ASSESSMENT REPORT

ON

GEOLOGICAL AND GEOCHEMICAL SURVEY

AND

DIAMOND DRILLING

Group	Claims	Record No.	Total	NTS	Mining District
1	P22	71775	2	94K/4W	Liard
	P24	71777		"	"
2	P20	71773	6	"	"
	P37	71790		"	"
	P39	71792		"	"
	P41	71794		"	"
	Goof 1	71862		"	"
	Goof 4	71865		"	"
3	D2	71809	3	"	"
	D19	71826		"	"
	D21	71828		"	"
4	P19	71772	5	"	"
	P21	71774		"	"
	P23	71776		"	"
	Goof 2	71863		"	"
	D39	71846		"	"
5	D20	71827	3	"	"
	D22	71829		"	"
	D24	71831		"	"
6	D41	71848	1	"	"

Location - 58°04'N Latitude; 125°55'E Longitude

Claims owned by Placer Development Ltd.
Survey operated by Welcome North Mines Ltd. (NPL)
for Gataga Joint Venture (optionee)

Survey performed from May 10 to August 11, 1979 by Archer, Cathro & Associates Ltd.
Report by R.C. Carne, B.Sc. and R.J. Cathro, B.A.Sc., P. Eng.
January 30, 1980

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GATAGA JOINT VENTURE

DRIFTPILE CREEK PROGRAM

ITEMIZED EXPENSES

During 1979, the Gataga Joint Venture performed work on its optioned Driftpile Creek property consisting of a drill program and detailed geological and geochemical surveys. This work was a continuation of exploration initiated during 1978.

This cost statement itemizes those expenditures incurred on the property during 1979. The amount of work performed prior to August 12, 1979, the anniversary of the claims concerned, was estimated at $400,000 in a preliminary report filed August 10, 1979. Final expenditures submitted for assessment credit on the claims total $377,321.33.

Itemized Statement of Expenditures

A. Wages		Days	Rate	
R.C. Carne (Geologist)	April 16-20	5		
	May 10-31	22		
	June 1-30	30		
	July 1-31	31		
	August 1-11	11		
		99	$165/day	$16,335.00
R.F. Gish (Manager)	April 16-20	5		
	May 10-31	22		
	June 1-30	30		
	July 1-31	31		
	August 1-11	11		
		99	$ 90/day	8,910.00
C. Jackisch (Field Assistant)	May 10-31	22		
	June 1-3	30		
	July 1-13	13		
	July 20-22	3		
	July 23-28	7		
	July 30-31	2		
	August 1-5	6		
		83	$ 57/day	4,731.00
C. Norris (Field Assistant)	May 10-31	22		
	June 1-30	30		
	July 1-6	6		
		56	$ 51/day	2,856.00
R. Matthews (Field Assistant)	May 10-31	22		
	June 1-30	30		
	July 1-6	6		
	July 8-14	7		
	July 17-24	8		
	July 27-28	2		
	July 30	1		
	August 1-5	5		
		81	$ 57/day	4,617.00
J. Ogilvy (Field Assistant)	June 21-30	10		
	July 1-13	13		
	July 16	1		
	July 18-23	6		
	July 25-31	7		
	August 1-4	4		
	August 9	1		
	August 11	1		
		43	$ 51/day	2,193.00

A. Wages (cont)

D. Wickham (Field Assistant)	July 6	1		
	July 8-13	7		
	July 18-21	4		
	July 23	1		
	July 27-31	5		
	August 1-11	11		
		29	$81/day	$ 2,349.00
J. Dennett (Warehouseman)	May 5-8	4		
	August 10	1		
		5	$63/day	315.00
				$42,306.00

B. Food and Accommodation

Whitehorse - Archer, Cathro Staff House ($30/day)

R. Carne: 1 day
R. Gish: 7 days
C. Jackisch: 3 days
D. Wickham: 3 days
J. Dennett: 1 day

15 days @ $30 — $ 450.00

Watson Lake - Belvedere Hotel & Cedar Lodge Motel — 1,150.70

Muncho Lake - J & H Wilderness Lodge — 440.49

Field Accommodation (including 6-man drill crew)

May 10-31	182 mandays
June 1-30	340 mandays
July 1-31	348 mandays
August 1-11	50 mandays
	920 mandays

Groceries — 10,252.05*

Field hardware, camp supplies (including rental), field clothing and lumber — 5,590.62*

$17,883.86

* Related expenses are split 70/30 for work on the Driftpile Creek claim group and nearby Bob 1 claims, respectively, during July and August.

C. Transportation

1. C.P. Air
R. Cathro, R. Carne, R. Gish, C. Jackisch, C. Norris, R. Matthews, J. Ogilvy and D. Wickham flights Vancouver to Whitehorse (return) and misc. flight Whitehorse to Watson Lake — $ 2,340.73

2. B.C. Yukon Air Services Ltd.
(Cessna 185, DeHavilland Otter and Beaver) — 17,783.99

3. Trans North Turbo Air Ltd.
Hughes 500C helicopter (on contract)

Dates	Hours
May 10-May 31, 1979	60.0
June 1-June 30, 1979	91.2
July 1-July 31, 1979	112.0
August 1-August 11, 1979	11.2
	274.4 @ $287/hr (incl. fuel)

78,752.80

4. Freight (C.P. Air, Canadian Freightways, Loiselle Transport)
(includes shipment of samples to lab, mobilization of camp gear, etc.) — 3,093.77

5. Car and Truck Rental — 3,387.94

$105,359.23

D. Instrument Rental

SBX 11 single sideband, radio transceiver
May 10-May 31, 1979
June 1-June 30, 1979
July 1-July 31, 1979
August 1-August 11, 1979 @ $250/month — $ 648.39*

* Related expenses are split 70/30 for work on the Driftpile Creek claim group and nearby Bob 1 claims, respectively, during July and August.

E.(i) Geochemical Survey
4,890 soil samples assayed for Cu, Pb and Zn @ $2.56/sample — $ 12,518.40

E.(ii) Diamond Drilling
1. Direct costs per D.J. Drilling Ltd. invoices for 2,416.1 m of diamond drilling in 21 BQ size drill holes
(a) labour (drill moves, mobilization, etc.)
R. Gibson, M. MacDonald, M. Maxwell, J. Fink, H. Schieweck, W. Gamp - 1039 hrs. @ 16.00/hour — 16,624.00

	(b) BQ size core drilling		
	71.6 m @ $52.32/m =	$ 3,745.82	
	2192.1 m @ $47.57/m =	104,288.96	
	BW size casing drilling		
	152.4 m @ $55.78/m =	8,500.42	
			$116,534.30
	(c) 25 hrs. cementing time @ $45.00/hour		1,125.00
	(d) 38 acid tests @ $25.00		950.00
	(e) Materials consumed		292.76
	(f) Drill crew airfares and travel expenses		3,578.58
2.	Core boxes and core box lids		2,150.88
3.	Diamond saw and saw blades for core splitting		1,820.87
4.	Fuel, grease, solvent, naptha		8,742.07
5.	Assay of diamond drill core		
	(a) 196 samples assayed for Zn @ $5.50	= $1,078.00	
	(b) 36 samples assayed for Pb @ $5.50	= 198.00	
	(c) 57 samples assayed for Pb & Zn @ $11.00	= 627.00	
	(d) 43 samples analyzed for Cu, Pb, Ag @ $3.65	= 156.95	
	(e) 43 samples analyzed for Pb (Hcl digest) @ $1.50	= 64.50	
	(f) 81 samples analyzed for Cu, Pb, Ag @ $2.75	= 222.75	
	(g) 28 samples analyzed for Cu, Zn, Ag @ $2.75	= 77.00	
	(h) 88 samples analyzed for Cu & Ag @ $2.15	= 189.20	
	(i) 84 samples analyzed for Cu, Pb, Zn, Ag @ $3.30	= 277.20	
	(j) 45 samples analyzed for Cu, Pb, Zn, Ag @ $4.25	= 191.25	
	(k) 298 samples prepared for analysis @ $1.75	= 521.50	
			3,603.35
			$155,421.81

F. Office costs to support program (includes final report preparation)

1. Management:	(a) Legal expenses	- $ 3,560.07	
	(b) Administration (Welcome North)	- 4,907.94	
	(c) Management Fee (Archer, Cathro & Assoc. Ltd.)	- 21,500.00	
			$ 29,968.01
2. Postage, Telephone, Petty Cash, Office Supplies			2,539.62
3. Drafting - 198.5 hours @ $16.00/hour			3,176.00
4. Blueprinting and Xeroxing			2,176.86
5. Expediting: (a) Archer, Cathro @ $700/month			
	May 16-31	$350.00	
	June 1-30	700.00	
	July 1-31	490.00*	
	August 1-11	189.68*	
			1,729.68
(b) Yukon Expediting			
	May 10-31	$226.22	
	June 1-30	498.99	
	July 1-31	382.61*	
	August 1-11	85.65*	
			1,193.47
6. Accounting - Archer, Cathro @ $200/month January - December, 1979			2,400.00
			$ 43,183.64
		Grand Total	$377,321.33

* Related expenses are split 70/30 for work on the Driftpile Creek property and nearby Bob claims, respectively, during July and August.

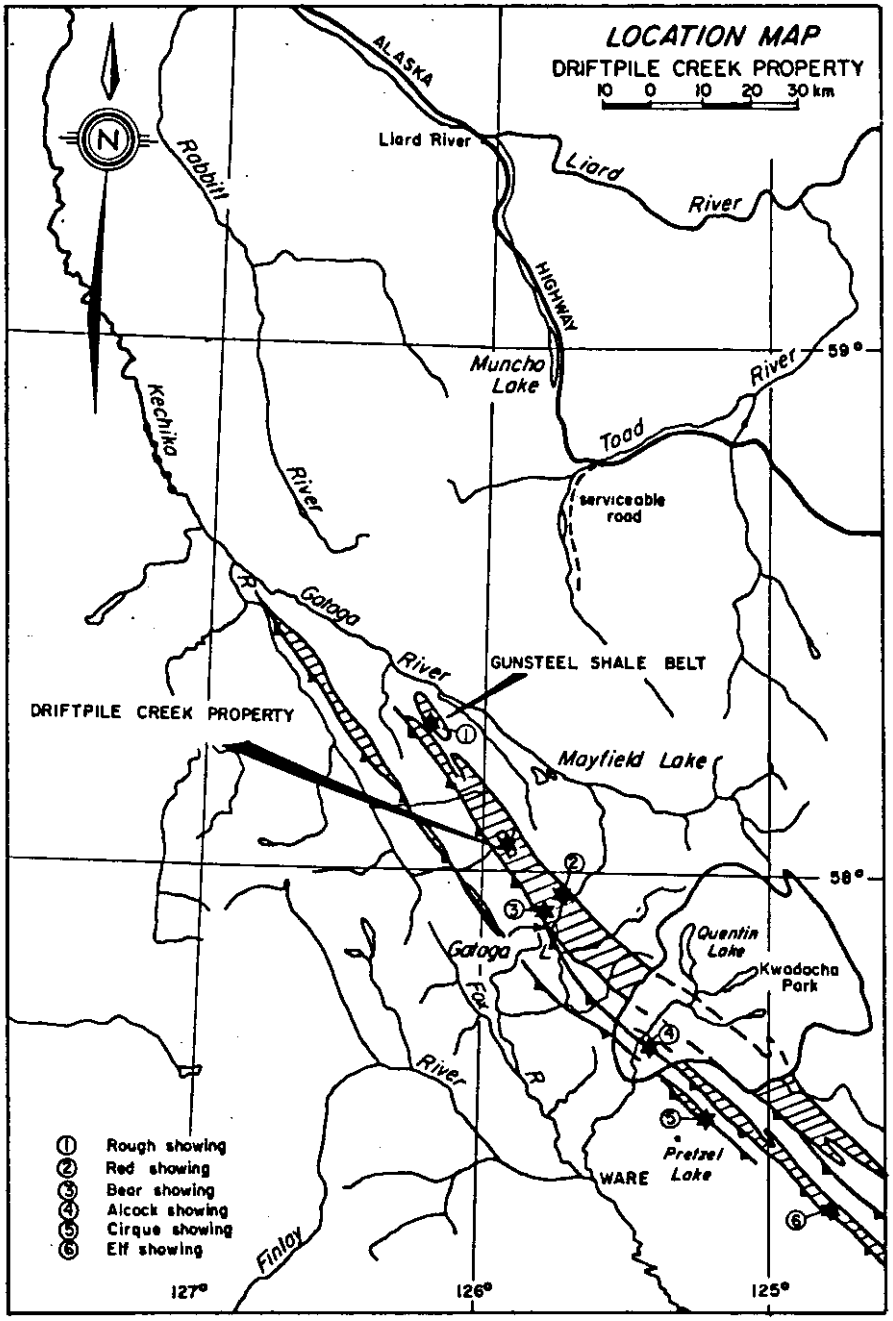

Figure 1: Location map, Driftpile Creek Property

INTRODUCTION

This report summarizes the results of an exploration program during the 1979 field season in the Driftpile Creek area by Gataga Joint Venture (GJV), a syndicate composed of Aquitaine Company of Canada Ltd., Chevron Canada Limited, Getty Mining Pacific Ltd., Welcome North Mines Ltd. and Castlemaine Exploration Ltd. The program was managed by Archer, Cathro and Associates Ltd. and was directed in the field for the third successive season by R.C. Carne. The bulk of the program was performed on claims optioned from a syndicate composed of Placer Development Ltd., Pembina Pipeline Ltd. and General Crude Oil Northern Ltd. This report summarizes work performed on the property between May 10 to August 11, 1979.

LOCATION AND ACCESS

The Driftpile property, located at 58°04'N and 125°55'E, straddles Driftpile Creek about 22 km from its confluence with the Kechika River (Figure 1). Elevations locally range from 1100 m to 2000 m above sea level. Access is by float-equipped, fixed-wing aircraft from Watson Lake, Yukon Territory, about 290 km to the northwest, to Mayfield Lake about 20 km east of the property, and by helicopter from Mayfield Lake to the property. The nearest large town, 210 km to the east, is Fort Nelson which does not have a float plane base. Fuel and camp supplies needed for the 1979 program were trucked 300 km from Watson Lake to Muncho Lake (Km 747 on the Alaska Highway) and ferried 100 km during mid-April, 1979 by ski-equipped, single Otter aircraft to the winter airstrip located 4.5 km east of the property.

HISTORY AND PREVIOUS WORK

The earliest record of mineral exploration in the Gataga River District dates from 1957, when Frobisher Ltd. (Falconbridge) investigated several exotic gossans developed from springs draining Upper Devonian black shales immediately north of Gataga Lakes.

In 1970, Geophoto Surveys conducted a reconnaissance stream sediment survey in the Driftpile Creek area on behalf of a syndicate. In 1973, three members of the syndicate, Pembina Pipeline Ltd., Sun Oil (Delaware) Ltd. and General Crude Oil Co. Northern Ltd., entered a joint venture with Canex Placer Ltd. (now Placer Development Ltd.) to investigate some of the anomalies. Initial prospecting resulted in the discovery of mineralized float on Driftpile Creek in July, 1974 and the staking of 168 "two-post" mineral claims.

During 1974 and 1975, Canex Placer performed geological mapping at a scale of 1:4800, soil geochemical sampling, an EM survey and hand trenching. This work was concentrated within an area 4 km long by 2 km wide. The geological mapping and economic evaluation were inconclusive due to the poor quality of bedrock exposure and inadequate knowledge of regional stratigraphy and structure.

Soil samples were collected at intervals of about 30.5 m (50 feet) on lines 122 m (400 feet) apart and were analyzed for zinc, lead, silver and barium. Both zinc and lead plots showed the presence of strong broad anomalies but sample spacing was not dense enough to sufficiently delineate mineralized zones or drill targets.

A vertical loop "shootback" (Ronka) electromagnetic survey conducted over much of the grid outlined a number of discrete conductors which were assumed to represent pyritic sulphide horizons. Results of later mapping and diamond drilling by GJV showed that these conductors represent surface traces of graphitic shear and fault

zones rather than sulphide bodies. Hand trenching was only partially successful due to extreme oxidation of mineralization and thick overburden cover.

GJV was formed in April, 1977 to investigate unstaked lead anomalies obtained near the Placer syndicate property by Castlemaine in 1976. Prompted by similarities between the geological setting in the Gataga River shale belt and the Macmillan Pass area, Y.T., GJV carried out an extensive regional sampling and mapping program in 1977. Although this program did not discover any new areas of significant mineralization, economic potential of the Driftpile Creek prospect was confirmed. Accordingly, GJV negotiated an agreement to option the Driftpile Creek property from the Placer Syndicate early in 1978.

The 1978 program consisted of detailed geological mapping, detailed soil geochemical sampling, compass and chain surveys to obtain mapping and topographic control on the previously established grid, limited hand trenching and 1016 m (3334 feet) of diamond drilling in 9 holes. This work documented the existence of massive sulphide mineralization in two stratiform bodies separated by about 100 m of unmineralized black shales. Mineralized intersections were obtained over a strike length greater than 2000 m. True thickness of pyritic sulphide horizons intersected by drilling ranged from 11 m to 40 m. The best intersection (DDH 78-07) consisted of 11.7 m of material grading 7.45% combined lead and zinc.

1979 PROGRAM

Soil geochemical surveys, geological mapping and diamond drilling programs initiated on the Driftpile Creek property during 1978 were continued through the 1979 field season under the supervision of R.C. Carne. Soil sampling, surveying,

core splitting and diamond drill site preparation was performed by camp manager, R.F. Gish and assistants John Ogilvy, Clark Jackisch, Randy Matthews, Clay Norris and Dave Wickham.

The drilling program and field work was supported by a Trans North Turbo Air Ltd. Hughes 500C helicopter based at camp. The machine was crewed by pilot/ engineer Neil Aseltine.

Diamond drilling was contracted to D.J. Drilling Co. Ltd. of Vancouver. The drill crew consisted of two 2-man crews, a cook and a first-aid attendant who also assisted with the drill moves and drill site preparation.

A permanent tent frame camp constructed on the property in 1978 was expanded in 1979 to include six sleeping tents, a cook tent, a dry and office tent and a core-logging/supply tent. All but the latter have plywood floors. A large log core rack built in 1978 was enlarged in 1979. Facilities were winterized at the completion of the program so that they can be reoccupied with little effort.

Attempts at obtaining accurate survey control on the property and surrounding areas were hampered during the 1978 and 1979 field seasons by locally high relief and almost total vegetation cover. Existing government airphoto coverage, flown in 1948, is not of sufficient quality to provide mapping control at the scale required for detailed geologic investigation. Aerial photography targets were installed on the property during the 1978 season but poor weather delayed the actual photography until late in the 1979 season. Topographic maps prepared from this photography by McElhanney Surveying and Engineering Ltd. were not completed in time for use during the 1979 field season.

Summary of 1979 Program

(a) Geochemical survey
4,890 soil samples analyzed for Cu, Pb and Zn.

(b) Geological survey
2.5 sq. km mapped for geology at 1:2000 scale.

(c) Drilling program
2,416.1 m of diamond drilling in 21 BQ sized holes.
397 core samples assayed for Ag, Pb, Zn and Cu.

(d) Lines established (all chained, none cut)
baselines - 5.6 km.
cross lines - 58 km.

Claims upon which work was actually performed (Figure 2):

(a) Geochemical survey
P2,4,6,8,23-26,37,39 and 41;
D2,4,6,8,10,21-28,43 and 45; Goof 2,4 and 5.

(b) Geological survey P2,4,6,23,24,37,39,41; D2,4,6,8,10 and 19-24; Goof 2,4 and 5.

(c) Drilling program

Hole 79-10 -P20	79-20 -P37
79-11 -P20	79-21 -P22
79-12 -P20	79-22 -P37
79-13 -P2	79-23 -P22
79-14 -D2	79-24 -P22
79-15 -D37	79-25 -P4
79-16 -D20	79-26 -P4
79-17 -D21	79-27 -P20
79-18 -D21	79-28 -P20
79-19 -D21	79-29 -D4
	79-30 -D39

(d) Lines established
P2,4,6,8,23-26,37,39 and 40;
D2,4,6,8,10,21-28,43 and 45;
Goof 2,4 and 5

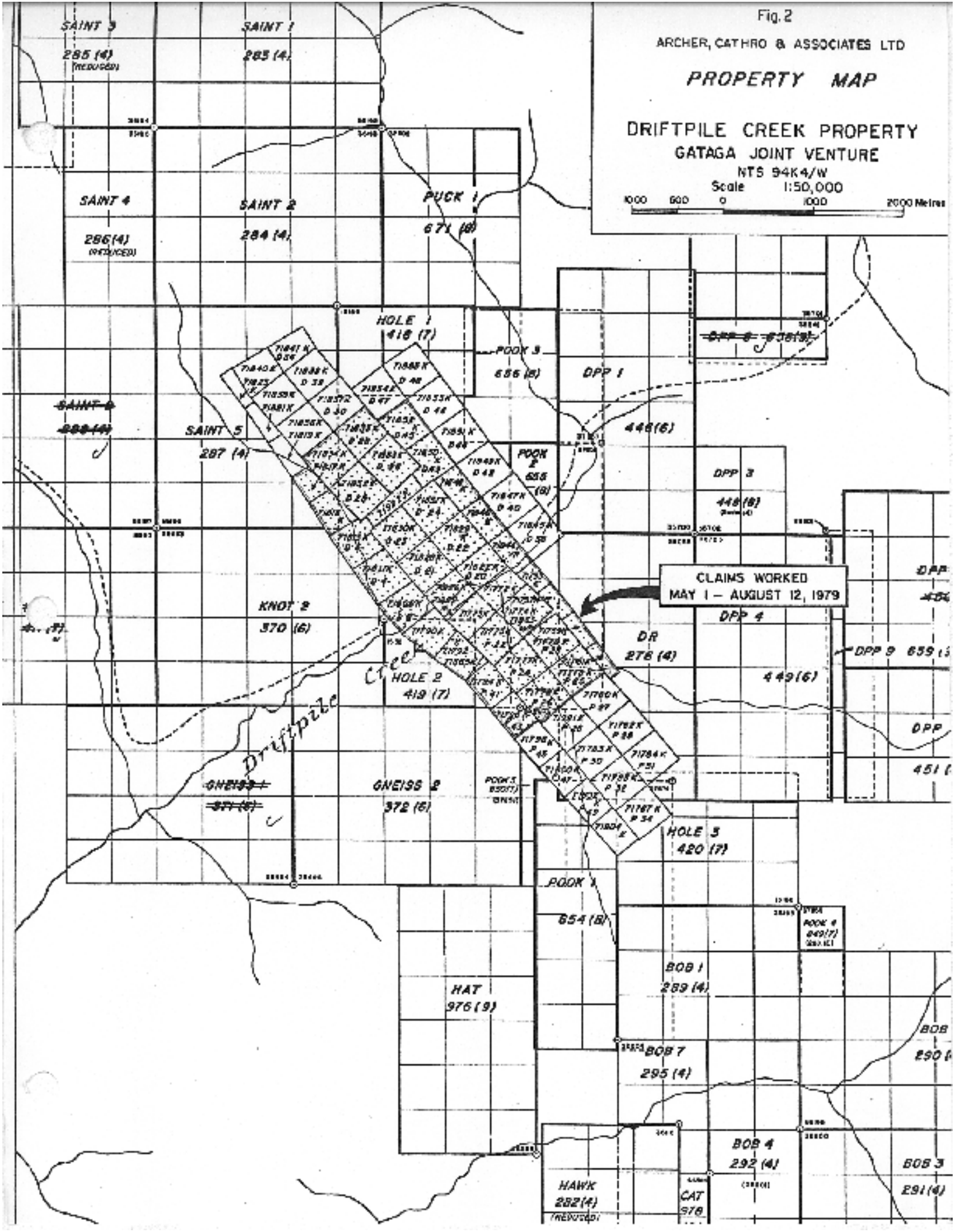
Fig. 2
ARCHER, CATHRO & ASSOCIATES LTD
PROPERTY MAP
DRIFTPILE CREEK PROPERTY
GATAGA JOINT VENTURE
NTS 94K4/W
Scale 1:50,000
1000 500 0 1000 2000 Metres
SAINT 3
285 (4)
SAINT 1
285 (4)
SAINT 4
286 (4)
SAINT 2
284 (4)
PUCK 1
671 (8)
HOLE 1
418 (7)
POOK 3
656 (8)
DPP 1
446 (6)
SAINT 5
287 (4)
POOK 2
656 (8)
DPP 3
448 (8)
CLAIMS WORKED
MAY 1 – AUGUST 12, 1979
KNOT 2
570 (6)
DPP 4
DR
276 (4)
449 (6)
HOLE 2
419 (7)
Driftpile Creek
GNEISS 2
372 (6)
HOLE 3
420 (7)
POOK 1
654 (8)
HAT
976 (9)
BOB 1
289 (4)
BOB 7
295 (4)
BOB 4
292 (4)
HAWK
282 (4)
CAT
978

CLAIM STATUS AS OF DECEMBER 1, 1979

CLAIM NAME		GRANT NUMBER	EXPIRY DATE
D2		71809	12 August, 1990
4		71811	"
6		71813	"
8		71815	"
10		71817	"
12		71819	"
14		71821	"
16		71823	"
19-34		71826-71841	"
37-48		71844-71855	"
P2		71755	"
4		71757	"
6		71759	"
8		71761	"
19-20		71772	"
21-32		71774-71785	"
34		71787	"
37		71790	"
39		71792	"
41		71794	"
43		71796	"
45		71798	"
47		71800	12 August, 1990
49		71802	"
51		71804	"
Goof 1F		71862	6 September 1990
2F		71863	"
4F		71865	"
5F		71992	"
Total	67 two-post claims		

GEOLOGICAL SURVEY

Physiography and Geomorphology

The Driftpile Creek area lies within the Muskwa Range of northern Rocky Mountains, flanked by the broad valleys of the Kechika River in Rocky Mountain Trench on the southwest and Gataga River on the northeast. Within the project area, physiography is typified by long, low ridges and valleys that parallel northwest structural strike of underlying sedimentary rocks. These ridges and valleys are cut by the southwest trending valley of Driftpile Creek, which exhibits a broad U-shaped glaciated profile at higher elevations and a narrower U-shaped profile in its lower 125 m.

Tributaries of Driftpile Creek flow in northwest-or southeast-trending valleys resulting in a trellised drainage pattern. Tributary streams are immature, with waterfalls and deeply incised, steep-walled canyons common through their length.

Although elevations in the region range from 1100 m to over 2000 m, relief is locally subdued in areas underlain by shales and clastic sedimentary rocks. Resistant, older carbonate rocks which flank the area to the east form prominent cliffs.

Treeline is at approximately 1500 m on south facing slopes. Vegetation in valleys is predominately arctic black birch and willows with minor black spruce in swampy areas and juniper, poplar and pine and grasses on dry slopes.

The region has been subjected to ice-sheet glaciation but the lack of abundant glacial till or erratics suggests that this glaciation was older than late Pleistocene. The most recent Pleistocene glaciation consisted mainly of alpine and cirque glaciers to the east and west. The main geomorphological effect of the latest glaciation was the narrow westward scouring Driftpile Creek

valley, to a point about 10 km downstream of the property. Infilling of the resulting basin by meltwater in late Pleistocene time resulted in flooding of much of the area for extended periods. Gradual, but somewhat erratic, lowering of the lake level accompanied down-cutting of the outlet creating several generations of strand-lines or wave-cut terraces. Approximate vertical distribution of these features is tabulated in Table II below.

TABLE II

APPROXIMATE VERTICAL DISTRIBUTION OF WAVE-CUT TERRACES AT DRIFTPILE CREEK, B.C.

Elevation (m)	Terrace Level	Relative Degree of Development
-1350	D, D-1, D-2	
	C, C-1, C-2, C-3	
-1300		
-1250	B	
	A	
	Driftpile Creek	
-1200		

Exposures of pyritic mineralization which lie below the upper lake level are leached and oxidized in excess of 5 m depth. In contrast, relatively fresh exposures of sulphide mineralization above highest lake level occur within 20 cm of the surface. Infusion of cold, oxygenated lake waters under an increased hydraulic gradient and consequent depression of reduced phreatic groundwaters beneath the lake may be responsible for the deep levels of oxidation observed.

Regional Stratigraphy

The Driftpile Creek area lies within Kechika Trough, a southeasterly extension of the much larger Selwyn Basin. Sedimentary rocks in the area range in age from Cambrian to lower Mississippian. Prior to Upper Devonian, easterly derived clastic sedimentary assemblages reflect normal sedimentation patterns while the westerly derivation of Upper Devonian to Mississippian sedimentary rocks resulted from block faulting and uplift along the continental margin. Regional stratigraphy and facies relationships were discussed in detail in the GJV 1977 Final Report and are only briefly summarized here.

Cambrian Atan Group consists of a lower, shallow-water to intertidal marine clastic assemblage and an upper, dominantly carbonate assemblage consisting of archeocyathid patch reefs with inter-reef and fore-reef clastic accumulations. The Cambrian succession is capped by a thin bedded, oolitic limestone unit which locally contains abundant trilobite remains.

Lower Ordovician Kechika Group consists mainly of thin bedded, argillaceous limestone and calcareous phyllite. The upper part of the group is in fault contact with older Atan Group rocks where it is seen in the project area. South of Kwadacha Park, exposures of Kechika Group indicate an overall thickness of greater than 3 km.

Platformal to basinal facies of the dominately pelitic Ordovician to middle Devonian Road River Formation unconformably overlie Kechika Group rocks. A basal volcanic unit present south of Kwadacha Park is not seen in the project area. A variable thickness of orange-brown weathering, graptolitic siltstone of lower Silurian age forms a distinctive marker horizon.

Coarse clastic rocks of middle Devonian Besa River Formation mark the abrupt change from lower Paleozoic miogeosynclinal environments along a relatively stable epicontinental trough to middle Paleozoic eugeosynclinal sedimentation which predominated along the western margin of the northern Cordillera. Easterly fining of these clastic rocks in the region reflects an, as yet, undiscovered source terrane west of the Driftpile Creek area. Besa River rocks may have been derived from uplift and subsequent erosion of basinal Road River cherts. A weakly developed unconformity which exists between Besa River and older rocks was probably caused by erosion during deposition of the clastic rocks.

Pyritic and siliceous, fine grained, black shale of the upper Devonian Gunsteel Formation conformably overlies coarser grained shales of Besa River Formation. Although somewhat resembling Besa River lithologies, Gunsteel Formation exhibits marked thickness changes along the length of the Gataga shale belt. It is presently unknown whether this results from differing rates of deposition in individual sub-basins or erosional relief beneath the lower Mississippian unconformity.

In any case, the greatest observed thickness of Gunsteel shale occurs at Driftpile Creek. An important feature of lower Gunsteel Formation is a horizon of very pyritic shale and chert which is typically anomalous in base metals, silver and barium. These chemical sediments are interpreted to reflect a regional geothermal-exhalative event.

Westerly-derived clastic sediments form the basal member of the Warneford Formation. Coarse, polymictic conglomerates deposited as turbidite fan assemblages characterize the package at Driftpile Creek. Erosional remnants composed of interbedded cherts and calcareous sediments which cap the succession may be Triassic in age.

Driftpile Creek Property Stratigraphy

Geology of that part of the property mapped to date is shown at 1:2000 scale on Figures 4a and 4b. Road River Formation (including Silurian siltstone), Besa River Formation and Gunsteel Formation are exposed on the Driftpile Creek property. Only lithologies of Gunsteel Formation have been intersected in drill core. Although bedrock exposure is less than one percent, compilation and comparison of diamond drill logs leads to a consistent picture of Gunsteel Formation stratigraphy. Additional diamond drilling in 1979 has enlarged the known stratigraphic column (Figure 3). In addition to mineralized horizons LH and UH, mineralization in units termed TH_1 and TH_2 has been discovered higher in the stratigraphic column. Mineralization discovered immediately beneath LH in one location only is termed BH. High grade mineralization encountered in holes 78-07 and 78-08, which was formerly assigned to unit LH, is now believed to be part of TH_1 following relogging of the core and comparison with intervals drilled during 1979.

The generalized stratigraphic section shown on Figure 3 is fairly representative although concrete structural relationships between various bedrock exposures and diamond drill holes have yet to be resolved. Detailed internal stratigraphy of that part of Gunsteel Formation intersected by diamond drilling is summarized in the following pages (base to top).

Unit A_M consists of uniform moderately siliceous, thick bedded, black shale which is commonly calcareous at top. Large (up to 40 cm in diameter) septarian carbonate nodules are scattered throughout the unit. Unit A_M is at least 20 m thick but the base of the unit has not been intersected in drill core.

Unit A_C consists of low to moderately siliceous, slightly gritty, non-calcareous, thick bedded, black shale with limestone nodules. Cherty argillite interbeds vary between 2 and 6 cm in thickness. Unit A_C is about 15 m thick.

Unit B_A consists of interbedded, cherty argillite, chert, blebby barite, pyrite and occasionally calcareous black shale which contains 1 to 6 cm massive and featureless carbonate nodules. Unit B_A varies from 5.5 m to greater than 11 m in thickness.

Pyritic mineralization of unit LH is discussed in a following section dealing with mineralization on the property.

Unit B_B, markedly similar in appearance to unit B_A, consists of interbedded black, cherty argillite, chert, blebby barite, pyrite and occasionally calcareous black shale which contains 1 to 6 cm carbonate nodules.

Unit B_C consists of gritty, low to moderately siliceous, calcareous, black shale with variable amounts of disseminated pyrite. Argillaceous limestone beds less than 1.5 cm thick are scattered throughout the section.

Unit B_S may be locally absent. It consists of thin bedded, moderately siliceous, non-pyritic, black shales.

Unit B_p invariably consists of a monotonous assemblage of thin bedded, non-siliceous to moderately siliceous, frequently gritty black shale with scattered siliceous interbeds and slightly calcareous intervals. The unit is distinguished by thin pyrite laminations which are repeated at one to five mm intervals throughout the unit. Soft sediment deformation is common in unit B_p, especially near the top. Total thickness of unit B_p is not known although an average thickness of 45 m can be reliably estimated from diamond drill sections.

Unit UH, the "upper" mineralized horizon, consists of massive pyritic mineralization which laterally changes facies gradually to baritic mineralization. A more complete description is given in a following section dealing with mineralization.

Unit C_S, which directly overlies massive pyritic mineralization of UH, consists of very carbonaceous, very fine grained, non-siliceous, black shale. Lower part of the unit contains distinctive, large, irregular carbonate nodules which are probably boudined beds. In the upper part of the unit, soft black shale is interbedded with 1 to 2 cm beds of cherty, black argillite which occasionally contain pyrite laminae and minor blebby barite. A distinctive feature of unit C_S is the invariable presence of minor pyrobitumen occurring in fractures with calcite and chalcedony and with both minerals in elongate masses flattened along bedding. An average thickness of 20 m is indicated for unit C_S from diamond drill sections.

Unit C_C consists of interbedded, moderately siliceous, black shale and partly calcareous, non-siliceous, black shale. Scattered large carbonate nodules appear to be boudined beds. Basal and upper contacts of the unit are marked by the abrupt transition to interbedded shale and cherty argillite. The structurally

incompetent nature of unit C_C does not permit an accurate estimation of thickness although a maximum figure of 12 m is suggested by diamond drill data.

Unit C_A contains the most resistant lithologies exposed on the Driftpile Creek property. Moderate to very siliceous black shale with rhythmic interbeds of radiolarian cherty argillite form steep slopes and cliff walls. Thickness of the assemblage is greater than 30 metres.

Unit C_B has only been seen in fault contact with underlying units. Low to moderately siliceous, thick bedded black shale forms the dominant lithology. Conspicuous barite "beads" consisting of barite-silica concretions less than 1 cm in diameter are scattered throughout the unit in roughly stratiform concentrations. Minor large septarian carbonate nodules are also seen throughout the unit. Thick bedded black shale near the top of the section is often calcareous. Thickness of unit C_B is greater than 50 m.

Unit TH_1 pyritic mineralization is discussed in a following section devoted to mineralization.

Unit D_B consists of distinctive low to moderately siliceous, medium bedded (2-3 cm), alternating grey and black shales. Grey shales are generally dolomitic or ankeritic while black shales are non-calcareous and often slightly pyritic. The unit appears to consistently range between 20 and 25 metres thick.

Unit TH_2 is described in a following section dealing with mineralization.

Unit D_S consists of low to moderately siliceous, medium bedded black shale with minor scattered calcareous shale interbeds. The unit is distinguished by the presence of cyclic thin pyrite laminations. Thickness of the unit, encountered only in diamond drill holes 79-20 and 79-22, is estimated to be about 20 metres.

Unit D_C represents the highest part of the Gunsteel Formation encountered by diamond drilling on the Driftpile property. Lithologies consist of thin bedded, moderate to very siliceous black shale, in part calcareous, with interbedded, thin (2 cm), black, conchoidal fracturing chert. Pyrobitumen-chalcedony-calcite masses occur as "platelets" flattened along bedding. Only the lower 12 metres of unit D_C has been intersected by diamond drilling.

Structural Geology

Within the Driftpile Creek area, rocks of the Gunsteel Formation form a four to six km wide, linear belt that strikes northwest. Although they are essentially unmetamorphosed, these rocks are structurally complex. On a gross regional scale, they occupy a broad synclinorium compressed against an anticlinorium of more resistant older carbonate rocks to the east.

In many areas of the property, bedding is difficult to distinguish from cleavage due to the uniformly featureless nature of most lithologies, especially on weathered surfaces. Where bedding is distinguishable, the absence of geopetal features makes distinction between overturned and upright bedding almost impossible. Problems with structural interpretation are further complicated by the generally recessive nature of the rocks and the enhancement of fissility by the action of frost wedging.

Tectonic shortening in carbonate rocks is regionally reflected in normal faults and large-scale, broad, open folds while the more incompetent shales are often isoclinally folded. On the Driftpile property, tectonic shortening appears to have been taken up in broad, open and upright folds which are cut by northwest-trending, steeply-dipping faults. In detail (see diamond drill sections, Appendix A),

these fault zones consist of several conjugate sets of diverging and converging fault and shear zones. The west side of faults is invariably displaced upward although dip-slip and oblique-slip movement probably occurs along some fault zones. Cleavage surfaces strike 120° to 145° and are nearly always coated with graphite. Sense of micro-slip along cleavage planes, like most faults, appears to be west side up. Cleavage dip, like that of major fault zones, varies from vertical to about 60° west.

Cleavage-bedding relationships indicate that most megascopic fold structures plunge at low angles (10° to 20°) although the direction of plunge can be either northwest or southeast and does not appear to be consistent from fold to fold. Modification of major structures by smaller isoclinal folds appears to be confined to easterly-dipping fold limbs.

Ordovician and Silurian rocks are exposed along the western edge of the property across a complex, but apparently vertical, fault zone.

Mineralization

Assay values for surface exposures of mineralization on the Driftpile Creek property are summarized in Table III. Schematic diamond drill sections, with accompanying lead and zinc assay values for holes 78-01 to 78-09 and 79-10 to 79-30, are given in Appendix A. An overall summary of mineralization intersected by diamond drilling to date on the property is shown on Table V.

Four distinct mineralized horizons (LH, UH, TH_1 and TH_2) have been discovered to date on the Driftpile Creek property. Stratigraphic relationships between these horizons are shown on Figure 3. Distribution of surface exposures and extrapolated exposures of mineralization is shown on the geology maps (Figures 4a and 4b.

Horizon LH - The lowest mineralized horizon (LH) is interpreted to include outcroppings along Driftpile Creek and Geophoto Creek, the lower intersection of drill hole 78-09, as well as outcroppings and diamond drill hole intersections which form a 1.5 km long continuous belt along the southeast edge of the property (Figures 4a and 4b). Mineralization typically consists of interbedded pyrite and siliceous to cherty black argillite. Pyrite beds, typically less than 0.5 cm thick, contain the bulk of lead and zinc values while irregular carbonate nodules within argillite beds commonly contain some coarser grained galena and sphalerite along cleavage planes. Although pyrite rarely reaches massive proportions, some one to two metre thick sections of LH contain greater than 50% pyrite. Barite occurs throughout LH as stratiform concentrations of flattened nodules or "blebs" with maximum diameters less than 0.3 cm. Thin interbeds of barite (less than 0.5 cm) occur with pyrite, argillite and blebby barite in concentrations near the top of the horizon.

TABLE III ASSAY VALUES FOR SURFACE GRAB SAMPLES; DRIFTPILE CREEK PROPERTY, 1978 and 1979

Sample No.	Cu(%)	Pb(%)	Zn(%)	Ba(%)	Ag (oz/ton)	Type of Mineralization	Location	Type of Sample
12551	0.01	0.01	0.71	46.6	0.01	Barite	4+25S,4+50E	float
12552	0.01	0.02	1.66	36.4	0.01	Barite	5+20S,2+50E	outcrop
12553	0.01	0.76	3.42	46.2	0.01	Barite	5+20S,2+50E	outcrop
12554	0.01	0.25	3.91	0.07	0.01	Pyrite	15+70S,1+80E	float
12555	0.01	8.52	3.26	0.05	0.01	Pyrite	15+50S,1+80E	float
12556	0.01	0.19	1.09	0.06	0.01	Pyrite	21+90S,1+00W	outcrop
12557	0.01	3.59	1.98	0.09	0.01	Pyrite	15+50S,1+80E	float
12558	0.01	16.70	0.02	0.05	0.01	Pyrite	16+00S,2+20E	float
12559	0.01	0.44	2.70	0.05	0.01	Pyrite	15+50S,1+80E	float
12560	0.01	0.10	3.00	3.93	0.01	Pyrite	20+40S,0+85E	outcrop
12561	0.01	11.20	0.11	0.07	0.01	Pyrite	18+10S,1+50E	float
12562	0.01	22.10	11.84	0.06	0.02	Pyrite	24+00S,6+60E	float
12563	0.01	0.06	3.38	25.05	0.01	Barite	Trench 78-01	outcrop
12564	0.01	7.34	2.13	0.08	0.01	Pyrite	15+50S,1+80E	float
12566	0.01	56.90	0.07	0.34	0.14	Galena	2+00N,12+00W	float
1901	0.06	Tr	0.01	Tr	0.13	Quartz Vein	20+00N, 20+50W	float

TABLE IV

SUMMARY OF ASSAYS FROM DIAMOND DRILL HOLES,
DRIFTPILE CREEK PROPERTY, 1978 AND 1979

HOLE	FROM (Ft.)	TO (Ft.)	LENGTH FEET	LENGTH METRES	% PB	% ZN	% PB + ZN
78-01	271.0	323.5	52.5	16.0	0.29	1.77	2.06
78-02	117.0	162.8	34.3	10.4	0.16	1.74	1.90
78-03	207.5	298.5	91.0	27.7	0.18	1.04	1.22
78-04	53.5	186.8	133.3	40.6	0.35	1.87	2.22
78-05	106.0	148.0	42.0	12.8	0.34	2.91	3.25
	70.5	237.5	167.0	50.9	0.30	1.87	2.17
78-06	20.0	148.0	128.0	39.0	0.38	1.23	1.61
78-07	240.0	261.7	21.7	6.6	9.05	3.53	12.58
	235.3	300.0	64.7	19.7	3.45	1.82	5.27
78-08	420.2	444.3	24.1	7.3	4.96	2.84	7.12
	414.1	493.2	79.1	24.1	1.64	2.33	3.97
78-09	80.0	110.0	30.8	9.4	0.75	3.72	4.50
	127.0	137.0	10.0	3.0	0.87	3.60	4.47
	51.0	137.0	86.0	26.2	0.49	2.51	3.00
79-10	80.0	88.4	8.4	2.6	0.80	7.15	7.95
	130.0	147.6	17.6	5.4	0.84	5.81	6.65
	75.0	196.8	121.8	37.1	0.53	3.26	3.79
79-11	no mineralization encountered						
79-12	no mineralization encountered						
79-13	181.8	200.0	18.2	5.5	0.27	2.49	2.67
79-14	406.5	433.0	26.5	8.1	0.27	2.45	2.72
79-15	23.0	58.5	35.5	10.8	0.06	1.06	1.12
	372.0	409.0	37.0	11.3	0.06	1.47	1.51
79-16	181.0	268.7	87.7	26.7	0.17	1.21	1.38
79-17	no significant mineralization (>1% Pb + Zn) encountered						
79-18	73.8	85.0	11.2	3.4	1.04	6.41	7.45
	112.0	125.1	13.1	4.0	0.10	7.39	7.49
	30.0	125.1	95.1	29.0	0.35	3.38	3.73
79-19	137.0	160.0	23.0	7.0	0.34	0.80	1.14
79-20	126.5	185.0	58.5	17.8	0.30	1.78	2.08
	201.0	246.0	45.0	13.7	0.65	2.52	3.17
	307.5	347.7	40.2	12.3	0.64	1.65	2.29
79-21	no mineralization encountered						
79-22	no mineralization encountered						
79-23	58.0	109.5	51.5	15.7	0.73	2.29	3.02
79-24	no mineralization encountered						
79-25	no significant mineralization (>1% Pb + Zn) encountered						
79-26	130.4	230.9	100.5	30.6	0.32	2.53	2.85
	243.5	255.0	9.7	3.0	0.66	2.90	3.56
79-27	no mineralization encountered						
79-28	70.4	80.9	10.5	3.2	3.77	14.01	17.78
	30.0	80.9	50.9	15.5	0.92	3.95	4.87
79-29	no mineralization encountered						
79-30	303.8	350.4	46.6	14.2	0.04	0.72	0.76
	494.6	533.5	38.9	11.9	0.27	1.98	2.25

TABLE V

CATALOGUE OF MINERALIZED INTERSECTIONS

DIAMOND DRILL HOLE	GRID COORDINATES OF INTERSECTION	MINERALIZED HORIZON	OVERALL METAL RATIOS (Pb/Pb + Zn)	TRUE THICKNESS (FEET)	TRUE THICKNESS (METRE)	OVERALL GRADE (Pb + Zn)%
79-20	24+60S, 13+00W	TH_2	0.14	33	10.0	2.08
79-20	24+60S, 12+70W	TH_2	0.21	33	10.0	3.17
78-07	40+50N, 20+50E	TH_1	0.65	64	19.5	5.27
78-08	40+80N, 20+00E	TH_1	0.41	40	13.0	3.97
79-20	24+60S, 11+90W	TH_1	0.28	29	9.0	2.29
79-28	00+50S, 4+80W	TH_1	0.19	30	9.5	4.91
78-01	20+00S, 0+50E	UH	0.14	51	15.5	2.06
78-02	16+00S, 0+00E	UH	0.09	45	14.0	1.46
78-03	16+00S, 0+80W	UH	0.15	50	15.0	1.25
78-04	4+80S, 0+20E	UH	0.16	112	34.0	2.22
78-05	4+80S, 0+90E	UH	0.14	108	33.0	2.17
78-06	4+00S, 3+50E	UH	0.24	*123	*37.5	1.61
78-09	24+00S, 2+50E	UH	0.15	*77	*23.5	3.47
79-10	12+00S, 0+40E	UH	0.14	*90	*27.0	3.79
79-16	4+00N, 1+50E	UH	0.09	*90	*27.0	1.38
79-18	14+00N, 15+90W	UH	0.09	*103	*31.5	3.73
79-23	30+00S, 0+50W	UH	0.24	51	15.5	3.02
78-09	24+00S, 5+20E	LH	0.06	52	16.0	3.16
79-13	4+00S, 15+80E	LH	0.10	22	7.0	0.20
79-13	4+00S, 16+10E	LH	0.09	*19	*6.0	2.55
79-13	4+00S, 16+80E	LH	0.10	*20	*6.0	2.60
79-14	4+00S, 15+20E	LH	0.09	*49	*15.0	1.53
79-15	4+00N, 15+30E	LH	0.05	*36	*11.0	1.12
79-15	4+00N, 18+00E	LH	0.04	36	11.0	1.51
79-25	16+00S, 15+10E	LH	----	0	0	----
79-26	22+00S, 15+50E	LH	0.11	39	12.0	2.85
79-30	18+00N, 14+70E	LH	0.05	45	14.0	0.76
79-30	18+00N, 15+60E	LH	0.12	27	8.0	2.25
79-26	22+00S, 15+80E	BH	0.19	6	2.0	3.56

* incomplete intersection, true thickness is estimated

SUMMARY

MINERALIZED HORIZON	NUMBER OF INTERSECTIONS	OVERALL METAL RATIOS (Pb/Pb+Zn) $\bar{X}$	σ	TRUE THICKNESS (FT.) $\bar{X}$	σ	(METRE) $\bar{X}$	σ	OVERALL GRADE (Pb+Zn) % $\bar{X}$	σ
TH_2	2	0.18	0.05	33	0	10.0	0	2.63	0.77
TH_1	4	0.38	0.20	41	16.3	13.0	4.8	4.10	1.32
UH	11	0.15	0.05	82	28.6	25.0	8.7	2.38	0.96
LH	11	0.08	0.03	31	15.5	9.5	4.8	1.85	0.98
BH	1	0.19	--	6	--	2.0	--	3.56	--

Such a body, about 10 m in maximum thickness with an inferred original diameter of about 200 m, was intersected by holes 13 and 14 (Appendix A). Rocks forming the footwall and hanging wall of LH, units B_A and B_B respectively, contain less pyrite and the footwall and hanging wall contacts of LH are arbitrarily drawn where concentrations of pyrite decreases below 10%. Barite blebs also become less abundant away from the contacts.

