were encountered in drilling through the fault, and the hole was abandoned at 117 feet.

Hole EU 95-2A

This hole was drilled from the same location as EU 95-2, and was successful in drilling through the North Fault. Very blocky core with abundant fault gouge material in quartzites was encountered through the fault from the collar of the hole to 147.0 feet. The geology changed to slates from 147.0 feet to 227.0 feet, but the core was still faulted, and filled with calcite-rich breccia. Again, blocky core and fault gouge was common. From 227.0 feet to 287.0 feet (end) the core was a uniform, grey-black calcareous slate.

Conclusions

No economic barite veins were encountered with hole EU 93-1, designed to test the area of the mine beneath the lowermost vein (the East Vein).

Drilling through the North Fault indicated that the fault is a thick zone of rubble and gouge, and the geology beyond the fault consists of a uniform, grey-black calcareous slate. This unit may be part of the nearby Donald Formation.

STATEMENT OF QUALIFICATIONS

I, Peter G. Harvey, of the City of Timmins, Province of Ontario, do hereby certify that:

- 1 I received a B.Sc. degree (Honours) in Geology from Lakehead University, Thunder Bay, Ontario, in 1985.
- 2 I have been employed as a geologist by various mining companies in Ontario since 1985.
- 3 I am the author of this report.
- 4 I have no direct interest, nor do I have any shares of any company exploring the properties described in this report, nor on any adjacent or surrounding properties.

Peter G. Harvey

Person, B.C.

Oct 18, 1994

APPENDIX

DRILL LOGS
and
Sections

Drill Hole Log

COMPANY	MOUNTAIN MINERALS	PROPERTY	PARSON	Section No.	93-95 N	HOLE NO.	EU 93-1	
				Peter Harvey				
From	To	RECOVERY	Graphic Log	DESCRIPTION	Sample No.	From - To	Interval	ASSAY
Footage	Interval	Ft.	%					
0	7	90		<u>Breccia</u> - Collected into quartz-barite breccia fragments 1-3"				
7	101	95		<u>Quartzite</u> - black med-coarse grained, foliation at 45° CA, shale beds <1" common, few barite veinlets at high angle to foln as noted.				
				13.5 6" Barite 24.5 6" Barite 25.0 - 27.0 Green shale bed 32.0 3" Barite 55.0 - 60.0 Weak breccia - qtz+barite				
				72.0 - 75.0 Bleached creamy white interval with 2" qtz vein w 10% pyrite 75.0 - 101.0 Numerous 1-6" shale beds, few <2" veins				
101	104	95		<u>Breccia</u> - qtzite-shale breccia infilled w barite				
104	108	95		<u>Quartzite</u> - finer grained, darker black than above, cut by 1x6"; 1x3" Barite veins				
108	110.5	95		<u>BARITE</u> - massive, coarse, minor quartz and shale fragments. Vein at 50° CA; 90° to foln.	5605	108.0 - 110.5	2.5	3.65
110.5	303.5	95		<u>Quartzite</u> - finer grained, darker colour than at 7-101, less than 1% <1" veining cuts unit. About 1-2" shale beds throughout.				
				152 - fine pyrite in shale beds				

Drill Log

page 2

COMPANY

PROPERTY PARSON

Section No.

EU 93-1
HOLE No.

Dated Sept 20 '94

Bearing

Lat.

Collar El.

Logged by

Date

Completed

Angle from Horiz.

Dep.

Bottom El.