Assay values of LH diamond drill intersections vary from 0.20% to 3.16% Pb + Zn with a mean value of 1.85%. Copper values of LH intersections range from 8 ppm to 75 ppm and average 26 ppm. Silver content varies from values below detection limit (less than 0.1 ppm) to 3 ppm and average about 0.3 ppm. LH has the lowest Pb/Pb + Zn ratio (0.08) of the four mineralized horizons at Driftpile Creek. Silver and copper values do not bear any relationship to lead or zinc assays. True thickness of LH varies from areas where it is absent to accumulations about 16.0 m thick. Mean thickness of LH intersections seen to date is 9.5 m.

Horizon BH - Horizon BH is seen in only one drill hole (79-26) approximately 2 m downsection from horizon LH. In this intersection, BH contains 0.66% Pb and 2.90% Zn over a true thickness of 2.0 m.

Horizon UH - The thickest and most continuous zone of mineralization outlined to date on the property is termed "UH". Delineated for a strike length of over 1100 m in the south central part of the property, it can be reliably extrapolated to an average depth of 250 m for this distance. UH was also intersected by diamond drilling in 1979 at an isolated locality at the west central edge of the property (DDH 79-18). Mineralization typically consists of finely laminated pyrite, calcium carbonate and thin shale intervals which are vertically separated by barren shale beds averaging about 0.5 m in thickness. Carbonate minerals in the upper part of the horizon gradually change facies to barite in a northerly

direction towards Driftpile Creek (Figure 5). This is accompanied by a general decrease in overall pyrite content which parallels the isopach trends of the horizon (Figure 5). True thickness varies from about 14.0 m to 37.5 m, averaging 25.0 m. Overall metal grades range from 1.25% to 3.79% combined lead and zinc, averaging 2.38%. Overall metal ratios (Pb/Pb + Zn) vary from 0.09 to 0.24 and average 0.15. Apparent trends in metal contents of UH parallel facies and thickness variation in the horizon (Figure 5). Copper content of UH varies from 8 to 55 ppm, averaging about 19 ppm. Silver values range from trace amounts to 0.5 ppm and average about 0.2 ppm. Both copper and silver variation appear to bear no relationship to overall grade, thickness or base metal ratios of the horizon. Both footwall and hanging wall contacts of UH are abrupt.

Horizons TH_1 and TH_2 - Mineralized horizons TH_1 and TH_2 occur at the top of the known stratigraphic column at Driftpile Creek, some 115 and 140 metres above UH, respectively. TH_1 was intersected in diamond drill holes 78-07, 78-08, 79-20, and 79-28. In holes 78-07 and 78-08, this zone consists of interlaminated pyrite, carbonate gangue and shale, very similar to UH mineralization. Barite, encountered near the top of the intersection in hole 78-07, is massive, grey in colour and distinctly granular in nature. Galena and sphalerite within this barite consists of lamellar concentrations of interstitial disseminations. This style of mineralization is non-pyritic. True thickness of TH_1 in this location varies from a 19.5 m intersection in DDH 78-07 to approximately 13.0 m in DDH 78-08, 85 m down dip. Grade over this width in hole 78-07 was 5.27% combined lead-zinc with a Pb/Pb + Zn ratio of 0.65. Mineralization encountered in 78-08 averaged 3.79% combined lead-zinc with a Pb/Pb + Zn ratio of 0.41. Copper content of

both intersections varies from 5 to 35 ppm, averaging 20 ppm. Silver values range from trace amounts to 4 ppm and average about 2 ppm. High-grade baritic mineralization in hole 78-07 averages 12.58% combined lead and zinc over a true thickness of 6.0 m while stratigraphically equivalent pyritic mineralization in 78-08 grades 7.12% lead plus zinc over 3.5 m.

An intersection of TH_1 in hole 79-20 consists of bedded pyritic, carbonate-rich mineralization similar to UH. Here, a true thickness of 9.0 m assayed 2.29% combined lead and zinc. Copper values ranged from 20 to 40 ppm, averaging 25 ppm while silver ranged from trace amounts to 3 ppm, averaging 1 ppm.

Diamond drill hole 79-28 intersected a 9.5 m true thickness of pyritic mineralization which averages 4.91% lead plus zinc with a 0.19 Pb/Pb + Zn ratio. At this location, TH_1 contained between 8 and 35 ppm Cu and trace amounts of silver.

Mineralized horizon TH_2 resembles TH_1 and occurs 20 m stratigraphically above it in an unfaulted intersection cut by DDH 79-20. A fault repetition of TH_2 was also seen in the hole. Here, the 10 m thick section of pyritic mineralization averages 2.08% lead plus zinc in the upper intersection and 3.17% lead plus zinc in the lower intersection while Pb/Pb + Zn ratios are 0.14 and 0.21 respectively. Copper values range between 10 and 30 ppm and average 20 ppm, while silver assays range from trace amounts to 1.5 ppm.

GEOCHEMICAL SURVEY

Introduction

Much of the Driftpile Creek property was sampled by Placer in 1974 and 1975 at roughly 100 foot (30.5 m) intervals on east-west lines spaced approximately 400 feet (122 m) apart. The 1978 GJV sampling program increased sampling density on the property to 50 foot (15.2 m) intervals on east-west lines spaced 100 feet (30.5 m) apart to provide more detail on the size and continuity of anomalous trends. A few areas with geomorphological complications required line spacing of 50 feet (15.2 m). The 1978 soil survey covers an area approximately 10,000 feet (3060 m) long and 6000 feet (1830 m) wide and comprised about 6,400 samples. The 1979 soil survey extended the grid approximately 2800 feet (850 m) south on 200 foot (60 m) line spacing with 50 foot (15.2 m) sample spacing. The 1978 grid was also extended on west and east sides (Figure 6) to ensure that all lead anomalies were closed. About 4900 soil samples were taken on the property in 1979.

Field and Laboratory Technique

Samples were collected in kraft paper bags which were numbered in the field with their individual grid designation. The sample locations were established by hip chain and compass survey and marked with one metre lath pickets. All samples were shipped air freight to Chemex Labs Ltd., North Vancouver, B.C. where they were dried, screened to a minus 80 mesh fraction and analyzed routinely for copper, lead and zinc using a nitric-perchloric acid extraction and atomic asborption spectrometry. Samples which contained a high barium content required redigestion due to barium interference with lead analysis. A portion of the minus 80 mesh fraction from each sample was stored at the lab. Samples from the 1974 and 1975 surveys had undergone the same analytical procedure at Placer's Research Lab in Vancouver for lead, zinc, silver and barium.

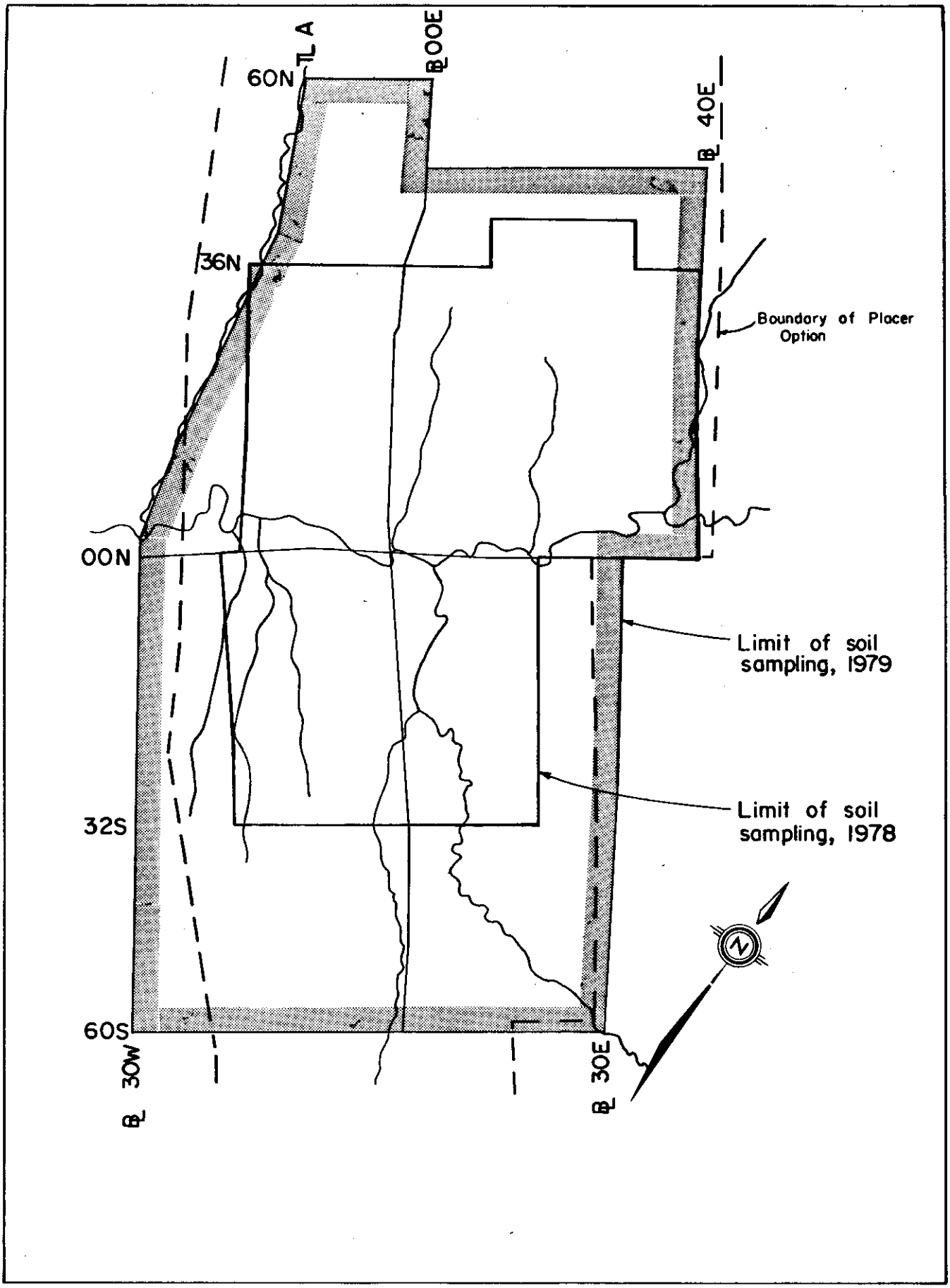

Figure 6: Extent of soil sampling program, 1978 and 1979

RESULTS

Copper, zinc and lead soil geochemical values are plotted on Figures 10a, 10b, 11a, 11b, 12a and 12b. Due to time constraints, rigorous statistical treatment of geochemical data from the 1974, 1975, 1978 and 1979 programs was not performed for copper and zinc values. Lognormal plots of sample population vs metal content for copper and zinc values over a representative area on the property were prepared in 1978 and are reproduced on Figures 7 and 8 respectively. Cumulative frequency plots for lead concentration in soil have been calculated for all samples taken to date on the property (Figure 9).

Copper soil values are erratic but their ranges reflect lognormal background distributions (Figure 7) indicating that copper is derived from rock backgrounds and that no copper is associated with the zinc-lead mineralization on the property. Indeed, surface and subsurface mineralization assayed to date shows only trace amounts of copper. No significant copper values are associated with other stratiform barite-lead-zinc showings in the area or with the Cyprus Anvil-HBOG Cirque barite-lead-zinc deposit. Analysis for copper in soil samples will probably only be carried out on a "spot-check" basis in the future.

Lognormal plots on sample population vs zinc content, shown on Figure 8, indicate that respective distributions of the 1974-75 Placer and 1978 GJV surveys differ. Background populations for both distributions are symmetrical with identical means although zinc background values from the earlier survey have a slightly greater range. While anomalous population curves display near identical shapes and ranges in both surveys, mean value of the 1978 GJV zinc values is somewhat lower than that of the 1974-75 results. A threshold value of 500 ppm zinc is indicated for the GJV zinc data while the Placer zinc population yields a threshold value of about 600 ppm. Placer's zinc values, especially those

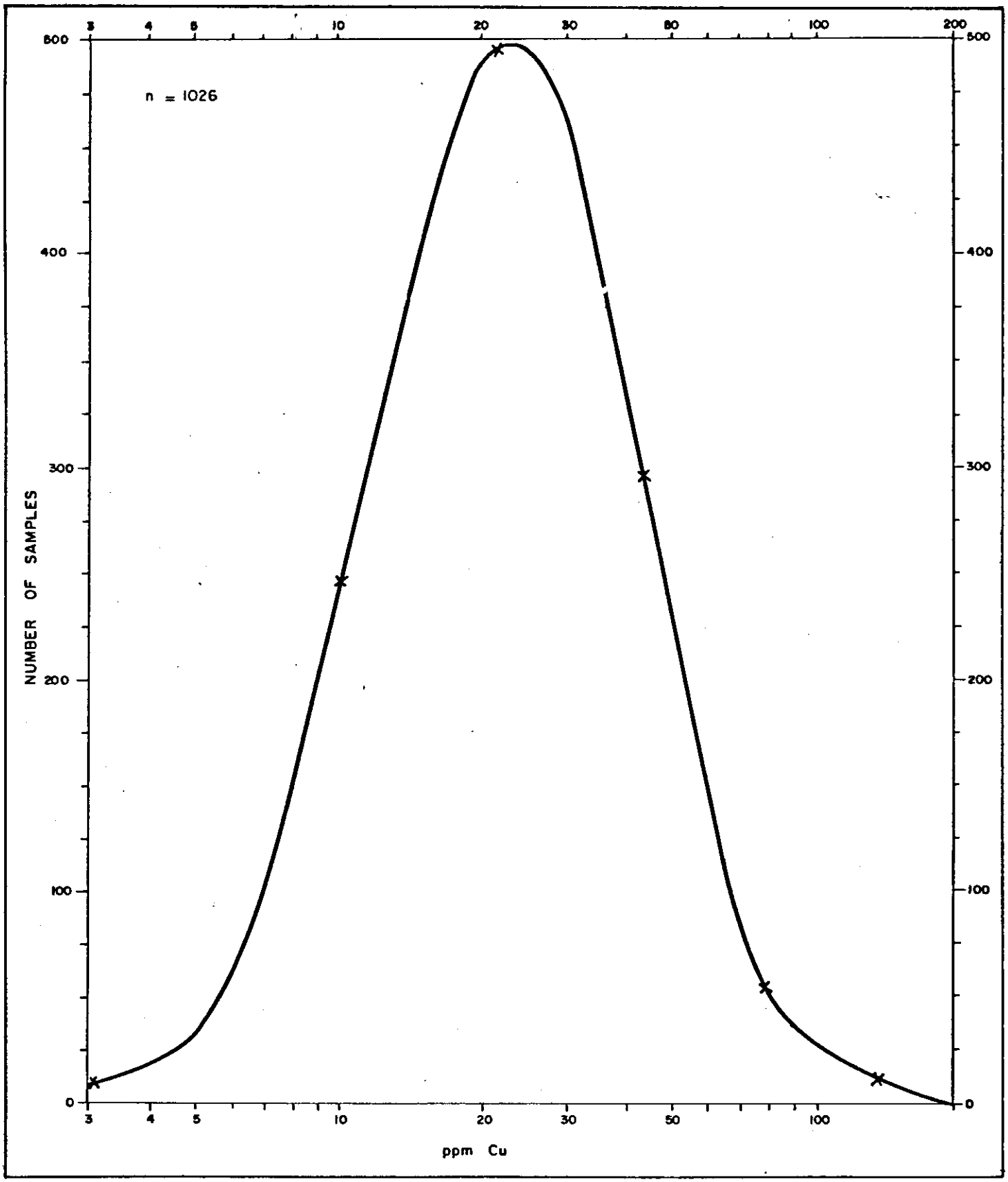

Figure 7 : Lognormal plots for copper, 1978 soil survey; number of samples vs copper values

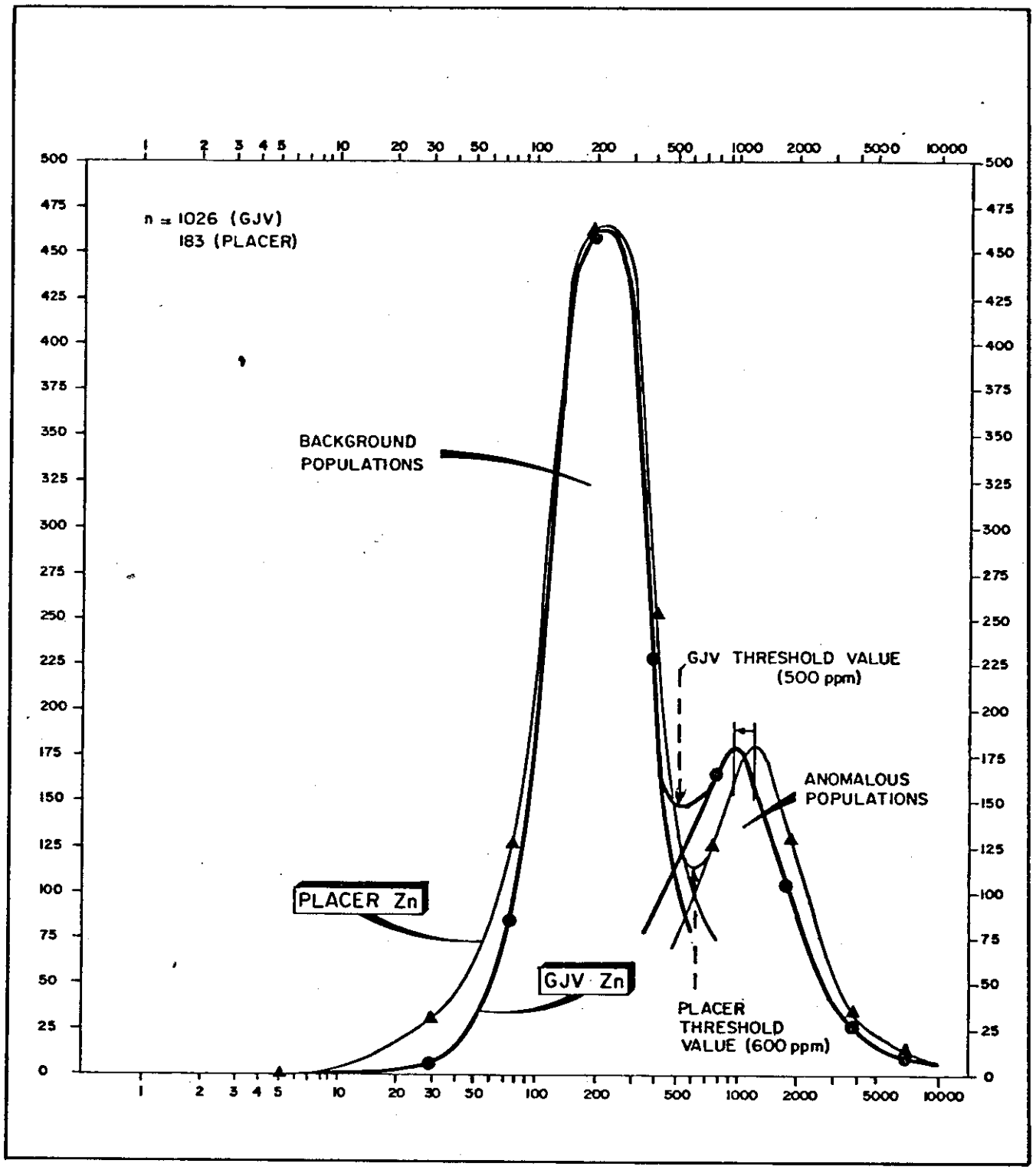

Figure 8 : Lognormal plots for zinc, 1974-75 soil surveys; number of samples vs zinc values (ppm). Lower number of Placer samples is normalized to GJV sample population size

which occur in the lower half of the anomalous population, were logarithmically adjusted to conform with the GJV data before they were plotted on Figures 11a and 11b. Although contoured zinc anomalies are well defined by abrupt margins, they display a more erratic distribution in comparison with lead anomalies. Previous experience in pyritic shale environments suggests that the relatively high degree of hydromorphic zinc dispersion, especially along fault zones, reduces its effectiveness as a tracer of mineralization except in a general or regional sense.

Lead soil assays have proven invaluable for locating and interpreting mineralization, even in areas with overburden complications. Cumulative frequency plots for lead values in soil on the Driftpile Creek property are given on Figure 9. To test the effect of deep oxidation of mineralization below the highest lake terrace level on the surficial distribution of lead, soil geochemical values were divided into two populations: (i) those samples collected above the highest lake level; and, (ii) samples collected below the highest lake level. Curves for both groups show that although they have identical shapes and therefore describe similar populations, soil samples collected above the maximum lake level have an overall lower lead content. Threshold value for samples from the former group is 350 ppm while a 700 ppm threshold value is indicated for samples taken below the lake level. This effect may be the result of a lower initial content of lead in both host rocks and in mineralization above the highest lake level, or an overall higher degree of lead concentration in soil below the highest lake level. The former explanation seems unlikely since the structural complexity of rocks underlying the property decrees that many, if not all, mineralized horizons and host lithologies should be exposed above the highest lake level which is a horizontal feature. The best developed limonitic B horizon occurs in soils below the highest lake level suggesting that deep oxidation of pyrite and other sulphide minerals has occurred here.

Lead released by this increased weathering is probably reconcentrated by iron oxides in the soils. In fact, a large gossan near the junction of base lines 00N and 00E commonly contains more lead in surface limonite samples than drill core of the underlying pyritic mineralization from which the gossan was derived. Oxidation at this location extends to a depth of 10 m.

In conclusion, results of detailed soil sampling carried out on the property by GJV in 1978 and 1979 have greatly clarified a previously rather poorly defined target. Elongate, well defined lead anomalies appear to relate directly to underlying mineralization. Zinc soil geochemistry, in part, confirms the lead data however some zinc anomalies may relate to fault zones which cut mineralization at depth. Soil geochemical programs carried out to date appear to have outlined the extent of surface exposures of mineralization on the property except perhaps along the northwest part of the grid. Lead soil anomalies, the best indicator of underlying mineralization, occur almost continuously over an area approximately 3 km long by 2 km wide.

DIAMOND DRILLING

The 1979 drilling was conducted by the 1978 contractor, D.J. Drilling Co. Ltd. of Vancouver using the same Boyle Brothers 17A model drill equipped with hydraulic feed, wireline and a water-cooled diesel engine. The 1978 program consisted of 3334 feet (1016.2 m) in 9 holes between July 18 and August 16. After the first three holes were drilled using NQ size equipment, the program was converted to BQ when the drilling proved easier than expected.

The 1979 program consisted of 7927 feet (2416.1 m) in 21 BQ holes between May 19 and July 30, for a cumulative total to date of 11,261 feet (3432.3 m) in 30 holes. Core recovery was better than 95 percent in 1979, dropping only in fault zones. A summary of the drilling is given in Table VI on the following page.

Mineralized intersections were sampled by sawing core longitudinally with a diamond blade. In 1978, the complete split portion was shipped to Vancouver for assay but in 1979, a small gas-driven crusher and a Jones splitter were used to reduce the weight of each core sample shipped to less than one kilogram. The crushed portion of each sample split is stored under cover at the property in plastic bags while the uncrushed half of the core is stored in core boxes in the DIAND core library at Whitehorse.

D.J. Drilling's crew, equipment and performance were entirely satisfactory during the 1979 program and equipment failures and down-time were minimal.

TABLE VI

DIAMOND DRILL HOLE SUMMARY

HOLE	LOCATION	DIP	AZIMUTH	SIZE	LENGTH FEET	LENGTH METRES
1978						
78-01	2000S/170W	-55	055	NQ	450	137.2
78-02	1600S/90W	-55	055	NQ	198	60.4
78-03	1600S/90W	-90	-	NQ	321	97.8
78-04	470S/00E	-45	055	BQ	225	68.6
78-05	470S/00E	-85	235	BQ	256	78.0
78-06	470S/300E	-45	055	BQ	465	141.7
78-07	4100N/1650E	-50	093	BQ	361	110.0
78-08	4100N/1650E	-85	093	BQ	500	152.4
78-09	2400S/200E	-50	055	BQ	558	170.1
				1978 TOTAL:	3334	1016.2
1979						
79-10	1200S/060E	-55	055	BQ	342	104.2
79-11	400S/1250W	-60	055	BQ	450	137.2
79-12	400S/1250W	-75	055	BQ	631	192.3
79-13	400S/1550E	-50	055	BQ	299	91.1
79-14	400S/1250E	-50	055	BQ	496	151.2
79-15	420N/1500E	-50	055	BQ	426	129.8
79-16	400N/00E	-50	055	BQ	318	96.9
79-17	1200N/200E	-50	055	BQ	260	79.2
79-18	1400N/1640W	-50	055	BQ	412	125.6
79-19*	1200N/1350W	-50	055	BQ	160	48.8
79-20	2500S/1400W	-55	055	BQ	543	165.5
79-21	2450S/900W	-50	235	BQ	429	130.8
79-22	2450S/1660W	-50	055	BQ	459	139.9
79-23	3000S/100W	-55	055	BQ	622	189.6
79-24	3200S/300W	-50	055	BQ	300	91.4
79-25	1600S/1440E	-50	055	BQ	211	64.3
79-26	2250S/1340E	-50	055	BQ	291	88.7
79-27	050S/600W	-60	055	BQ	272	82.9
79-28	050S/450W	-50	235	BQ	155	47.2
79-29	1400N/2550W	-70	055	BQ	281	85.6
79-30*	1800N/1350E	-75	055	BQ	570	173.7
				1979 TOTAL:	7927	2416.1
				GRAND TOTAL:	11,261	3432.3

* Abandoned in badly caving ground

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BOX 4127, WHITEHORSE, Y.T. YIA 3S9 667-4415

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1016 STANDARD BUILDING
510 WEST HASTINGS STREET
VANCOUVER, B. C.
V6B 1L8

CERTIFICATE

I, Robert J. Cathro, with business addresses in Whitehorse, Yukon Territory, and Vancouver, British Columbia, and residential address in West Vancouver, British Columbia, do hereby declare

1. I am a consulting engineer.
2. I am a 1959 graduate of the University of British Columbia in geological engineering.
3. From 1959 to 1965 I was engaged in mining and exploration geology with United Keno Hill Mines Ltd., Giant Yellowknife Mines Ltd., and Eldorado Mining and Refining Ltd. I entered private practice in January, 1966.
4. I am a registered professional engineer in British Columbia and Yukon Territory.
5. I have supervised the work described in this report.

Respectfully submitted,

R.J. Cathro, B.A.Sc., P. Eng.

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VANCOUVER, B.C.
V6B 1L8

STATEMENT OF QUALIFICATIONS

I, Robert C. Carne, residing at 5665 Toronto Road, Vancouver, British Columbia, state that:

1. I have graduated from the University of British Columbia with a B.Sc. degree in Geological Sciences in 1974.

2. I have been employed by Archer, Cathro & Associates Ltd. as a geologist since 1977 and that I have been engaged in mineral exploration in British Columbia, Yukon Territory and Northwest Territories since 1970.

3. I am a member of the Geological Association of Canada.

4. I am a member of the Geological Society of America.

5. I am a member of the Society of Economic Paleontologists and Mineralogists.

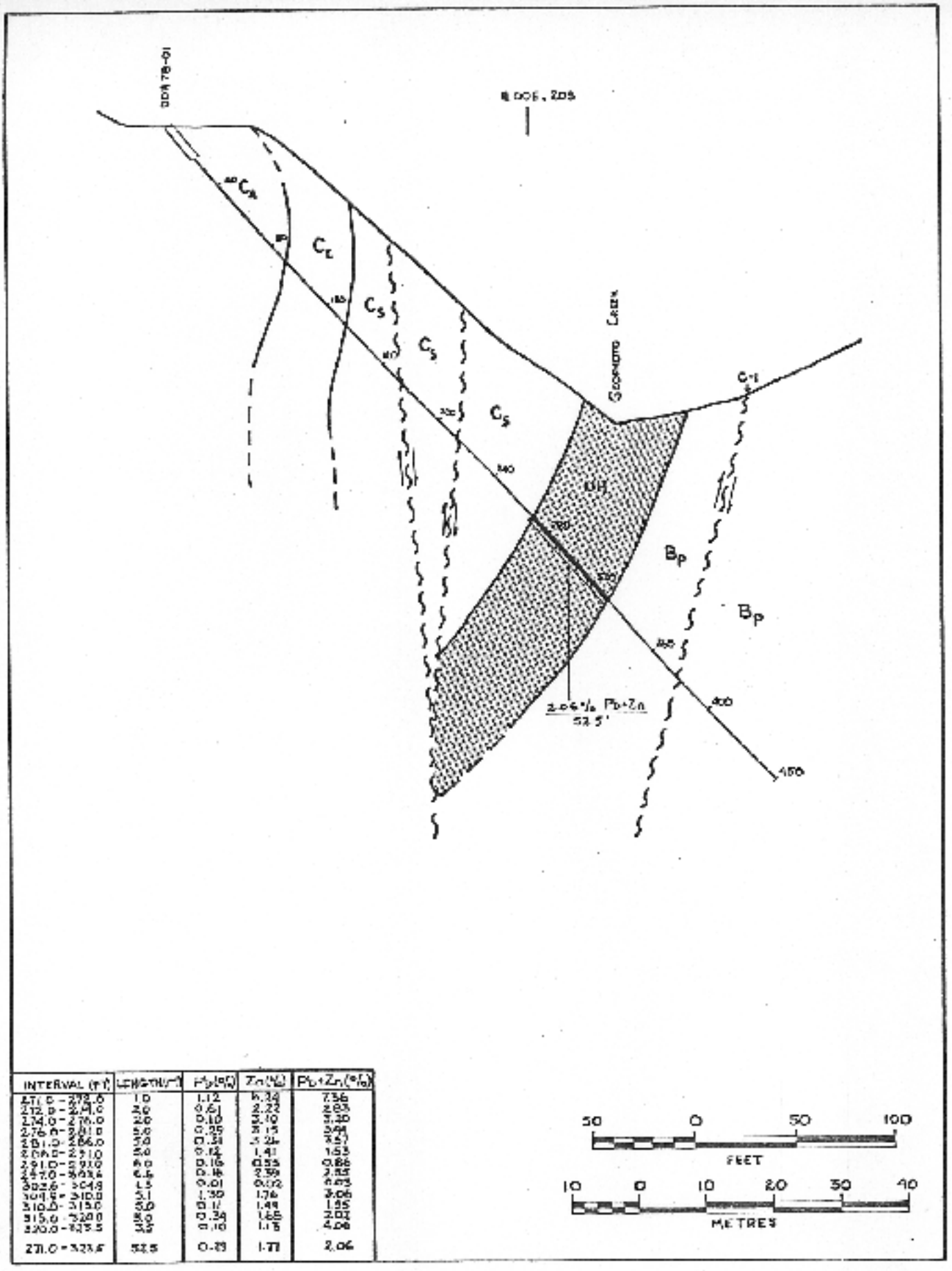
6. I personally supervised the exploration program at the Driftpile property during 1979 and logged all drill core.

Respectfully submitted,

RCC:jm

Robert C. Carne, B.Sc.

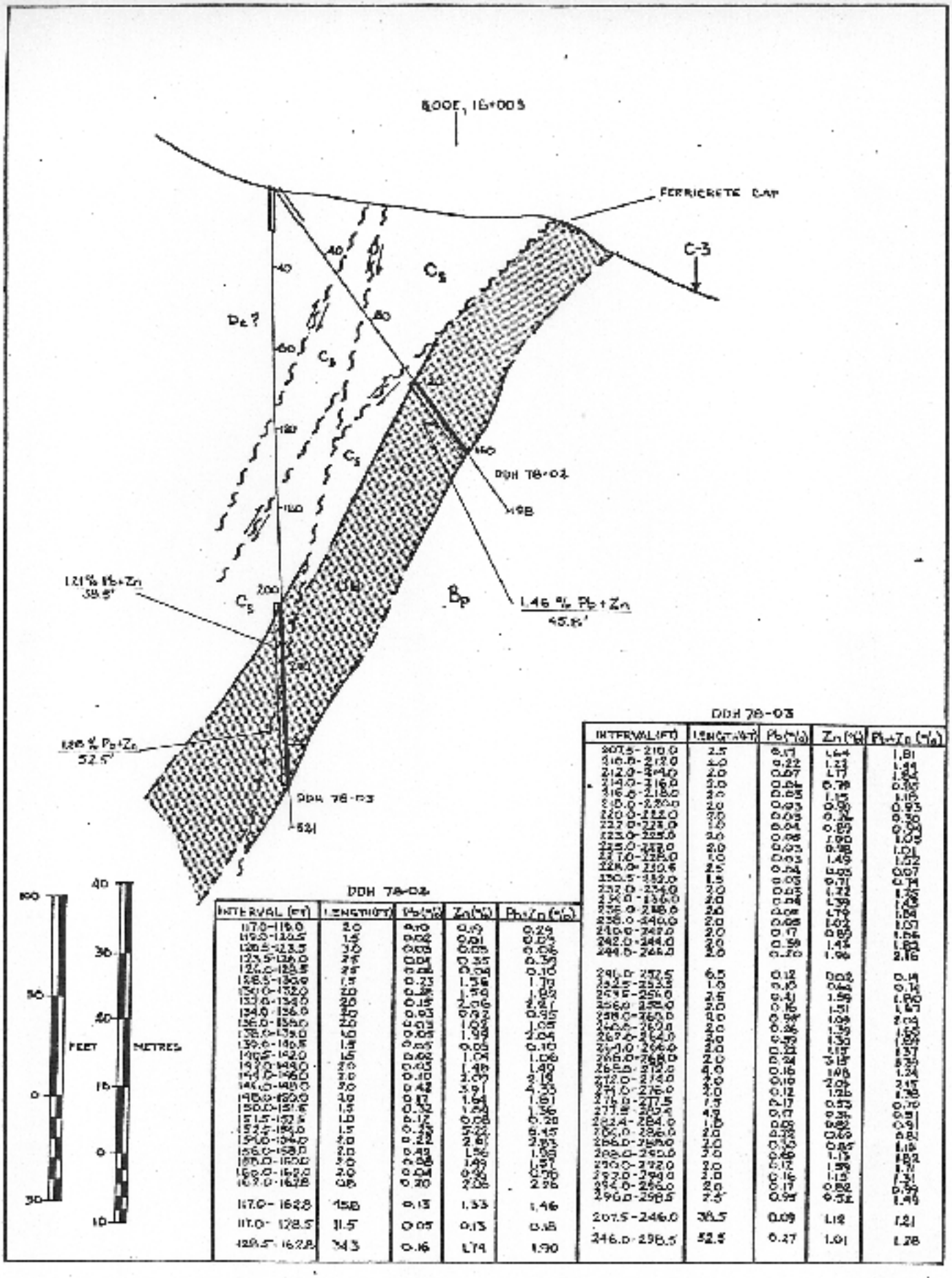
APPENDIX A - DIAMOND DRILL SECTIONS



INTERVAL (ft)	LENGTH (ft)	Pb (%)	Zn (%)	Pb+Zn (%)
271.0 - 323.5	52.5	0.29	1.77	2.06

50 0 50 100
FEET
10 0 10 20 30 40
METRES

Figure A-1: Generalized cross-section, DDH 78-01



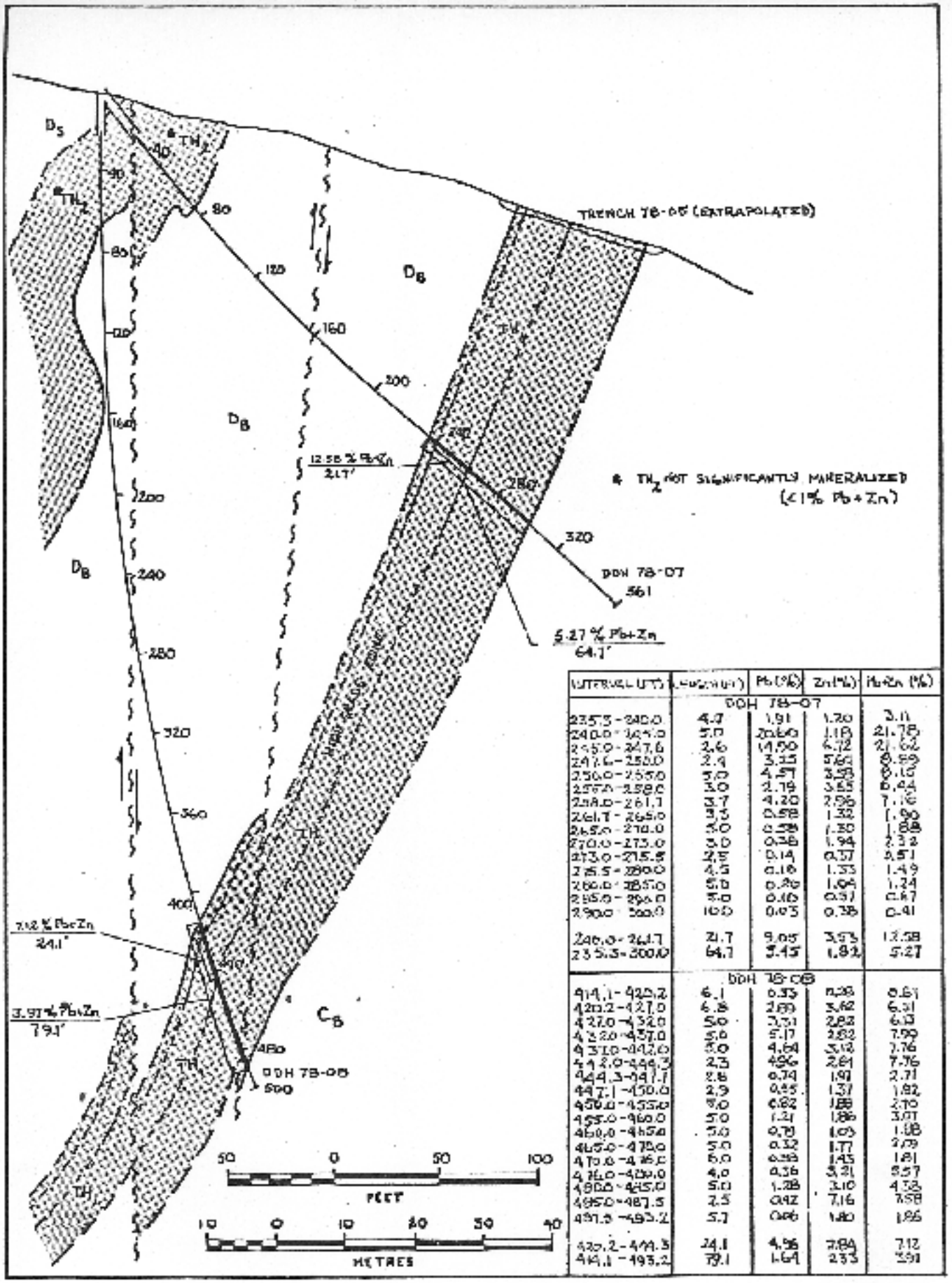
DDH 78-02

INTERVAL (ft)	LENGTH(ft)	Pb(%)	Zn(%)	Pb+Zn (%)
117.0-119.0	2.0	0.10	0.19	0.29
119.0-120.5	1.5	0.02	0.01	0.03
120.5-123.5	3.0	0.03	0.03	0.06
123.5-126.0	2.5	0.04	0.35	0.39
126.0-128.5	2.5	0.04	0.06	0.10
128.5-130.0	1.5	0.23	1.56	1.79
130.0-132.0	2.0	0.39	1.50	1.89
132.0-134.0	2.0	0.15	2.06	2.21
134.0-136.0	2.0	0.03	0.92	0.95
136.0-138.0	2.0	0.03	1.02	1.05
138.0-139.0	1.0	0.03	1.99	2.02
139.0-140.5	1.5	0.05	0.05	0.10
140.5-142.0	1.5	0.02	1.04	1.06
142.0-144.0	2.0	0.05	1.49	1.54
144.0-146.0	2.0	0.03	2.03	2.06
146.0-148.0	2.0	0.42	3.91	4.33
148.0-150.0	2.0	0.17	1.64	1.81
150.0-151.5	1.5	0.12	1.24	1.36
151.5-153.5	2.0	0.17	0.08	0.25
153.5-154.0	0.5	0.24	5.22	5.46
154.0-156.0	2.0	0.22	2.61	2.83
156.0-158.0	2.0	0.43	1.56	1.99
158.0-160.0	2.0	0.08	1.49	1.57
160.0-162.0	2.0	0.04	0.92	0.96
162.0-162.8	0.8	0.20	2.26	2.46
117.0-162.8	45.8	0.13	1.33	1.46
117.0-128.5	11.5	0.05	0.13	0.18
128.5-162.8	34.3	0.16	1.79	1.90

DDH 78-03

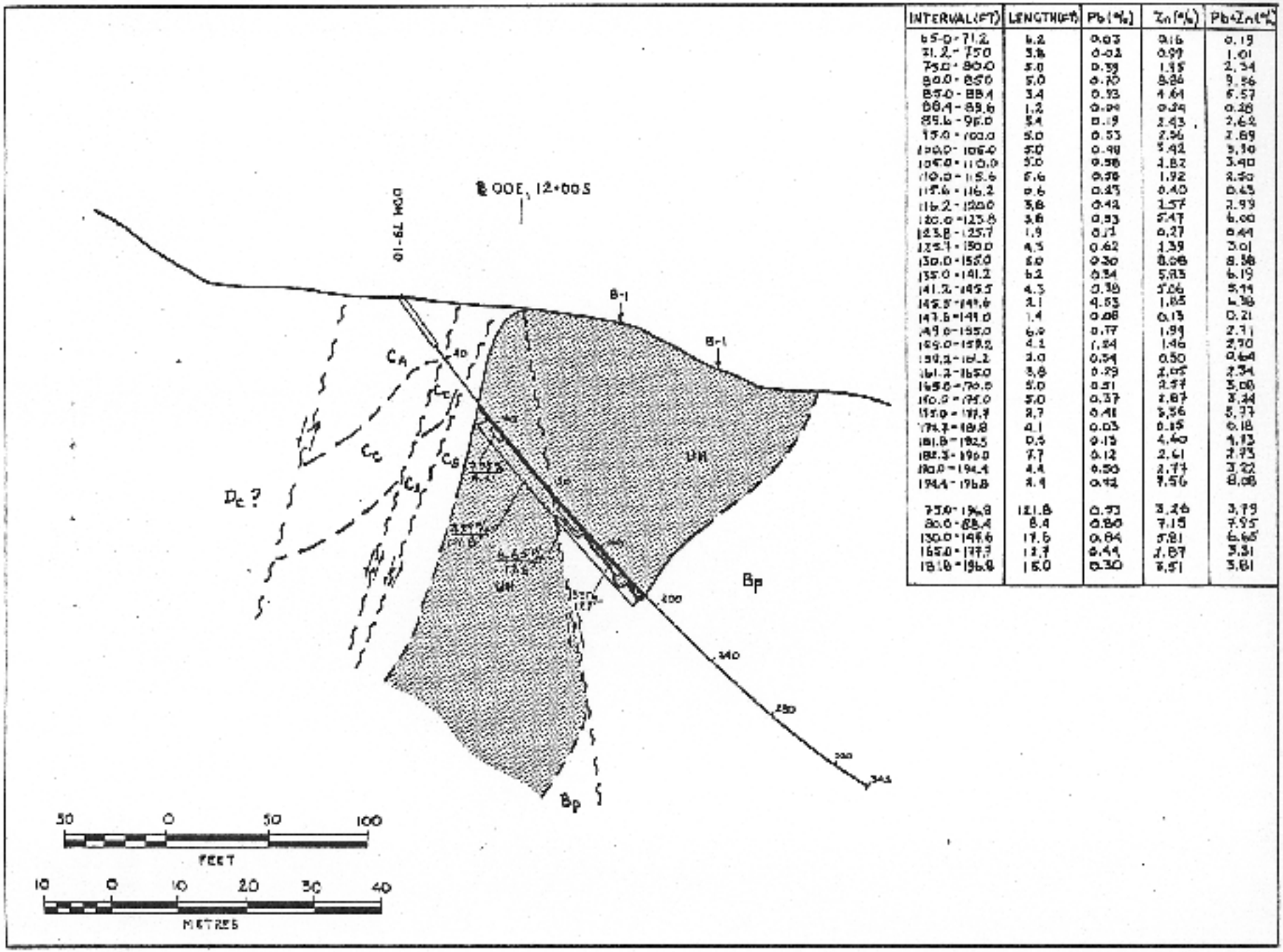
INTERVAL(ft)	LENGTH(ft)	Pb(%)	Zn(%)	Pb+Zn (%)
207.5-210.0	2.5	0.17	1.64	1.81
210.0-212.0	2.0	0.22	1.23	1.45
212.0-214.0	2.0	0.07	1.77	1.84
214.0-216.0	2.0	0.06	0.79	0.85
216.0-218.0	2.0	0.05	1.15	1.20
218.0-220.0	2.0	0.03	0.90	0.93
220.0-222.0	2.0	0.03	0.32	0.35
222.0-223.0	1.0	0.04	0.83	0.87
223.0-225.0	2.0	0.08	1.90	1.98
225.0-227.0	2.0	0.03	0.98	1.01
227.0-228.0	1.0	0.03	1.49	1.52
228.0-230.5	2.5	0.04	0.03	0.07
230.5-232.0	1.5	0.03	0.71	0.74
232.0-234.0	2.0	0.03	1.72	1.75
234.0-236.0	2.0	0.06	1.39	1.45
236.0-238.0	2.0	0.08	1.79	1.87
238.0-240.0	2.0	0.08	1.02	1.10
240.0-242.0	2.0	0.07	0.85	0.92
242.0-244.0	2.0	0.38	1.44	1.82
244.0-246.0	2.0	0.20	1.96	2.16
246.0-252.5	6.5	0.12	0.02	0.14
252.5-253.5	1.0	0.10	0.04	0.14
253.5-256.0	2.5	0.41	1.58	1.99
256.0-258.0	2.0	0.16	1.51	1.67
258.0-260.0	2.0	0.08	1.98	2.06
260.0-262.0	2.0	0.36	1.39	1.75
262.0-264.0	2.0	0.39	1.30	1.69
264.0-266.0	2.0	0.03	1.15	1.18
266.0-268.0	2.0	0.24	3.15	3.39
268.0-272.0	4.0	0.16	1.08	1.24
272.0-274.0	2.0	0.09	2.06	2.15
274.0-276.0	2.0	0.12	1.26	1.38
276.0-277.5	1.5	0.17	0.53	0.70
277.5-282.4	4.9	0.17	0.25	0.42
282.4-284.0	1.6	0.13	0.82	0.95
284.0-286.0	2.0	0.33	0.49	0.82
286.0-288.0	2.0	0.30	0.87	1.17
288.0-290.0	2.0	0.69	1.19	1.88
290.0-292.0	2.0	0.12	1.38	1.50
292.0-294.0	2.0	0.16	1.13	1.29
294.0-296.0	2.0	0.17	0.82	0.99
296.0-298.5	2.5	0.92	0.57	1.49
207.5-246.0	38.5	0.09	1.12	1.21
246.0-298.5	52.5	0.27	1.01	1.28