Remarks

After Kootenay Ex. Drilling

Length

Location

Level

Footage	Interval	RECOVERY		Graphic Log	DESCRIPTION	Sample No.	From - To	Interval	ASSAY		
		From	To						Ft.	%	
					204.0; 207.0 Minor faults/slips - with gage 242 Vuggy qtz vein; 1" at 45° Core Axis 290 3" Vein - qtz 293 2" Barite (on margin) and qtz 300 - 303.5 Breccia - irreg ½" Bar Veins in qtzite						
303.5	305.0		90		<u>BARITE</u> - upper contact is Fault gage, lower at 30° CA. Coarse, crystalline, blocky.	5606	303.5 - 305	1.5	4.22		
305.0	311.0				<u>Quartzite</u> - as above, few shale beds < 6"						
311.0	316.0				<u>Shale</u> - Grey-green shale, bedding at 60° CA; trpy.						
316.0	405.5		95		<u>Quartzite</u> - typical, black med-coarse grained as above, < 5% shale beds 2-4" scattered throughout; So 50-60° 319, 324, 335 - 1-2" wavy qtz veins with 10% barite crystals. Ven 10-30° CA						
405.5	406.5		95		<u>Contact Zone</u> mixed interval w/ quartzite as above and fine grained mudstone as below, angular slate frags and < ½" py as irregular beds and masses. Bedding 65° CA. 65° CA						
406.5	437.0		95		<u>Mudstone-Siltstone</u> - very fine grained; pale-dark grey mud with silt layers < 2" throughout. bedding at 65-70° CA. Poorly developed turbidite? 420 - 427 - white-quartzose beds; argon texture, L.I.I. 15° CA						

Drill Hole Log

page 3

COMPANY

PROPERTY PARSON

Section No.

HOLE NO. FU 93-1

Completed	Bearing	Lat.	Collar El.	Logged by	Date				
Length	Angle from Horiz.	Dip.	Bottom El.	Remarks					
Footage	Interval	RECOVERY	Graphic Log	DESCRIPTION	Sample No.	From - To	Interval	ASSAY	
From	To	Ft.	%						
				427-437 - dark grey-black vfy mudstone as above, alternating lighter bands, poor turbidite					
37	456.5			Clastic sediment - quartzite like clastic sediment, quartz grains as typical quartzite above 405.5; but unit mixed with < 1/2" angular slate fragments, random orientation.					
46.5	460.0			Mudstone - black, thinly bedded - as at 406.5 etc. bedding 70° CA. (Shale?)					
	460.0			End.					

el 2975

Az 060
Q Breccia
Quartzite

Breccia
BRECCIA
BREITE SG = 3.65

Quartzite

BARITE
Quartzite
Shale
SG = 4.22

Quartzite

CONTACT
Hudstone
zone
Clastic
Hudstone
Sediment
Az 060 End

PARSON MINE

SECTION EU 93-1

0 100
feet

P Harvey Oct 1994

Drill Hole Log

COMPANY MOUNTAIN MINERALS

PROPERTY PARSON

Peter Harvey
Section No.

HOLE No EU95-2

Started Oct 1 '94	Bearing 315	Lat. 9520 N	Collar El. 3005	Logged by P Harvey	Date Oct '94
Completed Oct 6 '94	Angle from Horiz. -70°	Dip. 3915 E	Bottom El.	Remarks Test below North Fault-hole abandoned. Lost water at 11'	
Driller Kootenay	Length 117 ft.	Location 95-39 RAMP 1 Level			

Footage	Interval	RECOVERY	Graphic Log	DESCRIPTION	Sample No.	ASSAY			
						From	To	Interval	
From	To	Ft.	%						
0	11.0	50		<u>BARITE</u> - Rubble core; barite and 10% wallrock as ground core; not sampled.					
11.0	26.0	80		<u>BRECCIA</u> - quartz-quartzite breccia, minor barite and few veins; irregular, stockwork; 30' of quartzite through interval, gauge at 22.0 brecciated green shale 22.0-26.0					
26.0	77.0	95		<u>QUARTZITE</u> - typical - med-coarse grained; blue quartz eyes; cut by qtz-carbonate veining minor barite at 30° CA; generally $\frac{1}{2}$ to 2" True width; 3-5% veins in interval. Blocky 42-49. 61.0-64.0 - Green shale, bedding 50° CA; few slips 64.0-77.0 - A few slips and minor gauge; and vuggy intervals. Through quartzite					
77.0	117.0	80		<u>FAULT ZONE</u> in Quartzite. 77-82.0 gauge in shale beds 87-95.0 blocky, rubble grey quartzite 97.0-105.0 blocky, rubble, and gauge sections $\leq 1"$					
				105-117.0 blocky, fault gauge; 5% veining, random; $\leq 1"$ wide.					
117.0				END - Hole abandoned - could not drill through fault. Core barrel and rod lost down hole.					