Figure A-2: Generalized cross-section, DDH 78-02 and 78-03



INTERVAL (FT)	LENGTH (FT)	Pb (%)	Zn (%)	Pb+Zn (%)
		DDH 78-07		
235.5 - 240.0	4.7	1.91	1.20	3.11
240.0 - 245.0	5.0	20.60	1.18	21.78
245.0 - 247.6	2.6	14.50	6.72	21.22
247.6 - 250.0	2.4	3.35	5.64	8.99
250.0 - 255.0	5.0	4.57	3.58	8.15
255.0 - 258.0	3.0	2.79	3.65	6.44
258.0 - 261.7	3.7	4.20	2.96	7.16
261.7 - 265.0	3.3	0.58	1.32	1.90
265.0 - 270.0	5.0	0.58	1.30	1.88
270.0 - 273.0	3.0	0.38	1.94	2.32
273.0 - 275.5	2.5	0.14	0.37	0.51
275.5 - 280.0	4.5	0.16	1.33	1.49
280.0 - 285.0	5.0	0.20	1.04	1.24
285.0 - 290.0	5.0	0.10	0.37	0.47
290.0 - 300.0	10.0	0.05	0.36	0.41
240.0 - 261.7	21.7	9.05	3.53	12.58
235.5 - 300.0	64.1	3.45	1.82	5.27
		DDH 78-08		
414.1 - 420.2	6.1	0.33	0.28	0.61
420.2 - 427.0	6.8	2.89	3.62	6.51
427.0 - 432.0	5.0	3.31	2.82	6.13
432.0 - 437.0	5.0	5.17	2.82	7.99
437.0 - 442.0	5.0	4.64	3.12	7.76
442.0 - 444.3	2.3	4.96	2.81	7.76
444.3 - 447.1	2.8	0.74	1.97	2.71
447.1 - 450.0	2.9	0.45	1.37	1.82
450.0 - 455.0	5.0	0.82	1.88	2.70
455.0 - 460.0	5.0	1.21	1.86	3.07
460.0 - 465.0	5.0	0.70	1.03	1.08
465.0 - 470.0	5.0	0.32	1.77	2.79
470.0 - 476.0	6.0	0.38	1.43	1.81
476.0 - 480.0	4.0	0.36	3.21	3.57
480.0 - 485.0	5.0	1.28	3.10	4.38
485.0 - 487.5	2.5	0.42	7.16	7.58
487.5 - 493.2	5.7	0.06	1.80	1.86
420.2 - 444.3	24.1	4.96	2.84	7.12
414.1 - 493.2	79.1	1.64	2.33	3.91

Figure A-4: Generalized cross-section, DDH 78-07 and 78-08



INTERVAL(FT)	LENGTH(FT)	Pb(%)	Zn(%)	Pb+Zn(%)
65.0 - 71.2	6.2	0.03	0.16	0.19
71.2 - 75.0	3.8	0.02	0.09	1.01
75.0 - 80.0	5.0	0.38	1.95	2.34
80.0 - 85.0	5.0	0.70	8.86	9.56
85.0 - 88.4	3.4	0.93	4.64	6.57
88.4 - 89.6	1.2	0.04	0.24	0.28
89.6 - 95.0	5.4	0.19	2.43	2.62
95.0 - 100.0	5.0	0.53	2.56	2.89
100.0 - 105.0	5.0	0.98	3.92	5.10
105.0 - 110.0	5.0	0.58	2.82	3.40
110.0 - 115.6	5.6	0.58	1.92	2.50
115.6 - 116.2	0.6	0.45	0.40	0.85
116.2 - 120.0	3.8	0.42	2.57	2.99
120.0 - 123.8	3.8	0.53	5.47	6.00
123.8 - 125.7	1.9	0.21	0.27	0.48
125.7 - 130.0	4.3	0.62	2.39	3.01
130.0 - 135.0	5.0	0.30	8.08	8.38
135.0 - 141.2	6.2	0.34	5.85	6.19
141.2 - 145.5	4.3	0.38	5.06	5.44
145.5 - 147.6	2.1	4.65	1.85	6.36
147.6 - 149.0	1.4	0.08	0.13	0.21
149.0 - 155.0	6.0	0.17	1.94	2.11
155.0 - 159.2	4.2	1.34	1.46	2.80
159.2 - 161.2	2.0	0.34	0.30	0.64
161.2 - 165.0	3.8	0.29	2.05	2.34
165.0 - 170.0	5.0	0.51	2.57	3.08
170.0 - 175.0	5.0	0.37	2.87	3.24
175.0 - 177.7	2.7	0.41	5.36	5.77
177.7 - 181.8	4.1	0.03	0.15	0.18
181.8 - 182.5	0.5	0.13	4.60	4.73
182.5 - 190.0	7.7	0.12	2.61	2.73
190.0 - 194.4	4.4	0.50	2.77	3.22
194.4 - 196.8	2.4	0.42	7.56	8.08
75.0 - 196.8	121.8	0.33	3.26	3.79
80.6 - 88.4	8.4	0.80	7.15	7.95
130.0 - 147.6	17.6	0.84	5.81	6.65
165.0 - 177.7	12.7	0.44	2.87	3.31
181.8 - 196.8	15.0	0.30	3.51	3.81

Figure A-6: Generalized cross-section, DDH 79-10

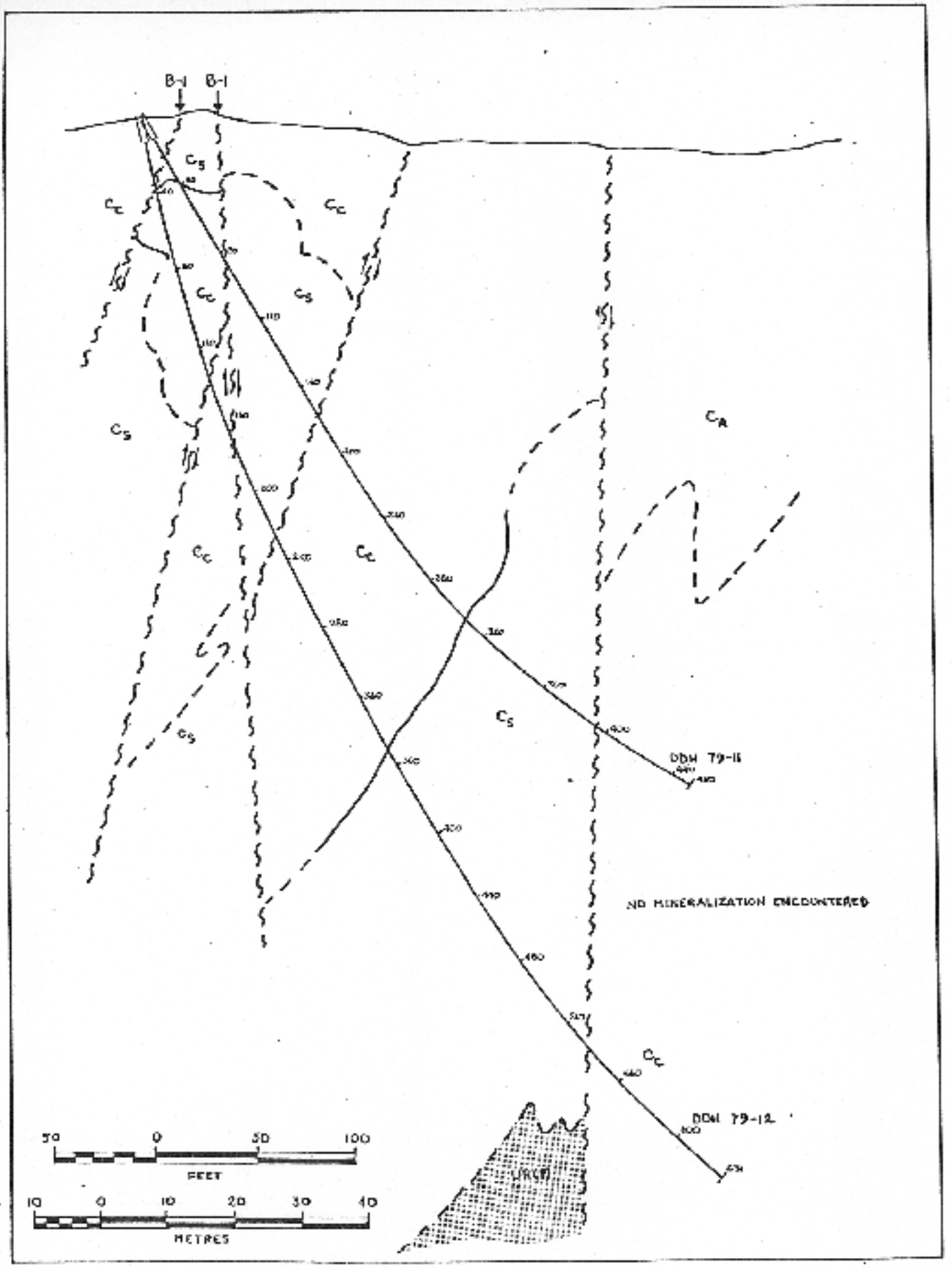


Figure A-7: General [illegible] cross-section, DDH 79-11 and 79-12

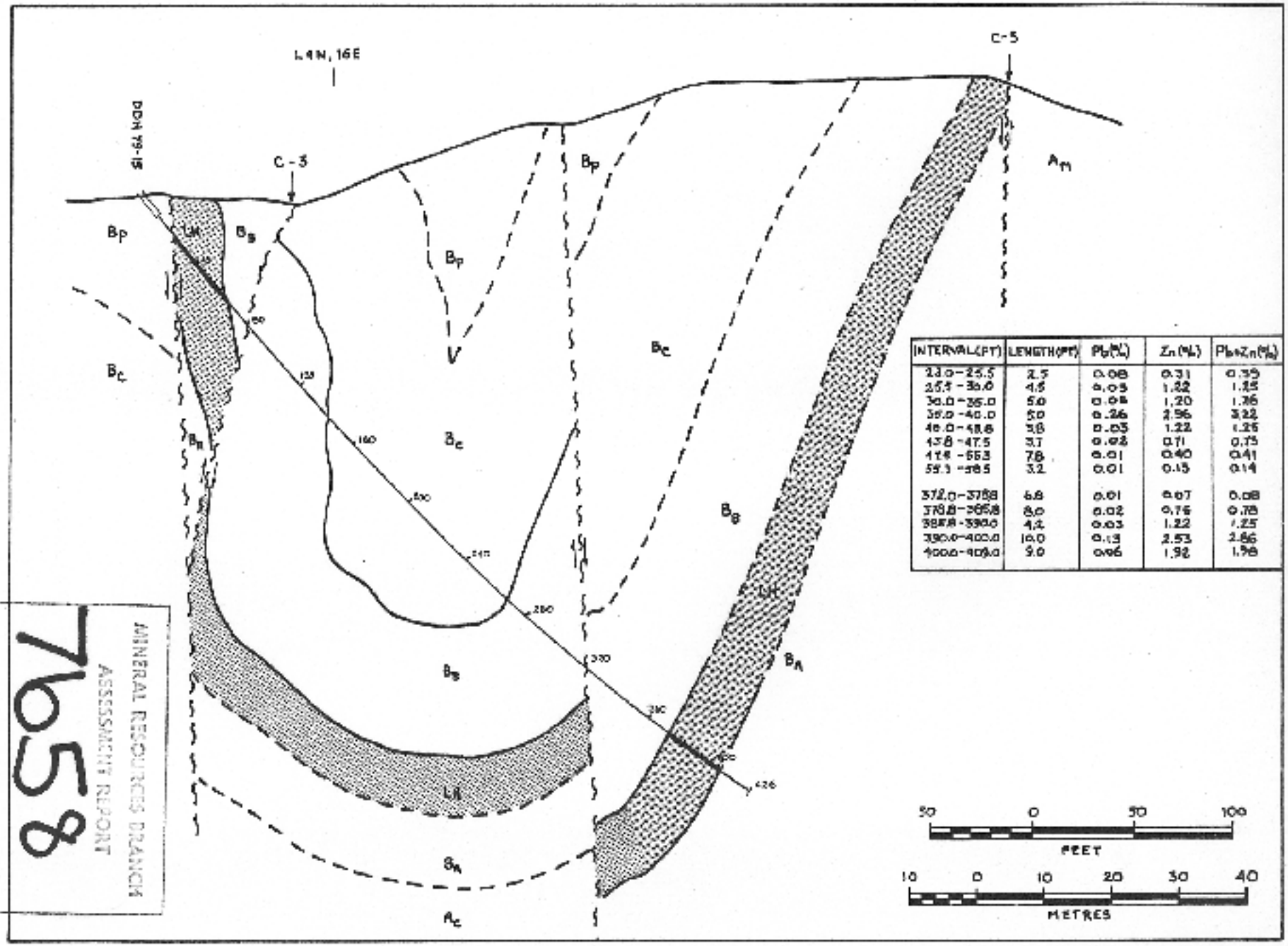
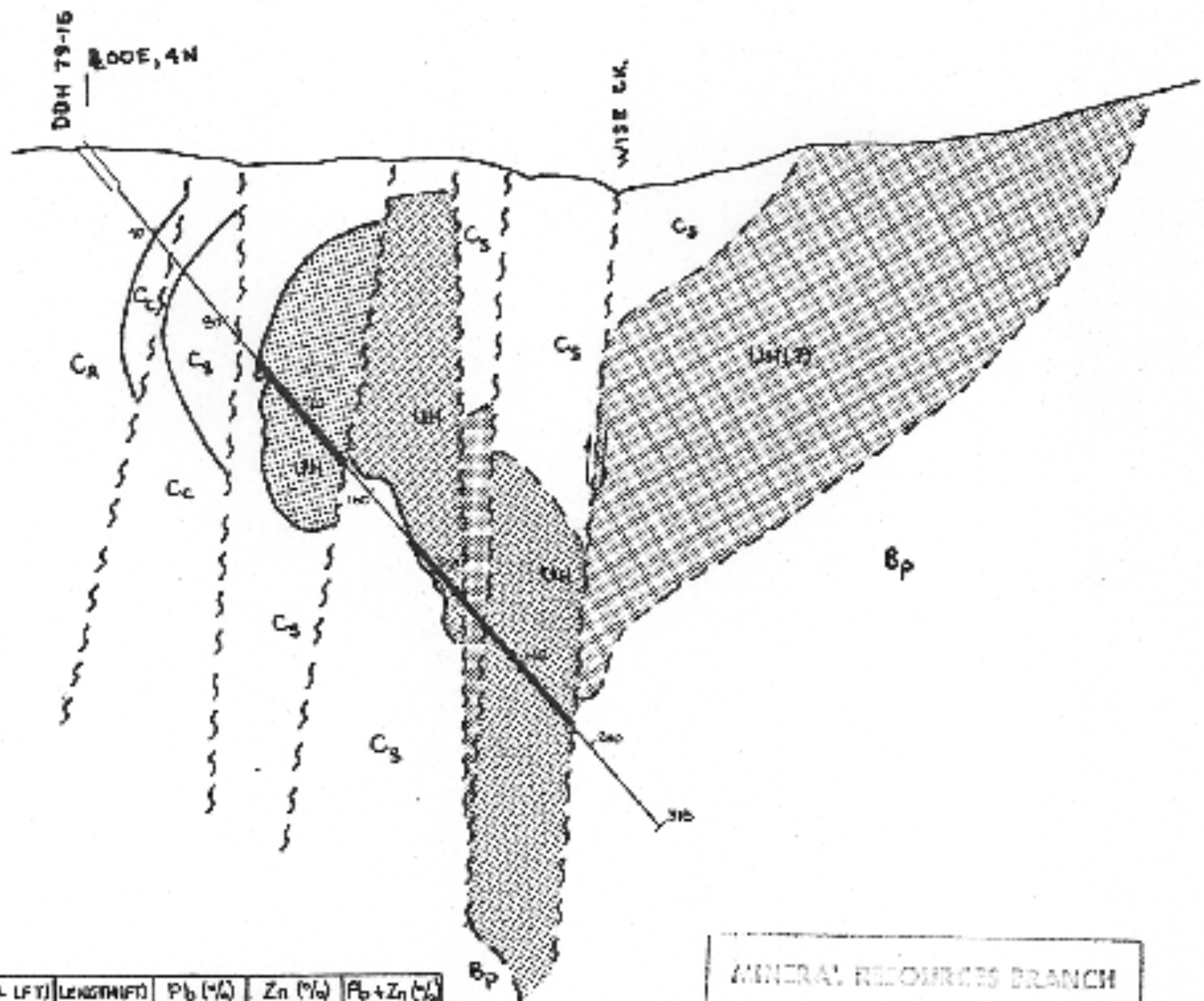


Figure A-9: Generalized cross-section, DDH 79-15



INTERVAL (FT)	LENGTH (FT)	Pb (%)	Zn (%)	Pb + Zn (%)
99.5 - 104.5	5.0	0.01	0.12	0.13
104.5 - 109.3	4.8	0.01	0.18	0.19
109.3 - 116.2	6.9	0.01	0.09	0.10
116.2 - 122.7	6.5	0.01	0.19	0.20
122.7 - 126.5	3.8	0.01	0.23	0.24
126.5 - 131.5	5.0	0.01	0.11	0.12
131.5 - 136.5	5.0	0.03	0.06	0.09
136.5 - 141.5	5.0	0.02	0.30	0.32
141.5 - 143.0	1.5	0.01	0.04	0.05
144.0 - 146.4	3.4	0.01	0.04	0.05
181.0 - 185.0	4.0	0.02	0.98	1.00
185.0 - 194.0	9.0	0.05	0.83	0.88
194.0 - 200.0	6.0	0.05	1.62	1.67
200.0 - 211.0	11.0	0.04	0.32	0.36
211.0 - 218.0	7.0	0.02	0.18	0.20
218.0 - 223.5	5.5	0.22	1.34	1.56
223.5 - 230.0	6.5	0.47	3.01	3.48
230.0 - 235.0	5.0	0.12	1.58	1.70
235.0 - 240.0	5.0	0.10	1.39	1.49
240.0 - 245.0	5.0	0.25	0.66	0.91
245.0 - 255.0	10.0	0.45	0.74	1.19
255.0 - 261.3	6.3	0.01	0.04	0.05
261.3 - 268.7	7.4	0.42	3.65	4.07

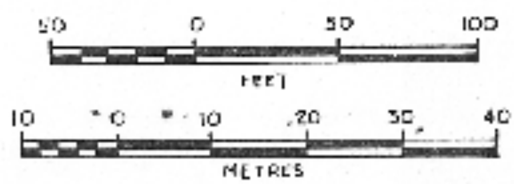


Figure A-10: Generalized cross-section, DDH 79-16

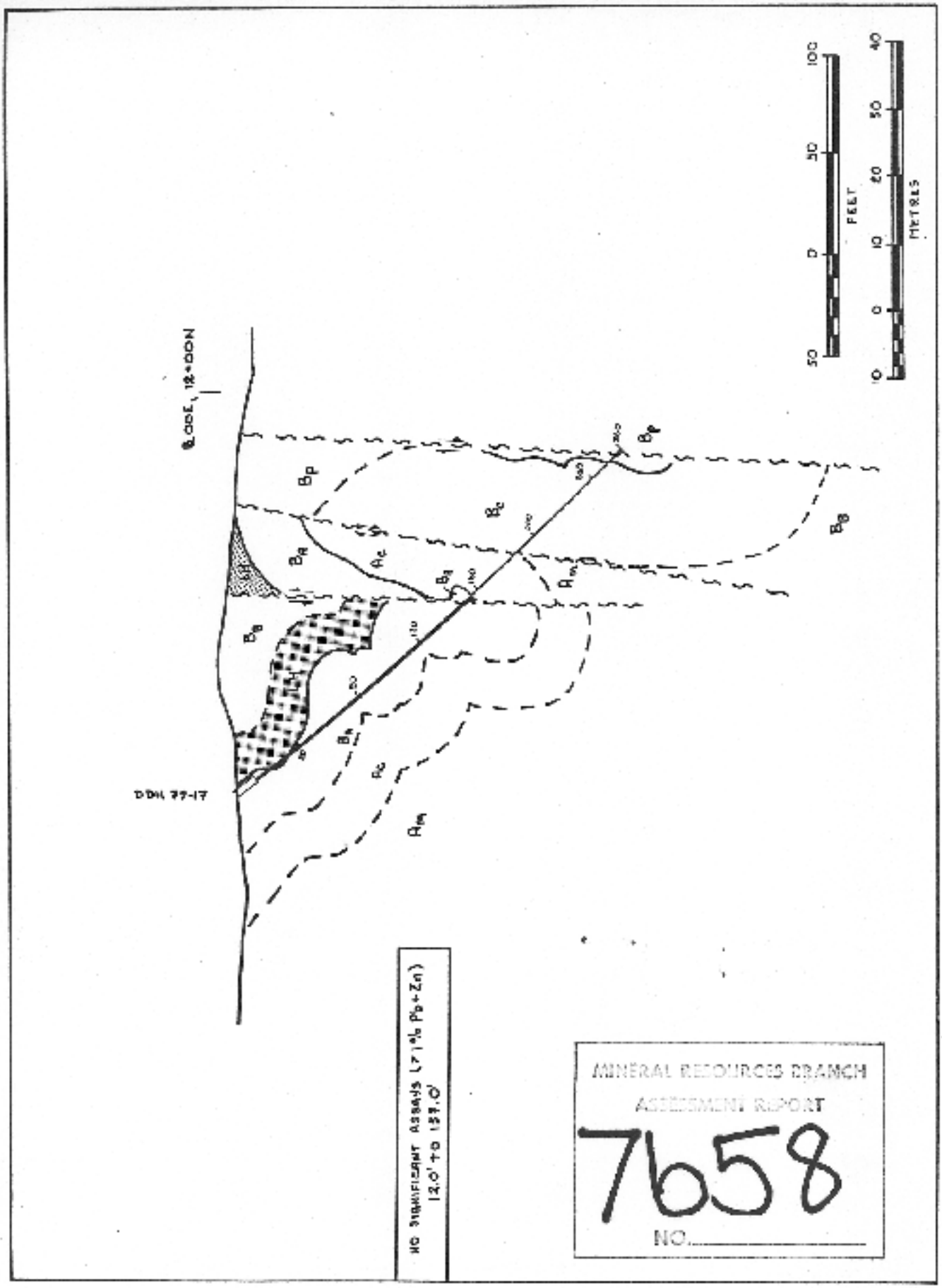
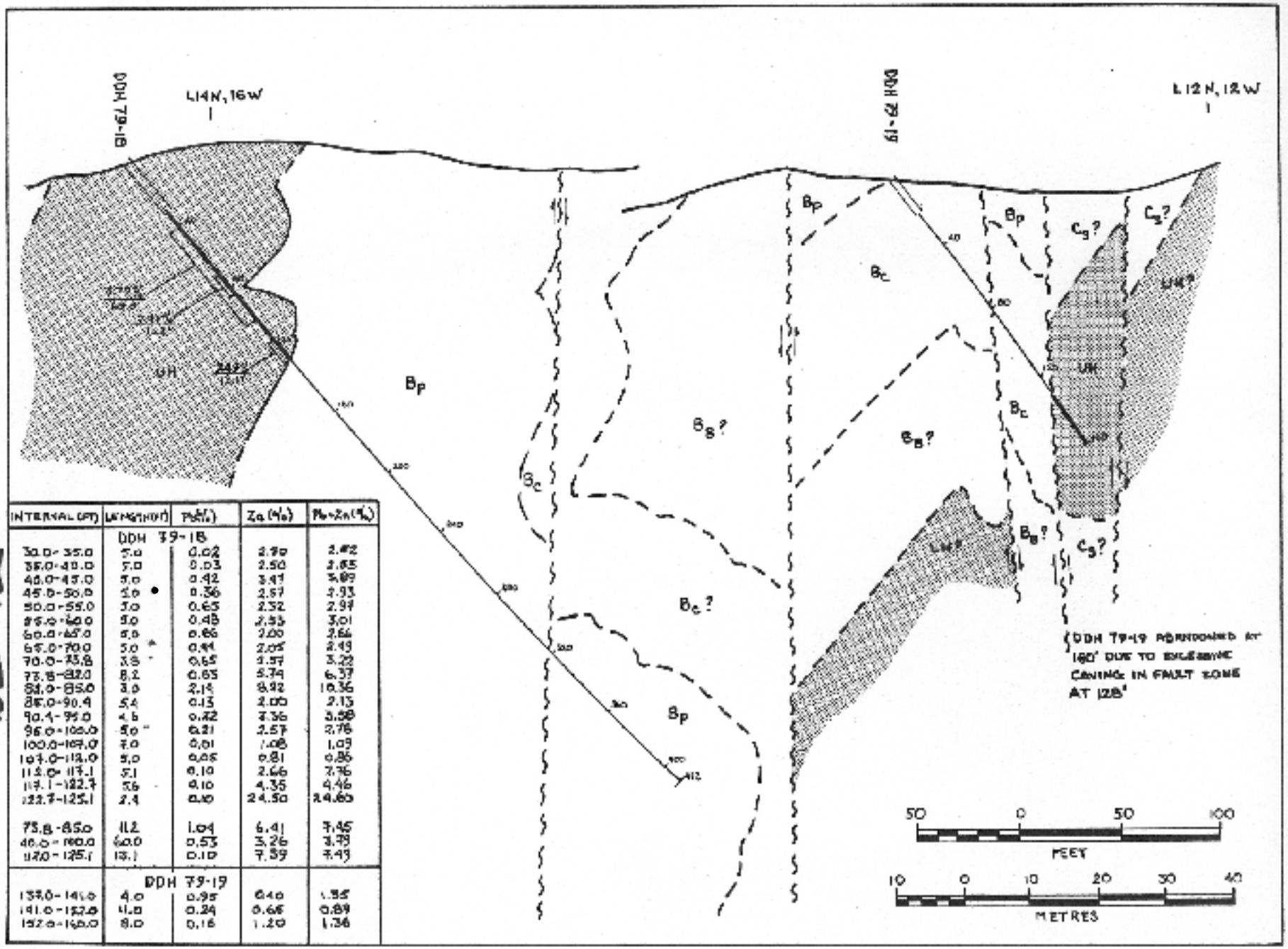


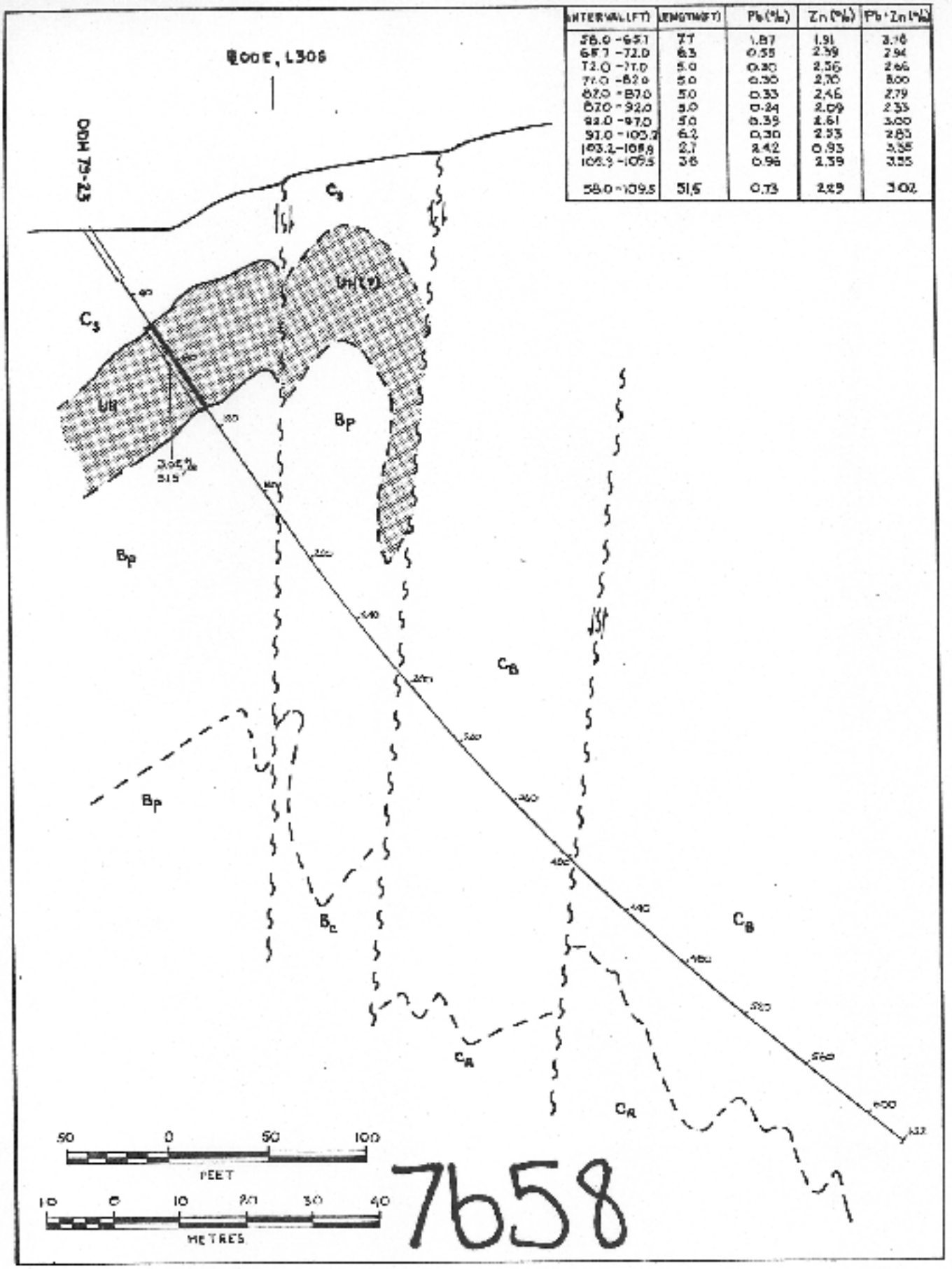
Figure A-11: Generalized cross-section, DDH 79-17



INTERVAL (FT)	LENGTH (FT)	Pb (%)	Zn (%)	Pb+Zn (%)
	DDH 79-18			
30.0-35.0	5.0	0.02	2.90	2.92
35.0-40.0	5.0	0.03	2.50	2.65
40.0-45.0	5.0	0.42	3.41	3.89
45.0-50.0	5.0	0.36	2.57	2.93
50.0-55.0	5.0	0.65	2.32	2.99
55.0-60.0	5.0	0.48	2.53	3.01
60.0-65.0	5.0	0.66	2.00	2.66
65.0-70.0	5.0	0.44	2.05	2.49
70.0-73.8	3.8	0.65	2.57	3.22
73.8-82.0	8.2	0.65	5.74	6.37
82.0-85.0	3.0	2.14	8.92	10.36
85.0-90.4	5.4	0.13	2.00	2.13
90.4-95.0	4.6	0.22	2.36	2.58
95.0-100.0	5.0	0.21	2.57	2.78
100.0-107.0	7.0	0.01	1.08	1.09
107.0-112.0	5.0	0.05	0.81	0.86
112.0-117.1	5.1	0.10	2.66	2.76
117.1-122.7	5.6	0.10	4.35	4.46
122.7-125.1	2.4	0.40	24.50	24.80
75.8-85.0	11.2	1.04	6.41	7.45
46.0-160.0	60.0	0.53	3.26	3.79
120-125.1	13.1	0.10	7.59	7.69
	DDH 79-19			
139.0-141.0	4.0	0.95	0.40	1.35
141.0-152.0	11.0	0.24	0.65	0.89
152.0-160.0	8.0	0.16	1.20	1.36

8591

Figure A-12: Generalized cross-section, DDH 79-18 and 79-19



INTERVAL (FT)	LENGTH (FT)	Pb (%)	Zn (%)	Pb + Zn (%)
58.0 - 65.1	7.1	1.87	1.91	3.78
65.1 - 72.0	6.5	0.55	2.39	2.94
72.0 - 77.0	5.0	0.30	2.36	2.66
77.0 - 82.0	5.0	0.30	2.70	3.00
82.0 - 87.0	5.0	0.33	2.46	2.79
87.0 - 92.0	5.0	0.24	2.09	2.33
92.0 - 97.0	5.0	0.39	2.61	3.00
97.0 - 103.2	6.2	0.30	2.33	2.63
103.2 - 106.9	3.7	2.42	0.93	3.35
106.9 - 109.5	2.6	0.96	2.39	3.35
58.0 - 109.5	51.5	0.73	2.29	3.02

Figure 4-14: Generalized cross-section, DDH 79-23

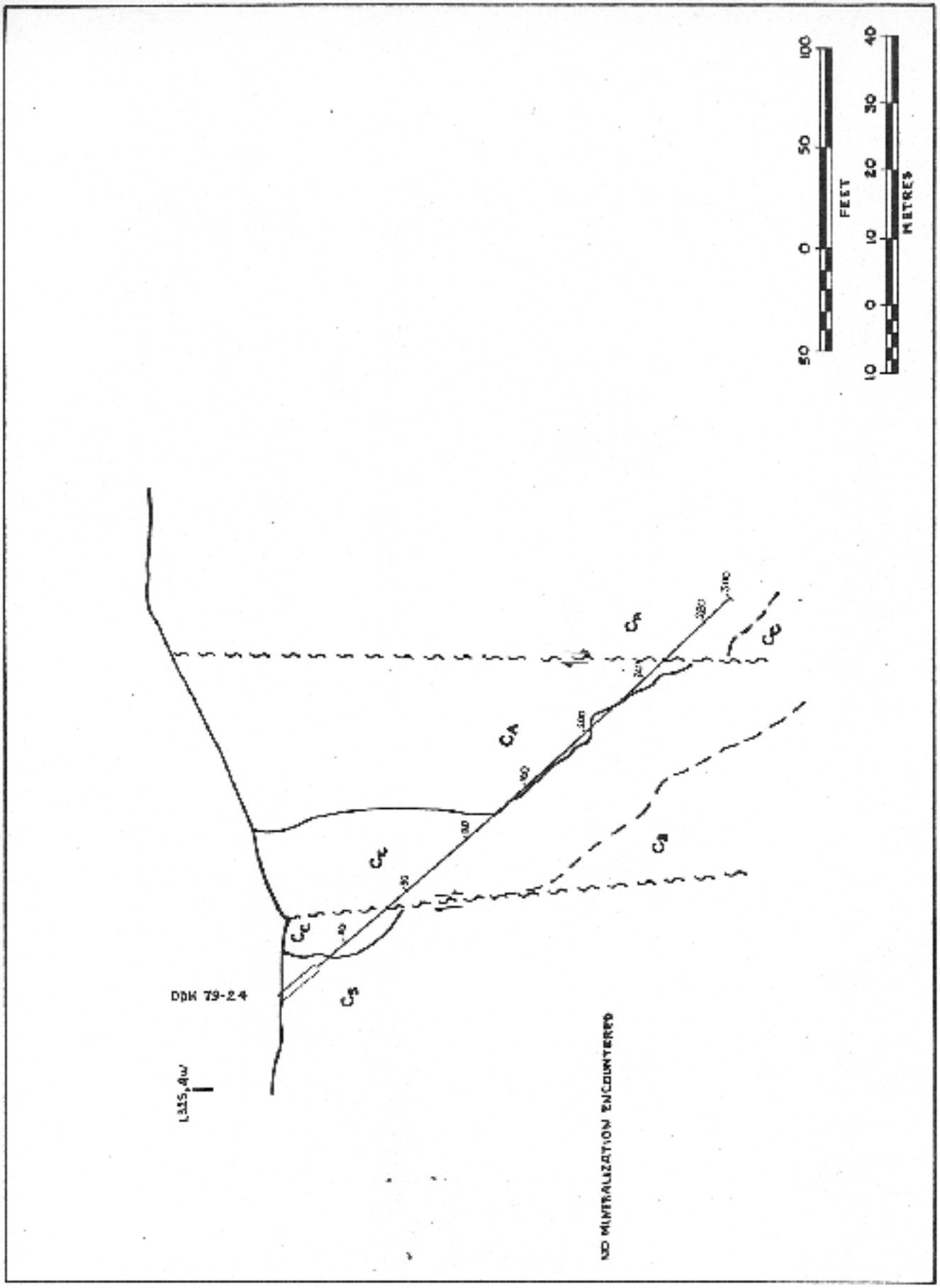


Figure A-15: Generalized cross-section, DDH 79-24

7658

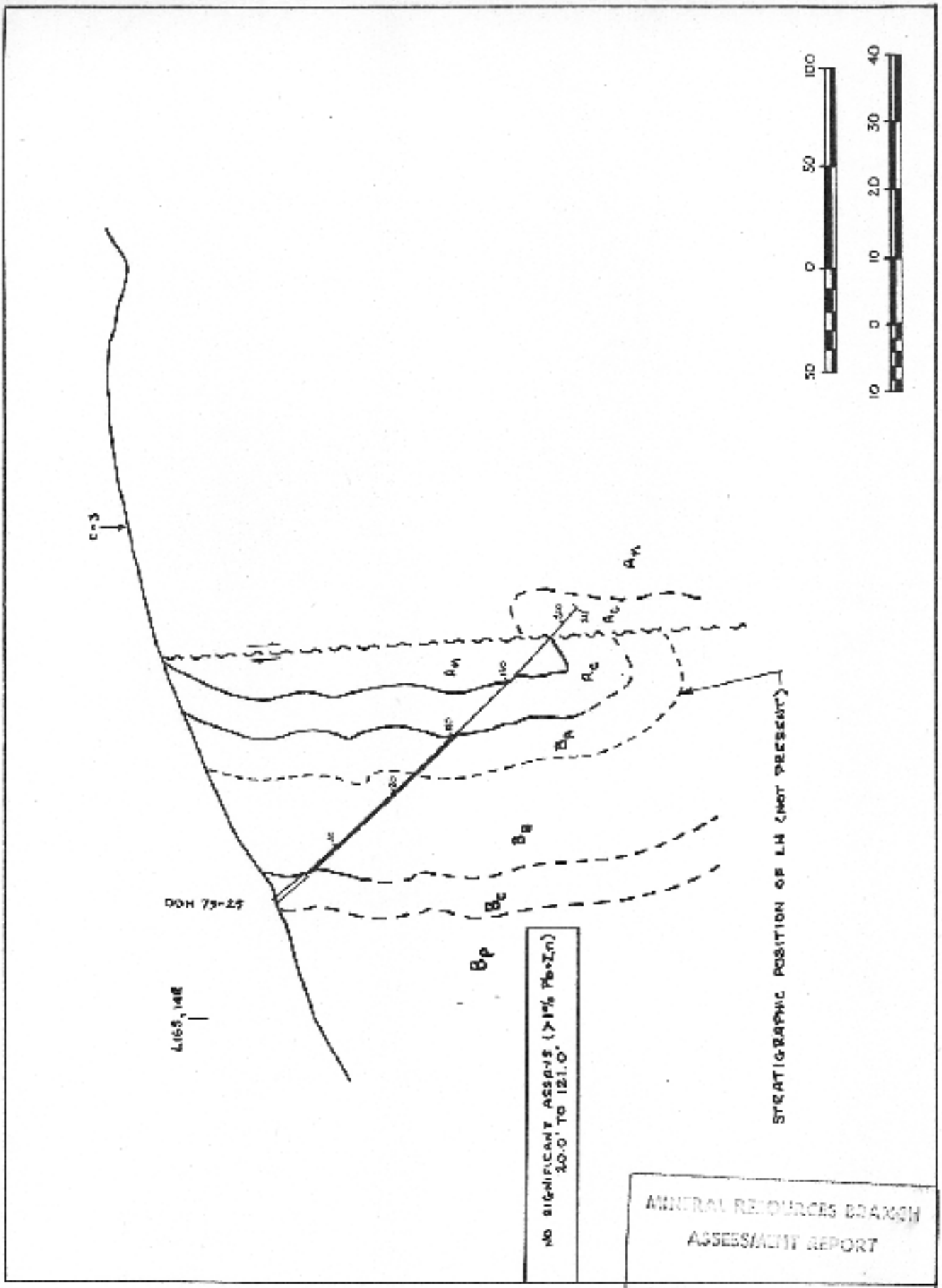
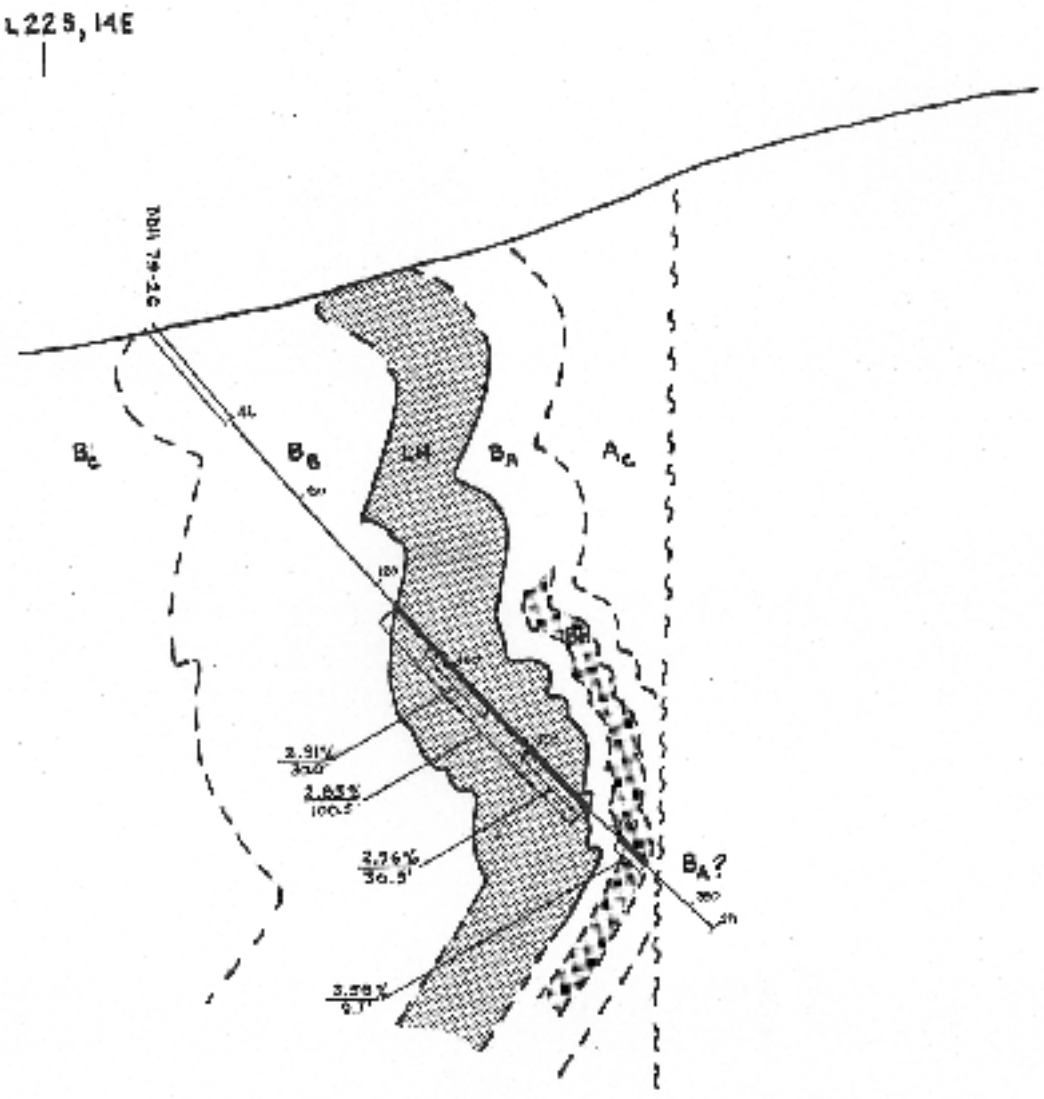
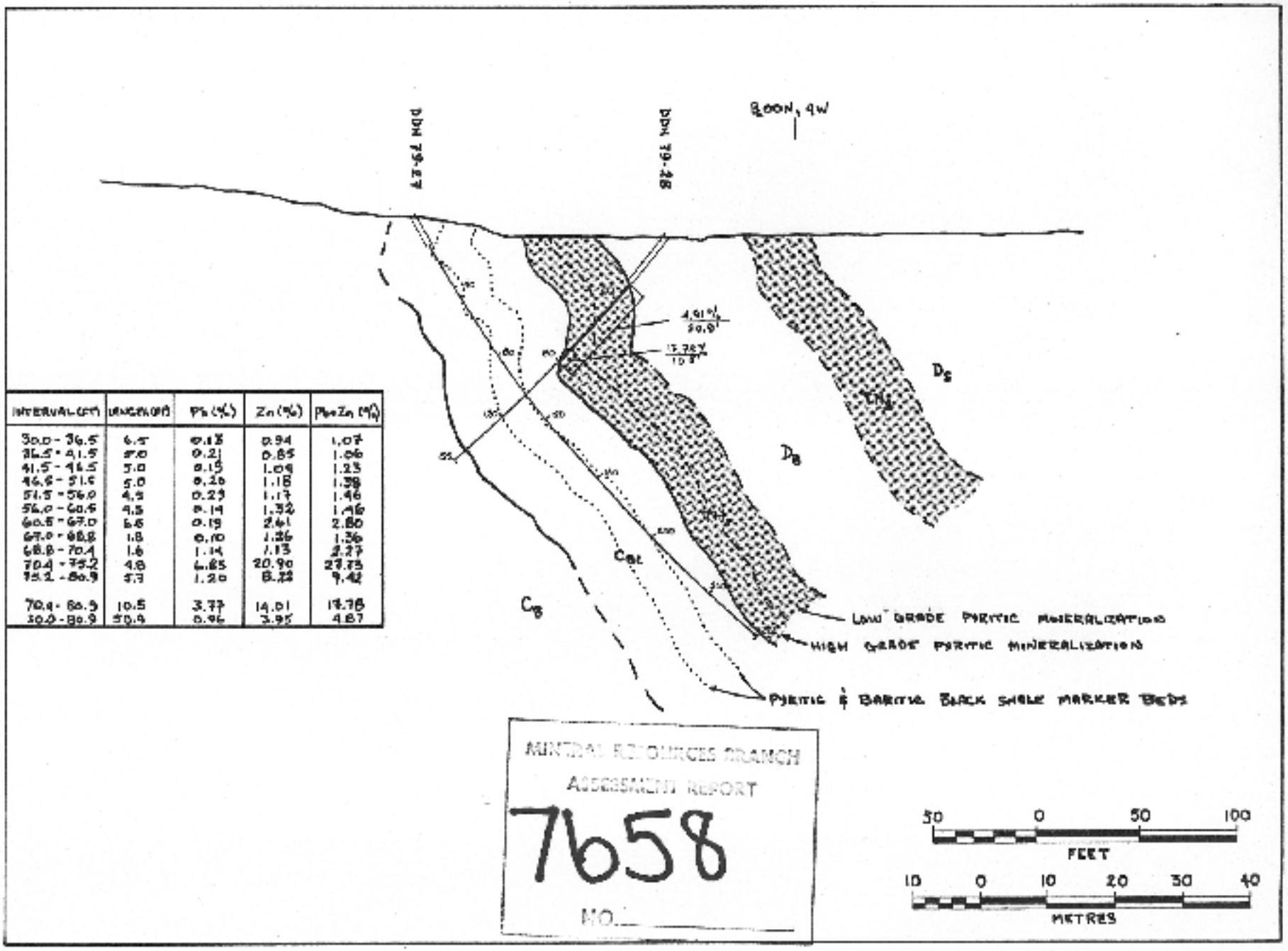


Figure A-16: Generalized cross-section, DDH 79-25



INTERVAL (FT)	LENGTH (FT)	Pb(%)	Zn(%)	Pb+Zn(%)
150.4-151.7	1.3	0.57	0.59	1.16
151.7-155.0	3.3	1.54	7.16	8.70
155.0-160.0	5.0	0.41	2.47	2.88
160.0-170.0	10.0	0.21	1.32	1.53
170.0-180.0	10.0	0.33	2.47	2.80
180.0-190.0	10.0	0.24	2.82	3.06
190.0-180.0	10.0	0.34	2.33	2.77
180.0-185.7	5.7	0.40	0.79	1.19
185.7-195.0	9.3	0.15	2.25	2.40
195.0-200.0	5.0	0.20	2.36	2.56
200.0-205.0	5.0	0.40	2.87	3.27
205.0-210.0	5.0	0.32	2.56	2.88
210.0-215.0	5.0	0.26	2.53	2.79
215.0-220.0	5.0	0.29	3.05	3.34
220.0-225.0	5.0	0.36	2.61	2.97
225.0-230.9	5.9	0.34	2.90	3.24
245.3-250.0	4.7	0.74	2.10	2.84
250.0-255.0	5.0	0.58	3.65	4.23
150.0-180.0	30.0	0.27	2.64	2.91
220.0-250.9	30.9	0.53	2.43	2.96
180.4-280.9	100.5	0.32	2.53	2.85
245.3-255.0	9.7	0.66	2.90	3.56

Figure A-17: Generalized cross-section, DDH 79-26



INTERVAL (FT)	LENGTH (FT)	Pb (%)	Zn (%)	Pb+Zn (%)
30.0 - 36.5	6.5	0.13	0.94	1.07
36.5 - 41.5	5.0	0.21	0.85	1.06
41.5 - 46.5	5.0	0.15	1.09	1.23
46.5 - 51.5	5.0	0.26	1.18	1.38
51.5 - 56.0	4.5	0.29	1.17	1.46
56.0 - 60.5	4.5	0.14	1.32	1.46
60.5 - 67.0	6.6	0.19	2.61	2.80
67.0 - 68.8	1.8	0.10	1.26	1.36
68.8 - 70.4	1.6	1.14	1.13	2.27
70.4 - 75.2	4.8	6.85	20.90	27.75
75.2 - 80.9	5.7	1.20	8.22	9.42
70.4 - 80.9	10.5	3.77	14.01	17.78
30.0 - 80.9	50.4	0.96	3.95	4.87

Figure A-18: Generalized cross-section, DDH 79-27 and 79-28

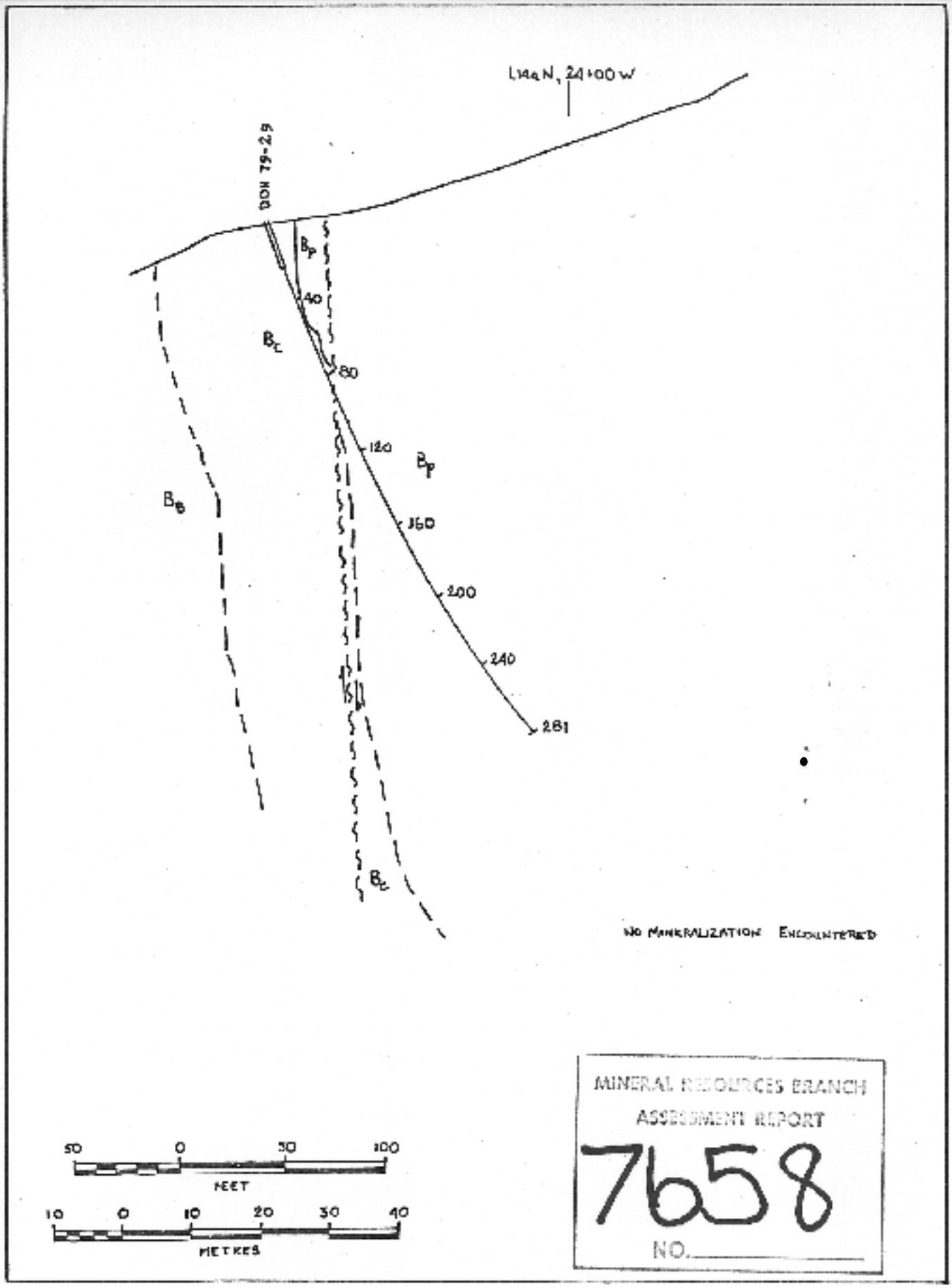
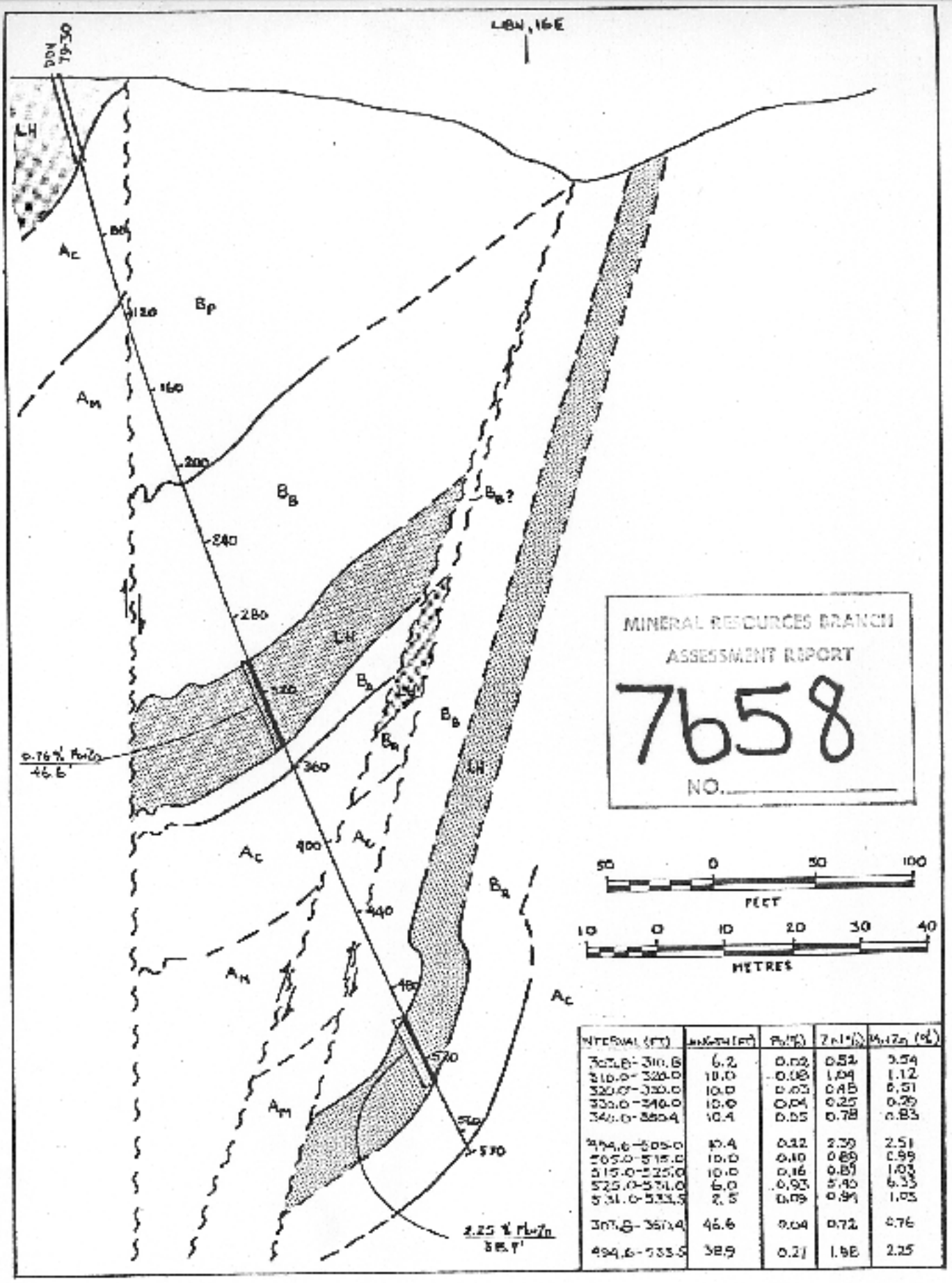


Figure A-19: Generalized cross-section, DDH 79-29



INTERVAL (FT)	LENGTH (FT)	Pb (%)	Zn (%)	Pb+Zn (%)
308.8 - 310.8	6.2	0.02	0.52	0.54
310.0 - 320.0	10.0	0.08	1.04	1.12
320.0 - 330.0	10.0	0.03	0.48	0.51
330.0 - 340.0	10.0	0.04	0.25	0.29
340.0 - 350.4	10.4	0.05	0.78	0.83
494.6 - 505.0	10.4	0.12	2.39	2.51
505.0 - 515.0	10.0	0.10	0.89	0.99
515.0 - 525.0	10.0	0.16	0.87	1.03
525.0 - 531.0	6.0	0.93	5.40	6.33
531.0 - 533.5	2.5	0.09	0.94	1.03
307.8 - 350.4	46.6	0.04	0.72	0.76
494.6 - 533.5	38.9	0.21	1.98	2.25

Figure A-20: Generalized cross-section, DDH 79-30

APPENDIX B - DIAMOND DRILL LOGS

Project	NTS	Scale	Page of	Traverse
Sampler	Location, Target (words)		Sample Nos	
Date	photo no.		Cert. Nos	

DON'T FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, OBSERVED GEOLOGY: DEFINED —— INFERRED- - - ASSUMED.....

SPECIMEN SITE A,B,...; DO NOT WRITE ON OTHER SIDE OR USE COLOURS

ATTITUDES: (100/40 N)

SILT X SOL ● ROCK ● PAN △ WATER O

GOSSAN, MINERALS — INTRUSIVE — LIMESTONE DOLOMITE — SHALE — CHERT — VOLCANIC — CONGLOMERATE — SANDSTONE SILTSTONE

STRUCTURES

MODERATE SHEARING

STRONG SHEARING, FAULT GOUGE

BRECCIATED

[illegible] FILLED WITH QZ-CO_3 VEINS

VERY CONTORTED ROCK

QZ-CO_3 VEIN SWARMS

QZ-CO_3 VEIN INTERSECTION

LITHOLOGIES

THIN (<2CM) RADIOLARIAN CHERT OR CHERTY ARGILLITE BEDS

THICK (>2CM) CHERTY ARGILLITE BEDS

LOW-VERY SILICEOUS BLK SHALE

SLIGHTLY GRITTY BLACK SHALE

CALCAREOUS BLACK SHALE

BLACK LIMESTONE BEDS

BLACK SHALE WITH IRREGULAR PYRITE-CARBONATE-HYDROCARBON MASSES OR "SWEATS"

"TUFF" OR "TUFFACEOUS" SILTSTONE, OFTEN CALCAREOUS

MASSIVE SULPHIDE OR BARITIC MINERALIZATION

NODULAR OR "BLEBBY" BARITIC SHALE

BARITE-SILICA CONCRETIONS OR "BEADS"

BARITE - BARIUM(?) CARBONATE - CALCITE SEPTARIAN NODULES

UNIDENTIFIED CARBONATE MINERAL (PROBABLY $CaCO_3$) SEPTARIAN NODULES

$CaCO_3$ NODULES (BOUDINED BEDS?); LARGE (>9CM), SMALL (<4CM)

"BANDED", BLACK AND DARK GREY SHALE

THIN PYRITE LAMINAE (CONFORMABLE TO BEDDING); ~EVERY 3-6 MM, ~EVERY 1-3 MM

THIN MINERALIZED BEDS IN OTHERWISE BARREN SECTIONS.

GJV
DRIFTPILE PROJECT
DIAMOND DRILL CORE
VISUAL LOG (CLJ)
JULY 19, 1974

GEOCHEM: Cu Mo Pb Zn Ag ... assay ...

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-10

COORD. L125, 0 H60W DIP ___ AZIM. ___ ELEV. ___ SIZE ___ STARTED ___ COMPLETED ___ LOGGED BY R. CRAIG

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS	%	CORE ANGLE Bedding W	CORE ANGLE Bedding E	CORE ANGLE Structure W	CORE ANGLE Structure E	PYRITE Lam. Thickness	PYRITE Lam. %	PYRITE Diss. Size	PYRITE Diss. %	BARITE Bed. Thickness	BARITE Bed. %	BARITE Bleb. Size	BARITE Bleb. %	CO_3 Type	CO_3 %	OTHER Description	OTHER %	ANALYSES % Pb	ppm Pb	% Zn	ppm Zn	% Cu	ppm Cu	oz. Ag	ppm Ag	% Ba	ppm Ba
MIN'D				BLK NON-SIL SHAL BEDS TO 1 CM	05	50	W	54		X THIN BEDS	40							BED REX'T	60												
	88.4		VFG NON-SIL BLK SHALE, MASSIVE					50																							
	89.6			6CM THICK MOD. SIL. BLK SHALE BED @ 90.4	05	46	W			X THIN BEDS	50							BED REX'T	45												
MIN'D	95.0		CONTORTED INTERVAL							THIN TO 0.6CM BEDS	40					X	05	BED REX'T	55	MASSIVE 20CM @ BASE 13CM ABOVE BART										
MIN'D	100.0		TECT BRX 6CM WIDE @ 100.7	CHERTY ARG BEDS W SL TO 6CM	10	35	W			X THIN BEDS	50				15			BED REX'T	25												
MIN'D	105.0		CONTORTED NR END	NON-SIL. BLK SHALE BEDS TO 6 CM	20	40	W			THIN	40							BED REX'T	40												
MIN'D	110.0			NON-SIL BLK SHALE BEDS TO 2CM	05	28	W	44		X	35								60												
	115.6		MASSIVE, MOD SIL. BLK SHALE, VFG																												
MIN'D	116.2			NON-SIL BLK SHALE BEDS TO 1.5 CM	10	32	W	53		X THIN	50							BED REX'T	40												
MIN'D	120.0		CONTORTED THIN FLT GOUGE @ 124.0	MOD SIL. BLK SHALE BEDS TO 3.5CM	15	5 80 S	E 5	51		X THIN	35							BED REX'T	50												
	123.8		NON-SIL, VFG BLK SHALE	QZ-CD VEINING MINOR PY BEDS						X THIN	05																				
MIN'D	125.7			MOD. SIL BLK SHALE BEDS TO 3CM	10	85	E	52		X THIN-MOD	35							BED REX'T	55												
	130.0																														

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-10

COORD. _____ DIP ____ AZIM ____ ELEV. _____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % Pb	ppm Zn	% Cu	ppm Ag	oz. Ba	% ppm
MIN'D				MOD. SIL, SLIGHTLY GRITTY BLK SHALE BEDS TO 1.5cm 05	40/E	52 ↘	X 45 THIN-MOD				BED 50 REX'T							
	135.0																	
MIN'D			SHEARED 139.5-141.2 QZ VEIN & FLT GG	THIN BLK SHALE BEDS. 05	W/40	54 ↘ CLV SHR	X 45 THIN-MOD				BED 50 REX'T	80% CORE RECOVERY						
	141.2																	
MIN'D			SHEARED 144.0-144.5' QZ-CO_3 VEINING & FLT GG	BLK SHALE TO 2CM LINEATIONS ↓ 15° GRID NORTH 20	63/NE	50 ↗ CLV FOLIATION PL	X 35 THIN-MOD				BED 45 REX'T	85% CORE REC.						
	145.5																	
MIN'D			BRXY'D & SHEARED	BLK SHALE TO 2CM 10	50/E	47 ↗	X 40 THIN-MOD				BED 50 REX'T							
	147.6																	
			NON-SIL., VFG BLK SHALE	QZ VEIN · NEAR CENTRE OF INTERVAL	23/W	50 ↘	X T V.THIN											
	149.0																	
MIN'D			BRECCIATED			54 ↘	X 55 MOD				45 SOS	75% CORE RECOVERY						
	155.0																	
MIN'D				MOD. SIL. BLK SHALE BEDS TO 2 CM 10	82/W	48 ↘	X 55 MOD-THICK				45 SOS							
	159.2																	
			VFG, NON-SIL. BLK SHALE		58/W	55 ↘	X T THIN SCATTERED											
	161.2																	
MIN'D				MOD. SIL. BLK SHALE BEDS (<0.4CM) FLAM 05	87/W	52 ↘	X 55 MOD-V.THICK				40 SOS							
	165.0																	
MIN'D				· SOS 05	76/W	58 ↘	X 55 SOS				40 SOS							
	170.0																	
MIN'D				SOS 05	70/W	·	X 55 SOS				40 SOS							
	175.0																	
MIN'D				SOS 05	(BASE) E/20	47 ↘	X 45 SOS				50 SOS							
	177.7																	

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-10

COORD ____ DIP ____ AZIM ____ ELEV. ____ SIZE ____ STARTED ____ COMPLETED ____ LOGGED BY ____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER % Description	ANALYSES % Pb ppm	% Zn ppm	% Cu ppm	oz. Ag ppm	% Ba pc
			NON-SIL MASSIVE BLK SHALE, VFG			/55											
	181.8																
MIN'D				4.5 CM INTERVAL OF GREY CHRT @ TOP	45/W		X 15 V.THIN				BED 85 VERY THICK						
	182.3																
MIN'D				NON-SIL, VFG BLK SHALE BEDS < 4 CM 10	20/W (HORIZ)	/55	X 45 MOD				BED 45 MOD						
JH	190.0																
MIN'D				SOS	07/W	/54	X 40 SOS				50 SOS						
	194.9																
MIN'D			ALMOST MASSIVE PY AT BASE	V. THIN LAM BLK SHALE 15	04/W		X 80 V. THIN				X 5 NR BASE						
	196.8																
			VERY-MOD. SIL BLK SHALE SiO_2 ↓ D/S	4-8 CM THICK SECTIONS DK GREY CHERT ESP NR TOP 10	10/W	/65	X 05 MINOR NR TOP				MEN 05 W CHRT						
	205.0																
BP			MOD SIL BLK SHALE	THIN RAD CHRT INTERVALS 10	25/W	/50		X T IN THIN ZONES									
	210.0																
			V. SIL. INTERVALS SOS	SOS. 10	35/W 55 E (VERT)	/55		X T SOS									
	215.0																
			MOD-V. SIL BLK SHALE	INTERBEDS GREY CHERT 10	30/W	/53		X T SOS									
	220.0																
			SOS	NO CHERT	15/W	/55											
	225.0																
			SOS SILICA CONTENT VARIABLE →	OVER 0.5 TO 1.5 M.	04/W	/47											
	230.0																
			SOS NOW SLIGHTLY GRITTY		02/W	/50											
	240.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-10

COORD. _____ DIP ____ AZIM. ____ ELEV. _____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS %	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	$CO_3^=$ % Type Size	OTHER % Description	ANALYSES % Pb ppm	% Zn ppm	% Cu ppm	Ag oz. ppm	% Ba
			MOD. SIL., SLIGHTLY GRITTY BLK SHAL BANDED APPEAR	SCATTERED T 42CM CHERT BEDS	08/W	38		X T IN BANDS									
	251.2		"POKER-CHIP" BLK SHALE	SILICA CONTENT VARIABLE	10/W	45	X T DISCONT. EVERY 1-2 MM										
	260.0		SOS		12/W – 42/NE	47	X T NOW EVERY 4-6 MM										
	270.0		SOS SHEARING NR BASE	CHERTY BEDS NR BASE	60/W	44	X T EVERY 2-4 CM										
	280.0		SOS	NO CHERT	15/W	40	X T SCATTERED										
	290.0		SOS SILICA VARIABLE LOW-VERY SIL.		20/NW	35	X T EVERY 6-10 MM										
	300.0		SOS AS ABOVE	MINOR THIN CHERTY BEDS	38/W	26	X T VARIABLE				BED X 16 CM @ BASE						
	310.0		SOS		19/W – 07/W	23	X T VARIABLE										
	320.0		SOS	BRXY'D & SHEARED W. SIDE UP?	25/W	SHR PL 35 / 25											
	330.0		LOW-MOD SIL, GRITTY BLACK SHALE, LAST 20 CM CHERTY	SCATTERED, <1CM $CO_3^=$ BEDS	50/W – 48/NW	20		X T SCATTERED BLEBS & DISSEM									
	342.0		END														

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-11

COORD 145 12+50 W DIP -60°E AZIM. 255 ELEV. ____ SIZE BQ STARTED May 23/79 COMPLETED May 28/78 LOGGED BY R. Couling

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE Bedding W	CORE ANGLE Bedding E	CORE ANGLE Structure W	CORE ANGLE Structure E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	CO_3 Type % / Size	OTHER % Description	ANALYSES % ppm Pb	% ppm Zn	% ppm Cu	oz. ppm Ag	% ppm Ba
	0		OVB CASING																
	12.0		V. SIL. CHERTY BLK ARGL. SCATTERED THICK 1-2MM Py (FUZZY) BEDS.	LRGE CO_3 NOD, THIN (<1CM) RAD. CHERT BEDS	16/W		45		BED Tr / 1-2 MM SCATTERED				NOD Tr / >8CM						
	20.0		SOS	BRXY'D 23'-24', Q_2-CO_3 VEINING	10/W		64		BED Tr / "				/ 11						
	30.0		SOS		45/E (34')		55		BED Tr / "				NOD Tr / 11						
	39.5		MOD-V. SIL., CARB BLK. SHALE BANDED, CALC. BLEBS ALONG BDS	1. LRGE CO_3 NOD. PY-CO_3 BLEBS, MINOR CALC. SHALE	55/E		53		/	X Tr / BDD BLEBS & CO_3			NOD 5 / V. LRGE >ADCM						
	50.0		NOW LOW SIL., V. CARB DECRETE Py LAM & Py-CO_3 BLEBS	BEDDED LSN - SLIGHTLY CALC	38/E-FLAT		45		LAM Tr / EVERY 1-2 MM	X Tr / "			BEDS 5 / <25CM						
	60.0		SOS NOW MOD SIL LOW CALC.	SCATTERED RAD. CHERT BEDS <3CM	37/SE		56		LAM Tr / SCATTERED	X Tr / "			/						
	74.5		V. SIL. CHERTY BLK ARGL.	RAD. CHRT BEDS <3CM	14/SE-FLAT		55		/	X Tr / LW CHRT INTERBEDS			/						
	80.0		SOS BRXY'D & SHEARED AT BASE	SOS	28/E		56	62	LAM Tr / SCATTERED	X Tr / BLEBS & CO_3			/						
	84.5		MOD. SIL., V. CARB BLK SHALE & CHERTY INTERBEDS	RAD. CHRT BEDS <1CM	46/W		55		LENS Tr / <1CM SCATTERED										
	90.0		SOS	SOS	32/W		50		/										
	100																		

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-11

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS	%	CORE ANGLE Bedding W / E	CORE ANGLE Structure W / E	PYRITE Lam. / Thickness	%	PYRITE Diss. / Size	%	BARITE Bed. / Thickness	%	BARITE Bleb. / Size	%	CO_3 Type / Size	%	OTHER Description	%	ANALYSES Pb	ppm	Zn	ppm	Cu	ppm	Ag	oz.	ppm	Ba	ppm
			NOW. J. SIL. THIRTY ARGL W MOD. SIL INTERBEDS	RAD. CHERT BEDS < 3CM	10	28/WSW; E/75	58	X Tr; <1 MM SCATTERED		X Tr; IN CHERT																				
	110.0		SOS CONTORTED BRX'D 117–123'	SOS		70/WSW; 07/W	52	X Tr; "		X Tr; "																				
	123.0		LOW-MOD. SIL., V. CARB. BLK SHALE W FUZZY PY LAM	RAD CHRT BEDS <3CM SCATTERED PY BEDS (~6 MM) (LENSES)		29 E (FLAT); 45 E (FLAT)	48	X Tr; <1MM EVERY 2-3 MM		X Tr; CO_3-PY BLEBS						BLEB Tr W PY												
	130.0		SOS	SOS		10/W	48	X Tr; "		X Tr; "						BLEB Tr W PY												
	140.0		SOS	SCATTERED, THICK (<15CM) VFG CHERT BEDS		50 E (FLAT); 59 E (FLAT)	45	X Tr; "		—; —																		
	148.0		INTERBEDDED MOD. SIL. BLK SHALE & BLK CHERTY ARGL	FREQUENT THIN (<1 CM) RAD. CHERT	10	25/W; 24/W	49	BED Tr; SCATTERED <0.8CM		X Tr; IN RAD CHERT																		
	160.0		SOS	SOS		23/W; 24/WSW	55	BED Tr; "		X Tr; "																		
	169.5		FLT BRX'Y, GOUGE	PARTIALLY CEMENTED W Qz-CO_3, PY IN MATRIX			SHR R 53			X; IN BRX'Y MATRIX																		
	181.5		MOD-V. SIL. BLK SHALE W CHERTY INTERBEDS	LIGN BEDS TO 6 CM, PY LAM IN LIGN	15	44/W; 65 W (VERT); 40/W	57	X Tr; "FUZZY" IN CHERTY ARGL								BED												
	190.0		LOW-MOD. SIL. SHALE, MINOR CHERTY INTERBEDS; POOR CLV DEV'T	LIGN BEDS & NODULES TO 10CM	20	E 65 (VERT); E 52 (VERT)	53	BED 05; THIN								BED; & NOD												
	200.0		SOS POOR CLV DEV'T	SOS		30/SW (FLAT); 52/SE	40	BED Tr; THIN								BED; & NOD												
	210.0		SOS POOR CLV DEV	SOS		15/W (VERT)	45	BED Tr; THIN								BED; & NOD												
	220.0																												

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-11

COORD. ____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED ____ COMPLETED ____ LOGGED BY ____

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS %	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER % Description	ANALYSES % ppm Pb	% ppm Zn	% ppm Cu	oz. ppm Ag	% ppm Ba
			SOS POOR CLV DEVT	SOS.	70 E	38	BED Tr THIN				BED 10 & NOD TO 4CM						
	222.5		FLT GOUGE & BRXY			44 SHR FL											
	225.0		MOD. SIL, SLIGHTLY GRITTY BLK SHALE ELLIPSOIDAL PY-QTZ-CO_3 BLEBS, MINOR RHO-CO_3 BEDS	INTERBEDS & NOD. OF BLACK CO_3 MINOR CHERTY SHALE 35	34 / VERT	38	BED THIN CO_3 BEDS	X Tr PY-CO_3 BLEBS			BED 35 & NOD, BLEBS						
	230.0		SOS LESS PY-QZ-CO_3 BLEBS	SOS 25	46 / VERT E	35	BED 4	X Tr 11			BED 25 & NOD						
	240.0		MOD-U. SIL. BLK SHALE, CHERTY INTERBEDS	SCATTERED USN BEDS (BANDED) TO 8-10 CM 10	62 SE (STEEP) / AS (VERT) E	35	BED				BED 10	40% CORE REC., 244'-248' MISSING						
	250.0		NOW LOW-MOD SIL. SHALE SLIGHTLY CALC.	THIN GREY TUFF(?) BEDS MINOR CO_3^- BEDS	22 / WSW (VERT)	35					BED 05	60% CORE RECOVERY						
	260.0		SOS	SOS 6CM CO_3 BED AT BASE	22 / WNW (VERT)	34					NOD Tr TO 5CM	60% CORE RECOVERY 264-265 MISSING						
	267.0		LOW-MOD SIL W/ CHERTY INTERVALS V. THIN PY LAM REX'T CO_3 IN SHALE	STRONG SOFT SED. DEF'N. TRUNCATION MARKD BY THIN CLASTIC BED	27 W (STEEP) 25 / W	36	X Tr EVERY 2-3 MM												
	280.0		NOW MOD. SIL. SOS V. CARB.	16 CM BED CO_3, Tr AT 283'	05 W (STEEP)	32					BED Tr 16 CM	40% CORE REC. 285'-290'						
	290.0		SOS.	CO_3 BEDS TO 6CM 10	27 W (STEEP)	34					BED 10 3-6 CM	30% CORE REC. 290'-295'						
	300.0		SOS	CO_3 BEDS TO 4CM 05	N/A	34					BED 05 2-4 CM	80% CORE REC. 300'-310'						
	310.0		SOS		N/A	N/A						20% CORE REC. 310'-315'						
	315.0																		

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-11

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER % Description	ANALYSES % ppm Pb	% ppm Zn	% ppm Cu	oz. ppm Ag	% ppm Ba
			MOD-V. SILICEOUS BANDED FG ARGL	CHERTY INTERBEDS, GREYISH WHITE BEDS @ PY	10 W (STEEP) 11 W	35		K Tr W GREY-WH BEDS									
	320.0		MOD-V. SIL. BLK SHALE, V. CARB. THIN PY LAM	CHERTY BLK ARGL INTERBEDS 19 CM CO_3 BED @ 327.9	10 W (STEEP) 10 W (11)	30	K Tr THIN				BED 01 19 CM						
	330.0		SOS MINOR THIN PY LAM, SCATTERED 1-1.5 CM THICK PY	SCATTERED CHERTY ARGL FGRITTY (RAD?) CHERTY ARGL.	20% (VERY) 15 NW (VERY)	20											
	340.0		NOW V. SIL. BLK SHALE	RAD. CHRT INTERBEDS (DISSEM PY). 20	15 NW (VERY) E/43	25		K Tr IN CHERT									
	360.0		SOS	SOS	23 W (STEEP)	28						25% CORE REC					
	380		SOS	SOS MINOR CO_3 MD	N/A 15 W (STEEP)	35	X Tr THIN				NOD Tr						
	370.0		SOS BRXYD NEAR BASE	CO_3 BEDS NR BASE	15 W (11)						BED Tr <7 CM						
	382.1		MOD-V. SIL. BLK SHALE	THIN RAD CHERT INTERBEDS CO_3 BEDS @ MID.	20 W	35					BED Tr <8 CM						
	3400		SHEARED & BRXYD TO 396.5' SOS	THIN (<4CM) CO_3 BEDS @ TOP		25					BED Tr <4CM						
	396.5		MOD-V. SIL., SLIGHTLY GRITTY BLK SHALE SCATTERED PY LAM	NO CHERTY BEDS LIGHT BED (15CM) @ 400	10 W (STEEP)	20	X Tr THIN LAM				BED Tr 15CM						
	400.0		V SIL. TO CHERTY BLK ARGL W PY LAM & BEDS	<4CM CO_3 NOD @ 408.5'	15 W (STEEP) E/70 (FLAT)	20	BED Tr "FUZZY"				NOD Tr <4CM						
	410.0		MOD-V. SIL BLK SHALE CHERTY INTERBDS	<4CM CO_3 NOD AT 412.6	55 W (LOW)	29	BED Tr "FUZZY"				NOD Tr <4CM						
	420.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-11

COORD _____ DIP ____ AZIM ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER % Description	ANALYSES % ppm Pb	% ppm Zn	% ppm Cu	oz. ppm Ag	% g/t ppb Ba
			SOS SCATTERED CSE GRAINED PY BEDS	SOS 13cm CO_3^- BED AT 429'	27/W (CLOUD) 20/W (CLOUD)	25 ↘	X Tr THIN BEDS				NOD Tr <5CM SCATTERED							
	430.0		V. SIL. TO CHERTY BLACK SHALE, BANDED TO GREY BEDS	SCATTERED RAD. PYRITE ID CHERT. MINOR CALC. BLK. SHALE	30/W (CLOUD) 27/W (CLOUD)	28 ↘	BEDS Tr REPETIT. THIN LAM TO MED THICK	X Tr IN RAD CHERT			SHALE Tr ONE BED ~6CM							
	440.0		SOS, NOW MOD SIL. W/ CHERTY INTERVALS	SOS CO_3^- BED (5CM) AT 444'	27/W (N) 18/W (11)	30 ↘	LAM Tr SCATTERED COARSE				BED Tr 5CM							
	450.0 END		BASAL 30' VERY EVEN NO CONTORTION OR POOR CORE REC.														

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-12

Page 1 of —

COORD. 4+00S, 12+50W DIP -75° AZIM. 55° ELEV. _____ SIZE BQ STARTED May 28/79 COMPLETED JUNE 4/79 LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE Bedding W	CORE ANGLE Bedding E	CORE ANGLE Structure W	CORE ANGLE Structure E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % ppm Pb	% ppm Zn	% ppm Cu	oz/t Ag	% Ba
	0		CASING OVB																
	12.0		MOD-J. SIL. BLK SHALE	THIN RAD. CHRT BEDS	15/W		166		BED Tr THIN (FUZZY)										
Cc	19.0		MOD.-V. SIL BLK. SHALE STRONG SHEARING	THIN. RAD CHRT BEDS, CO_3 BEDS AT 20'(16cm), 22.5(41cm)	35/W 08/W		162		BED Tr "				NOD 05 LRGE						
~	32.0		V. SIL-CHERTY BLK SHALE	THIN RAD CHERT BEDS	15/SW 15/W		175			X IN RAD CHERT									
Cs	40.0		MOD. SIL BLK SHALE	IRREG CO_3 MASSES (REPT BLEBS?) THIN BEDS CO_3	38/W 11/W		170		LAM Tr THIN EV. 2-3 MM				BED Tr <6 CM						
Cc	50.0		SOS	PY-CO_3 BLEBS THIN RAD CHRT BEDS	52/W (MAX) 15/E 30		164		BED Tr SCATTERED 1-1.5CM				BLEB Tr W PY						
	60.0		SOS	SOS MINOR CO_3 BEDS RAD CHRT INC.	26/E (RAY) 35/E		174		LAM Tr THIN, EVERY 1-2 CM				BLEB Tr ! BED						
	70.0		SOS	SOS	34/E 19/W		168		BED Tr 1-1.5CM	X IN RAD CHRT			BLEB Tr						
Cc	93.4		U. SIL. BLK SHALE, MINOR CALC SHALE PY-CO_3 BLEBS	RAD. CHRT INTERBEDS 2-3 CM 35	56/W 52/W 54/W		163		BED Tr "	X "			BLEB Tr BED @ 91.0						
			MOD-U. SIL. BLK SHALE PY-CO_3 BLEBS	MINOR RAD CHRT BEDS NR BASE ONLY	60/W, 55/W 70/VERT		160		LAM Tr THIN, FUZZY EVERY 2.5MM				BLEB Tr						
	100.0		SOS SLIP CW EDGE ↑	RAD CHRT INC.	53/W 45/W		174		BED Tr THIN, CHERTY				BLEB Tr						
	110.0																		

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-12

COORD._____ DIP_____ AZIM._____ ELEV._____ SIZE_____ STARTED_____ COMPLETED_____ LOGGED BY_____

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS %	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	CO_3 Type % / Size	OTHER % Description	ANALYSES % ppm Pb	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES oz/T Ag	ANALYSES % Ba
			SOS.	RAD CHRT INC. IN THICKNESS 20	E 24/88 (CHERT) E 05	65 ↘	BED Tr / THIN	X Tr / IN RAD CHRT			BLEB / W PY						
Cc	120.0		SOS	SOS CONTORTED 10	E (VARIOUS) 73 / 80	62 ↘											
	130.0		SOS	SOS @ AT 135.0' 10	N/A 12 W 74 E	58 ↘											
~ FLT ~	136.0		SHEAR ZONE QZ-CO_3 HEALED			58 ↘											
	140.0		LOW-MOD. SIL., MASSIVE BLK SHALE	CO_3 BEDS NR MIDDLE W CHRTY ARGL 05	34 (FLAT) E W 05	70 ↘	BED Tr / SCATTER THIN				BED Tr / <5CM						
	150.0		SOS MINOR CALC. BLK SHALE	MINOR RAD CHRT BEDS	25 W / 26 W	75 ↘											
Cc	160.0		SOS	SOS Py-CO_3 BLEBS 20 CM LISW BED AT 160.5	24 W / 15 SW	73 ↘					BLEB Tr / f BED						
	170.0		SOS SHEARED.	SOS SCATTERED LISW BEDS		65 ↘											
~	182.0		LOW-MOD. SIL., SLIGHTLY GRITTY BLK SHALE	RAD CHRT BEDS < 2CM. 05	NE 54 E (VERT) 68	62 ↘		X IN RAD CHRT			BLEB Tr / W PY						
Cc	190.0		SOS	SOS	64 E	60 ↘		X "			BLEB Tr / "						
	197.0		SOS SHEARED & BRKY'D	SOS Qz-CO_3 VEINS													
	206.0		FLT ZONE GOUGE, SHEARED QZ-CO_3 MATRIX	CO_3 NOD & BEDS COMMON IN FLT BRXY & GOUGE		55 ↘ 76					CO_3 / BED						
	222.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-12

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % ppm Pb	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES ppm Ag	ANALYSES % B
			MOD. SIL. BLK SHALE TO SCATTERED RAD CHERT	NUMEROUS CO_3 NOD & BEDS PRESERVED 30	N/A	68 / 33					BED 30 <15 CM						
	230.0		SOS	SOS MINOR RAD CHRT 30	N/A	60 / 72					BED						
	238.5		SOS	SOS	N/A	70					BED						
	248.0		QZ-CO_3 VEIN	SOME SHEARING	N/A						VEIN 80	35% CORE REC 248'-253'					
	259.3		MOD-V.SIL, BANDED BLK SHALE	CHERTY ARGL INTERVALS CO_3 NOD & BEDS COMMON (<8CM THK) 20	56 / VERT	58					BED 15						
	260.0		SOS	SOS QZ VEIN @ 265	10 W / N/A						BED						
	270.0		SOS	SOS	59 to 65 DEEP 10 W TO NW / N/A	59											
Cc	280.0		SOS NOW V.SIL TO CHERTY	SCATTERED CO_3 BEDS ← 8CM 05	N/A / 34 NW	58					BED 05 <8CM						
	290.0		SOS	MINOR CO_3 NOD 05	N/A / 23 W / 29 W	53					NOD 05 MINOR						
	300.0		SOS	NOW THIN BY LAM MINOR CO_3 NOD 05	30 W / 34 W / 34 W	45	X Tr THIN				NOD 05 LARGE						
	310.0		SOS	V. FEW PY LAM MINOR CO_3 NOD 10	29 W / 25 W / 23 W	53	X Tr Thin				NOD D FBED <5CM						
	320.0		BANDED BLK SHALE V.SIL. TO CHERTY	THIN CHRT HOR, 20 CM CO_3 BED @ 305'	21 W / 20 NW / 32 W	52 W SIDE UP	X Tr Thin	X Tr IN CHRT			BED						
	330.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-12

COORD. _____ DIP ____ AZIM. ____ ELEV. _____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE Bedding W	CORE ANGLE Bedding E	CORE ANGLE Structure W	CORE ANGLE Structure E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % ppm Pb	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES Ag ppm	ANALYSES Ba %
			SOS	SOS MINOR CO_3 BEDS	24/W, 30/W, 30/W		47		BED TR THIN	X TR IN CHRT			BED TR <5CM						
Cv	340.0		SOS	SOS MINOR RAD CHRT BEDS	26/50 W, NW		47		X Tr "	X Tr "									
	350.0		SOS V SIL TO CHERTY	SOS TIGHT SOFT SED FOLDING	155/NW, 23/60				X Tr "	X Tr "									
	360.0		SOS	SOS STRONG SOFT SED			41		X Tr "	X Tr "									
Cs	370.0		"	"			38		X Tr "	X Tr "									
	380.0		"	SOS, CO_3 BED (15CM) AT 384' SAMPLE @ 385'	27/W		38		X Tr "	X Tr "			BED Tr ? NOD						
	390.0		"	"			37		X Tr "	X Tr "									
	400.0		SOS BANDED, V. SIL. TO CHERTY	THIN RAD CHERT HORIZONS Tr	44/W (STEEP)		34		X Tr "	X Tr "									
	410.0		SOS "	"	W/37 (VERY) W/74 (LIN)				X Tr "	X Tr "									
	420.0		BANDED BLK SHALE THIN (~0.8') FOOTWALL SHEARED (QZ-CO3) @ 427.6	THICK, SCATTERED RAD. CHERT HORIZONS (<4cm) Tr	(MOD) 86/W, 85/NW		36		X "	X Tr "			NOD Tr						
	427.6		V. SIL., BANDED BLK SHALE (FOOT) THIN BRXY @ 440.0	NO RAD CHRT	28/NW, 20/W		33		X SCATTERED				NOD Tr						
	440.0		SOS, SLIGHTLY GRITTY	MINOR CO_3 NOD NR TOP & BASE	24/W, 25/W		36						NOD Tr						
	450.0																		

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-12

COORD. _____ DIP ____ AZIM. ____ ELEV. _____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES ppm Pb	% ppm Zn	% ppm Cu	Ag	% Ba
			BANDED BLK SHALE, MOD.-V. SIL., SLIGHTLY GRITTY	SCATTERED RAD. CHRT BEDS <4CM	18/W (throw) 29/W	35	BED Tr THIN	X Tr IN CHRT									
	460.0		SOS, FINER GRAINED N.B. CHANGE IN CLY. %	SOS	23/W 18/W	43	BED Tr THIN + DISCONT. LAMINAE	X Tr IN CHRT									
	470.0		SOS VFG NS CLY %	SOS LIGN BEDS (8CM, 2CM, 1CM) @ 478	18/W 19/W	52	BED Tr THIN COARSE	X Tr "			BED Tr						
	480.0		MOD-V. SIL. SOS SLIGHTLY MORE FISSILE	SOS 5.5 CM LIGN BED @ 486.5	14/W 29/W	46	BED Tr "	X Tr "			BED Tr						
	490.0		SOS BDG PARTING NOW DOMINANT	SOS	18/W 08/W	49	BED Tr "	X Tr									
Cs	500.0		SOS	SOS LIGN BEDS AT 500 (6.5 CM) 502 (18 CM) MINOR 503	25/W 20/W	44	BED Tr "	X Tr "			BED 05 NOD Tr						
	510.0		MOD-V. SIL, SLIGHTLY GRITTY BLK SHALE	SCATTERED RAD. CHRT BEDS (<1.0 CM)	35/SW 60/W 35/W (west)	47	BED Tr "	X Tr									
	517.0		SOS NOW SCATTERED, MINOR Py-CO_3 BLEBS	LESS RAD CHRT THICK BEDDED	43/W (LOW) 19/W (LOW) 60/SW (STEEP) 30/W (STEEP)	40	BED Tr "	X Tr "			BLEBS Tr W Py + HYDROC.						
~	530.0		SOS, ALMOST MASSIVE, MOD. SIL FINER GRAINED BRKY 536-536.2 (HEAL'D)	MINOR RAD CHERT BEDS (<2 CM)	25/WSW 07/W (LOW) 12/WSW 19/WSW	41		X Tr "			BLEBS Tr "						
Cc	540.0		SOS	SOS	19/W 06/W 08/W	30	BED TR THIN	X Tr "			BLEBS Tr "						
	550.0		SOS SILICA CNT DECREASING	SOS MINOR CALC SHALE	10/W 07/W 20/W	25	BED Tr THIN	X Tr IN CHRT			BLEBS Tr INCR.						
	560.0		GRADATIONAL — MOD-V. SIL. BLK SHALE, CHERTY INTERVALS	RAD CHRT INC. BEDS TO 4 CM Py-CO_3-HYDROCARBON BLEBS INC. RAPIDLY	33/W 03/W 03/W 03/W	32					BLEBS Tr						
	570.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-12

COORD. _____ DIP ____ AZIM. ____ ELEV. _____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER % Description	ANALYSES % ppm Pb	% ppm Zn	% ppm Cu
			SOS 10 CM CO_3 BED @ 578.	TUFF BEDS? Py-CO_3-HYDROC BLEBING IN SOS	16/W 20/W 25W (VERT	39	BED Tr THIN	X Tr IN TUFF(?)			BLEB Tr CO_3-HYDR				
	580.0		SOS CO_3 NOD @ 588.4 SHR ZONE @ BASE	MINOR RAD CHRT NO TUFF BEDS	14/W 24/W	34 430 15	BED Tr "	X Tr "			BLEB Tr "				
Cc	593.0		SOS SCATTERED CO_3 NOD	SOS V. MINOR RAD CHRT MINOR CALC SHAL	04/W E 90 E 90	38	BED Tr "	X Tr IN RAD CHRT			BLEB Tr "				
	600.0		SOS LOW-MOD SIL.	V. MINOR RAD CHRT MINOR CALC SHALE	F (FLAT) 29 E 80 13 W 09 W	37	BED Tr 0.5 CM	X Tr "			BLEB Tr "				
	610.0		SOS 10 CM LISN BED @ 619'	MINOR CO_3 NOD MINOR CALC SHALE FEW BEDS RAD CHRT	07/W 25/W 08/W	35	BED Tr THIN	X Tr "			BLEB Tr "				
	620.0		SOS NOW V. SOFT V. CARB.	NO CHRT NO LISN NO CO_3 NOD	10/W 10/W 05/W	25					BLEB Tr "				
	631.0														
END			END												

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-13

COORD. 45, 15+50 E DIP -50 AZIM. -55 ELEV. _____ SIZE BQ STARTED June 5/79 COMPLETED June 6/79 LOGGED BY R. Cook

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE Bedding W	CORE ANGLE Bedding E	CORE ANGLE Structure W	CORE ANGLE Structure E	PYRITE Lam. Thickness	PYRITE %	PYRITE Diss. Size	PYRITE %	BARITE Bed. Thickness	BARITE %	BARITE Bleb. Size	BARITE %	CO_3^- Type	CO_3^- %	OTHER % Description	ANALYSES ppm Pb	% ppm Zn	% ppm Cu	Ag	B
	0.0		DNB CASING																					
BC	20.0		MASSIVE, LOW-MOD. SIL. BLK SHALE THIN (5CM SHR @ BASE	MINOR Py-CO_3 VEINLETS TRACE SMALL (<2CM) CO_3 NOD			48										NOD	TR							
	25.0		MOD-V. SIL. SLIGHTLY GRITTY BLK SHALE THIN JASPEROID CHRT BEDS	BA-CO_3 BEDS 10CM LSN BED @ 25.8'	20/W 35/W		45				X	TR			X	30	NOD	5							
	30.0		SOS NOW V. SIL TO CHERTY		34/W 19/W		44		BED THIN	05	X	TR			X	25	NOD	15							
B3	37.0		MOD. SIL TO CHERTY, HIGHLY VARIABLE	CO_3 DEC. D/S. MINOR CALC SHAL	34/W 18/W		40		LAM CONC. IN BANDS	05					X	TR	BED TO 30CM	15 NOD TO 4CM							
	47.5		MOD. SIL. BLK SHALE, MINOR V. SIL TO CHERTY ARGIL.	THIN CALC SHAL BEDS	25/W 37/W 24/W		46		BED THIN	05					X 3-4CM INTERVALS	15	NOD	15							
	55.0		SOS	SOS	23/W 30/W 16/W				BED "	05					X "	15	NOD	20							
	60.0		LOW-MOD SIL BLK SHALE, MASSIVE SECTIONS GRITTY SECTIONS		37/W 36/W		43		BED THIN	05					X SCATTERED 2-4CM.	TR	NOD	15							
	64.8																							
MW'D				VARIABLY LOW SIL. TO CHERTY BLK SHALE	21/W 37/W 37/W		44		BED "	05			BED < 0.3CM	5	X "	40	NOD	15							
LH	70.0		FOLD NOSE @ 72.6'	SOS THIN CALC. HORIZONS	18/W 51/W (FLAT) 32/W 21/W				BED	10					X DEC D/S	25	NOD	25							
MWD	75.0			SOS	05/W 20/W 26/W		46		BED	HD					X INCD/S	15	NOD	25							
	80.0																							