PARSON MINE

SECTION EU 95-2

0 100

feet

P Harvin

Oct '94

Az 315°

el 3005

BARITE
Breccia

Quartzite

Fault
Zone

117 feet
End

(Hole Abandoned)

Drill Hole Log

COMPANY MOUNTAIN MINERALS

PROPERTY PARSON

Section No.

HOLE NO. EU 95-2A

P1
Peter Harvey.

Entered Oct 12 '94	Bearing Az 315	Lat. 9515 N	Collar El. 3005	Logged by P Harvey	Date Oct 15 '94
Impacted Oct 15 '94	Angle from Horiz. -70°	Dip. 3920 E	Bottom El.	Remarks Test below fault.	
Hor. Kootenay	Length 287 feet.	Location 95-39 Ramp.	Level		Lost water at 11 feet.

Footage From	Interval To	RECOVERY Ft.	Graphic Log %	DESCRIPTION	Sample No.	From - To	Interval	ASSAY	
0.0	10.0	0		CASING - cased fault rubble.					
10.0	18.0	70		<u>BARITE</u> - blocky core; 10% wallrock fragments; breccia; qtz and carb ass. w. barite					
18.0	41.0	90		<u>Quartzite</u> - typical - greyblack, med-coarse grained, few qtz-carb veins ~4" at 30° cd.					
41.0	147.0	80		<u>FAULTZONE</u> in <u>Quartzite</u> - typical grey-black quartzite, blocky and broken core, zones of gouge (sand) common; qtzite cut by 10-20% veins ≤ 1" of qtz and carbonate, random box type veins					
				41-58 blocky; minor gouge					
				58-64 Fault - gouge and mud; barite fragments at 60-61.					
				64-68 Shale bed - fractured + tectonized					
				68-82 quartzite w several zones of fault gouge + slips					
				82-147 quartzite cut by 10-20% veining ≤ 1"; stockwork of qtz carbonate, core more competent; RAD = 50%, zones of gravel and gouge common, esp 127-142 were core is mixed w shale beds, graphitic, and fragments thereof.					

Drill Hole Log

Page 2

EV 95-2A

COMPANY	PROPERTY			Section No.	HOLE No.				
Started	Bearing		Lat.	Collar El.	Logged by	Date			
Completed	Angle from Horiz.		Dep.	Bottom El.	Remarks				
Driller	Length		Location	Level					
Footage	Interval	RECOVERY	Graphic Log	DESCRIPTION	Sample No.	From - To	Interval	ASSAY	
From	To	Ft.	%						
147.0	167.0		80	<u>Fault Zone</u> in <u>Slates</u> ; blocky, RQD = 10%; black, graphitic slate/argillite. Cut by 2-5% Qtz veins < 1".					
167.0	193.0		95	<u>Slate</u> - black, graphitic-argillite (?) - core core high RQD = 80-90%, fine grained; bedding indistinct but generally at 20° CA. Core fractures along bedding - defined by silt layers.					
193.0	227.0			<u>Fault Zone in Slate</u> - similar to 167; but interval cut by strong stockwork of calcite breccia veining and veinlets. Zones of rubble and gouge common - esp 206-212 and 220.					
227	287.0			<u>Slate</u> - grey-black, rhythmically bedded at 20-30° CAxis; very strong + pervasive reaction w HCl - calcareous slate. Reasonably competent; RQD = 80%. w zones b" of blocky core. Graphitic throughout - weakly; fractures on graphitic planes, and blocky sections are also graphitic. Qtz calcite veins 1-6" wide; both parallel and perpendicular to bedding, 2-3" overall.					
	287.0			END.					

PARSON MINE
SECTION EU 95-2A

0 100

P. Harvey Oct '94