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-13

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COORD. _____ DIP ____ AZIM. ____ ELEV. _____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS %	CORE ANGLE Bedding W–E	CORE ANGLE Structure W–E	PYRITE Lam. Thickness %	PYRITE Diss. Size %	BARITE Bed. Thickness %	BARITE Bleb. Size %	CO_3 Type Size %	OTHER Description %	ANALYSES ppm Pb	ANALYSES % Zn	ANALYSES ppm Cu	ANALYSES ppm
MIN'D				VARIABLY LOW-SIL. TO CHERTY BLK SHALE <4CM 45	15/W 34/W 41/W	N1	BED 15 <AA CM			X 30 4-10 CM INTERVALS	NOD 10 <5 CM					
LH MIN'D	85.0		BCM BLK, NON-SIL. SHALE BED @ TOP	SOS 35 0.5' FLT GOUGE @ BASE	21/W 37/W 45/W	45 ~93	BED 15 "		BED 05 < 3 MM	X 30 "	NOD 15					
~ MIN'D	96.3			SOS THIN BEDS 05	37/W 38/W		BED 15 "		BED 05	X 15	NOD 60					
MIN'D	95.0		BARITE IN TOP 2.5' ONLY	SOS SOME TO 8CM 10	41/W 38/W 34/W	93	BED 20 " INC D/S		BED 15	X 05	NOD 50					
MIN'D	100.0			BARREN NON-SIL, V. CARB BLK SHALE TO 2CM 10	31/W 34/W 35/W		BED 50 TO 4 MM				NOD 40					
LH MIN'D	105.0			SOS TO 1 CM; 10 CM BED @ 108.5 10	30/W 28/W 24/W		BED 45 TO 3 MM				NOD 45					
—	110.0		15 CM SIAL INTERVAL @ TOP 15 CM @ 111.5	SOS THIN BEDS W Py 35	27/W 27/W 23/W	47	BED 30 THIN				NOD 35					
BA	115.0		TO 10 CM DEC. D/S	SOS 45	27/W 23/W 24/W	48	BED 25				NOD 30 INC D/S					
	120.0			SOS TO 10 CM 40	24/W 23/W 23/W		BED 25				NOD 35					
	125.0			SOS TO 15 CM 55	31/W 27/W		BED 15 2-4 CM SECTIONS				NOD 30 INCL MINOR CD BEDS					
—	128.3		LOW. SIL. TO CHERTY BLK SHALE; VARIABLE; THIN-MED BEDDED	CO_3 NOD @ 129.0 SCATTERED WHITE TUFF(?) <0.4CM NR. TOP	22/W	32	LAM TF THICK				NOD TF ~8 CM					
AC	130.0		SOS.	MINOR QZ-CO_3 VEINS, ESP NR TOP, W TF OF BY	26/W 28/W	CW. V. POORLY DEV'D	LAM TF THIN V. MINOR									
	135.0															

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-13

COORD. _____ DIP ____ AZIM. ____ ELEV. _____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS %	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER % Description	ANALYSES ppm Pb	ANALYSES % ppm Zn	ANALYSES % ppm Cu
			LOW SIL. TO CHERTY BLK SHALE, VARIABLE	LIGN BED (18 CM) @ 135.8	27/W 35/W	50	BED 05 TO 1CM	X Tr IN CO_3 BEDS			NOD 15 ¶BED				
	140.0		SOS NEW MOD SIL. TO CHERTY	THIN RAD CHERT BEDS < 2CM SCATTERED 05	32/W 40/W	46		X Tr IN RAD CHRT							
Ac	145.0		SOS	SOS 05	40/W 32/W			X Tr "			NOD 15 ¶BED				
	150.8			LOW-MOD. SIL BLK SHALE CHERTY INTERVALS 35	44/0 (STEEP) 45/W(N)		BED 20 4-6 MM DEC D/S				NOD 35 DEC D/S				
	154.7		MOD-V. SIL. BLK SHALE, VARIABLE		25/W 25/W	50	LAM Tr THIN CLUMPS	X IN CO_3 BEDS	BED Tr IN BLEBS	X 05 SCATTERED CO_3-RICH	NOD Tr SMALL				
	160.0		MOD - CHERTY BLK ARGL, VARIABLE	MINOR CALC SHALE	22/W 19/W		LAM Tr SCATTERED THICK			X 05 SCATTERED CO_3-RICH	NOD Tr SMALL				
	165.0		SOS	CLASTIC CO_3 (TUFF?) @ 168'-168.7'; UFG, UPWARD FINING	18/W 12/W	30	LAM Tr SCATTERED THN			X 05 "	NOD 05 SMALL 5CM BED @ BASE				
Am	170.0		MOD - V. SIL. BLK SHALE		14/W		BED Tr NR BASE				NOD Tr NEAR BASE				
	175.0		SOS	0.4' QZ VEIN AT BASE SHEARING & BRKY W/C. TO BASE	16/W	35					NOD 05				
~	181.8			LOW-V. SIL. BLK SHALE, < 3CM 50	18/W 25/W		BED 20 THIN				NOD 30				
MIN'D	185.0			SOS 30	17/W 24/W		BED 30 "				NOD 40				
LH MIN'D	190.0			SOS 30	24/W 27/W		BED 30 "				NOD 40				
	195.0														

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-13

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS %	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % ppm Zn	ANALYSES % ppm Cu
HIND				THIN BEDS MOD-V. SIL. BK SHALE, SLIGHTLY GRITTY HERE 20	20/W 25/W		BED 30 THIN				NOD SD			
	200.0			SOS 15	25/W		BED 30				NOD SS			
	202.5		LOST CORE	SOS?		28								
LOST CORE	207.0		MASSIVE, VFG, U.CARB., MOD. SIL. BLK SHALE			55								
	210.0		SOS SHR ZONE @ BASE (0.5' THK)		55 (FLAT) SE 28 E 48	48								
	216.0		SOS SHR ZONE @ BASE		E 54 (LOW)	44								
	219.0		LOW-MOD. SIL., FG., THICK BEDDED BLK SHALE	PYRITIC TUFF(?) 10 HORIZONS BEDDED TO MASSIVE, GRADED @ BASE 219.9-225.3'	47 SE 25 W/W	46		X TR IN TUFF??						
	230.0		SOS SHEARING ALONG CORE AXIS @ 237	SLIGHTLY CALC. ZONE, PYRITIC TUFF(?) @ 235' 05	27/W	C/A								
	240.0		SOS	TUFF(?) BEDS @ 246' 10	90/E 30/W (LOW)	30 DISR. W								
	250.0		SOS LOW-MOD. SIL., MASSIVE, VFG, U.CARB BLK SHL	SCATTERED TUFF BEDS TO 256' 20	48 44	27								
	260.0		SOS NON-FISSILE	SCATTERED TUFF(?) NR BASE, NON-CALC 10	E 40 (LOW) 55 E 34 W (LOW)	30								
	270.0		MED-THIN BEDDED SLIGHTLY GRITTY BLK SHALE U. FISSILE	BRXY ZONE & THIN FLT GOUGE @ BASE	25/W 28/W 15/W	30								
	283.0													

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-14

COORD _____ DIP ____ AZIM ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS DIR COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	CO_3 Type % / Size	OTHER % Description	ANALYSES % Pb	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES oz. Ag	ANALYSES % Ba
			INTERBEDDED MOD SIL, SLIGHTLY GRITTY BLK SHALE & CHERTY ARGL	THICK (~10CM) NON-SIL, U. CARB. BLK SHALE	15/W 45/W(FLAT) 10/W	40	BED Tr / THIN "FUZZY"	DISS 05 / IN NOD			NOD 25 / LARGE DEC D/S						
	439.0		LOW-MOD SIL. MED BEDDED BLK SHALE.	MED(4-6 CM) CHERTY BLK ARGL INTERBEDS	15/W 10/W	35	LAM Tr / THIN				NOD 05 / MED DEC D/S						
	445.0		SOS SLIGHTLY GRITTY SECTIONS	THIN (<1CM) CHERTY ARGL INTERBEDS	12/W 14/W	32	LAM Tr / THIN DISCONT.				BED Tr / <2CM +NOD						
	450.0		SOS	CHERTY INTERVALS 4-6 CM	05/W 24/NW	30		CLOTS Tr / <1.5CM			BED Tr / "						
	459.0		SOS SCATTERED CHERTY ARGL	MINOR TUFF(?) BEDS SCATTERED THICK (10CM) CO_3 BEDS	34/W 40/W		BED 05 / DEC D/S			BLEB Tr / INC D/S	NOD 10 / SMALL DEC D/S						
	465.0		LOW-MOD SIL, MED. BEDDED BLK SHALE, SCATTERED CHERTY	SECTIONS, MINOR TUFF(?) BEDS,	30/W 23/W		BED Tr			BLEB Tr	BED 05 / & SMALL NOD						
	470.0		SOS	SOS	15/NW 15/W	32				BLEB Tr	BED 05 / & SMALL NOD.						
	475.0		MOD-U.SIL. BLK SHALE	CHERTY ARGL INTERVALS INC UTO 8CM THK) U. MINOR TUFF(?)	43/W (VEINS) 24/W	U MINOR SHEARING ~23	BED Tr			BLEB 05	NOD 10 / & THIN BEDS						
	480.0		SOS	SOS MINOR TUFF(?) <1CM	18/W 18/W		BED Tr			BLEB 05 / DEC D/S	NOD 05 / DEC D/S						
	490.0		SOS	SOS U. MINOR TUFF(?) <1CM	18/W	32	BED Tr				NOD 05 / & BEDS <8CM						
	496.0		END														
END																	

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-15

COORD 4+20N, 15+00E DIP -50 AZIM. 055 ELEV. ____ SIZE BQ STARTED June 11/79 COMPLETED June 19/79 LOGGED BY ____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR COMMENTS	CORE ANGLE CA Bedding W E	CORE ANGLE CA Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % ppm Pb	% ppm Zn	% ppm Cu	oz. or ppm Ag	% or ppm Ba
	0.0		-OVB- CASING														
	12.0		MOD-V.SIL. "POKER-CHIP" BLK SHALE SLIGHTLY GRITTY	SCATTERED CO_3 BEDS (THICK (<1CM) PY BEDS	90/ALONG C/A 60/E	40	LAM Tr THIN EVERY 5-7MM				BED Tr <3CM						
	17.0		SOS SHEARED @ BASE	NO CO_3 SCATTERED THIN RAD CHAT BEDS	75/E 90/ALONG C/A 70/E	38 50	LAM Tr "										
	23.0		SHEARED & BRECCIATED	LOW-MOD SIL. BLK SHALE THIN TUFF(?) BEDS SLIGHTLY GRITTY 60	9/E 36/W						NOD 40						
MIN'D	25.5		MINOR TUFF(?) BEDS NR TOP FAIR SLIN PY BEDS	LOW-MOD SIL BLK SHALE, DEC D/S 40	48/VERT 51/W (11)		BED 20 <3MM INC D/S				NOD 40						
MW'D	30.0		FAIR SL IN PY BEDS	SOS 20 MINOR THIN TUFF(?)	50/W 11		BED 20 "				NOD 60						
MIN'D	35.0		"	SOS THICK J CARB, MASSIVE, NON-SIL ARGIL @ BASE 50	51/W	50	BED 10 "				NOD 40						
MIN'D	40.0			LOW-MOD. SIL, SLIGHTLY GRITTY BLK SHALE 40	58/E (STEEP)		BED 20 " INC D/S				NOD 40						
MIN'D	43.8		TRACE OL IN BARITE FAIR SL IN PY	SOS 15 THIN TUFF(?) BEDS	59/W 47/W		BED 10		BED 60 MASSIVE SECTIONS <3MM DEC D/S		NOD 15						
MIN'D	47.5			SOS 40 IA CM NON SIL BLK SHALE NR BASE	50/W 50/W (VERT)		BED 10		BED 35		NOD 15						
MIN'D	55.3			SOS 40 THIN TUFF(?) BEDS	48/W 52/W		BED 15 INC D/S		BED 20 DEC D/S		NOD 25 INC D/S						
	58.5																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-15

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % Pb	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES oz. Ag	ANALYSES % ppm Fe
			MINOR THICK TUFF(?) NEAR BASE	MOD. SIL., SLIGHTLY GRITTY BLK SHALE (LACM) NON CAL, VRY <1 Bcm 50	64 E (STEEP) 30 E (LOWER)		BED 15 <3 MM				NOD 05						
65.0			SMR ZONE @ BASE OF Q2-CO_3 VEINS.	SOS THIN TUFF(?) BEDS INC D/S, THICK, VFG, U.CARB BLK SHALE @ TOP 90	50/W (VERT) 78 E (STEEP)	66	BED Tr 11				NOD 10 SMALL IN VFG BLK SHALE	N.B. ARTESIAN @ THIS POINT					
79.1			THIN SMR ZONE @ BASE W Q2-CO_3 VEIN	THICK BEDD, VFG U.CARB BLK SHALE, THIN TUFF(?) INC D/S 95	53/E (VERT)	60				BLEB Tr NR CENTRE	NOD 05 IN VFG BLK SHALE						
80.5				MOD-U.SIL., VFG BLK SHALE, THIN TUFF(?) BEDS 90	50/VERT 74/E (STEEP)	46	BED Tr <3 MM			BLEB Tr NR TOP	NOD 10						
90.0				SOS SOME MOD.SIL., SLIGHTLY GRITTY 75	50/VERT 50/VERT		BED Tr <1 MM			BLEB 15 INC D/S	NOD 10 INC D/S BEDS < BCM						
100.0			U. MINOR TUFF(?) BEDS < 1CM	SOS MORE SLIGHTLY GRITTY BLK SHALE 75	69/E (LOW) 52/E (VERT)	46	BED Tr <2 MM			BLEB 05 DEC D/S	NOD 20 INC D/S.						
110.0				SOS, TUFF BEDS INC D/S (<2 CM) 95	54/E (11) 32/W					BLEB Tr @ BASE	NOD 05 & THIN (<1CM) BEDS						
120.0				SOS FEW TUFF BEDS 85	45/W 54/E (VERY)					BLEB 05 SCATTERED	NOD 10 11						
130.0				MOD-U.SIL., VFG BLK SHALE <4CM BEDS NO TUFF(?) 95	49/VERT		BED Tr <2 MM			BLEB Tr NR TOP	NOD 05 SMALL < 1CM BEDS						
140.0				SOS 90	51/VERT 62/E (STEEP)		LAM Tr SCATTERED			BLEB 05 SCATTERED	NOD 05 11						
150.0			MOD-U.SIL, SLIGHTLY GRITTY BLK SHALE BEDS <4CM		46/W 65/E (STEEP)	47	LAM Tr SCATTERED NR TOP				NOD 05 <4 CM						
160.0			SOS		54/E (STEEP)	47					NOD 05 11						
170.0																	

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-13

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS DIZ COMMENTS	CORE ANGLE Bedding W	CORE ANGLE Bedding E	CORE ANGLE Structure W	CORE ANGLE Structure E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER % Description	ANALYSES % Pb	ppm Pb	% Zn	ppm Zn	% Cu	ppm Cu	oz. Ag	ppm Ag	% Ba	ppm Ba
			MASSIVE, VFG BLK SHALE LOW-MOD. SIL	NO TUFFCD BEDS	18/W																			
	290.0		SOS	MINOR TUFF NR BASE	15/W																			
					15/W																			
	299.0																							
END			~END~																					

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-14

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COORD 46,12+50E DIP -50 AZIM. 055° ELEV. ____ SIZE BQ STARTED June 7/79 COMPLETED June 10/79 LOGGED BY ____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % / INTERBEDS OR COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	CO_3^- Type % / Size	OTHER % / Description	ANALYSES % Pb	% ppm Zn	% ppm Cu	oz. Ag	% Ba
	0.0		OVB CASING														
	30.0		SHR ZONE & HEALED BRX @ BASE	INTERBEDDED MOD. SIL. BLK SHALE & CHERTY ARGL. THIN-MED BEDDED 85	30/W	63	BED Tr ~3 MM			BLEB 5	NOD 10						
	37.5			SOS 65	49/E (STEEP) 90 (CORE AXIS) E		BED 10 "				NOD 25						
	42.5		SHR ZONE 40 BRX'D QZ VEIN SWARMS	SOS 20 SHR ALONG BDY	78/E (STEEP) BEDDING E of 4A	58	BED 10 "				NOD 30						
	52.2		QZ VEIN	TR. SOS AS BRX'D FRAGS			BED Tr AS BRX'D FRAGS				NOD Tr AS BRX'D FRAGS						
	54.8			THIN INTERBEDS MOD-W. SIL. BLK SHALE & GREEN, GRITTY, SILICEOUS TUFF(?) 50	76/E OF 4A 76/E " " 78/E " "		BED 10 ~3 MM				NOD 40						
	60.0			MOD-W. SIL. BLK SHALE NO TUFF 50	64/E " " 52/E " " (LOW) 60/E " "	65	BED 10 "			BLEB 10	NOD 30						
	70.0			SOS., MINOR THIN TUFF(?) BEDS 75	60/E (STEEP) ALONG C/A 65/E (STEEP)	45	BED 05 "				NOD 20						
	80.0			THIN INTERBEDS OF LOW, MOD CHERTY BLK SHALE 55	60/E (STEEP) 55/E (+) 15/W (LOW)	52	BED 10 "			BLEB 10	NOD 25						
	90.0			SOS 45	38/W 38/W	48	BED 15 "			BLEB 15	NOD 25						
	100.0			SOS 45	33/E (STEEP)		BED 15 "			BLEB 20	NOD 20						
	105.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-14

COORD. _____ DIP ____ AZIM ____ ELEV. _____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS DIZ COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	CO_3 Type % / Size	OTHER % Description	ANALYSES % Pb ppm	% Zn ppm	% Cu ppm	oz. Ag ppm	% Ba ppm
				CHERTY BLK ARGL, MINOR NON-SIL. SHALE 30	33/W 27/W		BED 10 ~3MM			BLEB 30	NOD 30						
	110.0			SOS GRITTY MOD V.SIL BLK SHALE < 3CM 50	33/W 37/W	55	BED 10 ~3MM			BLEB 20	NOD 20						
	115.4			SOS 15	32/W 29/W	48	BED 35 11			BLEB 10	NOD 40 MED BSD <2CM						
MIN'D	120.0			MINOR V.SIL TO CHERTY ARGL < 2CM; 8CM NON.SIL @ 22.7 10	24/W 32/W		BED 30 11			BLEB 15 MASSIVE SECTION NR BASE	NOD 45 11						
MIN'D	125.0		1.2' WIDE BRX4 SNR FLT @ BASE	MINOR, THIN NON SIL TO MOD. SIL BLK SHALE < 1.5 CM 05	26/W 38/W	45	BED 35			BLEB 05 NR TOP	NOD 55						
	132.0		BRX4'D SHEARED AT TOP	CHERTY ARGL BEDS < 3 CM 30	45/W 25/W		BED 05			BLEB 35	NOD 30						
	135.0			IN MOD SIL. BLK SHALE, MASSIVE, BASAL ½ 40	45/W (STEEP) 60 (U)	48	BED 05			BLEB 30 MASSIVE NR TOP	NOD 25						
MIN'D	140.0		HIGH-GRADE ZN 140'-141.5	VERY SIL. TO CHERTY ARGL < 2CM 10	45/W (STEEP) 48/W (U)		BED 20			BLEB 30	NOD 40						
	145		MOD. SHEARED	SOS 30	55/S (STEEP) 68/E OF C/A	44	BED 10			BLEB 20	NOD 40						
	150.0		MOD-STRONG SHEARING INC D/S	SOS THICK BEDDED U.SIL. SHALE @ BASE 65	63/E OF C/A	38 40	BED 05			BLEB 10	NOD 20						
	155.0		MOD SHEARING	U.SIL. TO CHERTY BLK SHALE, TUFF(?) BEDS < 1CM. 60	52/E OF C/A		BED 05			BLEB 20	NOD 15						
	160.0		"	SOS, MINOR TUFF BEDS 60	48/VERT (UNDERCUT)	43	BED 05			BLEB 20 SCATTERED	NOD 15						
	166.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-14

COORD. _____ DIP ____ AZIM. ____ ELEV. _____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS OR COMMENTS	%	CORE ANGLE CA Bedding W	CORE ANGLE CA Bedding E	CORE ANGLE CA Structure W	CORE ANGLE CA Structure E	PYRITE Lam. Thickness	PYRITE %	PYRITE Diss. Size	PYRITE %	BARITE Bed. Thickness	BARITE %	BARITE Bleb. Size	BARITE %	CO_3 Type	CO_3 %	CO_3 Size	OTHER %	OTHER Description	ANALYSES %	ANALYSES ppm Pb	ANALYSES %	ANALYSES ppm Zn	ANALYSES %	ANALYSES ppm Cu	ANALYSES oz. Ag	ANALYSES %	ANALYSES xn Au
			BADLY BROKEN & SHEARED	V. SIL. TO CHERTY BLK ARGL.	75			43		BED 05 < 1CM								NOD	20												
	170.0			SOS TUFF(?) NR BASE	70	48 @ 90 of CA (VERY)				BED 05						BLEB	05	NOD	30												
				LRGE NOD NR MID-SECTION TUFF										---		NR BASE															
	175.0		LOW-MOD SIL BLK SHALE	CHERTY INTERBEDS THIN, TUFF(?) BEDS.		46/VERT 45/VERT												NOD	05 < 5CM												
	180.0		SOS	MINOR TUFF BEDS		46/VERT										BLEB DEF D/S.	05	NOD < 5CM	TR												
	185.0		MOD-V. SIL. BLK SHALE	MINOR TUFF(?) BEDS		65/E 24/SE 64/E		38		BED 05 <0.5CM SCATTERED								NOD SCATTERED	05												
	190.0		MOD. SIL., SLIGHTLY GRITTY BLK SHALE	MINOR TUFF(?) BEDS ELLIPSOIDAL PY-QZ BLEBS		40/VERT 60/E OF C/A		48	45									BED < 6CM	TR												
	198.5		VERY SIL., VFG BLK SHALE	MINOR TUFF(?) BEDS ELLIPS. PY-QZ BLEBS		60/E " 60/E OF C/A 45/VERT		48	52					BED NR TOP	TR			BED 4CM SCATTERED	TR												
	215.0		LOW-MOD. SIL. VFG BLK SHALE W/ CHERTY HORIZONS	CONTORTED BDG		17/W 60/E OF C/A 24/W		39		BED TR <1CM NR BASE								BEDS <4CM & NOD <8CM	10												
	230.0		SOS GRADING D/S TO CHERTY ARGL W/	"		18/W												BEDS & NOD	15			2.5' LOST CORE @ 215									
	239.0					21/W																									
MIN'D			BARITE IS CALCAREOUS	CHERTY ARGL BEDS < 5MM	10	20/W 30/W				BED 05 <1.5CM				BED MASSIVE SECTIONS < 3MM BEDS	70			NOD	15												
MIN'D	245.0			SOS NON-SIL. BLK SHALE BED 8CM @ 243.2	15	42/W (VERY) 34/W		44		BED 05 "				BED "	60			NOD	20												
MIN'D	250.0		HI-GRADE CPB 250'–252'	SOS	20	25/W 35/W				BED 05 "				BED "	55			NOD GSP NR BASE	20												
	255.0																														

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-14

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % / INTERBEDS OR COMMENTS	CORE ANGLE (CA) Bedding W E	CORE ANGLE (CA) Structure W E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	CO_3 Type % / Size	OTHER % / Description	ANALYSES % Pb	% ppm Zn	% ppm Cu	oz. Ag	Au
MIN'D				V. SIL TO CHERTY ARGIL < 5MM NON SIL BLK ARGIL < 2CM 25	10/W 20/W	AB	BED 05 <3MM		BED 35 <3MM		NOD 35 <5CM TO PY						
	260.0																
MIN'D				SOS " 50	41/W (VERT)		BED 05 "		BED 40 "		NOD 05 "						
	265.0																
MIN'D				SOS " 30	44/W (") 45/W (")		BED 10 "		BED 30 "		NOD 30 "						
	270.0																
MIN'D				SOS " 20	29/W		BED 10 "		BED 20	BLEB 15	NOD 35 "						
	275.0																
MIN'D			BRXY & SHR ZONE @ BASE	SOS " 25	37/W 44/W (VERT)	55	BED 10 "		BED 15	BLEB 05	NOD 45 "	60% CORE REC					
	280.0																
				THICK (>1.5') NON-SIL. V. CARB BLK ARGIL BEDS. 50	50/E (STEEP) 40 (") W		BED 05 "			BLEB 20 SCATTERED	NOD 25	60% CORE REC.						
	289.5																
			LOW SIL., V. CARB VFG., MASSIVE BLK SHALE			35											
	293.5																
				ALTERNATING V. CHERTY BLK ARGIL & NON-SIL. BLK SHALE < 5CM 70	48/E (STEEP) 79/E (STEEP) 30/W	38	BED 05 <2MM			BLEB 10 SCATTERED <3CM BEDS	NOD 15	LOST CORE @ BASE						
	303.0																
				SOS 75	90 ALONG C/A 05/W 15/W	35	BED 05 "		BED Tr THIN SCATTERED	BLEB 15 SCATTERED <3CM	NOD 05 SCATTERED						
	310.0																
				NON-SIL; MOD SIL SLIGHTLY GRITTY & CHERTY, SLIGHTLY CALC BLK SHALE THIN CALC TUFF(?) BEDS 55	22/W 35/W		BED 10 "			BLEB 15 "	NOD 20 (THIN (<1CM) BEDS						
	315.0																
			MINOR SHEARING @ BASE	SOS 45	28/W 30/W		BED 20 <3MM			BLEB 10 DEC D/S	NOD 25						
	320.0																
MIN'D				MOD V. SIL. BLK SHALE 18CM NON-SIL BLK ARGIL @ BASE 05	39/W VERT 50 (STEEP) E	38	BED 20 " NC D/S		BED 20 DEC D/S		NOD 55						
	325.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-14

COORD ____ DIP ____ AZIM ____ ELEV. ____ SIZE ____ STARTED ____ COMPLETED ____ LOGGED BY ____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS DIR COMMENTS	%	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % ppm Pb	% ppm Zn	% ppm Cu	oz. ppm Ag	% ppm Ba
MIN'D			GL 325.0 – 326.7	V.SIL. BLK ARGL; 10CM BLK @ 327.2 FOLDS IN BART ONLY (S?)	35	30/W / 45/VERT	TIGHT FOLDS // CW / 35	BED 15 <3MM TO SL		BED 40 <2MM MASSIVE SECTIONS		NOD 10							
	329.3		MOD SIL, MASSIVE BLK ARGL, SiO_2 INC D/S				/ 40					NOD TR <1CM ROUND							
MIN'D	330.7			V.SIL TO CHERTY BLK SHALE	20	30/W	TIGHT FOLDS // CW	BED 05 <3MM		BED 70 <2MM MASSIVE SECTIONS		NOD 05							
MIN'D	335.0			SOS 9CM NON.SIL BLK ARGL @ 337.2	20	*12/W 30/W 27/W		BED 10 "		BED 55 "		NOD 15							
MIN'D	340.0			SOS	30	53E (FLAT) 15/W	/ 33	BED 20 "		BED 10		NOD 40							
MIN'D	345.0		GL 345.5' – 346.0' SOS 325'?	SOS VFG, NON SIL ARGL @ 345.2 (13CM) 347.2 (15CM)	30	25/W 20/W (STEEP)		BED 10 "		BED 30 MASSIVE, LAM 345.5' TO 346.0		NOD 30							
	350.0			NON-SIL SHALE GRITTY MOD.SIL SHALE W THIN(?) BEDS (THIN) CHERTY ARGL. ALL <2CM	35	30/W 30/W		BED 15 <4MM			BLEB 10	NOD 40 <4CM							
	355.0			SOS	40	30/W 30/W		BED 10 "			BLEB 10	NOD 35 "							
	360.0			SOS	50	30/W 25/W	/ 45	BED 10 1" IN NOD			BLEB 05 DEC D/S	NOD 35 "							
	365.0			SOS	60	16/W 24/W	/ 39	BED 10 "			BLEB 10	NOD 20 "							
	370.0			SOS	55	30/W (STEEP) 40/W (N)	/ 45	BED 05			BLEB 15	NOD 25							
	375.0		THIN GOUGE ZONE @ BASE	SOS THICKER BEDS NOW	65	45 (LOW) E 50 (FLAT) E	/ 42 (40)	BED 05			BLEB 10 NR BASE	NOD 20							
	379.6																		

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-14

COORD _____ DIP ____ AZIM ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER % Description	ANALYSES % Pb	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES oz. Ag	ANALYSES % ppm Ba
MIN'D			MINOR THICK (<10CM) NON SIL, VFG, U.CARB BLK ARGL.	NON-SIL, VFG BLK SHALE, MOD. SIL. BLK SHALE & THIN TUFF(?) BEDS, CHERTY ARGL, <4CM	27/W 25/W	38	BED 10 <3MM		BED 10 MASSIVE NR MID	BLEB 05	NOD 20						
MIN'D	385.0		MINOR GL. 390.0 - 391.4 IN BARITE	NON-SIL TO MOD. SIL. BLK SHALE BEDS < 3CM 15	30/W 26/W	44	BED 05 DEC D/S		BED 10 MASSIVE NR BASE		NOD 10 DEC D/S						
MIN'D	391.4			MOD SIL & CHERTY BLK SHALE BEDS <4CM 25	36/W 15/W		BED 10		BED 30		NOD 35 DEC D/S						
MIN'D	395.0			SOS THIN TUFF(?) BEDS 25	24/W 25/W		BED 15 INC D/S		BED 20 DEC D/S	BLEB 05 DEC D/S.	NOD 35 INC D/S						
MIN'D	398.0		GL (MINOR) NEAR MID SECTION	SOS <0.4CM 05	27/W		BED 05 <2MM		BED 75		NOD 15						
MIN'D	402.5		GL & SLIPPY NR TOP THIN SHEAR ZONE @ BASE	NON-SIL BLK SHALE (<6CM) & CHERTY ARGL (<4CM) 05	27/W 23/W	38	BED 30		BED 05 DEC D/S		NOD 60 SMALL						
MIN'D	406.5			SOS 15	18/W 15/W	37	BED 25				NOD 60						
MIN'D	411.0			MUCH IN U. CARB, NON-SIL, VFG BLK ARGL BEDS 6-25 CM THICK FT SMALL CO, NIL 40	(14/E (low) 15/W	34	BED 20				NOD 40						
MIN'D	414.6			SOS THIN (<4CM) BEDS 20	24/W 10/W		BED 25 <3MM				NOD 55						
MIN'D	420.0			SOS 15	25/W 25/W		BED 30 "				NOD 50						
MIN'D	425.0			MOD. SIL. BLK SHALE BEDS (LAM PY) 46CM NON SIL SHALE <30CM 40	20/W 19/W		BED 30				NOD 40						
MIN'D	430.0		FAIR SL & PY	SOS 45	37/W		BED 30				NOD 35						
	433.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-15

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COORD _____ DIP ____ AZIM ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS DIZ COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % ppm Pb	% ppm Zn	% ppm Cu	oz. Ag	Au
			MOD-U.SIL. BLK SHALE, THIN TUFF(?) BEDS SOME CHERTY BEDS	MINOR CALC SHALE <4 CM	48/VERT 54/VERT				BED TR 1.5 CM @ 172.6		NOD 05 <5 CM						
	180.0		SOS	MINOR SMALL CALC. NOD ESP. @ TOP	54/VERT 47/VERT	46				BLEB TR NR BASE	BED TR 3 CM @ BASE						
	190.0		SOS		38/W					BLEB TR MID-SECTION TO BASE	NOD 05 <4 CM						
	200.0		SOS		65/W (FLAT)	43				BLEB TR V. MINOR SCATTERED							
	210.0		SOS		69/E (STEEP) 48/VERT					BLEB TR "	NOD 05 SMALL SCATTERED						
	220.0		SOS SLIGHTLY GRITTY	MASSIVE TO THICK BEDDED CHERTY INTERVALS	58/W (FLAT)	48					NOD TR "						
	230.0		SOS AS ABOVE	AS ABOVE	15/W	43											
	240.0		SOS	SOS	15/W	47				BLEB TR SCATTERED	NOD TR <3 CM						
	250.0		SOS	SOS	17/W					BLEB TR " INCD/S	NOD 05 <4 CM INCD/S						
	260.0		SLIGHTLY GRITTY MOD-U.SIL. BLK SHALE.	CHERTY ARGL INTERBEDS	23/W 36/W					BLEB TR " INCD/S							
	270.0		MOD-U.SIL. BLK SHALE, GRITTY INTERVALS	90 SL BED 5MM THK @ 275.5	37/W 29/W	32	BED TR <2 MM			BLEB 05 ESP NR TOP	NOD 05 1 BEDS <6CM						
	280.0			90 U. SIL TO CHERTY ARGL "FUZZY" PY LAM.	35/W 20/W		BED 05			BLEB 05 SCATTERED	NOD 05						
	290.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-15

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COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS QTZ COMMENTS	%	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. / Thickness %	PYRITE Diss. / Size %	BARITE Bed. / Thickness %	BARITE Bleb. / Size %	CO_3 Type / Size %	OTHER Description %	ANALYSES % Pb	% ppm Zn	% ppm Cu	oz. Ag	% ppm Ba
				INTERBEDD NON-SIL BLK SHALE/GRITTY, MOD-SIL. SHALE & CHERTY ARGL	15	08/W 14/W	33	BED TR <2MM ESP@BASE			BLEB 15 SCATTER	NOD 10 & BEDS <4CM						
	300.0			SOS MINOR CALC. SHAL MOSTLY VFG NONSIL.	85	08/W	40					BEDS 15 & NOD <4CM						
	310.0			MOD-V. SIL. BLK SHALE, VFG CALC NON-SIL. BLK SHALE CHERTY ARGL BEDS, MINOR THIN TUFF(?)	85	24/W 15/W	42	BED TR <2MM			BLEB 05 @TOP DEP D/S	NOD 10 & BEDS						
	320.0		SHR ZONE W QZ CO$_3$ VEINS & GOUGE @ BASE	DOMINATELY VFG NON-SIL BLK SHALE THICK (15CM) CALC SHALE @ 323.0	100		40					NOD TR ROUND <3CM.						
	323.5			SOS - MINOR CALC SHALE	70	20/W 28/NW		BED 05	DISS TR INCALC SHALE		BLEB 20	NOD 05						
	330.0			SOS - MINOR TUFF(?) BEDS MINOR CHERTY BDS	45	26/W 23/W 14/W	34	BED 10 <2MM			BLEB 25 DEP D/S	NOD 20						
	342.6		VFG NON-SIL BLK SHALE, MASSIVE			20/W	35												
	344.7			MOD-V.SIL., SLIGHTLY GRITTY BLK SHALE, CHERTY ARGL INTERBEDS, TUFF(?) BEDS <2CM	85	14/W 10/W		BED 10 <3MM			BLEB 25 INC D/S	NOD 30						
MIN'D	350.0		SLIN PY ~ 351.5'	SOS SOME NON-SIL, VFG SHALE 6-10 CM	85	17/W 25/W		BED 15 <3MM		BED 10 NR TOP	BLEB 20	NOD 20 & INC D/S						
MIN'D	360.0		THICK BEDDED MASSIVE CALC TUFF(?) 363.7 - 365.1.25 CM VFG NON-SIL BLK SHALE @ BASE	SOS THICK, VFG MOD. SIL BLK SHAL INTERVALS		10/W 10/W		BED 10 "			BLEB 15	NOD 15 & "						
MW'D	372.0		MINOR SHEARING @ BASE	SOS	15	12/W 10/W	53 130	BED 10 "		BED 10 @ BASE TOP	BLEB 50	NOD 15						
MIN'D	378.8			MOD-SIL. TO CHERTY BLK SHALE, NO TUFF(?) BEDS	50	15/W 06/W	33	BED 10 "			BLEB 20	NOD 20						
	395.8																	

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-15

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COORD _____ DIP ____ AZIM ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS DIR COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % Pb	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES oz. Ag	ANALYSES % Ba
MIN'D				MOD-O.SIL. SLIGHTLY GRITTY BLK SHALE, CHERTY ARGL INTERBEDS, ≤ 4CM 60	00/W 05/W	28	BED 20 <3MM				NOD 20 SMALL ~1BEDS						
MIN'D	390.0		SL IN PY @ BASE	SOS 45	08/W 14/W 18/W		BED 20 "			BLEB 05 SCATTERED <5CM	NOD 30						
	400.0			THIN (<1.5CM) NIN SIL, SLIGHTLY GRITTY BK SHALE BEDS W PY LAM 35	20/W 16/W		BED 30 INCR DIS				NOD 35						
	409.0			LOW SILICEOUS (PY LAM), MOD-O. SIL. BLK SHALE & CHERTY ARGL. ≤ 4 CM	15/W 10/W		BEDS 10 THIN "FUZZY"				NOD 20 LARGE T BEDS						
	419.0			LOW-MOD. SIL.) UFG BLK SHALE, MINOR CHERTY ARGL MINOR TUFF(?)	08/W 09/W	25	BEDS TR "				NOD 20 "						
	426.0																
END			END														

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-16

COORD 4N, 00E DIP -50 AZIM. 055 ELEV. ____ SIZE BQ STARTED June 15/79 COMPLETED June 17/79 LOGGED BY ____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR COMMENTS	CORE ANGLE Bedding W	CORE ANGLE Bedding E	CORE ANGLE Structure W	CORE ANGLE Structure E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	CO_3 Type % / Size	OTHER % Description	ANALYSES % Pb	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES oz. Ag	ANALYSES ppm Ba
	0.0		CASING BW3											BADLY BROKEN ~30% CORE REC					
	20.0		MOD-V. SIL. BLK SHALE	THIN (<1CM) RAD CHERT BEDS, MINOR	20/W														
	30.0		SOS	SOS	16/W		46		LAM Tr SCATTERED THICK										
	41.0		MOD-V. SIL. BLK SHALE, OCCAISIONALLY CALCAREOUS.	THIN RAD CHRT HORIZONS PY-HYDROC. BLEBS	15/W		44 20 34 39												
	46.0		LOW-MOD SIL. BLK SHALE,	THIN RAD CHRT HORIZONS	12/W		45		BED Tr THIN COARSE				NOD Tr LRGE						
	57.0		LOW-MOD. SIL., SLIGHTLY GRITTY BLACK SHALE	THIN CHERTY ARGL BEDS. PY-HYDROC. BEDS	20/SW 20/W		40 20		LAM Tr EVERY 1-3 MM.										
	61.0		LOW-MOD SIL., SLIGHTLY GRITTY BLK SHALE	THIN RAD CHRT BEDS PY-HYDROC. BLEB	27/W		43							~50% CORE REC					
	70.0		SOS	SOS	34/W		55							~40% CORE REC.					
	81.0		SOS	SOS	Ld E 45 W		35 83 20												
	91.0		LOW-MOD. SIL VFGR BLK SHALE	SCATTERED CHERTY INTERVALS	30/W		43		BED Tr @ BASE	BLEB Tr W QZ									
MIN'D	99.5		MINOR SHEARING @ BASE	CHERTY, FG BLK ARGL MINOR MOD. SIL BLK SHALE 60	25/W NE 45 NE 40		54		BED 10 <4MM		BED 10	BLEB Tr	MOD 20						
	104.5																		

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-16

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED B: _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS / COMMENTS	%	CORE ANGLE Bedding W	CORE ANGLE Bedding E	CORE ANGLE Structure W	CORE ANGLE Structure E	PYRITE Lam. Thickness	PYRITE %	PYRITE Diss. Size	PYRITE %	BARITE Bed. Thickness	BARITE %	BARITE Bleb. Size	BARITE %	CO_3 Type	CO_3 %	CO_3 Size	OTHER %	OTHER Description	ANALYSES % Pb	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES oz. Ag
MIN'D			LOW-MOD. SIL., MASSIVE BLK ARGL.	CHERTY ARGL ABOVE MIN'N (106'-107.4')	90	33/SW 37/SW		55		BED TR NR CENTRE				BED 05 NR CENTRE		BLEB TR "RECESSIVE GRAINING"		NOD NR CENTRE	05								
MIN'D	109.3		CHERTY ARGL @ TOP, SiO_2 DEC D/S TO MOD SIL. BLK ARGL	12.0 CALC SHALE BED W DISS PY @ 115.5	85	27/W 05/W 37/W		43		BED TR TOP 4' ESP.	05	DISS TR IN ARGL NR BASE (CALC)		BED 10 ESP NR TOP 4'				NOD ESP IN TOP 4'	05								
MIN'D	116.2			CHERTY BLK ARGL 4-6 CM	30	25/NSW 80/ESE (WARPED/A) 55/E (VERT)				BED 10				BED 40				NOD	20								
MIN'D	122.7		SLIGHTLY CALC CHERTY ARGL @ TOP	INTERBEDDED MOD. SIL TO CHERTY ARGL ESP TOP 2'	80	55/E (VERY) 04/W (FLAT)		48		BED 05 ESP NR BASE				BED 10 ESP NR BASE				NOD ESP NR BASE	05								
MIN'D	126.5		CALC CHERTY ARGL < 5 CM IN MIN'N (129.4' - BASE)	U. SIL. TO CHERTY BLK ARGL: 126.5 - 129.4	75	15/W		50		BED 15 129.4' - BASE				BED 10 129.4' - BASE				NOD 129.4' - BASE	10								
MIN'D	131.5			CHERTY, SLIGHTLY CALC ARGL BEDS < 6 CM.	70	37/SW 37/W		43		BED 05				BED 20				NOD	05								
	136.5		LOW-MOD. SIL., VFG. BLK SHALE			45/VERT						CLOT TR															
MIN'D	141.5			CHERTY, SLIGHTLY CALC ARGL @ TOP; NON-SIL, VFG ARGL @ BASE	45	18/W 30/W				BED 15				BED 25		BLEB TR 1 THIN, SCATTERED		NOD	15								
	143.0		U. CARB, NON-SIL, VFG BLK ARGL	BRXY ZONE W Q2-CO_3 VUG @ BASE		40		45																			
	146.9		U. CARB, NON-SIL VFG BLK ARGL					46				DISS. COARSE 153'-155'	05														
	155.0			MOD. SIL. BLK SHALE, THIN BEDDED	45	0/slight D/A 50/E (AAM)				BED 05 @ BASE				BED TR @ BASE				NOD MASSIVE @ TOP	50								
	158.9		MASSIVE, VFG, NON-SIL, BLK ARGL					43																			
	165.0																										

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-16

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS QTZ CARB VEINS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	CO_3 Type % / Size	OTHER % Description	ANALYSES % Pb	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES oz. Ag	ANALYSES Au
			MASSIVE, VFG, NON-SIL. BLK ARGL		65/E (?) (>C/A)	A3											
	175.0		SOS. SiO_2 CMT INC DIS OVER BASAL 0.5'			A0											
MIN'D	180			CHERTY BLK ARGL TO 20 CM, (QZ-CO_3 VEIN 184'-185'.	70/E (>S/A)		BED 10 <3MM		BED 15 SECTIONS <6 CM		NOD 20						
MIN'D	185.0			CHERTY BLK ARGL TO 30 CM SLIGHTLY CALC	75/E (>C/A) 58/E (STEEP)		BED 15		BED 15		NOD 20						
MIN'D	194.0		MINOR SL VFG PY @ TOP	NON SIL. BLK SHALE INC D/S, 1% SCATTERED CALC CHERTY BEDS TO 4 CM	1° ALONG C/A 68/E (?C/A)		BED 25 MASS @ TOP DEC D/S		BED 15 ESP IN MIDDLE		NOD 30 DEC D/S						
MIN'D	200.0			SOS ESP @ BASE	09/ C/A 65/E (?A) 69/E (?)	A5	BED 30 <3 MM		BED 10		NOD 40						
MIN'D	211.0		~40% QZ-CO_3 VEINS	MOD. SIL VFG BLK SHALE @ TOP, CHERTY ARGL TO BASE	25/W 66/E (C/A)	S6	BED TR 11 SCATTERED		BED 05 @ BASE		NOD TR TR PY						
MIN'D	218.0		220'-223.5' DOMINATELY MIN-SL, VFG BLK SHALE	NON-SIL BLK SHALE 2 CM (MINOR); BANDED CHERTY ARGL MINOR GOUGE @ BASE	48/VERT 46/W (STEEP)	S0 35	BED 05 ESP @ TOP		BED 10 ESP @ TOP	BLEB TR @ TOP	NOD 05 ESP @ TOP						
MIN'D	223.5			<3 CM BEDS MOD SIL BLACK SHALE & CHERTY ARGL.	10/W 20/W	A7	BED 20 INC D/S		BED 10 DEC D/S		NOD 30 INC D/S						
MIN'D	230.0		MASS SL. 233.0 BEDDED, ~5 CM THICK. MINOR SHR @ BASE	SOS	20/W (FLAT) 35/E	A6	BED 30		BED 05 DEC D/S		NOD 35						
MIN'D	235.0			SOS	(1) 34/E (2) 25/E		BED 25				NOD 30						
MIN'D	240.0		15 CM NON-SIL, VFG SHALE BED @ 243.0, W DISSEM PY	<2 CM BEDS MOD SIL BLK SHALE & CHERTY ARGL	32/W 05/W		BED 20	DIS % TR COARSE INJECTION			NOD 25						
	245.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-16

Page 1 of

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OIZ COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	CO_3 Type % / Size	OTHER % Description	ANALYSES %	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES oz. Ag	ANALYSES Pb
MIND				NON-MOD. SIL. UFG BLK SHALE & CHERTY ARGL < 5CM. 15	10/W; 4/W; 20/W	40	BED 15		BED 25; DEC DIS		NOD 15						
	255.0																
MIND			259.0-261.3, MOD. SIL., MASSIVE, UFG BLK ARGL, THIN SHR @ BASE	MOD-V. SIL.; SLIGHTLY GRITTY BLK SHALE TO 259.0 80	20/W; 08/W; N/A	L43	BED Tr				NOD 20						
	261.3																
MIND			QZ-CO_3 CEMENTED BRWY @ BASE	SOS 75	80 E (E C/A)	44	BED Tr				NOD 25	LOST CORE 267.0-270.(					
	266.7																
			LOW-MOD. SIL. BLK SHALE		48/E (FLAT)	60	LAM Tr; EVERY 3-4 M.										
	283.2		FAULT GOUGE			65											
	285.3		LOW-MOD. SIL SLIGHTLY GRITTY BLK SHALE		78 (E C/A); 43/W	65	LAM Tr; EVERY 4-6 MM										
	296.0		SOS TR. N SHR ZONE @ BASE	SCATTERED <1CM CHERTY ARGL INTERVALS	55/W; 15/W	43; 78 (E C/A)											
	306.0		SOS	SCATTERED THICK (<1CM) PY BEDS.	05/W; 08/W; 06/W	50											
END	318.0		END														

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-17

COORD L12N, 2W DIP -50 AZIM 055° ELEV. _____ SIZE BQ STARTED June 18/79 COMPLETED June 19/79 LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS DIR CUM INDICATORS	%	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	$CO_3^=$ Type % / Size	OTHER % / Description	ANALYSES % Pb	% ppm Zn	% ppm Cu	oz. Ag	% Ba
CC. O.B	0.00		DVB CASING															
	12.0			MOD-V.SIL & CHERTY BLK SHALE	80	00/C/A B/E (<C/A) 50/VERT	11/43				BLEB 15 / <4 CM BEDS	NOD 05 / MED						
MIND	20.0			SOS	35	58/E (CHERT) 68/E (LOW) 90/11 C/A 45/E (FLAT)	150	BED 15 / INC DIS		BED 20 / 221'-223'	BLEB Tr / NR TOP	NOD 30						
MIND	30.0			SOS	70	65/E (<C/A) 75/E (")		BED 10 / DEC DIS				NOD 20 / INC DIS						
	38.7		*SECTION U/T? REVERSE GRADING IN BLEB'D BARITE	MOD-V.SIL > SLIGHTLY GRITTY BLK SHALE MINOR TUFF(?) BEDS	70	73/E (<C/A) 60/E (") 66/E (")				BED 05 / <0.5" TOP OF BLEBBY BARITE	BLEB 20	NOD 05 / SMALL						
	50.0		CLV. DISPL., 2 CM EAST SIDE DOWN	SOS	75	83/E (") 58/E (") 53/E (") 58/E (")	145				BLEB 20	NOD 05 / "						
	60.0		CLV. DISPL. 0.5 CM EAST SIDE UP	MOD-V.SIL SLIGHTLY GRITTY BLK SHALE MINOR TUFF(?) BEDS	75	58/E (") 47/E (") 37/E (FLAT)	143				BLEB 25 / MASSIVE SECTIONS	NOD 05 / MEDIUM						
	70.0			SOS	75	34/E (FLAT) 55/E (<C/A) 34/E (FLAT) 15/W					BLEB 15 / SCATTERED	NOD 10 / INC D/S						
	80.0		* SECTION U/T? REVERSE "GRADING" IN TUFF(?)	MOD SIL TO CHERTY BLK SHALE MINOR TUFF(?) BEDS	80	26/SW 30/W 70/W		BED Tr / @ 85' (FUZZY)			BLEB 15 / "	NOD 05						
	90.0			SOS. THICK (>30 CM) MOD. SIL. SHALE NR BASE	70	46/W (FLAT) 32/W 27/SW		BED Tr / FUZZY 3 CM @ 97			BLEB 20	NOD 10						
	100.0		MINOR SHEARING @ 105'	SOS "TUFF" COMMON		42/W (FLAT) 54/E (FLAT)	~46				BLEB 30 / INC D/S	NOD 05						
	110.0																	

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-17

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR SUMMARY	CORE ANGLE CA Bedding W E	CORE ANGLE CA Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % Pb	% ppm Zn	% ppm Cu	oz. Ag	Sn
			BARITE & TUFF? STILL EXHIBIT REVERSE "GRADING" SECTION O/T?	MOD.-V.SIL. BLK SHALE TUFF? BEDS COMMON 55	58/E (FLAT) 48/E (W) 52/E (W)					BLEB 35	NOD 10						
120.0				60 SOS	22/W 28/W		BED 05 ~2 MM INC D/S			BLEB 10 DEC D/S	NOD 25 INC D/S						
130.0			"BANDS" 2MM-4CM THICK, VARIABLE & RANDOM?	"BANDED" (GREY & BLACK), SLIGHTLY GRITTY, MOD. SIL. BLK SHALE	26/W 45/FLAT 30/W	SHR ALONG BDG R	BED 05 DEC D/S		BED 10 139-137	BLEB Tr	NOD 05 ABRUPT DEC @ 130'	POOR CORE REC 135-137					
139.4			"BANDED" BLK SHALE, AS ABOVE - NO TUFF -	SOS THIN SHR ZONE @ BASE	15/W 15/W 19/W	50 43					NOD 05 4-6 CM						
150.0			HEALED BRK ZONE @ TOP	CHERTY ARG. & V.SIL. BLK SHALE 45	41/W (FLAT) 10/W	36 55				BLEB 05	NOD 30						
156.0			MOD.-V.SIL., VARIABLY GRITTY "BANDED" BLK SHALE.		25/W 23/W 25/W	43					NOD 05	60% CORE REC @ BRK					
170.0			SOS		28/W						NOD 05	60% CORE REC, BROKEN NOT SHEARED					
180.0			SOS		05/W 08/W	40					BED Tr 2-4 CM						
187.0			SOS	MINOR CALC SHALE	22/W 65/NE (STEEP) 30/SW												
200.0			MOD-V.SIL. BLK SHALE MINOR GREY SHALE BEDS	"BANDED" SHALE	25/W 35/W												
210.0			SOS "BANDED SHALE"	~25% CALC. SHALE	05/W 17/W 25/W												
220.0			SOS	~30% CALC SHALE	10/W 14/W	40 40											
228.0																	

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-17

COORD ____ DIP ____ AZIM ____ ELEV ____ SIZE ____ STARTED ____ COMPLETED ____ LOGGED BY ____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR COMMENTS	CORE ANGLE CA Bedding W E	CORE ANGLE CA Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % Pb	% ppm Zn	% ppm Cu	ppm oz Ag	ppm Au
			"BANDED" BLK SHALE, MOD-V. SIL.	NO CALC SHALE (?)	75/E (LC/A) 25/WNW						BED Tr ∠3 CM	~60% CORE REC'V BROKEN					
	240.0		SOS RAPID BUT GRADATIONAL CNT.	MINOR CALC SHALE	20/W 45/W WERY 30/WSW 35/W 10/W		LAM Tr THICK										
	252.0		MOD-V. SIL. BLK SHALE THIN CHERTY ARGL BEDS	40% CALC SHALE	10/W 20/W ~25/TW	45 40	LAM Tr THIN EVERY 3-4M				NΦ 10 MEDIUM INC D/S						
	260.0																
END			END.														

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-18

COORD. 14+00N, 16+00W DIP -50 AZIM. 055 ELEV. _____ SIZE BQ STARTED June 20/79 COMPLETED June 23/79 LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR COMMENTS	CORE ANGLE CA Bedding W	CORE ANGLE CA Bedding E	CORE ANGLE CA Structure W	CORE ANGLE CA Structure E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	CO_3^- Type % / Size	OTHER % Description	ANALYSES %	% ppm Zn	% ppm Cu	oz. Ag
	0.0																	
			OVB LEACHED MIN'N CASING															
	30.0																	
MIN'D				V. SIL. TO CHERTY BLK ARGL < 2cm, AVG < 2MM 15	08/W	38/W (FLAT)		45	BED 35 / <3MM MASSIVE SECTIONS				NOD 50 / <6CM					
	35.0																	
MIN'D			MINOR LEACHED SECTIONS	SOS <2CM, SLIGHTLY GRITTY, MOD SIL BLK SHALE BEDS 20	43/W (FLAT) 08/W		/		BED 35 / "				NOD 45 / <5CM					
	40.0																	
MIN'D			MOD SL BED @ 41.5 INTERSTIT. GL SL IN CO_3	SOS AS ABOVE 15	10/W 14/W		45		BED 35 / "				NOD 50 / "	MINOR Cu OFF CORE TUBE ON CORE				
	45.0																	
MIN'D			AS ABOVE (GL SL IN CO_3) THIN (<1 MM) GL-SL LAM IN Py	SOS 10	46/W (FLAT) 15/W		43		BED 35 / "				NOD 55 / "	"				
	50.0																	
MIN'D			GL-SL IN CO_3	MOD V. SIL BLK SHALE 2MM - 2.5 CM 20	05/W 20/W		48		BED 30 / DEC D/S				NOD 50 / "	"				
	55.0																	
MIN'D			SL MN CO_3	SOS INC D/S <1.5CM 25	12/W 05/W				BED 35 / <2 MM				NOD 40 / ±BEDS <4CM	"				
	60.0																	
MIN'D			"	SOS DEC D/S 15	15/W 24/W				BED 25 / "				NOD 60 / <7CM	"				
	65.0																	
MIN'D			SL-GL IN CO_3 ISL PALE	V. SIL. BLK SHALE <0.5CM 10	18/W 14/W		50		BED 40 / "				NOD 50 / <5CM	"				
	70.0																	
MIN'D			" THIN SL BEDS @ BASE	SOS 05	05/W 17/W				BED 45 / MASSIVE NR BASE				NOD 50 / <4CM	"				
	73.8																	
MIN'D			MASSIVE SL-Py GL SECTIONS 73.8 - 76.7 @ BASE	MOD - V. SIL BLK SHALE (LOW SL) < 2 CM 15	10/W 17/W				BED 60 / INCL SL Py 4-6 1:2				NOD 25					
	82.0																	

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-18

Page

COORD _____ DIP ____ AZIM ____ ELEV ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS OR COMMENTS	%	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. / Thickness	PYRITE %	PYRITE Diss. / Size	PYRITE %	BARITE Bed. / Thickness	BARITE %	BARITE Bleb. / Size	BARITE %	CO_3^- Type / Size	CO_3^- %	OTHER Description	OTHER %
MIN'D			SILT-SAND SIZE BLK SHALE FRAGS IN MASSIVE SL-GL 82.0 - 84.0 FTWL FRAGS?	U.SIL. BLK SHALE <5 MM INC D/S	15	23/SW 35/W (LOW)		BED 40 INCL SLGL SLPY 2:1 @ TOP				BED 15 82.0'-84.0		BLEB 05 83.0-84.0'		NOD 25			
MIN'D	55.0		GOOD RELICT BDG PRESERVED (PY LAM & COLOUR) IN CO_3	U.SIL. TO CHERTY <2CM ALT'G BEDS 88.8-90.1	25	46/W (FLAT) 30/W (H)		BED 35 DEC D/S						BLEB 15 INC TO BASE		NOD 25 DEC D/S			
MW'D	59.9		MASSIVE SL TOP 0.5', MASSIVE UFG PY 93.6'-94.1'	SOS	10	31/W (H) 35/W (H)		BED 60 INCL SL SLIPY DEC D/S								NOD 30			
MW'D	95.0			LOW-MOD SIL BLK SHALE BEDS <5 MM	10	28/W 45/W (FLAT)		BED 40								NOD 50			
MIN'D	100.0		NON-PYRITIC @ BASE	SOS INC DIS	35	24/W 27/W		BED 20 DEC DIS								NOD 45 <4CM		Cu ON CORE FROM CORE TUB	
MW'D	107.0		SL IN CO_3	SOS DEC D/S	05	37/W 27/W	50	BED 45								NOD 50 <3CM			
MW'D	112.0					25/W 39/W (FLAT)		BED 50 THIN								NOD 50 SMALL <2CM		"	
MIN'D	117.1		FAIR SL IN PY	SOS U.THIN BEDS	05	24/W 20/W		BED 45 THIN								NOD 50 " MASSIVE @ TOP			
MW'D	122.7		DOMINATELY MASSIVE SL			15/W		LAM 60 INCL SL SLIPY ~6:1								NOD 40 SMALL <1CM			
	125.1		MOD SIL. BLK SHALE SiO_2 DEC D/S PY DEC ABRUPTLY @	Py AS 4MM - 6MM FLATTENED NOD & INCOMPLETE BEDS		18/W	40	LAM 15 U.THIN @ TOP THICK D/S								NOD 05 LARGE			
	129.9		LOW-U.SIL. BLK SHALE, SLIGHTLY GRITTY SECTIONS BASE	MINOR CALC SECTIONS THIN (<1CM) RAD CHERT BEDS		26/W 12/W	48	LAM Tr U.THIN EVERY 1-3 MM								NOD 05 LARGE >15CM		SOFT SED DEFORM @ BASE	
	140.0		SOS CHERTY INTERVALS	THIN RAD CHRT BEDS INC. ~20% CALC BLK SHALE		15/W 22/W		LAM Tr "								NOD Tr <5CM			
	150.0																		

ANALYSES: % | % ppm Zn | % ppm Cu | oz. A

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-18

COORD ____ DIP ____ AZIM ____ ELEV ____ SIZE ____ STARTED ____ COMPLETED ____ LOGGED B ____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % ppm Zn	% ppm Cu	oz. A
			MOD-V.SIL. BLACK SHALE CHERTY INTERVALS	RAD CHERT INTERBEDS < 2CM MINOR CALC SHALE INTERBEDS	37/W (STEEP) 18/W	43	LAM Tr THIN VARIABLE								
	160.0		V.SIL. BLACK SHALE PY-HYDROC-CO_3 MASSES ALONG BDG,	RAD CHERT INTERBEDS 05 LISN BED 165.0'- 166.0' INTERVAL SLIGHTLY CALC	38/W 24/W 05/W	40	LAM Tr "	DISS Tr IN RAD CHERT			BED 10 165.0'- 166.0'				
	170.0		SOS CALCAREOUS PY-HYDROC-CO_3 MASSE DEC D/S	RAD CHERT 05 CALC. VARIABLY SILICEOUS	15/W 25/W 14/W	45	LAM Tr VARIABLE	DISS Tr "							
	180.0		SOS V.I. PY-HYD.-CO_3 VARIABLY SIL/CALC	NO RAD CHERT	23/W 25/W 31/W	47	LAM Tr @ TOP ONLY								
P	190.0		MOD-V.SIL, VFG BLK SHALE MOD. CALCAREOUS MINOR PY-HYDROC	NO RAD CHERT	24/W 26/W 30/W	45					NOD Tr <4CM & <4CM BEDS				
	200.0		SOS VARIABLY CALC NO PY-HYDROC-CO_3		14/W 10/W	47	LAM Tr DISCONT. 203'-210'				NOD Tr " "				
	210.0		SOS		00/W 11/W 03/W	52	LAM Tr DISCONT DEC D/S TO BASE								
	220.0		SOS MINOR PY-HYDROC-CO_3 NEAR BASE		05/W 10/W E 70 (CLEAN)	54	LAM Tr MINOR DISCONT.				BED 10 CA29 w/ THICK				
	230.0		SLIGHTLY CALC, MOD-V.SIL. BLK SHALE;	MINOR RAD CHERT BEDS PY-HYDROC-CO_3 MASSES INC D/S	E 66 (LI) 37/W (FLAT) 35/W (LI)	55	BED Tr IRREG, THICK CCE GRNS	DISS Tr IN RAD CHERT							
	240.0		SOS MINOR CALC SECTIONS	" PY-HYDRO-CO_3 INC TO BASE	04/W 22/W		LAM Tr EVERY 2-3MM INC D/S	DISS Tr "			BED 10 242'-242.6' 244'-245'				
	250.0		SOS V. MINOR CALC SECTIONS	SCATTERED THIN (<.6CM) RAD CHERT BEDS V. MINOR PY-HYD-CO_3	00/W 33/W (FLAT) 18/W	47	LAM Tr EVERY 2-3MM	DISS Tr IN RAD CHERT							
	260.0		V.SIL. BLK SHALE SCATTERED THIN CALC SECTIONS	NO RAD CHERT PY-HYDROC-CO_3 MASSES INC D/S	34/W (FLAT) 26/W (CCA) 17/W 10/W	48	LAM Tr . "	DISS Tr IN SHALE			NOD 10 <10CM				
	270.0														

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-18

COORD. _____ DIP ____ AZIM ____ ELEV. _____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR COMMENTS	CORE ANGLE CH Bedding W E	CORE ANGLE CH Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER % Description	ANALYSES %	% ppm Zn	% ppm Cu	oz. Ag	ppm
			MOD-U.SIL, BLK SHALE, SCATTERED CALC SECTIONS	PY-HYDROC-CO_3 MINOR, DEC D/S RAD CHRT MINOR INC D/S	19/W 07/W 08/W	49	LAM Tr SCATTERED	DISS Tr IN RAD CHRT			NOD Tr <5CM						
	280.0		SOS	PY-HYDROC INC D/S RAD CHRT DEC D/S	00/W 00/W 21/W (FLAT)	42	LAM Tr "	DISS Tr "			BED 10 4-6CM (SEEN 286.5 - 287.6						
	290.0		LOW - MOD.SIL BLK SHALE; MINOR, THIN CALC SECTIONS.	MINOR RAD CHERT 1CM TRACE, SCATTERED PY-HYDROC-CO_3 MASSES	05/W 11/W (LOW A) 00/W	48					BED 10 297.5-314.7						
	300.0		SOS	SOS	00/W 00/W 00/W	43	LAM Tr DISCONT. IN MID SECTIONS				NOD Tr <5CM						
	310.0		LOW - MOD.SIL. BLK SHALE MOSTLY SLIGHTLY CALC	MINOR SHEARING @ BASE	E\50 (VERT) 17/W (LOW A) E\52 (LCA)	46 10 265	LAM Tr DISCONT INC DIS TO BR'										
	319.0		MOD-U.SIL. BLK SHALE, SLIGHTLY CALC ~50%	MINOR PY-HYDROC NEAR BASE	90/ALONG FOL 16/W (LOW A) 12/W (11)	47	LAM Tr EVERY 2-3 MM.				NOD Tr <6CM NR BASE						
	330.0		SOS. CALC CONTENT INC.	NO PY-HYDROC.	05/W E\60 (STEEP) 10/W (LOW A)	40	LAM Tr "				BED Tr 330.0-331.3						
	340.0		LOW-MOD SIL., SiO_2 DEC D/S VARIABLY CALC. ~20%	U. MINOR PY-HYDROC-CO_3 MASSES	25/W (FLAT) 14/W (LOW A) 90/W (FLAT) 44/VERT	37	LAM Tr DEC D/S DISCONT				BED 10 343.0-344.1						
	350.0		MOD-U.SIL., ~80% MOD CALC.	PY-HYDROC. MINOR, INC D/S	43/VERT 48/VERT E\63 (<CA) BAL (FLAT	45	LAM Tr DISCONT.				BED 10 350.0-351.0						
	360.0		SOS	"	E\45 (VERT) E\67 (<CA) E\58 (FLAT)	43	LAM Tr "				BED 10 <6CM NR TOP						
	370.0		SOS	MINOR PY-HYDROC-CO_3	E\43 (FLAT) E\59 (FLAT) 90/CA E\62 (<CA)	45					BED Tr <6CM @ 370.0						
	380.0		SOS		E\70 (<CA) 90 (") E\82 (") E\37 (") 90/CA	47											
	390.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-18

COORD. _____ DIP ____ AZIM ____ ELEV. _____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED B _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER % Description	ANALYSES %	ppm Zn	% Cu	oz. A
			MOD-V SIL. BLK SHALE ALL MOD. CALC.		E/39 (FLAT) E/ALTERN E/49 (FLAT) E/64 (LOW ∠)	46	LAM Tr THIN EVERY 2-4MM				BED 05 3962-896.9					
	400.0		SOS LESS CALC, CO_3^- DEC RAPIDLY D/S	MINOR PY-HYD MINOR RAD CHRT BEDS < 4 CM	E/46 (FLAT) E/65 (< CA) W/N (LOW ∠) E/71 (< CA)	42	LAM Tr "									
	412.0															
END			END													

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-19

COORD L12N 13+50W DIP -50° AZIM. 055 ELEV. _____ SIZE BQ STARTED June 23/79 COMPLETED June 25/79 LOGGED [illegible]

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR COMMENTS	CORE ANGLE CA Bedding W E	CORE ANGLE CA Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER % Description	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES oz. Ag
	0.0		OVB CASING												
	20.0		MOD-U.SIL. BLK SHALE	1-2% CALC Tr SCATTERED <3CM RAD CHRT BEDS	19/W (LOW) 37/W (FLAT) 28/W (LOW)	163	LAM Tr THICK SCATTERED								
	30.0		SOS LOW SIL INTERVALS NDUS 100% SLIGHTLY CALC	SCATTERED Ds RAD CHRT BEDS	30/W (L) 13/W (L) 10/W 10/W (LOW)	163	LAM Tr THICK INC D/S								
	40.0		SOS CALC CONTENT INC D/S	MINOR RAD CHRT BEDS Tr	19/W (L) 29/W (L) 50/E (FLAT)	163	LAM Tr 11								
	47.0		VARIABLY SILICEOUS BLK SHALE CM. DISPLACEMENT E SIDE DN 6MM	SMALL, MINOR PY-HYDROC.-CO_3^- MASSES.	12/W (LOW) 40/W (STEEP) 70/E (L CA) 8/W (LOW)	163	LAM Tr FAINT	DISS Tr IN SCATTERED INTERVALS							
	60.0		SOS CALC CNT INC TO MOD CALC D/S	RAD CHRT <1CM THIN CO_3 BEDS 05	25/W (FLAT) 10/W (LOW) 38/E (L) 47/E (L)	159	LAM Tr SCATTERED				NOD Tr NR TOP <5 CM				
	70.0		SOS CALC CNT DEC D/S	RAD CHRT <2CM THIN CO_3 BLEBS, PY-HYDROC-MASSES 10	20/W 59/W (VERY) 35/W	72 58 56						50% CORE REC 73'-80'			
	80.0		SOS? BADLY BROKEN MOD-SIL.	SOS? NO RAD CHRT		55 409						50% CORE REC 80'-90'			
	90.0		SLIGHTLY CALC MOD. SIL SLIGHTLY GRITTY BLK SHALE	CALC @ BASE RAD CHRT BEDS <2CM @ BASE	59/E (LOW) 53/E (MOD) 23/W	75 65 130 90 86	LAM Tr SCATTERED THICK "FUZZY"					80% CORE REC 90'-100'			
	100.0		LOW-MOD. SIL. BLK SHALE, CALCAREOUS INTERVALS	SCATTERED, MINOR <2CM RAD CHRT BEDS. N = 310° 15° SLICKEN SIDES	65/E (VERY) 69/E (L)	155 43 270									
	110.0		SOS? BADLY BROKEN			CA 165						60% CORE REC 110-NE EOP @ BASE			
	118.0														

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-19

COORD _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS & COMMENTS	%	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. / Thickness	%	PYRITE Diss. Size	%	BARITE Bed. Thickness	%	BARITE Bleb. Size	%	$CO_3^=$ Type / Size	%	OTHER Description	%	ANALYSES %	% ppm Zn	% ppm Cu	oz. Au
			MOD-V.SIL., SLIGHTLY GRITTY BLK SHALE	MOD. CALC. INTERVALS 8" FLT GOUGE @ BASE		40/W (FLAT) 35/W (11) 65/VERT	71 40	LAM Tr THICK "FUZZY" SCATTERED										50% CORE REC 124'-130'					
	130.0		MOD-U. SIL., SLIGHTLY GRITTY "BANDED" BLK SHALE	THIN "TUFF" BEDS 4 1CM LISN BEDS		80/E (MOD) 80/W (STEEP) 90/CA		BED Tr THIN								BED Tr 4 1 CM		50% CORE REC 130'-[illegible]					
MIN'D	137.0			V.SIL, SLIGHTLY GRITTY BLK SHALE	30	38/W	62 70	BED 10 THICK 3-4 MM								NOD 60 LRGE		~80% C.R.					
MIN'D	141.0			SOS	25	53/W (STEEP) 58/W (11)	78 70 46	BED 15 "								NOD 60 "		~50% C.R.					
MIN'D	152.0			MOD-U.SIL., SLIGHTLY GRITTY BLK SHALE	40	50/W (11) 48/W (11) 43/E (11)	65 61	BED 20 "								NOD 40		~40% CORE REC					
END	160.0		END																				
			HOLE ABANDONED IN BADLY CAVING GROUND																				

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-20

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COORD 4355 mN, 1400 mW DIP -55° AZIM 055 ELEV. _____ SIZE BQ STARTED June 26/79 COMPLETED June 28/79 LOGGED BY [illegible]

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS OR COMMENTS	%	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	%	ANALYSES % ppm Zn	% ppm Cu	oz. Ag
	0.0		BADLY BROKEN BEDRK CASING														
	40.0		MOD-V.SIL., SLIGHTLY GRITTY, MOD. FISSILE, NON-CALC SHALE	CO3 HYDRO. MASSES ALONG CDG., MINOR PYRITIC RAD CHERT & LCM		10° CA 52/VERT 64/E (CA)	52	BED TR THICK SCATTERED									
	50.0		SOS	SOS		68/E (CA) 78/E (CA) 38/W 24/W		BED TR "									
	60.0		SOS SHR ZONE @ BASE	SOS		32/W	55						2% CORE REC				
	70.0		V.FISSILE, LOW-MOD SIL. BLK SHALE	2 CM RAD CHERT, SCATTERED		38/W N/A	42	LAM TR SCATTERED					40% CORE REC				
	80.0		SOS THIN BRX @ BASE	SOS MINOR CALC SECTIONS		30/W 60/E (CA) 48/W 75/E (CA) 30/E (")	46	LAM TR SCATTERED					60% CORE REC				
	93.6		SOS	SOS NO CALC SHALE		68/E (CA) 35/W	40	LAM TR QUERY 2-3 MM IN SCATTERED SECTIONS					40% CORE REC				
	100.0		SBS	SOS NO CALC SHALE		30/W 70 (CA) 65/E (CA)		LAM TR SCATTERED									
	110.0		SOS	SOS NO CALC SHALE		40/W 58/VERT	52	LAM TR "									
	116.0		SOS, LOW-MOD SIL V.CARB. BLK SHALE	SOS MINOR CALC SECTIONS		65/E (CA) 62/E (") 57/E (")		LAM TR "	1% TR IRREG MASSES INC D/S			NOD TR 2 CM					
MIN'D	126.5			MOD-V.SIL & CHERTY BLK SHALE, 2 CM	30	54/E (VERT 63/E (CA) 66/E (")		BED 20 <3 MM INC D/S				NOD 50 4 CM					
	137.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-20

COORD ____ DIP ____ AZIM ____ ELEV. ____ SIZE ____ STARTED ____ COMPLETED ____ LOGGED BY ____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY / INTERBEDS / COMMENTS	%	CORE ANGLE Bedding W	CORE ANGLE Bedding E	CORE ANGLE Structure W	CORE ANGLE Structure E	PYRITE Lam. / Thickness	PYRITE %	PYRITE Diss. / Size	%	BARITE Bed. / Thickness	%	BARITE Bieb. / Size	%	CO_3^- Type / Size	%	OTHER Description	%	% Pb	% ppm Zn	% ppm Cu	oz. Ag	% ppm Ba
MIN'D				MOD-V.SIL & CHERTY BLK SHALE <0.5 CM, INC D/S	20	54/E(LOCAL)				BED	40							NOD	40							
						58/E(N)				NARROW SECTIONS THIN BED								<2CM								
MIN'D	142.0			SOS	25	63/E(N)				BED	40							NOD	35							
						65/E(N)				"								"								
MIN'D	147.0			SOS	25	63/E(N)				BED	35							NOD	40							
						62/E(N)				"								"								
MIN'D	152.0			SOS	10	55/E(N)				BED	40							NOD	50							
						60/E(N)				"								" INC D/S								
MIN'D	157.0			SOS	15	58/E(N)				BED	40							NOD	45							
						50/E(N)				"								DEC D/S								
MIN'D	162.0			SOS	20	45/VERT		45		BED	35							NOD	45	45% CORE REC						
						~ N/A																				
MIN'D	167.5			SOS	05	55/E(LOCAL)		40		BED	40							NOD	55	60% CORE REC						
						40/W												<5CM								
MIN'D	173.0			SOS V. THIN BEDDED INC D/S	20	40/W				BED	30							NOD	50	80% CORE REC						
						37/W				THIN DEC D/S								<2CM								
MIN'D FTWL?	177.5		GRADATIONAL CNT W FTWL RK	MOD-V.SIL & CHERTY BLK SHALE INC DE	45	30/W		47		BED	20							NOD	35							
						10/W				DEC D/S								<8CM SIZE & D/S % DEC D/S								
	185.0		LOW-MOD SIL. BANDED BLK SHALE	SHEAR IN ZONE @ 196.5' MISSING CORE ??		10/W (FOL)		40		LAM	TR									20% CORE REC						
						N/A				THICK SCATTERED																
	196.0		V.SIL. TO CHERTY BLK ARGL FLT GOUGE @ BASE	THIN (<1CM) RED CHERT BEDS		40/W		50		LAM	TR							NOD	10							
						65/E(LOW)				THIN, SCATTERED								<1CM								
	201.0			MOD-V.SIL & CHERTY BLK ARGL <1CM	15	25/W		45		BED	40							NOD	45							
MIN'D						35/W				DEC D/S								INC D/S <2CM								
	206.0					19°(CA)																				

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-20

COORD. _____ DIP _____ AZIM. _____ ELEV. _____ SIZE _____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS DIR COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	%	ANALYSES % ppm Zn	% ppm Cu	oz. Ag	% ppm Ba
MIN'D				MOD-V.SIL.? CHERTY BLK SHALE < 4MM. 05	70/E(LOW) 65/E(") 35/FLAT		BED 50 THIN MASSIVE SECTIONS				NOD 45 <3CM						
	211.0																
MIN'D				SOS THIN BDD, INC D/S TO BASE 25	51/E(LOW) 85/E(")		BED 35 DECD/S TO BASE			BLEB TR @215.5 THIN	NOD 40 "						
	216.0																
MIN'D				SOS DEC D/S 10	75/E(") 45/FLAT	47	BED 40 INC D/S				NOD 50 "						
	221.0																
MIND				5	15/W(LOW) 10/W(STEEP)		BED 55				NOD 45 "						
	226.0																
MIN'D				U.SIL. TO CHERTY BLK ARG. ESP @ BASE 10	25/W(FLAT) 10/W(STEEP)		BED 50				NOD 40 "						
	231.0																
MIN'D				5	10/W(") 05/W(")		BED 60 MASSIVE THIN BDD				NOD 40 <2CM						
	235.5																
MIN'D				MOD-V.SIL ?CHERTY BLK SHALE, INC DK 20	05/W(") 05/W(")		BED 45 "				NOD 35 DEC D/K						
	239.2																
MIN'D FWL?			GRADATIONAL CNT	MOD-V.SIL., "BANDED" BLK SHALE 55	05/W 05/W(") 10/W(LOW)		BED 15 THIN TO MED				NOD 30 DECD/S						
	246.0																
			"BANDED" MOD-V.SIL. BLK SHALE NON-CALC.	GOOD PARTING ON BDG. 5	10/W(STEEP) 10/W(") 05/W(LOW)	45	LAM TR COARSE GRAINED SCATTERED	DISS TR COARSE (SAND-SIZE)									
	256.0																
SHALE/ARG			SOS	SOS THIN BARITE BED (5MM) ABOVE 2MM SL BED @ 260.8 5	10/W(STEEP) 10/W(") 05/W(")	40	LAM TR "	DISS TR "									
	266.0																
			SOS	GOOD PTG ON BDG 5	10/W(") 10/W(") 10/W(")	41	LAM TR SOME HIGH SECTIONS	DISS TR "									
	276.0																
			SOS VARIABLY SILICEOUS	" 5	11/W(") 10/W(") 14/W(")	38	LAM TR SCATTERED COARSE	DISS TR									
	286.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-20

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS OR COMMENTS	%	CORE ANGLE Bedding W	CORE ANGLE Bedding E	CORE ANGLE Structure W	CORE ANGLE Structure E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	CO_3 Type % / Size	OTHER % / Description	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES oz Ag	ANALYSES % ppm Ba
			VARIABLY SIL., NON CALC., BANDED BLK SHALE	GOOD PTG ON BDG PL.		15/W (STRAT) 15/W (") 18/W (")		45		LAM Tr / COARSE LAMINERD	DISS Tr / SAND-SIZE			VEIN Tr / TO 2CM W DISS PY					
	276.0		SOS	SOS		18/W (") 10/W (")				LAM Tr / "	DISS Tr / "								
	303.0		SOS	SOS	90	05/W (") 15/W (")		48		BED 10 / FIREEG MAGGES CAMP THK	DISS Tr / "								
	325		SOS GRAD. CNT @ BASE	SOS	75	10/W (") 20/W (")		40		BED 20 / INC D/S				NOD 05 / START @ 311' INC D/S					
MIN'D	3?0.0			MOD-V. SIL. & CHERTY BLK SHALE DEC D/S	05	20/W (") 25/W (") 22/W (")				BED 55 / THIN, MASSIVE				NOD 50 / <2CM					
MIN'D	315.0			SOS	05	15/W (") 15/W (")				BED 45 / "				NOD 55					
MIN'D	332.0			SOS INC D/S	15	10/W (") 14/W (")				BED 45 / "				NOD 40					
MIN'D	332.0			SOS <1CM	20	18/W (") 22/W (")				BED 35 / DEC D/S				NOD 45					
MIN'D	332.0			NOW DOMINANTLY LOW-MOD SIL <2CM	30	18/W (") 05/W (")		43		BED 30 / DEC D/S				NOD 40					
MIN'D	337.0		NOW A FEW, MINER "TUFF" BEDS.	SOS INC D/S	50	14/W (") 08/W (")				BED 20 / DEC D/S				NOD 30 / <4CM					
MIN'D	342.0		"TUFF" BEDS INC D/S SHEARED @ BASE	BANDED" BLK SHALE 2-3CM BEDS	65	18/W (") 22/SW (")		42 / 38		BED 15 / DEC D/S				NOD 20 / <3CM DEC D/S					
	347.7		QZ-CO_3 HEALED FAULT	PICKING UP FTWL BRKY FRAGS @ ~150		SLICKENSIDE PLUNGE 45° N WRT CA		45 / 39 / 60											
	352.5																		

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-20

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COORD ___ DIP ___ AZIM ___ ELEV. ___ SIZE ___ STARTED ___ COMPLETED ___ LOGGED ___

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES oz. Ag	ANALYSES % ppm Ba
			LOW-MOD. SIL., SLIGHTLY GRITTY, THICK, BEDDED BLK SHALE (5-15CM)	MINOR, THIN TUFF "BEDS"; ELLIPSOIDAL TO ROUND BARITE (?) 97-DY NODULES	26/W 53/ENE (LOW) 30/W	42 45N 47				BEAD Tr 2-8MM						
	310.0		SOS NOW 20-30% TUFF IN THICK COARSE SECTIONS.	(BEADS"), HIDDEN BDG PL (2-8MM DIA.) SCATTERED	43/ENE (VERT) 45/NERT N/A 53/FLAT	39				BEAD Tr "						
	370.0		STUFF IS NON-CALC PYRITIC (DISSEM) BARITE (?) SOS MINOR "TUFF"	SOS - "TOPS UP	12/W (LOW) 06/W (LOW) 20/W (")	44 43				BEAD Tr "	NOD Tr <1CM W BEADS					
	390.0		SOS V. MINOR "TUFF"	MINOR, SLIGHTLY CALC, UFG BLK SHALE MOTLED BRN @ BASE	20/W (") 23/W (")	45 45 44				BEAD Tr +NOD <3CM						
	380.0		SOS		10/W (") 25/W (")					BEAD Tr						
	390		SOS "TUFF" IN MASSIVE SECTIONS CHERT BEDS TO 10CM	"CHERT" IS CALCAREOUS	50/FLAT 15/W (LOW) 08/W (")					BEAD Tr +NOD (EGGS") 4-10CM						
	400.0		SOS LESS "TUFF" ~5-10% IN <2CM BEDS		05/W (LOW) 00/W 30/W (LOW)	42				BEAD Tr "	NOD Tr <0.5CM					
	410.0		SOS V. THIN "TUFF" LAM.	THICK (1.5') MASSIVE, GRADED TUFF IN MIDDLE	05/W 03/W N/A					BEAD Tr 2-8MM	NOD Tr <2CM ROUND					
	420.0		SOS	17CM BLK LSN BED @ 422'	14/W (LOW) 50/W (FLAT) 55/E (LOW)	40				BEAD Tr 2-5MM	NOD Tr "					
	430.0		SOS MINOR <5CM "TUFF" BEDS		55/E (") 20/W (LOW) 47/W (STEP)	38				BEAD Tr "	NOD Tr <4CM ROUND					
	440.0		SOS <1CM "TUFF" FELT GOUGE 15° TO BASE		47/(FLAT) 30/SW (LOW) 25/W (STEP)	39 49 50				BEAD Tr	NOD Tr "					
	451.0		SOS <1CM "TUFF" BEDS		22/W (") 25/W (") 25/W (")	40 42				BEAD Tr	NOD Tr V. MINOR <1CM					
	460.0															

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-20

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % ppm Zn	% ppm Cu	oz. Ag	ppm Ea
			LOW-MOD SIL., THICK BEDDED, NON-CALC BLK. SHALE (4CM - 20CM)	MINOR GRADED TUFF BEDS <1 CM THICK	27/W 21/W 23/WNW	43				BEAD Tr LAMINAE 1-5 MM	NOD Tr ROUND 1CM-3CM					
	470.0		SOS	SOS	23/WNW 22/WNW 18/W	43				BEAD Tr "	NOD Tr LARGE SEPTARIAN					
	480.0		SOS	SOS TUFF" V. MINOR, V. THIN BEDD.	25/W (LOW) 32/W (LOW) 27/W (LOW)	43 47				BEAD Tr "	NOD Tr ROUND 0.5-1CM					
	490.0		SOS	"	20/W (LOW) 23/WSW (LOW) 27/WSW (LOW)	37				BEAD Tr "	NOD Tr "					
	500.0		SOS	" 5CM CO_3 RED @ 501.6	25/W (LOW) 55/E (FLAT) 27/W (LOW)	30				BEAD Tr "	NOD Tr TBED					
	510.0		SOS SOME SLIGHTLY CALC SECTIONS	"	30/W (LOW) 30/WNW (LOW) 27/NW (LOW)	33				BEAD Tr "	NOD Tr <1CM					
	520.0		SOS AS ABOVE	"TUFF" <1CM, SCATTERED, MINOR	27/WNW (LOW) 23/NW (LOW) 23/NW (LOW)	32		Diss Tr VOID CONCRET, MARGIN		BEAD Tr "	NOD Tr "					
	530.0		SOS NON-CALC	6½CM LISW BED @ 534.5' TUFF <0.5CM	21/NW (LOW) 21/NW (LOW) 28/NW (LOW)	32					NOD Tr 1" TBED	LOST CORE 545'-549'				
	540.0															

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-21

COORD 24+50S, 9W DIP -50°W AZIM 235° ELEV. SIZE BQ STARTED June 29/79 COMPLETED July 2/79 LOGGED BY

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS & COMMENTS	%	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. Thickness	PYRITE %	PYRITE Diss. Size	PYRITE %	BARITE Bed. Thickness	BARITE %	BARITE Bleb. Size	BARITE %	CO_3 Type Size	CO_3 %	OTHER Description	%	ANALYSES %	ppm Zn	%	ppm Cu	oz. Ag	%	ppm Ba
	0.0		CASING BROKEN BEDROCK																							
	10.0		LAM-MOD SIL, VERY CARB, NON-SIL. BLK SHALE			83/NW(HK)	54							BEAD	Tr											
	20.0		SOS NOW SLIGHTLY CALC			50/NE(VERT) 63/SW(K)	55							BEAD	Tr											
	40.0		"	V. MINOR "TUFF" BEDS < 1CM		45/SSW(MOD)	47							BEAD	Tr											
	60.0		SOS MOD CALC INTERVAL REMAINDER SLIGHTLY	"TUFF" LESS THAN 2CM GRADED TOPS UP		45/S (VL) 80/W (?CA)								BEAD	Tr	NOD	Tr									
	80.0		CALCAREOUS SOS AS ABOVE	"		80/W(VL) 60/W(STRD) 60/NW(VL)	45							BEAD	Tr											
	100.0		SOS AS ABOVE	"		67/WNW(VL) 55/NW(VL)	40							BEAD	Tr											
	120.0		SOS AS ABOVE	V. MINOR "TUFF", < 3MM		85/WSW(VL) 61/WNW(VL)	38							BEAD	Tr											
	140.0		SOS AS ABOVE V. CALC SECTIONS	NO TUFF		75/W(<CA) 63/W(VL) 59/W(VL)								BEAD	Tr	NOD	Tr									
	160.0		SOS CALC CNT DEC D/S	V. MINOR TUFF, < 1CM		69/W(VL) 85/W(VL)								BEAD	Tr	NOD	Tr									
	175.0		SOS MINOR SLIGHTLY CALC INTERVALS	V. MINOR TUFF, < 3MM		82/W(VL) 80/W(VL)	38							BEAD	Tr	NOD	Tr									
	190.0																									

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-21

COORD. _____ DIP _____ AZIM. _____ ELEV. _____ SIZE _____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR COMMENTS	CORE ANGLE CA Bedding W E	CORE ANGLE CA Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description
			LOW-MOD. SIL. THICK BDD. V. CARB BLK SHALE	< 2 CM CALC. INTERBEDS (V. THIN (< 4 MM) "TUFF" BEDS	90/CA 74/W (CCA) 87/W (")	90/36 50/N				BEAD Tr 1-4 MM SCATTERED	NOD Tr ROUND < 2 CM	
	210.0		SOS AS ABOVE	SOS AS ABOVE	66/W (CA) 84/W (")	33 39					NOD Tr < 6 CM SEPTAR.	
	221.5		SOS "	SOS SHR @ 222.0	85/W (CA) 70/W (") 90/CA	94					NOD Tr ROUND < 2 CM	
	240.0		SOS "	SOS CALC INTERBEDS SCATTERED TUFF < 0.5 CM	76/W (CA) 83/W (") 90/CA	37 34				BEAD Tr LARGE @ BASE < 6 CM		
	266.0		SHEAR ZONE, SOME FAULT GOUGE ~ 50% HEALED @ 12 CM			41 35 52 36						
	291.0		THICK BEDDED, LOW-MOD. SIL., VERY CARB MOD-SLIGHTLY CALC BLK SHALE	MINOR "TUFF" THIN SHR ZONE @ BASE	85/W (CCA)	67 28 33				BEAD Tr < 6 MM	NOD Tr ROUND < 1 CM SEPT. (100%)	
	304.6		SOS	SOS	85/W (CCA) 90/CA					BEAD Tr "	NOD Tr "	
	320.0		SOS	SOS 6 CM MASSIVE TUFF @ 326'	75/W (CA) 76/W (")	27				BEAD Tr "		
	340.0		SOS THIN SHR @ BASE	SOS MINOR "TUFF"	82/W (") 90/CA	30 90				BEAD Tr < 4 MM		
	360.0		SOS NOW NON-CALC MINOR CALC INTERBEDS	NO "TUFF" BEDS < 1 CM	90/CA 90/CA 70/CCA	27				BEAD Tr < 4 MM	NOD Tr < 1 CM ROUND	
	380.0		SOS AS ABOVE	MINOR "TUFF" < 1 CM	65/W (") 62/W (") 67/W (")	27				BEAD Tr < 4 MM	NOD Tr LARGE > 6 CM SEPT.	
	400.0		SOS	SOS	66/W (") 60/W (")					BEAD Tr "	NOD Tr "	
	420.0											

ANALYSES

% P	% Zn ppm	% Cu ppm	Ag oz.	% Ba ppm

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-21

COORD. ______ DIP ______ AZIM. ______ ELEV. ______ SIZE ______ STARTED ______ COMPLETED ______ LOGGED BY ______

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS or COMMENTS	%	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. Thickness	%	PYRITE Diss. Size	%	BARITE Bed. Thickness	%	BARITE Bleb. Size	%	CO_3 Type Size	%	OTHER Description	%	ANALYSES Zn %	Zn ppm	Cu %	Cu ppm	Ag oz.	Ba %	Ba ppm
	429.0		SOS	SUS		57/u(CA) 62/u(CA)	33							BEAD <3 MM	Tr	NOD <5CM SEPTAR	Tr			/		/			/	
END			END /																							

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-22

COORD. L25S+50N, 16+60W DIP -50E AZIM. 055 ELEV. _____ SIZE BQ STARTED July 2/79 COMPLETED _____ LOGGED _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS & COMMENTS	%	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	$CO_3^=$ Type % / Size	OTHER % Description	%	ANALYSES % ppm Zn	% ppm Cu	oz. A	% ppm Ba
	0.0		OVB CASING															
	20.0		MOD.-V. SIL., SLIGHTLY GRITTY ARGILLITE/ BLK SHALE, THIN BDD	SCATTERED <1CM RAD CHRT BEDS.		30/NNE (LW) 90/CA	160	LAM Tr EVERY 25MM DISCONT.										
	30.0		SOS	SOS		35/SE (STRZ) 90/CA 85/E (>CA)	151	LAM Tr "										
	40.0		SOS	MINOR THIN CALC. SHALE BEDS (<1CM) NO RAD CHRT		88/E (LW) 85/E (LW) 80/E (LW)	144	LAM Tr "										
	60.0		SOS NOW UFG CALC CHT INC NOW SLIGHTLY CHLC			73/E (LW) 67/E (LW) 80/E (LW)	149	LAM Tr "										
	80.0		MOD-V. SIL. THIN BDD BLK SHALE SLIGHTLY GRITTY CALC LAMINAE	THIN (<3CM), MINOR, SCATTERED RAD CHRT BEDS		24/SW 28/SW 55/VERT	150	LAM Tr "										
	90.0		SOS	NO RAD CHRT		78/E (CA) 81/E (LW)	143	LAM Tr										
BARITE	100.0		SOS	BARITE-CO_3-CHRT MASSIVE @ 103'		25/SSE (LW) 28/SSW (LW)	150	LAM Tr EVERY 2-3 MM SCATTER.		BED Tr 9 CM								
	110.0		LOW-MOD SIL. MED TO THIN BDD BLK SHALE, SLIGHTLY V. CALC SECTIONS			78/E (CA) 80/E (LW) 90/CA	142	LAM Tr " DISCONT										
	120.0		SOS			90/CA 54/E (CA)		LAM Tr "										
	130.0		SOS FLT GOUGE & BRXN @ BASE	GOOD PTG ON BDG TR		47/VERT 35/W (HW)	140 130	LAM Tr EVERY 1-2 MM										
	142.0																	

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-22

COORD ____ DIP ____ AZIM ____ ELEV. ____ SIZE ____ STARTED ____ COMPLETED ____ LOGGED ____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS DIZ COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	CO_3^- Type % / Size	OTHER % Description	%	ANALYSES % ppm Zn	% ppm Cu	oz. Ag	% ppm Ba
			LOW-MOD SIL. BLK SHALE, MOD-U. CALC SECTIONS MED BEDD	THIN LSN BEDS	15/W 72/E(LCA)	57	LAM Tr EVERY 2-4 MM FUZZY				BED Tr <1CM						
	150.0		SOS, NON-CALC.	BEST PTG ON CLY.	66/E(LCA) 20/WNW	60	LAM Tr SCATTER. "FUZZY"										
	160		SOS CALC. ~166'	"	18/WNW 39/E(FLAT) 43/E (")	55	LAM Tr "										
	170.0		SOS MOD. SHRINGIBI-IBS, QZ-CO, VEN	"	26/E (LCA) 40/FLAT 10/W (LCA)	50 305 45											
2/7/11	185.0		SOS SLIGHTLY CALC INTERVALS	" MOD SOFTSED(?) DEF'N, SHALL-SCA	00/0 00/0 00/0 30/NSW	47 58	LAM Tr SCATTERED "FUZZY"										
	200.0		SOS CALC CNT DEC DIS.	BEST PTG ON CLY MOD CALC INTERVALS 4 CM	21/W (LCA) 10/W (") 15/WSW(HIGH)	47	LAM Tr "										
	210.0		SOS NON-CALC	BEST PTG ON CLY V. MINOR PY-CO_3 HYDROC.	00/0 27/SW (LCA) 12/SW (")	44	LAM Tr V. MINOR, THICK, "FUZZY"										
	220.0		SOS NON-CALC	BEST PTG ON CLY	25/SW(HIGH) 73/E(LCA) 68/E (")	57	LAM Tr "						60% CORE REC				
	230.0		SOS "	"	69/E(LCA)	45	LAM Tr EVERY 2-4 MM (FUZZY)						40% CORE REC				
	240.0		SOS SLIGHTLY CALC NEAR BASE	THIN (2-6 MM) LSN BEDS NR BASE EVERY 1-2 CM	72/E(LCA) 08/0 32/SW(LCA)	38	LAM Tr "				BED Tr 1-2 MM						
	252.0		SOS SLIGHTLY CALC	BEST PTG ON CLY	34/W(LCA) 63/W(FLAT) 51/W (")	30	LAM Tr IN DSCONT										
	260.0		SOS SLIGHTLY CALC SECTION 5	"	25/W 41/E(LCA) 05/W		LAM Tr EVERY 2-3 MM				BED 05 SCATTER'D <4CM						
	270.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-22

Page 2

COORD ____ DIP ____ AZIM ____ ELEV. ____ SIZE ____ STARTED ____ COMPLETED ____ LOGGED ____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS & COMMENTS	CORE ANGLE CA Bedding W E	CORE ANGLE CA Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER % Description	ANALYSES % Zn	ANALYSES ppm Cu	ANALYSES oz. Ag	ANALYSES % Ba	ANALYSES ppm
			LOW-MOD SIL., V. CARB, VFG BLK SHALE, SLIGHTLY CALC BEDS	THIN RAD CHRT NR BASE	05/W 05/W	10	LAM TR EVERY 1-2MM				BED TR SCATTERED <0.5CM						
	277.2		FLT GOUGE			SDN 33											
	280.0		U.SIL & CHERTY BLK ARGL.	THIN RAD CHRT INTERBEDS <2CM	45/E(?CA)	55						20% CORE REC					
	290.0		SOS	SOS	45/NW	20 55						40% CORE REC					
	300.0		SOS	SOS	05/W	10N 97						4% CORE REC					
	310.0		NOW MOD-U. SIL. BLK SHALE	SOS	25/NW 43/E(?CA)	55 32	LAM TR EVERY 2-3MM (FUZZY)					60% CORE REC.					
	320.0		NOW U.SIL & CHERTY ARGL	THICK, "FUZZY" PYRITE LAM TO 5MM	90/CA 90/CA		LAM TR 11					80% CORE REC					
	332.0		CORE PRESENT IS HEALED BRX'Y									<10% CORE REC.					
	342.5		HLT'G CHERTY ARGL & MOD SIL BLK SHALE NON-CALC	SCATTERED RAD CHRT BEDS	47/SE(CCA) 33/VERT	35						60% CORE REC.					
	350.0		SOS	SOS	55/E(CCA)							40% CORE REC.					
	360.0		SOS	SOS								<10% CORE REC.					
	370.0		SOS HEALED BRX'Y @ BASE	SOS								10% CORE REC.					
	375.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-22

COORD. _____ DIP _____ AZIM. _____ ELEV. _____ SIZE _____ STARTED _____ COMPLETED _____ LOGGED _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS DIR COMMENTS	CORE ANGLE CA Bedding W E	CORE ANGLE CA Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER % Description	%	ANALYSES % ppm Zn	% ppm Cu	oz. Ag	% ppm Ba
			DOMINANTLY 6-12 CM CHERTY ARGILL SCATTERED MOD SIL BLK SHALE	THIN (<1 CM) RAD CHRT INTERBEDS	35/VERT 60/E (CA)	60 35 40						80% CORE REC					
	380.0		SOS	SOS	90/CA 78/E (<CA) 90/CA	47 35 30	LAM Tr THICK SCATTERED					90% CORE REC					
	390.0		SOS HEALED BRXY & BRCC	SOS	90/CA	30 50 35						60% CORE REC					
	396.0		BANDED "BLK SHALE (LT/DK GREY) MOD-V. SIL NON-CALC	THIN (<1CM) RAD CHRT INTERBEDS SCATTERED	30/W 31/W	40						70% CORE PT					
	402.0		SOS	SOS	80/E (<CA) 60/E (") 46/E (FLAT)	45 35	BED Tr THIN SCATTERED COARSE					90% CORE RE					
	410.0		SOS	SOS	44/E (") 45/E (>CA)	44 26 35											
	418.7		MOD-V. SIL. BLK SHALE, SLIGHTLY GRITTY NON CALC	THIN (<0.5CM) RAD CHRT BEDS, SCATTERED	80/E (<CA) 41/E (<CA) 76/E (<CA)	34		DISS Tr IN RAD CHRT									
	430.0		SOS	SOS	70/E (>CA) 81/SE (<CA) 61/E (") 70/E (")	34		DISS Tr "			NOD Tr ACM @ BASE						
	440.0		SOS NOW V. SIL.	SOS LISN BED 440.2'-443.5'	47/E (FLAT) 45/E (") 30/W (LOW)	35 25		DISS Tr "									
	450.0		SOS	SOS	40/W (LOW)	30		DISS Tr "				50% CORE REC (TUBE NOT LOCKED)					
	459.0		END														
END																	

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-23

COORD. L30S, 1+00W DIP -55° AZIM. 055° ELEV. _____ SIZE BQ STARTED July 6/79 COMPLETED July 10/79 LOGGED BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS DIZ COMMENTS	CORE ANGLE CA Bedding W	CORE ANGLE CA Bedding E	CORE ANGLE CA Structure W	CORE ANGLE CA Structure E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	CO_3 Type % / Size	OTHER % Description	ANALYSES % P	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES oz. Ag	ANALYSES % ppm Ba
	0.0		CASING OUT																
	30.0		MOD-W. SIL. BLK SHALE, CHERTY INTERVALS NON-CALC		05/W 00/W		55		LAM Tr THIN, DISCONT					~70% CORE REC'D					
	40.0		SOS		30/W (LOW)		44		LAM Tr "					~25% CORE REC.					
	50.0		SOS		CONTORT'D		NOT BADLY SHEARED												
MIN'D	58.0			MASSIVE CO_3 @ TOP (TO 58.7) & BASAL 0.9'	17/W 30/W		40		BED 50 THIN, MASSIVE SECTIONS				NOD 50 <1CM						
MIN'D	65.7			LOW-MOD SIL 25 BLK SHALE, LOW SIL BLK SHALE 10CM @ BASE	35/W 45/W				BED 40 "				NOD 35 <2CM						
MIN'D	72.0			" 15 DEC DIS 5CM LOW SIL BLK SHALE @ TOP	50/W 40/W				BED 45 "				NOD 40 "						
MIN'D	77.0				40/W 42/W				BED 45 "				NOD 55 <5CM						
MIN'D	82.0			NON-SIL, VCARB 15 BLK SHALE 8CM BED @ TOP, SCATTERED <2CM BEDS	44/W 45/W				BED 45				NOD 40 <1CM						
MIN'D	87.0			SOS, 10CM @ 87.6, 7CM @ 90.8 (CALC). 20	40/W 23/W 10/W		47		BED 35 "				NOD 45 <2CM						
MIN'D	92.0			<1CM BEDS 10 NON-SIL, V.CARB SCATTERED	10/W 20/W		45		BED 40 "				NOD 50 <2CM						
	97.0																		

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-23

COORD. _____ DIP ____ AZIM ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS DIR COMMENTS	CORE ANGLE CA Bedding W E	CORE ANGLE CA Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bieb. % Size	CO_3 Type % Size	OTHER % Description
MIN'D				NON-SIL SHALE INTERBEDS < 2CM SCATTERED 15CM @ 101.5 10 CM @ 102.5	20	06/W (<CA) 20/W (>CA) 20/W (>CA)	BED 40 THIN, MASSIVE SECTIONS				NOD 40 <2CM	
	103.2											
MIN'D			GOOD SILICIFICATION IN CO_3.	MINOR INTERMUDULE NON SIL. BLK SHALE	05 N/A		BED 05 NR CENTRE				NOD 90 MASSIVE	
	105.9											
MIN'D				THIN BEDS NON-SIL, N. CARB BLK SHALE, SCATTERED	05 26/W (<CA) 29/W (11)		BED 45 THIN MASSIVE SECTIONS				NOD 50 <1.5CM SIZE DEC DIS	
	109.5		MOD-V.SIL., SLIGHTLY GRITTY BLK SHAL NON-CALC		10/W (11) 24/W (11)	150	LAM Tr THIN SCATTERED					40% CORE REC
	114.5		SOS, NOW V.SIL & CHERTY INTERVALS, SLIGHTLY CALC. SECTIONS		N/A 38/W (11)	147	LAM Tr 11					50% CORE REC
	120.0		SOS. THIN CALC. SECTIONS.		N/A 25/W 25/W		LAM Tr EVERY 3-4 MM					50% CORE REC
	130.0		MOD-V.SIL. BLK SHALE NON-CALC	LISN BED (12CM) @ 133.0' 10 CM @ 139.5'	N/A 20/W 18/W		LAM Tr 11				BED Tr	60% CORE REC
	140.0		SOS		N/A 17/W 30/W	145	LAM Tr 11					70% CORE REC
	150.0		SOS NON-SIL. INTERBDS CHERTY INTERVALS		NA 20/W 85/E (CA)		LAM Tr 11					80% CORE REC
	160.0		SOS DOMINANTLY V.SIL. TO CHERTY	FRAG. GE BEDDED IN FLT ZONE FLT GOUGE @ BASE	70/E (11) 50/VERT N/A	35 45 50	LAM Tr 11					40% CORE REC
	173.0		V.SIL. BLK SHALE, CHERTY INTERBEDS		N/A 35/W 05/W (LOW)	55 60	LAM Tr THICKER EVERY 1CM					40% CORE REC
	180.0		SOS		10/W (HIGH) 00/W	43 35 35					* **	40% CORE REC
	193.0											

ANALYSES

% Zn	ppm Zn	% Cu	ppm Cu	oz. Ag	ppm Ba

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-23

COORD. _____ DIP ____ AZIM. ____ ELEV. _____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED _____

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS QTZ COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % ppm Zn	% ppm Cu	oz. Ag	% ppm Ba
			U. SILICEOUS TO CHERTY BLK SHALE	BEST PTG ON BDG	N/A 40/W		LAM Tr THIN EVERY 3-5 MM					30% CORE REC. 193-197 10%				
	210.0		SOS	"	60/E (STEEP) 10/W 20/SW 45/W	↖48	LAM Tr EVERY 1-3 MM					90% CORE REC.				
	216.0		SOS	"	37/W 25/W 20/W		LAM Tr " SCATTERED					60% CORE REC 217-218 NP				
	220.0		MOD-U. SIL BLK SHALE	BEST PTG ON BDG	23/W 40/W 30/W		LAM Tr EVERY 2-3 MM					70% CORE REC				
	230.0		SOS	"	N/A 30/W 20/W		LAM Tr "					50% CORE REC				
	242.0		QZ-CO_3 VEIN									30% CORE REC				
	253.0		MOD-U. SIL. BLK SHALE		N/A N/A 00/W		LAM Tr EVERY 2-3 MM					40% CORE REC				
	260.0		U. SIL. TO CHERTY BLK SHALE	QZ VEINS	N/A	↘44	LAM Tr SCATTERED					20% CORE REC				
	265.5		FAULT GOUGE									10% CORE REC				
	271.0		MOD SIL BLK SHALE, CHERTY ARGL INTERBED	QZ VEINS* SILICIFICATION ALONG FLT?	N/A	↘58 ↘55 48						80% CORE REC, BAT BROKEN				
	280.0		LOW-MOD SIL BLK SHALE MED-THICK BDD.	CHERTY BEDS, DEC D/S	N/A 35/W 30/W	↘44		CLOS Tr ∠ 0.5 CM Round			BED Tr 6CM @ 280.2	95% CORE REC.				
	291.0		SOS NOW LOW-MOD SIL		22/W 20/W 05/W (LOW)					BED Tr ∠1CM SCATTERED	BED Tr ∠2 CM SCATTERED					
	300.0															

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-23

COORD _____ DIP ____ AZIM ____ ELEV ____ SIZE ____ STARTED ____ COMPLETED ____ LOGGED ____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS & COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % / Diss. % Thickness / Size	BARITE Bed. % / Bleb. % Thickness / Size	$CO_3^=$ Type % Size	OTHER % Description	ANALYSES % ppm Zn	% ppm Cu	oz. Ag	% ppm Ba
			MED-THICK BDD, LOW-MOD SIL. BLK SHALE, J. CARB.		25/W 18/SW 12/SW	30		BEAN TR < 1CM SCATTERED						
	310.0		SOS		23/W 00/W 16/W			BAND TR "						
	330.0		SOS		12/W (LOW) 45/E (STEEP) 35/E (< CA)	41		BAND TR "						
	350.0		$QZ-CO_3$ VEIN											
	361.8		SOS	MINOR "TUFF" BEDS < 2CM	35/VERT 18/SW (LOW) 26/W (LOW)	35 35		BAND TR { LRGE (6CM) SEPT NOD							
	390.0		SOS - MINOR CHERTY INTERVALS < 4CM	V. MINOR THIN (< 3CM) CALC. INTERVALS MINOR "TUFF"	17/W (LOW) 24/W (")	30	BED TR THIN COARSE	BAND TR < 0.5CM						
	350.0		SOS	" "TUFF" INC D/S	9/W (") 31/W (")	38		BAND TR "						
	360.0		SOS HEALED BRX TECTONIC?	V. MINOR THIN CALC INTERVALS	00/W 37/VERT 95/VERT			BAND TR { SEPT NOD						
	370.0		SOS HEALED BRX TECTONIC?	" MINOR "TUFF"	41/VERT 20/W (LOW) 67/E (CA) 25/W (LOW)	45		BAND TR "						
	380.0		SOS LOW-MOD SIL. THICK-MED BDD CARB SHALE	V. MINOR CALC INTERVALS "TUFF" TO 4CM INC D/S	36/W (LOW) 18/W (LOW) 46/FLAT 18/W (LOW)		BED TR THICK (< 8MM)	BAND TR "						
	390.0		SOS	" "TUFF" COMMON < 4CM	08/W (") 38/W (") 15/W (") 10/W (")	43		BAND TR "						
	403.0		FLT GOUGE 403-404.5 LOW-MOD SIL THICK-THIN BDD	SLIGHTLY CALC INTERVALS NO TUFF	25/W	45 28 45				50% CORE REC				
	410.0													

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 91-23

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED ____ COMPLETED ____ LOGGED

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS DIR. COMMENTS	CORE ANGLE CH Bedding W E	CORE ANGLE CH Structure W E	PYRITE Lam. % Diss. % Thickness Size	BARITE Bed. % Bleb. % Thickness Size	CO_3 Type % Size	OTHER % Description	ANALYSES % ppm Zn	% ppm Cu	oz. Ag	% ppm Ba
			LOW-MOD SIL, VERY CARB BLK SHALE THIN-THICK BDD	THIN, SLIGHTLY CALC INTERVALS V.THIN (<1.5cm) "TUFF" BEDS	23/W 49/E (70A) 16/W (LOW)	35								
	420.0		SOS	SOS	13/W 43/W (NOR) 50/E (70A)									
	436.0		SOS	SOS CALC CNT INC	52/E (") 60/E (") 42/VERT	36								
BARITE	446.1		SOS	SLIGHTLY CALC NO "TUFF" SEPT CO_3 NOD @ 449.0'	30/W (LOW) 75/E (70A)			BED 05 5 CO_3 →	BED 05 35 CM @ 447.5					
	450.0		SOS DOMINANTLY SLIGHTLY CALC	V.THIN "TUFF" BEDS SCATTERED	54/E (") 47/E (")	32			NOD Tr SEPT 26CM					
	462.0		SOS TOPS UP	MINOR CALC. "TUFF" MASSIVE, GRADED 463-464.5	45/VERT 50/E (CA)									
	470.0		SOS	CALC CNT INC "TUFF" THIN, SCATTERED	51/E (") 37/VERT 53/E (70A)									
	480.0		LOW-MOD SIL THIN TO THICK BDD SHALES, MIN-CALC	MINOR, THIN (<1CM) GRADED "TUFF" BEDS.	53/E (70A) 53/E (") 73/E (CCA) 70E (70A)	28								
	490.0		SOS CLY DISPL. W SIDE DOWN	SOS "TOPS" UP	60/NE (70A) 55/E (") 57/E (")	23								
	500.0		SOS	"	43/E (") 90/CA	23	BED Tr <1CM "FUZZY"							
	510.0		SOS	"	63/E (70A) 63/E (")	28								
	520.0		SOS	"	05/W 34/VERT 90/CA 65/E (70A)									
	530.0													

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-23

COORD _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER % Description	ANALYSES % ppm Zn	% ppm Cu	oz. Ag	% ppm Ba
			LOW-MOD. SIL, THIN TO THIN BDD. V. CARB BLK SHALE	V. MINOR THIN (< 0.5 cm) "TUFF" BEDS NON-CALC.	90/CA 68/E (>CA	25										
	540.0		SOS	SOS SCATTERED "TUFF"	60/E (>CA)	32										
	550.0		SOS	"	75/NE (CA)	27										
	560.0		SOS	" CALC. 568-568.5	49/E (>CA) 60/E (")	28										
	570.0		SOS	V. MINOR "TUFF" (< 0.5 cm)	37/VERT											
	580.0		SOS	"	32/VERT	28										
	590.0		SOS	"	30/W (LOW) 90/CA											
	600.0		SOS	" THIN TUFF BEDS INC.	36/VERT 28/VERT 26/VERT	25										
	610.0		SOS	"	35/E (>CA) 26/VERT 30/VERT											
END	620.0		END													

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-24

COORD 32+00S, 3+00W DIP -50° AZIM 055° ELEV. ____ SIZE BQ STARTED July 11/79 COMPLETED July 13/79 LOGGED ____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS QTZ COMMENTS	%	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER % Description	%	ANALYSES % ppm Zn	% ppm Cu	oz. Ag	% ppm Ba
	0.0		CASING OVB															
	20.0		RUBBLE OVB															
	25.0		MOD-U.SIL BLK SHALE CHERTY INTERVALS	MOD-SHEARED & BRECCIATED HEALED BY QZ-CO$_3$		N/A	N/A											
	29.0		LOW-MOD SIL U.CARB BLK SHAL STRONG SOFT SED DEFN IN PARTS	MINOR CHERTY INTERVALS MINOR, SCATTERED "TUFF" BEDS		25/W 55/NE(?CA) 48/VERT	"TOPS" DOWN 53											
	40.0		SOS THIN TO THICK BDD	SLIGHTLY CALC SECTIONS NO TUFF"		57/E(?CA) 90/N(S) 85(?CA)E												
	50.0		SOS "	"		90/CA 90/LA	48											
	60.0		SOS "	" QZ VEIN @ BASE MINOR SHEARING		85/<CA	~50											
	67.5		MOD SIL, U. CARB BLK SHALE SLIGHTLY CALC SECTIONS	THIN (<1CM) RAD CHRT BEDS PY-HYDROC. BEDS		49/VERT CA/SOOM 90/CA	SHEARED ALONG BDG TR											
	85.0		SOS THIN PY-HYDROC ALONG BDG	THICK (<10CM) LISN @ 85.0		90/CA 65/E(?CA) 70/E(N)						BED TR						
			SOS "	SOS RAD CHRT BEDS SCATTERED <20CM		35/W												
	100.0		SOS " NOW DOMINANTLY CALC	" AS ABOVE		39/W 40/W 36/W		LAM TR THIN, SCATTERED										
	112.0																	

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-24

COORD _____ DIP ____ AZIM ____ ELEV ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED _____

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	CO_3^- Type % / Size	OTHER % Description	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES oz. Ag	ANALYSES % ppm Ba
			SLIGHTLY CALC, LOW-MOD SIL BLK SHALE	MINOR PY-HYDROC-CO_3 MASSES.	55/VERT 35/W	38	LAM Tr IN SCATT SECTIONS			NOD Tr W CO_3 SCATTERED						
120.0			SOS NOW MOD CALC	" SCATTERED <30CM RAD CHRT BEDS	47/VERT 50/VERT	43	LAM Tr "									
130.0			MOD-V. SIL, SLIGHTLY GRITTY BLK SHALE	THICK (76 CM) LISN @ ~137'							BED Tr 76CM	~40% CORE P.				
140.0			MOD-V. SIL BLK SHALE CO_3 BED @ ~144	SCATTERED CHERTY ARGL BEDS	75/E(CA) 90/CA						BED Tr 76CM	~60% CORE REC				
150.0			SOS NON-CALC	"	76/E(CA) 85/E(CA) 80/E(CA)	47	LAM Tr "FUZZY" COARSE SCATTER									
160.0			SOS	SCATTERED RAD CHRT BEDS & CHERTY ARGL	90/CA 90/CA/SE 90/CA "											
170.0			SOS	"	90/CA 80/E(CA)											
180.0			SOS	"	90/CA 90/CA	42										
190.0			SOS	" LISN BED @ 193	60/E(CA) 85/E(CA) 76/E(")						BED Tr ~4CM	~60% CORE REC				
200.0			SOS	" LISN BED @ 209	46/FLAT	44					BED Tr 8 CM					
210.0			LOW-MOD SIL SHALE, V CARB SLIGHTLY GRITTY	NO RAD CHRT	75/E(CA) 75/E(")	43										
220.0			SOS	CHERTY ARGL INTERVALS	90/CA 60/NE(CA)	38						~75% CORE REC				
230.0																

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-24

COORD _____ DIP ____ AZIM ____ ELEV ____ SIZE ____ STARTED _____ COMPLETED _____ LOGGED _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS OR COMMENTS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES oz. Ag	ANALYSES % ppm Ba
			LOW-MOD SIL, VFG BLK SHALE	CHERTY ARGL INTERBEDS	70/E (7CA)	155						~70% CORE REC				
	240.0		SOS	"	90/CA 50/E (7CA)	155	LAM TF IN ARGL					~60% CORE REC				
	250.0		SOS	"	90/CA	SHEARING ALONG BDG PL						~50% CORE REC				
	260.0		CHERTY BLK ARGL	MOD SIL. BLK SHALE INTERBEDS, SLIGHTLY GRITTY	78/E (6CA) 55F (6CA) 40/E (11)		LAM TF "FUZZY"					~40% CORE REC				
	270.0		SOS	"	76/E (6CA)		LAM TF "					~30% CORE REC				
	280.0		SOS PY-HYDROCLASTS MASSES?	"	75/E (7CA)							~80% CORE REC				
	290.0		SOS AS ABOVE	"	75/E (7CA) 85/E (6CA)							~90% CORE REC				
END	300.0		END													

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-25

COORD. 165, 14+40E DIP -50 AZIM. 055° ELEV. ____ SIZE BQ STARTED July 14/79 COMPLETED July 16/79 LOGGED BY P.C.

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS	%	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. Thickness	PYRITE %	PYRITE Diss. Size	BARITE Bed. Thickness	BARITE %	BARITE Bleb. Size	CO_3^- Type	CO_3^- %	CO_3^- Size	OTHER Description	ANALYSES ppm	% Zn	ppm	% Cu	ppm Ag	% Ba
	0.0																						
			CASING & V.B & BADLY BROKEN BDRK																				
	20.0		LEACHED TO 22'	MOD-V.SIL., VFG BLK SHALE; NON-CALC.	75	57/E(?CA) 25/W		BED 10 0.4-0.8 CM					BLEB TR NR BASE	NOD 15 <8 CM									
BC	25.0			SOS CHERTY INTERVALS	55	90/CA 28/W 09/W	153	BED 10 ESP @ BASE					BLEB 15 INC D/S	NOD 20 INC D/S									
	30.0			SOS MINOR "TUFF"	50	15/W 33/W 43/W	151	BED 05					BLEB 15	NOD 30									
BB	38.7		MASSIVE THIN TO MED BDD CALC "TUFF"			60/E(?CA)																	
	41.3			MOD-V.SIL BLK SHALE, MINOR THIN "TUFF"	55	38/W 45/W		BED 10					BLEB 15	NOD 20									
	45.0			MOD-V.SIL SLIGHTLY GRITTY BLK SHALE	75	38/W 55/E(?CA)	149	BED 05 DEC D/S					BLEB 10 DEC D/S	NOD 10 & BED DEC D/S									
	50.0			SOS MINOR "TUFF" < 0.5 CM	80	47/VERT 54/E(?CA)		BED 05					BLEB 5	NOD 10									
	55.0			SOS AS ABOVE	75	43/W 40/W		BED 05 < 0.5 CM					BLEB 10	NOD 10 <4 CM									
	60.0			SOS NO "TUFF"	60	41/W 30/W		BED 10 "					BLEB 10	NOD 50 "									
	65.0			SOS THIN (< 1 CM) TUFF" BEDS.	60	25/W 05/W *	148	BED 10 "					BLEB 10	NOD 20 "									
	70.0																						

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-25

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COORD. _____ DIP _____ AZIM. _____ ELEV. _____ SIZE _____ STARTED _____ COMPLETED _____ LOG BY _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS	%	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. Thickness	PYRITE %	PYRITE Diss. Size	%	BARITE Bed. Thickness	%	BARITE Bleb. Size	%	CO_3 Type Size	%	OTHER Descript	ANALYSES Pb ppm	%	Zn ppm	%	Cu ppm	%	Ag oz.	ppm	Ba %	ppm
				MOD.-V.SIL., SLIGHTLY GRITTY NON-CALC BLK SHALE, MINOR "TUFF"	60	47/FLAT 32/E (LOW)	47	BED	15					BLEB	05	NOD	20											
								2 1 CM								< 4 CM											
BB	75.0			SOS "TUFF" TO 3 CM	55	26/W (LOW) 45/W (VERT)		BED	15					BLEB	10	NOD	20										
								"																			
	80.0			SOS "TUFF" < 0.5 CM SCATTERED	65	47/W (VERT) 46/W (LO)		BED	10			BED	Tr	BLEB	10	NOD	15										
								DEC DIS				8 CM @ TOP		DEC DIS		DEC DIS										
	85.0			SOS AS ABOVE	60	40/W 30/W		BED	15					BLEB INC DIS	15	NOD INC DIS	20										
	90.0			SOS	45	30/W 21/W		BED	15					BLEB MASSIVE SECTIONS 2-3 CM	20	NOD	20										
	95.0			SOS	45	35/W 32/W		BED	10					BLEB MASSIVE SECTIONS NR BASE	20	NOD	25										
	100.0			SOS	35	24/W 37/W		BED	15					BLEB MASSIVE SECTIONS 3-4 CM	30	NOD	20										
	105.0			MOD. SIL, SLIGHTLY GRITTY BLK SHALE ! VFG CHERTY ARGL INC D/S	55	25/W 25/W	46	BED	10					BLEB DEC D/S	15	NOD DEC D/S	20										
BA	110.0			SOS "TUFF" BEDS < 2 CM INC D/S	55	25/W 53/E (XB)		BED	05					BLEB MASSIVE SECTIONS	25	NOD	15										
	115.0			SOS "TUFF" < 2 CM COMMON	65	50/E (") 45/VERT	42	BED	05					BLEB DEC D/S	15	NOD	15										
	121.0		LOW - MOD. SIL, V. FISSILE BLK SHALE V. FISSILE	CHERTY BLK ARGL INTERBEDS "TUFF" BEDS < 2 CM SCATTERED		45/VERT		BED 1-3 AM SCATTERED	Tr					BLEB SCATTERED THN	Tr	NOD < 3 CM	Tr										
AC	125.0		SOS	SOS		* 50/VERT	45	BED	Tr					BLEB	Tr												
	130.0							"						"													

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-25

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COORD. _____ DIP ____ AZIM. ____ ELEV. _____ SIZE ____ STARTED _____ COMPLETED _____ LOG

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS %	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER Description
			LOW-MOD SIL THIN BDD BLK SHALE,	CHERTY INTERVALS (ESP @ BH)	48/VERT 51/E (>CA) 40/VERT	40	BED Tr THIN SCATTERED			BLEB Tr THIN SCATTERED	NOD Tr <1CM SCATTERED	
	140.0		SOS MINOR "TUFF" <1CM	MINOR CHERTY INTERVALS	80/E (>CA) 30/W					BLEB Tr THIN DEC/DK	NOD Tr <3CM	
Ac	150.0		V. FISSILE SOS NO "TUFF"	NO CHERTY INTERVALS	30/W 50/E (>CA)						NOD Tr <6CM	
	160.0		MOD-V. SIL. SLIGHTLY TO MOD CALC POLKSHALE		90/CA 25/W						BED Tr 10 CM @ 163.0	~40% CORE AT Tr
Am	171.0		SOS NON-CALC		20/E (>CA)	44					NOD Tr <6 CM	~40° CORE
	180.0		SOS SLIGHTLY CALC INTERVALS		10/W	45 35					BED Tr 6CM @ 185.5	~40% CORE
(FAULT)	189.5			BADLY BROKEN CORE, SHEARED, MINOR FLTGOUGE, RECD. BEN 189.5-		50 52						~35% CORE
Ac	193.0		MOD-V. SIL. BLK SHALE, CHERTY INTERVALS		17/W (low) 45/VERT 25/W	40					NOD DS <5CM	~25% CORE
	211.0		END									

ANALYSES

ppm	%	ppm	%	ppm	ppm	%	pp
	Zn		Cu		g	Ba	

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-26

COORD. L32+50S, 13+40E DIP -50° AZIM. 055° ELEV. _____ SIZE BQ STARTED July 17/79 COMPLETED July 19/79 LOGGED BY R. Carr

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS	%	CORE ANGLE Bedding W	CORE ANGLE Bedding E	CORE ANGLE Structure W	CORE ANGLE Structure E	PYRITE Lam. Thickness	PYRITE %	PYRITE Diss. Size	PYRITE %	BARITE Bed. Thickness	BARITE %	BARITE Bleb. Size	BARITE %	CO_3 Type Size	CO_3 %	OTHER %	OTHER Description	ANALYSES ppm Pb	%	ppm Zn	%	ppm Cu	ppm Ag	%	ppm Ba
	0.0		CASING OB & BADLY BROKEN BEDROCK																										
	42.0			MOD-V.SIL SLIGHTLY GRITTY BLK SHALE	55	46/c(60CA)				BED	10					BLEB	05	NOD	30		LEACH								
										SCATT'D THICK						SCATTERED THIN		<4CM			40% CO								
	50.0			LOW-V.SIL SLIGHTLY GRITTY BLK SHALE CHERTY INTERBEDS	85	37/w (LOW) 05/w (LOW) 55/w (VERY)		45		BED TR						BLEB TR		NOD	10		70% CO								
										SCATTERED <3MM						THIN		<3CM			REC.								
	60.0			SOS THIN (<1CM) "TUFF" BEDS.	80	25/w 20/w 31/w				BED	05							NOD	15										
13 13										11								11 INC D/S											
	73.0			SOS AS ABOVE	70	45/w 35/w 20/w				BED	15					BLEB	05	NOD	10										
										INC D/S						INC D/S		<4MM											
	80.0			SOS "	50	57/E(>CA) 90/w (VERY) 41/w (")				BED	15					BLEB	05	NOD	30		PARTIALLY LEACH								
																@ TOP		<3CM											
	90.0		GOOD SL IN CO,	MOD-V.SIL, SLIGHTLY GRITTY BLK SHALE CHERTY INTERVALS NO "TUFF"	40	36/w 75/E(>CA) R/w				BED	20							NOD	40										
										<4MM								MASSIVE SECTIONS											
	100.0			SOS	50	30/w 56/E(<CA) 37/FLAT 42/E(<CA)		45		BED	10					BLEB	10	NOD	30										
										<3MM						ESP NR TOP													
	110.0			SOS	50	32/w 40/E/FLAT 28/w (LOW) 25/w		45		BED	15					BLEB	05	NOD	30										
																THIN SCATTERED TO		<3CM											
	120.0			SOS NOW V.THIN (<2MM) "TUFF" BEDS - CHLC (ASSTY	15	20/w 37/w 35/w 39/w				BED	35							NOD	50										
	130.4		35 CM, MOD.SIL, VFG, V. CARB BLK SHALE 130.4 - 131.7	THIN (<0.5CM) WAVY SLICKEN BLK SHALE, SOME CHERTY	05	31/w 30/w				BED	50							NOD	55										
LH	MIND									<2MM MASSIVE																			
	135.0																												

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-26

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOG _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE CA Bedding W E	CORE ANGLE CA Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER Description	ANALYSES ppm Zn	% ppm Cu	ppm Ag	% ppm Ba
MIN'D				THIN (<0.5CM) 10 LOW-MOD SIL. BLK SHALE BEDS	37/W 37/W		BED 30 <2 MM MASSIVE				NOD 60 <4 CM	RELICT BDG (?) NOD				
MIN'D	140.0		Q2 VEIN HAS OPEN CORE OF BARITE XTALS IN CO_3	SOS 10 SOME <4CM NON-SIL U.CARB BLK SHALE	43/W 37/W		BED 35				NOD 55 "					
MIN'D	150.0		SHEARED BUT NOT BROKEN, HEALED BY WHITE REXT'D CO_3	SOS 05 <1CM MIN'R'L TUFF"	50/E(70A) 40/W 05/W(LOW)	145	BED 35 <0.5CM				NOD 60 SHEARED					
MIN'D	160.0			SOS 15 AS ABOVE U.CARB SHALE <2CM	27/W 50/E (70A) 33/W		BED 40 <0.5CM				NOD 45 "					
MIN'D	170.0			SOS 20 " NO "TUFF"	25/W 45/E (FLAT) 43/E (") 30/W (LOW)	142	BED 30 <0.5CM INC @ BASE				NOD 50 SMALL @ BASE					
MIN'D	180.0			MOD-V.SIL. BLK SHALE <6CM. THICKNESS FREQ INC D/S 40	4/E (<CA) 45/NW (VERT) 35/W		BED 25 <1CM				NOD 35 <3CM IN SHALE TYP					
MIN'D	186.7			SOS DEC D/S 35	35/E (<CA) 90/CA 50/NE (70A)	139	BED 20 "				NOD 45 <4CM					
MIN'D	195.0			SOS 20 <3CM	50/E (") 40/NW 40/NW	143	BED 20				NOD 50					
MIN'D	200.0			SOS 10 INC D/S <1CM	65/NE (<CA) 90/CA 90/CA	135	BED 30				NOD 60 MASSIVE @ TOP					
MIN'D	205.0			SOS 20 INC D/S <1CM	46/NW (VERT) 34/W		BED 30 <2CM				NOD 50 DEC D/S					
MIN'D	210.0			MOD SIL., VERY CARB BLK SHALE, <4CM DEC D/S 25	34/W 30/W		BED 30				NOD 45					
MIN'D	215.0			SOS DEC D/S 20	35/W 24/W		BED 25				NOD 55					
	320.0															

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-26

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOG

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER Description	ANALYSES ppm Zn	ANALYSES % ppm Cu	ANALYSES ppm Ag	ANALYSES % ppm Ba
LH MIN'D				CHERTY BLK ARGL < 1.5CM SCATTERED 05	35/W		BED 40 <1CM				NOD 55 <3CM					
MIN'D	195.0		ABRUPT FTWL CNT	NOD-V.SIL? CHERTY BLK SHALE <0.3 CM INCDS 10	25/0 (LOW) 23/W	40	BED 40 DEC D/S				NOD 50					
BA	230.9		MOD-V.SIL. BLK SHALE TO CHERTY INTERBEDS		25/W 15/W	40	BED 05 MED,			BLEB Tr SCATTERED	NOD 05 <2 CM					
	235.0		SOS		73/E (XA) 25/W		BED Tr THIN COARSE			BLEB Tr 11	NOD 05 <4CM					
	240.0		SOS	"TUFF" BED ~3CM THICK	42/W (LOW) 47/W (LOW) 36/W	41				BLEB Tr "	NOD 05 <2CM					
BH MIN'D	245.3		ABRUPT HANGINGWALL CNT	U. THIN SHALE BEDS, <2 MM 05	40/W 17/W 15/W		BED 35				NOD 60 <3CM	REC BDG NOD				
MIN'D	250.0		8cm MASS SL TO GI @ base	" 05	05/W 27/W 25/W		BED 35 THIN INC D/S				NOD 60 <2CM INC D/S					
	255.0		15CM MASS PY-CO_3-SL @ BASE, GLIN CO_3	MOD SIL. TO CHERTY, SLIGHTLY GRITTY BLK SHALE INC D/S 35	15/W 25/W 05/W		BED 15 DEC D/S			BLEB 05 SCATTERED	NOD 45 DEC D/S	ABRUPT BASE C/				
BA	261.1		MOD-V.SIL, SLIGHTLY GRITTY BLK SHALE NON-CALC.	CHERTY INTERBEDS	15/W 37/W	20 37	LAM Tr THIN SCATTERED				NOD 05 <6CM					
	265.0		SOS V. LARGE CO_3 NODS FREE (725cm)	SOS MINOR RAD CHERT BEDS <2CM	65/E (?CA) 45/E (W) 45/E (W)	70					NOD Tr <4CM	20% REC				
BA	279.0		QZ-CO_3-BA VEIN, VUGGY NO SU.													
	290.0		LOW-MOD SIL BLK SHALE		40/W (VERT)	44		1		BLEB Tr THIN SCATTERED	NOD Tr <1CM					
END	291.5		END													

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-27

COORD. 00+50S, 6+00W DIP -60° AZIM. 055° ELEV. _____ SIZE BQ STARTED July 20/79 COMPLETED July 22/79 LOG

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS	%	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. Thickness	PYRITE %	PYRITE Diss. Size	PYRITE %	BARITE Bed. Thickness	BARITE %	BARITE Bleb. Size	BARITE %	CO_3^- Type Size	CO_3^- %	OTHER Description	ANALYSES ppm Zn	ANALYSES %	ppm Cu	ppm Ag	%	ppm Ba
	0		CASING OUT																					
	14.0		LOW-MOD. SIL, NON-CALC BLK SHALE	THIN, SCATTERED "TUFF" LAMINAE		30/FLAT 62/E(<CA) 80/E(<CA)	150																	
	30.0		SOS, NOW THIN, VFG NOD SIL. CALC INTERVALS	"		77/E(<) 84/E(>CA) 45/W	161																	
	50.0		SOS CALC CNT INC DIS	"		90/CA 66/E(<CA) N/A	157								BED Tr SINGLE HORIZON 2 CM									
C3C	70.0		LOW-MOD SIL, MOD TO V. CALC, VFG, THIN BDD BLK SHALE	NO "TUFF" NON-CALC 86'-93'		N/A N/A N/A	155																	
	90.0		SOS "	BROWN, BARITE(?), PYRITIC SHALE ACA @ 93'		N/A N/A 35/W (FLAT)	150			DISS Tr IN BARITIC(?) SHALE		DISS Tr BARITE (?) SHALE				SED Tr 99.0-100.0								
	100.0		SOS	" THIN "TUFF" 105' →		N/A 77/E(>CA)	155																	
	110.0		SOS THIN CALC INTERVALS	THIN (<0.5 CM) "TUFF" BEDS.		90/CA 88/E(<CA) 78/E(>CA)	160																	
	130.0		SOS "	"		70/E(<CA) 90/CA 71/E(>CA)																		
	150.0		SOS SLIGHTLY CALC NON-CALC SECTION	" CALC CNT INC DIS		90/CA 80/E(<CA) N/A	148																	
	170.0		SOS	NO "TUFF"		77/E(>CA) N/A 69/E(>CA)	143																	
	.0																							

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-27

COORD. _____ DIP ____ AZIM. ____ ELEV. _____ SIZE ____ STARTED _____ COMPLETED _____ LOGGI

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE CH Bedding W E	CORE ANGLE CH Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER % Description	ANALYSES % ppm Zn	ANALYSES % ppm Cu	ANALYSES ppm % ppm Ba
			LOW-MOD SR, JFG, MOD. CALC SHALE	NON-CALC SECTIONS < 4CM THIN (< 1CM) "TUFF" THICK BIO SHALE	66/E (>CA) 67/E (4) 81/E (4)										
	210.0		SOS. NOW ONLY SLIGHTLY CALC SECTIONS	THIN (<4CM) "TUFF" BARITIC SHALE (MACR) @ 222'	85/E (4) 75/E (4) 70/E (4)	41		CLOTS Tr DIDID MARKS <1CM		DISS Tr BARITIC (?) SHALE	MOD Tr SEPT ~8CM CO3				
	230.0		NOW NON-CALC SOS	THIN (<4CM) "TUFF" BEDS	71/E (4) 53/E (4)	41									
	250.0		SOS	"	60/E (4) 64/E (4)	39									
	260.0		SOS	"	66/E (4) 81/E (4) 90/CA	38									
	272.0		END	END											

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-28

COORD. [illegible], 615SW DIP -50W AZIM. 235° ELEV. _____ SIZE BQ STARTED July 23/79 COMPLETED July 23/79 LOGGED BY [illegible]

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS	%	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. Thickness	PYRITE %	PYRITE Diss. Size	PYRITE %	BARITE Bed. Thickness	BARITE %	BARITE Bleb. Size	BARITE %	CO_3 Type Size	CO_3 %	OTHER Description	%	ANALYSES ppm Pb	% ppm Zn	% ppm Cu	ppm Ag	% ppm Ba
	0.0		OVB CASING	–																				
DB	32.0		CHERTY AROUND TO THIN (<1CM) "TUFF"	LOW-MOD SIL BLK SHALE, SLIGHTLY CALC INTERVALS	85	27/NE(STEEP) 36/NE(LT)	40	BED 05 <3MM								NOD 10 <1CM		LOST CORE 30'-32'							
MIN'D	36.5		36 CM CO_3 NOD @ TOP NO "TUFF"	MOD-V. SIL BLK SHALE NON-CALC	75	27/E(FLAT) 27/NE(STEEP)	41	BED 05 11								NOD 20 <3CM									
MWD	41.5		CHERTY INTERVAL THIN (<1CM) "TUFF"	LOW-MOD SIL BLK SHALE SLIGHTLY CALC LAMINAE/BEDS	75	37/NE (LT) 45/W(LOW)		BED 05								NOD 20 <10CM		SL, GL, CC							
MWD	46.5		"	SOS	80	37/NE(STEEP) 37/NE (LT)	47	BED 05								NOD 15 <3CM		"							
MIN'D	51.5		"	SOS	75	28/NE 26/NE		BED 05								NOD 20 <2CM		"							
MIN'D	56.0		NO "TUFF"	SOS IN SCATTERED 4-6 CM BEDS	20	40/NE 38/NE		BED 40 THIN SECTIONS <2CM								NOD 40 <3CM									
MIN'D	60.5		6CM MOD-SIL, UFG SHALE BED @ BASE	SOS SCATTERED 1-3CM BEDS/DS	10	45/E 54/E		BED 40 INCL DS								NOD 50 <4CM		3CM BED @ BASE							
MIN'D	67.0		0.5CM SHALE BED @ BASE	BROKEN, FRAGMENTAL MOD SIL BLK SHALE	TR	4/E				DISS 05 INTERSTITIAL SL, GL, PY						NOD 95 <1CM		RELICT BOG IN CO_3							
FIN'D	128		2CM BLK LOW-MOD SIL. SHALE @ BASE	MOD-V. SIL BLK SHALE IN <1CM BEDS SCATTERED INCL DS	25	41/E (VERT)		BED 40 LAM IN SECTIONS <1CM								NOD 35 <0.5CM DISS									
MASSIVE SULPHIDE MWD	170.4					52/E(LT)		BED 95 MASSIVE INCL SL + GL								NOD TR <1CM EOP @ TOP									
	175.2																							

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-28

COORD. _____ DIP _____ AZIM. _____ ELEV. _____ SIZE _____ STARTED _____ COMPLETED _____ LOG BY _____

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER Description
TH, MIN'D			ABRUPT FTWL CNT	MOD V.SIL. BLK SHALE 79.0–79.7, INC DIS (INTERBEDDED W PY) 05	64/W (7 CA) 54/W (11)		BED 20 78.6-79.4 79.9-80.9	DISS 25 INTERSPT TO CO3 IN SL			REXT 50 INC DIS TO 79.0	BEST GL IN 79.9-80.
	80.9		LOW-MOD SIL, VFG THICK BDD BLK SHALE, THIN SLIGHTLY CALC INTERVALS	SED(?) BRKY ~4CM THICK @ TOP; MINOR "TUFF" (<1CM)	46/W (11) 50/W (11)							
	90.0		SOS	V. MINOR, THIN & SCATTERED "TUFF"	45/W (11) 60/W (11) 75/W (11)	55						
	100.0		SOS	4	05/E (HIGH) 40/E (VERY) 25/E	61/40						
	110.0		SOS	11	05/E (HIGH) 16/E 29/E	37						
BC	120.0		SOS	BARITIC SHALE (BRN-GREY) W DISSEM PY @ 123 ~15 CM THICK	28/NE 03/E (HIGH) 10/E (11)	49						
BARITIC?	130.0		SOS	V. MINOR "TUFF", <0.5 CM. THIN & SCATTERED	17/E 14/E 17/E	39						
	140.0		SOS	2-3 CM "TUFF" @ BASE	26/E 33/E	45						
CB	147.0		MOD V.SIL, VFG, SLIGHTLY CALC BLK SHALE, 2-3CM NON CALC INTERVALS	SCATTERD "TUFF" <1CM	55/W (7CA) 30/E 20/E	37						
	155.0		END	END								

ANALYSES: ppm | % ppm | % ppm | ppm | % | Pb | Zn | Cu | Ag | Ba

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-29

COORD. L14A N, 25+50W DIP -70° AZIM. 055° ELEV. _____ SIZE BQ STARTED July 24/79 COMPLETED July 26/79 LOG R. CARNE

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS (DIP, STRUCTURES)	%	CORE ANGLE CA Bedding W	CORE ANGLE CA Bedding E	CORE ANGLE CA Structure W	CORE ANGLE CA Structure E	PYRITE Lam. % / Thickness	PYRITE Diss. % / Size	BARITE Bed. % / Thickness	BARITE Bleb. % / Size	CO_3 Type % / Size	OTHER Description
	0.0		CASING OUB												
	24.0		NON-SIL, THICK BDD, U.CARB, UFG BLK SHALE	SLIGHTLY CALC SECTIONS NOT SHEARED		74/E (CA) 70/E (n)		170		LAM Tr EVERY 2-3 MM DISCONT					~30% CORE RE
	35.0		SOS "	"		80/E (70)									~20% CORE R
	45.0		SOS "	SOS " CALC CNT INC D/S.		90/CA 90/CA.				LAM Tr EVERY 2-3 MM DISCONT.					~70% CORE R
	54.8		DARK GREY MASSIVE LAM'D LISN.			63/E (CA)		160						BED 100.	
	63.6.		SOS NON-PYRITIC.	NON-SIL, UFG U.CARB SLC. SHALE 63.6'-66' W PY LAM		63/E (70)		166		LAM Tr EVERY 2-3 MM DISCONT				BED 70	
	75.0		SOS "			75/E (CA) 90/CA								BED 100	
	83.4.		NON-SIL., U.CARB UFG BLK SHALE SLIGHTLY CALC.			81/E (70) 75/E (70) 90/CA		158		LAM Tr EVERY 2-3 MM DISCONT.					~85% CORE RE
	95.0		SOS SLIGHTLY GRITTY			60/E (70) 85/E (70) 80/E (n)		165		LAM Tr "					
	105.0		SOS NOW UFG			80/E (n) 81/E (n) 85/E (n)				LAM Tr "					
	115.0		SOS As ABOVE CALC CNT INC D/S			81/E (n) 70/E (n)		163							
	125.0														

ANALYSES

ppm	%	ppm	%	ppm	ppm	%	ppm
	Zn		Cu		Ag	Ba	

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-29

COORD. ______ DIP ______ AZIM. ______ ELEV. ______ SIZE ______ STARTED ______ COMPLETED ______ LOGG ______

Footage: Intersection	True Depth	Primary Lithology	Secondary Interbeds / Discontinuities	%	Core Angle Bedding (W–E)	Core Angle Structure (W–E)	Pyrite Lam. Thickness	Pyrite %	Pyrite Diss. Size	Pyrite %	Barite Bed. Thickness	Barite %	Barite Bleb. Size	Barite %	CO_3^- Type Size	CO_3^- %	Other Description
135.0		LOW-MOD SIL., SLIGHTLY GRITTY BLK SHALE SLIGHTLY CALC INTERVALS.	10 CM LISN, BED 125.8' & 133.0		90/CA 55/E(70°)	55	LAM SCATTERED DISCONT.	Tr							BED	05	
145.0		SOS. SILICA CNT DEC DIS.			70/E(>CA) 72/E(>CA)	55	LAM EVERY 2-3 MM DISCONT.	Tr									
155.0		SOS VARIABLY SILICEOUS VARIABLY GRITTY (UFG			70/E (") 66/E (") 64/E (")		LAM " SCATTERED INTERVALS	Tr									
165.0		SOS AS ABOVE	3CM LISN @ 156.4', 3CM @ 161.0'		60/E (") 73/E(") 70/E (")		LAM AS ABOVE	Tr							BED	05	
175.0		SOS LOW-MOD SIL	3CM PYRITE LISN @ 173.0		90/E(") 61/E(")		LAM "	Tr							BED	05	
185.0		SOS NOW NON-SIL, UFG SLIGHTLY CALC			63/E(") 64/E (") 66/E (")		LAM DISCONT EVERY 2-3 MM	Tr									
195.0		SOS "	2CM PYRITE LISN @ 189.0		70/E (") 64/E(") 59/E(")	45	LAM "	Tr							BED	Tr	
205.0		SOS VARIABLY LOW-MOD SIL., UFG TO SLIGHTLY GRITTY			67/E (") 69/E (") 73/E (")		LAM "	Tr									
215.0		AS ABOVE MOD CALC INTERVALS.			69/E (") 56/E (")	52	LAM	Tr									
225.0		SOS AS ABOVE	LISN THIN BEDS, 1 CONCENTRATION @ 224.5'		71/E (") 69/E(") 55/E(")	45	LAM EVERY 2-3 MM	Tr							BED THIN	Tr	
233.0		SOS AS ABOVE			57/E (") 63/E (") 6/E (")		LAM "	Tr									
245.0		VARIABLY LOW-V. SIL. BLK SHALE, UFG, VARIABLY CALC	< 0.5 CM CHERTY ARGL BEDS SCATTERED.		66/E (") 65/E(")		LAM "	Tr									

ANALYSES

ppm	%	ppm	%	ppm	ppm	%	ppm
	Zn		Cu		g		Ba

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-29

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOG _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS (DIR. CHARACTERISTICS)	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3^- Type % Size	OTHER Description
			VARIABLY LOW-MOD SIL, U.F.G TO SLIGHTLY GRITTY, NON-CALC TO MOD CALC. BLK SHALE	<0.5 CM CHERTY ARGL BEDS, SCATTERED	66/E(DC) 67/E(U) 65/E(U)		LAM TR EVERY 2-3 MM SCATTERED					
	255.0		SOS	SOS SCATTERED, THIN, LSN BEDS @ 256'	60/E (U) 60/E (U)						BED TR THIN	
	265.0		SOS	<0.5 CM CHERTY ARGL BEDS, SCATTERED	58/E (U) 60/E (U) 60/E (U)	43						
	275.0		SOS	LSN BED 276.0 - 277.8'	58/E (U) 52/E (U)						BED 20	
END	281.0		END									

ANALYSES

ppm	%	ppm	%	ppm	ppm	%	ppm
		Zn	Cu		Ag	Ba	

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-30

COORD. _____ DIP -75° AZIM. 035° ELEV. _____ SIZE BQ STARTED _____ COMPLETED _____ LOG

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE Bedding W	CORE ANGLE Bedding E	CORE ANGLE Structure W	CORE ANGLE Structure E	PYRITE Lam. Thickness	PYRITE %	PYRITE Diss. Size	PYRITE %	BARITE Bed. Thickness	BARITE %	BARITE Bleb. Size	BARITE %	CO_3 Type	CO_3 %	OTHER Description
ox'd min?	0.0		OVB LEACHED MIN'N? CASING	SLUDGE ASSAYS @ 28', 34', 38'															
	40.0		LOW-MOD SIL V. SLIGHTLY CALC., VARIABLY VFG TO GRITTY BLK SHALE	MINOR PY-HYDROX MASSES	63/W 55/W		65		LAM Tr U. THIN EVERY 2-3 MM										BADLY BROKEN SHEARED 50% CORE
	50.0		SOS	"	50/W 48/W		65		LAM Tr DISCONT. SCATTERED										
	60.0		SOS	"	50/W 50/W 35/W				LAM Tr "										
Ac	70.0		MOD SIL BLK SHALE ABUNDANT PY-HYROX @ TOP, DEC D/S		47/W 34/W		63		LAM Tr "								BED Tr ~3cm @ 71.0		
	80.0		MOD SIL, VFG BLK SHALE NON-CALC	TRACE PY-HYROX MASSES	26/W 20/W		55		LAM Tr DISCONT EVERY 2-3 MM & THICK										TALC-Y BED ~3' @ 89'
	90.0		SOS	"	30/W 39/W		65		LAM Tr "										
	100.0		SOS	"	40/W 48/W		60		LAM Tr "										80% CORE TA
	110.0		SOS SLIGHTLY CALC SECTIONS	NO PY-HYROX	43/W 43/W 50/W				LAM Tr "								BED Tr 4cm @ 116.5		
	124.5		BADLY SHEARED & BROKEN CORE				83 70	75											~30% CORE RE
	133.0		MED.-D. SIL., VFG BLK SHALE		90/LA				LAM Tr EVERY 2-3 MM										
	136.0																		

ANALYSE

ppm Pb	% ppm Zn	% ppm Cu	oz. ppm Ag	% ppm Ba

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-30

COORD.____ DIP____ AZIM.____ ELEV.____ SIZE ____ STARTED____ COMPLETED ____ LOGG…

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS	%	CORE ANGLE CM Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. Thickness	%	PYRITE Diss. Size	%	BARITE Bed. Thickness	%	BARITE Bleb. Size	%	CO_3 Type Size	%	OTHER Description	ANALYSES Zn %	Zn ppm	Cu %	Cu ppm	Ag ppm	Ba %	Ba ppm
			MOD.-V.SIL., SLIGHTLY GRITTY BLK SHALE SLIGHTLY CALC	FREQUENT PY-HYROC MASSES @ TOP DEC D/S; SCATTERED 72CM RAD CHRT BEDS		20/W 20/W 45/W	55 60	LAM V.THIN DISCONT. SCATTERED	Tr							BED 25 CM BED 136-137	05	60% CORE REC. 136'…							
	147.0		OLIVE-GREY LSN, FINELY BANDED CARBONACEOUS			59/W										BED	100								
	149.7		MOD. SIL. SLIGHTLY GRITTY BLK SHALE, NON-CALC.	THIN, SCATTERED RAD CHRT BEDS < 10 CM		40/W 43/W 33/W	63	LAM V.THIN DISCONT. SCATTERED	Tr																
	160.0		SOS			29/W 15/W 10/W	63	LAM "	Tr																
	170.0		MOD-V.SIL. BLK SHALE, SLIGHTLY GRITTY RAD CHRT < 20 CM	THIN CALC. INTERBEDS. CHERTY INTERVALS		00/W 40/NOT 25/W (LOW)	59	LAM "	Tr							BED 2CM@177' 50M@178'	05	CW.… E.SIDE…							
	180.0		SOS	"		16/W (HIGH) 27/W 04/W	54	LAM "	Tr							BED 3cm @ 188.5 4cm @ 187.0'	Tr								
	190.0		SOS	"		10/W (LOW) 90/CA 40/W	52 50											50% CORE REC…							
	198.0		NON-SIL., VFG, V.CARB, THICK BEDDED BLK SHALE CALC. INTERVALS	V.THIN, MINOR "TUFF" BEDS "METALFLAKE" SHALE, SEE PY.		58/E (<CM) 20/W	35 45 58			DISS 208-208.4 INC TO BASE	Tr					BED 7cm @ 205.0	Tr								
	209.0		VARIABLY LOW-MOD SIL., VFG-GRITTY BLK SHALE, MOD. TO THICK BDD.	SCATTERED CALC INTERVALS <4CM, V.THIN "TUFF", MINOR		16/W 24/W 20/W	42	BED THIN TO BLEBS	Tr			BED TO THICKEST BLEBS	Tr	BLEB SCATTERED 4CM CONC.	05	NOD SCATTERED <7 CM	05								
	220.0		SOS	SOS		05/W 20/W	40	BED "	Tr					BLEB "	10	NOD "	05								
	227.0		MOD.SIL., VFG, SLIGHTLY CALC MASSIVE BLK SHALE			15/W																			
	230.0		SOS SILICA CNT INC D/S.	V.SILICEOUS SHALE (CHERTY) ABOVE & BELOW BLEBBY BARITE		08/W 00/W		BED TO BLEB	Tr					BLEB SCATTERED INTERVALS	Tr	NOD <4 CM TO BLEB	05								
	236.0																								

?

B_3?

GJV DRIFTPILE CREEK PROJECT: LOG DDH 79-30

COORD. _____ DIP _____ AZIM. _____ ELEV. _____ SIZE _____ STARTED _____ COMPLETED _____ LOG _____

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS %	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER Description	ANALYSES ppm Zn	%	ppm Cu	%	ppm Ag	ppm Ba	%
			INTERBEDDED NON-SIL, VFG BLK SHALE & SILICEOUS TO CHERTY BLK ARGL	MINOR BALC INTERVALS	20/W FR 237 00/W 10/W	153	BED Tr THIN W BLEBS		BED 05 IN <4CM SECTIONS 239-241	BLEB 10 <4CM INTERVALS SCATTERED	NOD Tr <4CM								
	246.0		SOS	"	10/W 15/W 10/W		BED Tr "		BED Tr NEAR BASE	BLEB 05 <2CM INTERVALS	NOD 05 <4CM INCL DIS								
	256.0		SOS	" LOW-MOD SIL VFG, PYRITIC, BLK SHALE, MASSIVE: 257-258.4, 263-265	08/W		BED 05 "	DISS Tr IN VFG BALC/SIL INTERBED	BED Tr SCATTERED	BLEB 10 "	NOD 05 <3CM W BA.								
BB?	266.0		SOS	SCATTERED 30 SECTIONS OF ABOVE <12CM	16/W 20/W		BED 05 "	DISS Tr "		BLEB 10 <4CM INTERVALS	NOD 05 <3CM IN BA & VFG SHALE								
	276.0		SOS W BA INTERVALS	<15CM NR 10 TOP SCATTERED LICH "TUFF" BEDS	22/W 15/W 14/W	151	BED 05 "	DISS Tr "	BED 05	BLEB 15 <8CM INTERVALS	NOD 10 <3CM W BA								
	286.0		SOS	"	18/W 15/W		BED Tr W BA			BLEB 05 <4CM'	NOD 05 W BLEBS.								
	296.0		SOS	NON-SIL, VFG CARB BLK SHALE 40 298-300.2, 301.5-303.8	08/W 03/W		BED Tr W BA	DISS Tr IN VFG SHALE	BED 05 300.2-301.5	BLEB 05 " NR TOP	NOD Tr W BLEBS								
MIN'D	306.6		CHERTY BLK ARGL (V. SIL. BLK SHALE <6CM, "TUFF" BEDS <1CM	NON-SIL, VFG BLK SHALE BEDS <6CM, SCATTERED	00/W 03/W		BED Tr W BA	DISS Tr "	BED 10 SCATTERED <4CM	BLEB 15 SCATTERED <6CM	NOD 10 "								
LH? MIN'D	310.0		SOS	"	00/W 10/W 24/W	157	BED Tr "	DISS Tr "	BED 20 "	BLEB 15 "	NOD 15 "								
MIN'D	320.0		SOS	" <10CM SCATTERED	17/W 15/W 30/W	150	BED Tr "	DISS Tr "	BED 05 "	BLEB 30 INCL DIS	NOD 05 W BA, SMALL INCL DIS								
MIN'D	330.C		VARIABLY MOD SIL. TO V. SIL CHERTY BLK SHALE BEDS <6CM	SCATTERED "TUFF" <0.5CM	35/W 20/W 23/W		BED Tr "		BED 05 <1CM W BLEB	BLEB 40 <6CM MASSIVE DEC DIS	NOD 05 <3CM								
MIN'D	340.0		SOS	SOS VFG NON SIL SHALE 348.0-349.0	12/W 20/W		BED 05 "		BED 10	BLEB 15 DEC DIS	NOD Tr <3CM								
	352.4																		

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-30

COORD. _____ DIP ____ AZIM. ____ ELEV. _____ SIZE ____ STARTED _____ COMPLETED _____ LOG

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY % INTERBEDS	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. % Thickness	PYRITE Diss. % Size	BARITE Bed. % Thickness	BARITE Bleb. % Size	CO_3 Type % Size	OTHER Description	ANALYSES Zn ppm %	ANALYSES Cu ppm %	ANALYSES Ba ppm %
BA RAD CUT			MOD-V. SIL., SLIGHTLY CRITTY, THIN BEDDED CALC CUT INC D/S.	MINOR THIN X-BDD "TUFF" HORIZONS.	30/W 10/W 17/W		BED Tr THIN			BLEB 05 DEC D/S	NOD 05 < 4 CM DEC D/S				
	360.2		MOD SIL. TO CRITTY "BANDED" BLK SHALE EDGE THICKNESS 0.2 — 3 CM	DARK (BLK) SHALE USUALLY THIN, IS V. CALC. THIN "TUFF" BEDS SCATTERED.	15/W 17/W		BED Tr V. MINOR SCATTERED				NOD Tr < 3 CM DEC D/S				
Au	370.0		SOS	"	18/W	50 /						CLY DISPL. FF SIDE W/			
	375.0		SOS LIGN BEDS(?)	V. POOR CORE REC.; NOT SHEARED, NO GOUGE	N/A						BED ?	~15% CORE			
	383.5		SOS THICKER BEDDED LESS "TUFF"		20/W 23/W 29/W		BED Tr 1-4 MM COARSE SCATTERED				BED 05 382.2 - 390.1				
	390.0		SOS CALC CUT DEC D/S	"TUFF" DEC D/S	35/W 35/W 12/W			DISS Tr COARSE SCATTERED "BANDS"			BED 10 393.4 - 395.9				
~	400.0		SOS NON-CALC	V. MINOR "TUFF"	15/W	40 / 15	BED Tr < 2 MM COARSE	DISS Tr "			BED INCREASING	CLEAVAGE DEV'T INC W/ SHEARING LOST CORE 400'			
	414.0		V. SIL., SLIGHTLY CRITTY NON-CALC BLK SHALE	RAD CHRT < 1 CM SCATTERED.	40/W 55/SE(?W) 90/CA	45 / 30 50	LAM Tr EVERY 1-2 MM DISCONT								
Au	420.0		SOS	"	45/E(>CA) 30/W 55/VERT	55 /	LAM Tr "								
	430.0		SOS	"	31/W 65/E(>CA) 65/E(")	45 / 55	LAM Tr EVERY 2-3 MM				BED 05 430.5' 431.5'				
	440.0		SOS	"	40/W 20/W.		LAM Tr "								
~	446.0		< 10% CORE REC, BADLY BROKEN												
	456.0														

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-30

COORD. _____ DIP ____ AZIM. ____ ELEV. _____ SIZE ____ STARTED _____ COMPLETED _____ LOG

VISUAL LOG	FOOTAGE Intersection	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS	%	CORE ANGLE Bedding W E	CORE ANGLE Structure W E	PYRITE Lam. Thickness	%	PYRITE Diss. Size	%	BARITE Bed. Thickness	%	BARITE Bleb. Size	%	CO_3 Type Size	%	OTHER Description
Ac			LOW-MOD. SIL., SLIGHTLY GRITTY BLK SHALE, CHERTY INTERVALS NON-CALC	PY-HYDROC. MASSES SCATTERED MINOR RAD CHERT 2-3/CM		50/VERT 85/E(<CA) 55/W	~60 ~85	BED Tr <2CM SCATTERED IRREG										
	466.8		467.9-468.6 HARDWE NON-SIL, VCARB BLK SHALE	VARIABLY NON-SIL TO CHERTY ARGL <3CM	75	W/E(>CA) 46/VERT	~43	BED 10 <3MM								NOD 15 <2CM		RELICT BX IN CD-, NO ROT
BB?			MINOR THIN "TUFF"	V. SIL. TO CHERTY BLK, SLIGHTLY GRITTY SHALE <5CM, INCL. D/S	45	35/W (RAY) 50/VERT 30/W	~43	BED 25 " DEC D/S				BED Tr BLEB 15		BLEB 15 1-2CM SECTIONS INCL D/S		NOD 15 " DEC D/S		
	481.0		" V. MINOR V. SIL PYRITIC, ARGL HARDWE 480.8-481.5'	SOS <10 CM	55	20/W 45/W 33/W	~48	BED 15 <3MM	DISS Tr IN MASS ARGL			BED Tr "		BLEB 20 "		NOD 10 <3CM		
	491.0		V. THIN TUFF THICK SECTIONS TO 3CM	SOS <8 CM	45	30/W		BED 20 "				BED Tr "		BLEB 20 "		NOD 15 "		ABRUPT BASE OF BARITE
	494.6		" NON-SIL BLK SHALE, HARDWE; TO 25CM	SOS <4CM	50	38/W 34/W 41/W		BED 25 "								NOD 25 <9CM		
44?	505.0		SOS "	SOS "	50	38/W 28/W 50/VERT		BED 25 "								NOD 25 "		CLASTIC TUFF; PY IN SL ~ D/S ~1CM THK
SL BDS IN BASE	515.0		SOS "	SOS "	60	41/W 43/W 56/E(>CA)		BED 30 "								NOD 20 "		WISP-FOL SEPT NOT <2CM IN SHALE
GOOD SL	525.0		SOS "	SOS "	45	42/VERT 65/E(?CA)	~38	BED 35 " INCL LAM SL								NOD 20 "		GOOD SL MINOR GLTY BUT MASS SL 525.0'
FAIR SL	531.0		SOS "	SOS "	70	35/W		BED 15 " INCL THIN SL BDS								NOD 15 "		FAIR SL DEC D/S
??	533.5		U. THIN, MINOR "TUFF" BEDS	V. SIL. TO CHERTY BLK SHALE TO 20CM, AVG ~8 CM	55	35/W 35/W 40/W		BED 10 <1CM				BED 5 <1CM W BLEBS		BLEB 20 <2CM IN CONC. <6CM		NOD 10 <3CM		FAIR SL IN TSH
	543.0			SOS	90	~ 12/W 35/W	~38	BED 10				BED 5		BLEB 20		NOD 15		
	552.5																	

ANALYSES

ppm Pb	% ppm Zn	% ppm Cu	ppm Ag	% ppm Ba

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 79-30

COORD. _____ DIP ____ AZIM. ____ ELEV. ____ SIZE ____ STARTED _____ COMPLETED _____ LOG

VISUAL LOG	FOOTAGE Inter-section	FOOTAGE True Depth	PRIMARY LITHOLOGY	SECONDARY INTERBEDS	%	CORE ANGLE Bedding W	CORE ANGLE Bedding E	CORE ANGLE Structure W	CORE ANGLE Structure E	PYRITE Lam. Thickness	PYRITE %	PYRITE Diss. Size	PYRITE %	BARITE Bed. Thickness	BARITE %	BARITE Bleb. Size	BARITE %	CO_3 Type Size	CO_3 %	OTHER Description
			V. MINOR, V. THIN "TUFF" BEDS	VARIABLY NON-BIL TO CHERTY [BLK SHALE (CHERTY? "HARDE" OF PJ/TBA) 4CM-10CM	85	35/W 28/W				BED CB <4MM CB BA						BLEB 05 <1CM SCATTERED		NOD 5 <6CM		
	5625																			
			SOS	SOS	90	20/W 10/W		45		BED TR " DEC DIS						BLEB 05 " DEC DIS		NOD 05 <4CM DEC DIS		
	5720																			
END			END																	

ANALYSES

int	% Zn	ppm Zn	% Cu	ppm Cu	ppm Ag	% Ba	ppm Ba

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510 WEST HASTINGS STREET
VANCOUVER, B.C.
V6B 1L8

CERTIFICATE

I, Robert J. Cathro, with business addresses in Whitehorse, Yukon Territory, and Vancouver, British Columbia, and residential address in West Vancouver, British Columbia, do hereby declare

1. I am a consulting engineer.
2. I am a 1959 graduate of the University of British Columbia in geological engineering.
3. From 1959 to 1965 I was engaged in mining and exploration geology with United Keno Hill Mines Ltd., Giant Yellowknife Mines Ltd., and Eldorado Mining and Refining Ltd. I entered private practice in January, 1966.
4. I am a registered professional engineer in British Columbia and Yukon Territory.
5. I have supervised the work described in this report.

Respectfully submitted,

R.J. Cathro, B.A.Sc., P. Eng.

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STATEMENT OF QUALIFICATIONS

I, Robert C. Carne, residing at 5665 Toronto Road, Vancouver, British Columbia, state that:

1. I have graduated from the University of British Columbia with a B.Sc. degree in Geological Sciences in 1974.

2. I have been employed by Archer, Cathro & Associates Ltd. as a geologist since 1977 and that I have been engaged in mineral exploration in British Columbia, Yukon Territory and Northwest Territories since 1970.

3. I am a member of the Geological Association of Canada.

4. I am a member of the Geological Society of America.

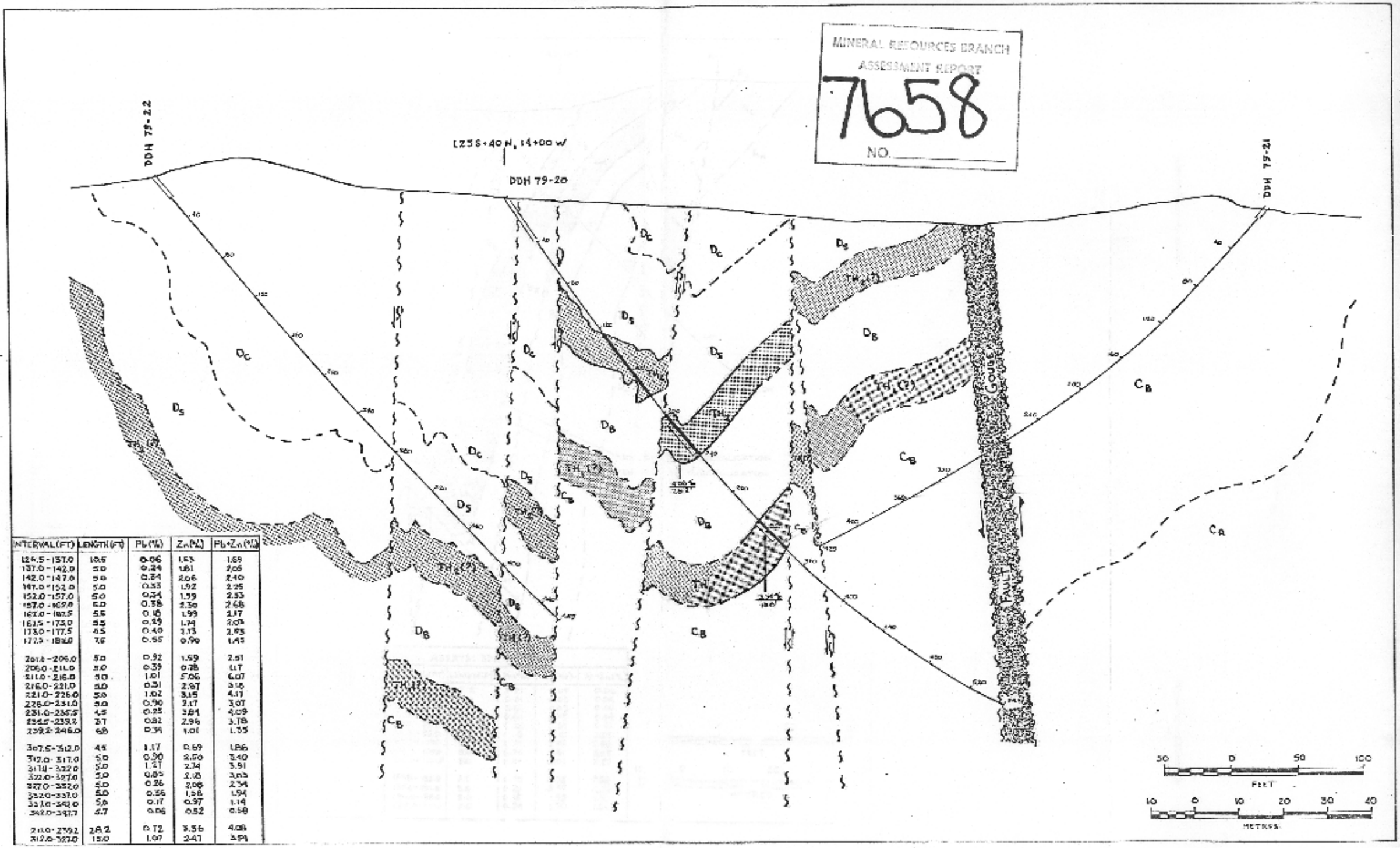
5. I am a member of the Society of Economic Paleontologists and Mineralogists.

6. I personally supervised the exploration program at the Driftpile property during 1979 and logged all drill core.

Respectfully submitted,

RCC:jm

Robert C. Carne, B.Sc.



INTERVAL(FT)	LENGTH(FT)	Pb(%)	Zn(%)	Pb+Zn(%)
124.5 - 137.0	10.5	0.06	1.63	1.69
137.0 - 142.0	5.0	0.24	1.81	2.05
142.0 - 147.0	5.0	0.34	2.06	2.40
147.0 - 152.0	5.0	0.33	1.92	2.25
152.0 - 157.0	5.0	0.24	1.39	2.53
157.0 - 162.0	5.0	0.38	2.30	2.68
162.0 - 167.5	5.5	0.16	1.99	2.17
167.5 - 173.0	5.5	0.29	1.74	2.03
173.0 - 177.5	4.5	0.40	3.13	3.53
177.5 - 185.0	7.5	0.55	0.90	1.45
201.8 - 206.0	5.0	0.92	1.59	2.51
206.0 - 211.0	5.0	0.39	0.78	1.17
211.0 - 216.0	5.0	1.01	5.06	6.07
216.0 - 221.0	5.0	0.31	2.87	3.18
221.0 - 226.0	5.0	1.02	3.15	4.17
226.0 - 231.0	5.0	0.90	2.17	3.07
231.0 - 235.5	4.5	0.25	3.84	4.09
235.5 - 239.2	3.7	0.82	2.96	3.78
239.2 - 246.0	6.8	0.36	1.01	1.35
307.5 - 312.0	4.5	1.17	0.69	1.86
312.0 - 317.0	5.0	0.90	2.50	3.40
317.0 - 322.0	5.0	1.27	2.74	3.91
322.0 - 327.0	5.0	0.85	2.18	3.03
327.0 - 332.0	5.0	0.26	2.08	2.34
332.0 - 337.0	5.0	0.56	1.38	1.94
337.0 - 342.0	5.0	0.17	0.97	1.14
342.0 - 347.7	5.7	0.06	0.52	0.58
213.0 - 279.2	28.2	0.72	3.36	4.08
312.0 - 327.0	15.0	1.97	2.47	3.94

Figure A-13: Generalized cross-section, DDH 79-20, 79-21 and 79-22

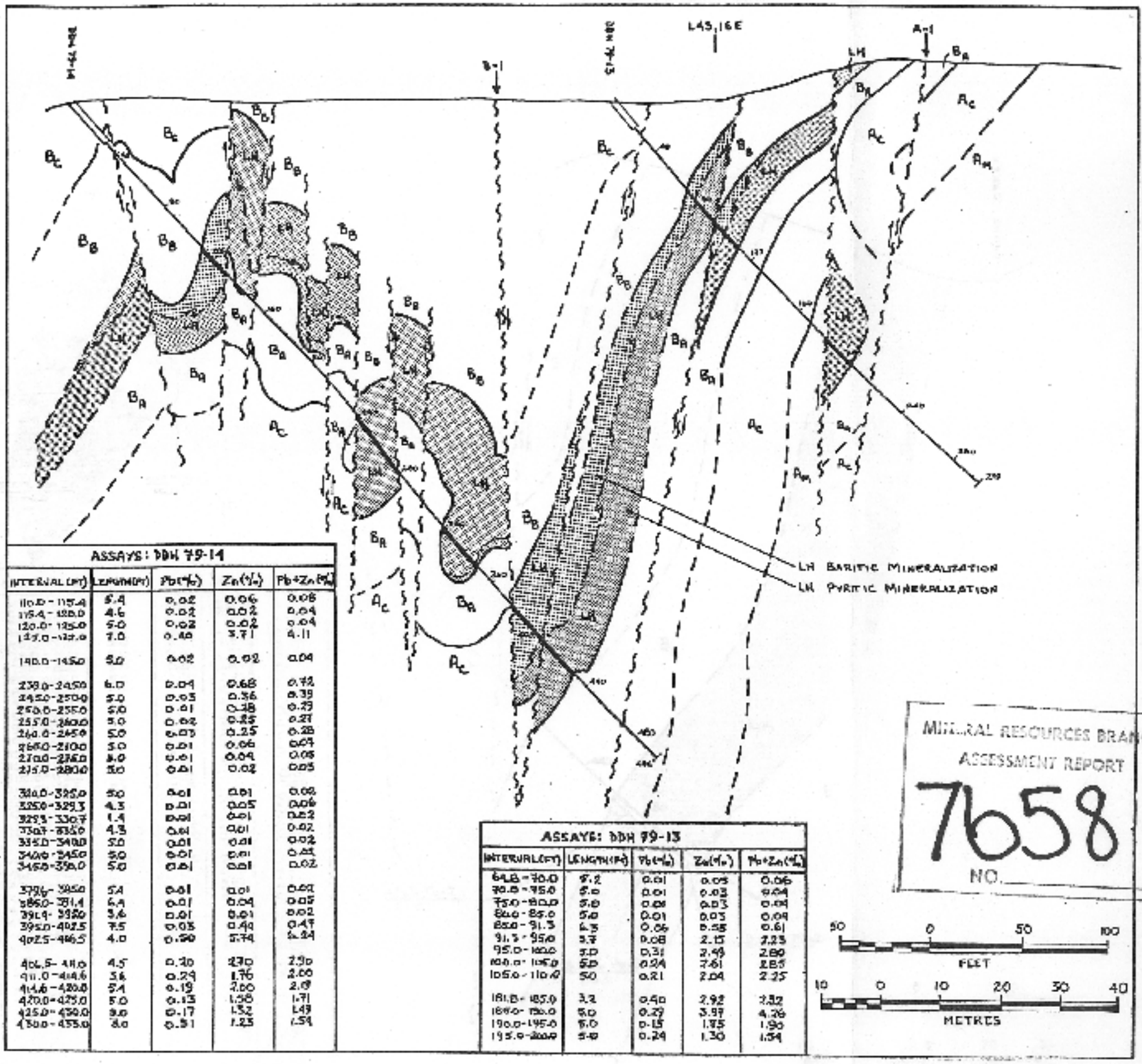
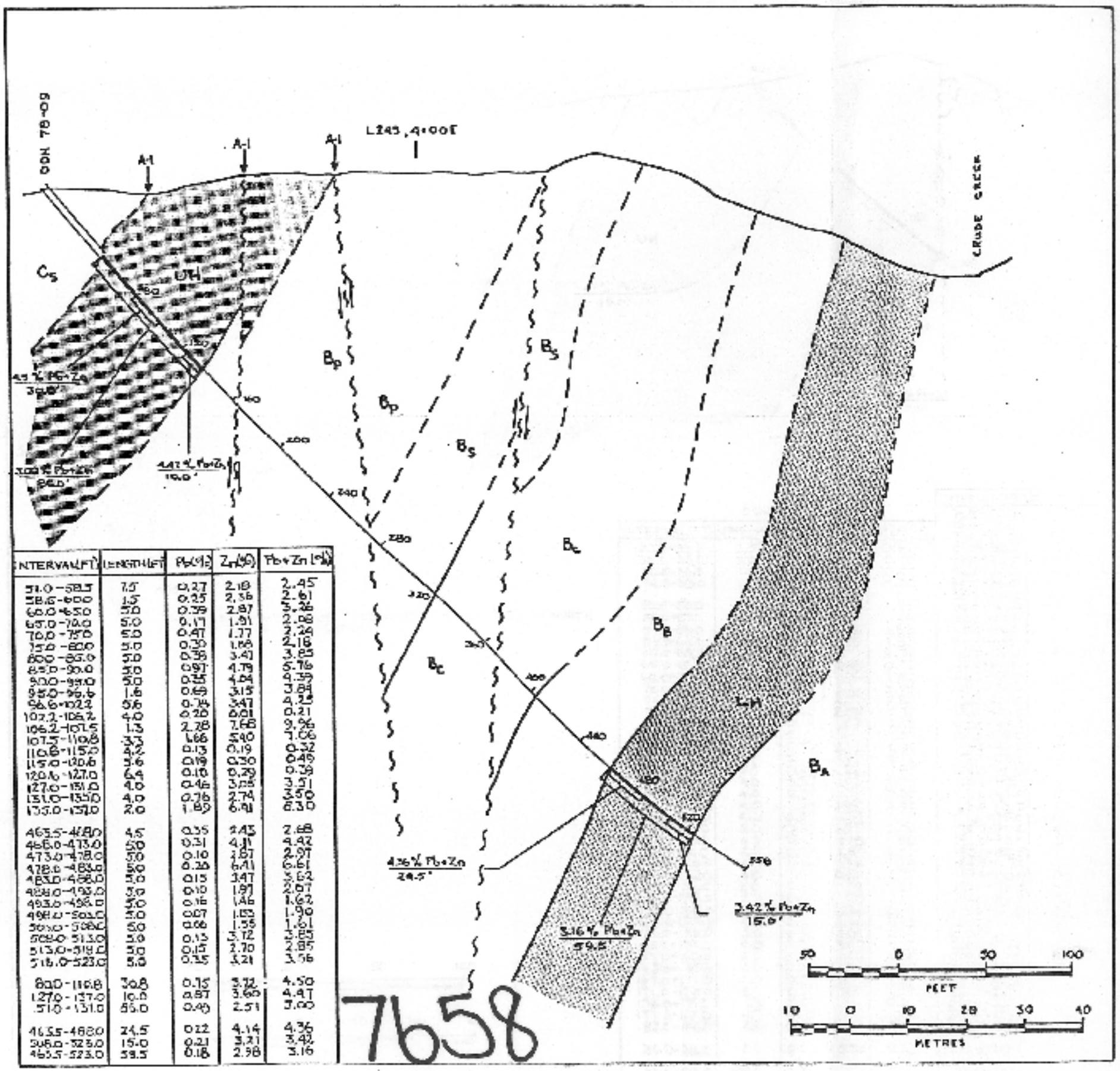
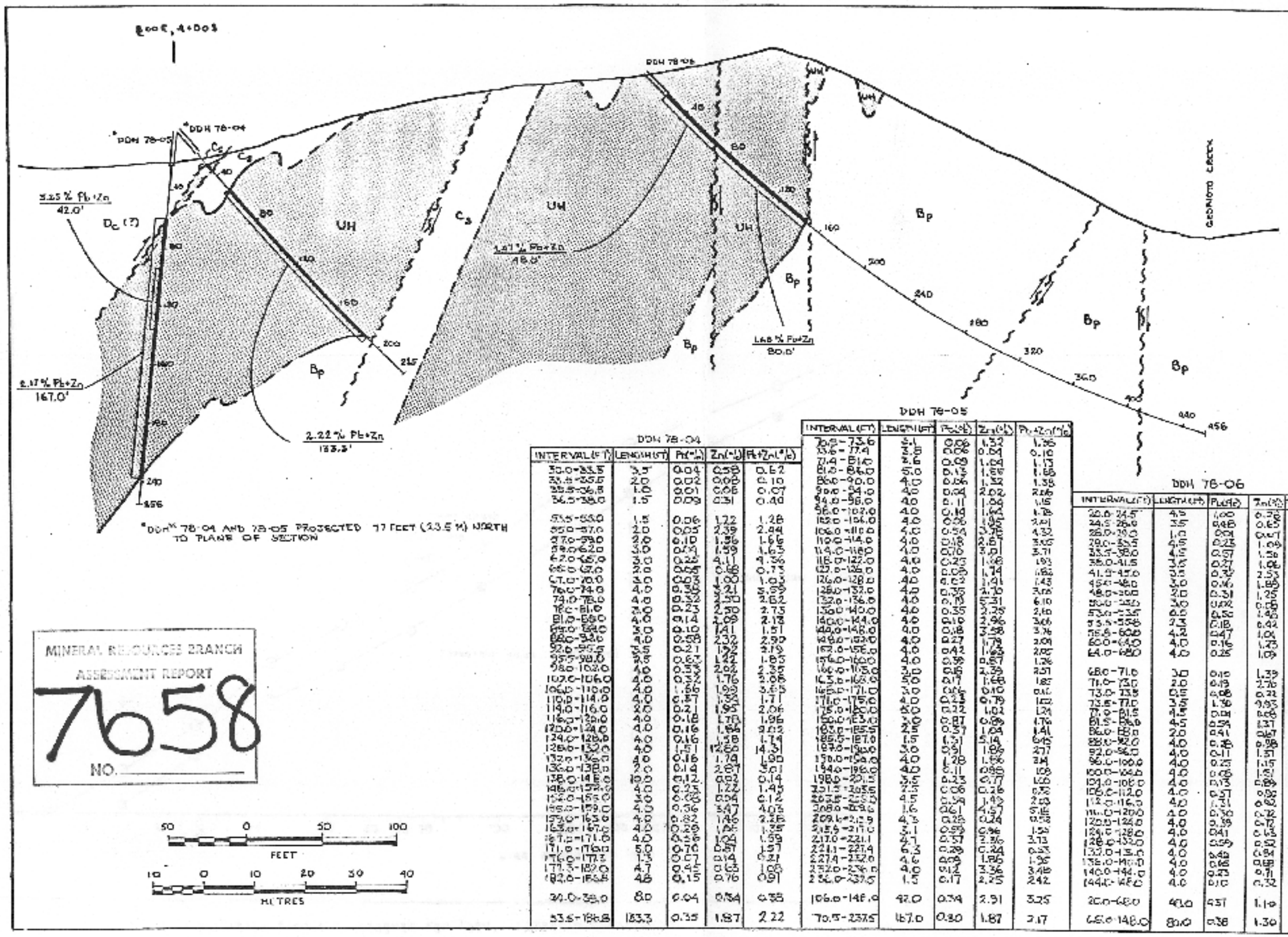


Figure A-8: Generalized cross-section, DDH 79-13 and 79-14



INTERVAL(FT)	LENGTH(FT)	Pb(%)	Zn(%)	Pb+Zn (%)
51.0-58.5	7.5	0.27	2.18	2.45
58.5-60.0	1.5	0.25	2.36	2.61
60.0-65.0	5.0	0.39	2.87	3.26
65.0-70.0	5.0	0.17	1.91	2.08
70.0-75.0	5.0	0.47	1.77	2.24
75.0-80.0	5.0	0.30	1.88	2.18
80.0-85.0	5.0	0.38	3.41	3.85
85.0-90.0	5.0	0.97	4.79	5.76
90.0-95.0	5.0	0.55	4.04	9.59
95.0-96.6	1.6	0.69	3.15	3.84
96.6-102.2	5.6	0.74	3.47	4.21
102.2-106.2	4.0	0.20	0.01	0.21
106.2-107.5	1.3	2.28	7.68	9.96
107.5-110.8	3.3	1.66	5.40	7.06
110.8-115.0	4.2	0.13	0.19	0.32
115.0-120.6	5.6	0.19	0.30	0.49
120.6-127.0	6.4	0.10	0.29	0.39
127.0-131.0	4.0	0.46	3.05	3.51
131.0-135.0	4.0	0.76	2.74	3.50
135.0-137.0	2.0	1.89	6.41	8.30
465.5-470.0	4.5	0.35	2.43	2.68
468.0-473.0	5.0	0.31	4.11	4.42
473.0-478.0	5.0	0.10	1.87	2.97
478.0-483.0	5.0	0.20	6.41	6.61
483.0-488.0	5.0	0.15	3.47	3.62
488.0-493.0	5.0	0.10	1.97	2.07
493.0-498.0	5.0	0.16	1.46	1.62
498.0-503.0	5.0	0.07	1.83	1.90
503.0-508.0	5.0	0.06	1.55	1.61
508.0-513.0	5.0	0.13	3.12	3.25
513.0-518.0	5.0	0.15	2.70	2.85
518.0-523.0	5.0	0.35	3.21	3.56
80.0-110.8	30.8	0.15	3.32	4.50
127.0-137.0	10.0	0.87	3.60	4.47
510-131.0	55.0	0.49	2.51	3.00
465.5-480.0	24.5	0.22	4.14	4.36
508.0-523.0	15.0	0.21	3.21	3.42
465.5-523.0	58.5	0.18	2.98	3.16

Figure A-5: Generalized cross-section, ODH 78-09



DDH 78-04

INTERVAL (FT)	LENGTH (FT)	Pb (%)	Zn (%)	Pb+Zn (%)
30.0-33.5	3.5	0.04	0.58	0.62
33.5-35.5	2.0	0.02	0.08	0.10
35.5-36.5	1.0	0.01	0.06	0.07
36.5-38.0	1.5	0.09	0.31	0.40
53.5-55.0	1.5	0.06	1.22	1.28
55.0-57.0	2.0	0.05	2.39	2.44
57.0-59.0	2.0	0.10	1.56	1.66
59.0-62.0	3.0	0.04	1.59	1.63
62.0-65.0	3.0	0.22	4.11	4.36
65.0-67.0	2.0	0.05	0.68	0.73
67.0-70.0	3.0	0.03	1.00	1.03
70.0-74.0	4.0	0.35	5.21	5.59
74.0-78.0	4.0	0.32	2.50	2.82
78.0-81.0	3.0	0.23	2.50	2.73
81.0-85.0	4.0	0.14	2.09	2.18
85.0-88.0	3.0	0.10	1.41	1.51
88.0-93.0	5.0	0.58	2.32	2.90
93.0-95.5	2.5	0.21	1.98	2.19
95.5-98.0	2.5	0.07	1.42	1.83
98.0-102.0	4.0	0.33	2.02	2.35
102.0-106.0	4.0	0.32	1.76	2.08
106.0-110.0	4.0	1.66	1.98	3.65
110.0-114.0	4.0	0.57	1.14	1.71
114.0-116.0	2.0	0.21	1.95	2.06
116.0-120.0	4.0	0.18	1.78	1.96
120.0-124.0	4.0	0.16	1.86	2.02
124.0-128.0	4.0	0.16	1.58	1.74
128.0-132.0	4.0	1.51	12.80	14.31
132.0-136.0	4.0	0.16	1.74	1.90
136.0-138.0	2.0	0.14	2.67	3.01
138.0-148.0	10.0	0.12	0.92	1.04
148.0-152.0	4.0	0.23	1.22	1.45
152.0-155.0	3.0	0.06	0.06	0.12
155.0-159.0	4.0	0.56	3.47	4.03
159.0-163.0	4.0	0.82	1.46	2.28
163.0-167.0	4.0	0.29	1.96	1.25
167.0-171.0	4.0	0.26	1.04	1.30
171.0-176.0	5.0	0.76	0.87	1.57
176.0-177.5	1.5	0.07	0.14	0.21
177.5-182.0	4.7	0.45	0.63	1.08
182.0-186.8	4.8	0.15	0.76	0.91
30.0-38.0	8.0	0.04	0.54	0.58
53.5-186.8	133.3	0.35	1.87	2.22

DDH 78-05

INTERVAL (FT)	LENGTH (FT)	Pb (%)	Zn (%)	Pb+Zn (%)
70.2-73.6	3.4	0.06	1.32	1.38
73.6-77.4	3.8	0.06	0.04	0.10
77.4-81.0	3.6	0.09	1.04	1.13
81.0-86.0	5.0	0.13	1.66	1.79
86.0-90.0	4.0	0.06	1.32	1.38
90.0-94.0	4.0	0.04	2.02	2.06
94.0-98.0	4.0	0.11	1.04	1.15
98.0-102.0	4.0	0.19	1.60	1.79
102.0-106.0	4.0	0.26	2.01	2.27
106.0-110.0	4.0	0.54	3.78	4.32
110.0-114.0	4.0	0.18	2.85	3.03
114.0-118.0	4.0	0.10	3.01	3.11
118.0-122.0	4.0	0.23	1.68	1.91
122.0-126.0	4.0	0.09	1.74	1.83
126.0-128.0	2.0	0.02	1.41	1.43
128.0-132.0	4.0	0.35	3.10	3.45
132.0-136.0	4.0	0.19	5.31	6.10
136.0-140.0	4.0	0.35	2.35	2.70
140.0-144.0	4.0	0.10	2.96	3.06
144.0-148.0	4.0	0.18	3.58	3.76
148.0-152.0	4.0	0.27	1.78	2.05
152.0-156.0	4.0	0.42	1.63	2.05
156.0-160.0	4.0	0.59	0.67	1.26
160.0-165.0	5.0	0.86	2.39	3.25
165.0-169.0	4.0	0.17	1.68	1.85
169.0-171.0	2.0	0.10	0.40	0.50
171.0-175.0	4.0	0.25	0.79	1.04
175.0-180.0	5.0	0.32	1.01	1.33
180.0-183.0	3.0	0.87	0.89	1.76
183.0-185.5	2.5	0.37	1.04	1.41
185.5-187.0	1.5	1.31	5.14	6.45
187.0-191.0	4.0	0.91	1.86	2.77
191.0-195.0	4.0	0.28	1.56	1.84
195.0-199.0	4.0	0.11	0.96	1.07
199.0-203.5	4.5	0.23	0.77	1.00
203.5-206.5	3.0	0.06	0.26	0.32
206.5-211.0	4.5	0.58	1.42	2.00
211.0-215.0	4.0	0.61	4.57	5.18
215.0-219.6	4.6	0.29	0.24	0.53
219.6-221.9	2.3	0.96	1.56	2.52
221.9-224.0	2.1	0.57	2.36	3.13
224.0-227.4	3.4	0.28	0.24	0.52
227.4-232.0	4.6	0.26	1.86	1.96
232.0-236.0	4.0	0.12	3.36	3.48
236.0-237.5	1.5	0.17	2.25	2.42
70.2-237.5	167.0	0.30	1.87	2.17

DDH 78-06

INTERVAL (FT)	LENGTH (FT)	Pb (%)	Zn (%)	Pb+Zn (%)
20.0-24.5	4.5	1.00	0.38	1.38
24.5-28.0	3.5	0.48	0.65	1.13
28.0-29.0	1.0	0.01	0.07	0.08
29.0-33.5	4.5	0.23	1.09	1.32
33.5-38.0	4.5	0.57	1.50	2.07
38.0-41.5	3.5	0.27	1.08	1.35
41.5-45.0	3.5	0.32	2.53	2.85
45.0-48.0	3.0	0.40	1.88	2.28
48.0-50.0	2.0	0.31	1.25	1.56
50.0-53.0	3.0	0.02	0.10	0.12
53.0-59.5	6.5	0.50	1.48	1.98
59.5-63.5	4.0	0.18	0.42	0.60
63.5-68.0	4.5	0.47	1.04	1.51
68.0-72.0	4.0	0.16	1.23	1.39
72.0-74.0	2.0	0.25	1.09	1.34
74.0-78.0	4.0	0.15	1.39	1.46
78.0-80.0	2.0	0.13	2.76	2.89
80.0-81.0	1.0	0.06	0.22	0.28
81.0-84.5	3.5	1.30	9.93	11.23
84.5-85.5	1.0	0.04	0.09	0.13
85.5-89.0	3.5	0.34	1.37	1.71
89.0-91.0	2.0	0.41	0.67	1.08
91.0-95.0	4.0	0.38	0.88	1.26
95.0-99.0	4.0	0.11	1.51	1.62
99.0-103.0	4.0	0.25	1.15	1.40
103.0-107.0	4.0	0.05	1.51	1.56
107.0-111.0	4.0	0.13	0.89	1.02
111.0-115.0	4.0	0.57	0.92	1.49
115.0-119.0	4.0	0.31	0.62	2.23
119.0-123.0	4.0	0.30	0.32	1.62
123.0-127.0	4.0	0.39	0.72	1.11
127.0-131.0	4.0	0.43	0.61	1.04
131.0-135.0	4.0	0.59	0.52	1.11
135.0-139.0	4.0	0.49	0.84	1.34
139.0-140.0	1.0	0.68	0.65	1.33
140.0-144.0	4.0	0.33	0.71	0.94
144.0-148.0	4.0	0.10	0.32	0.42
20.0-148.0	128.0	0.51	1.19	1.47

Figure A-3: Generalized cross-section, DDH 78-04, 78-05 and 78-06

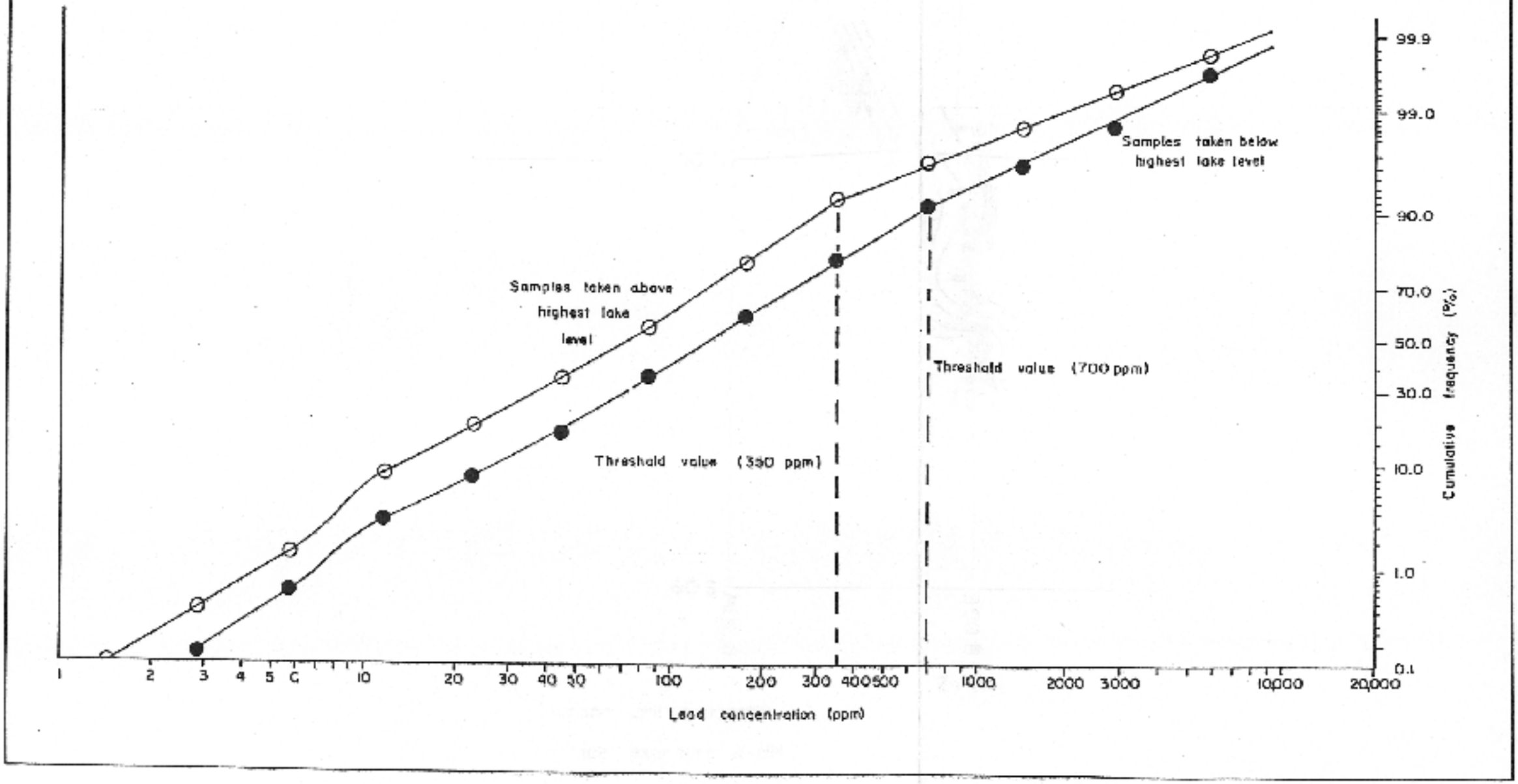


Figure 9 : Cumulative frequency diagram for lead, Driftpile Creek property

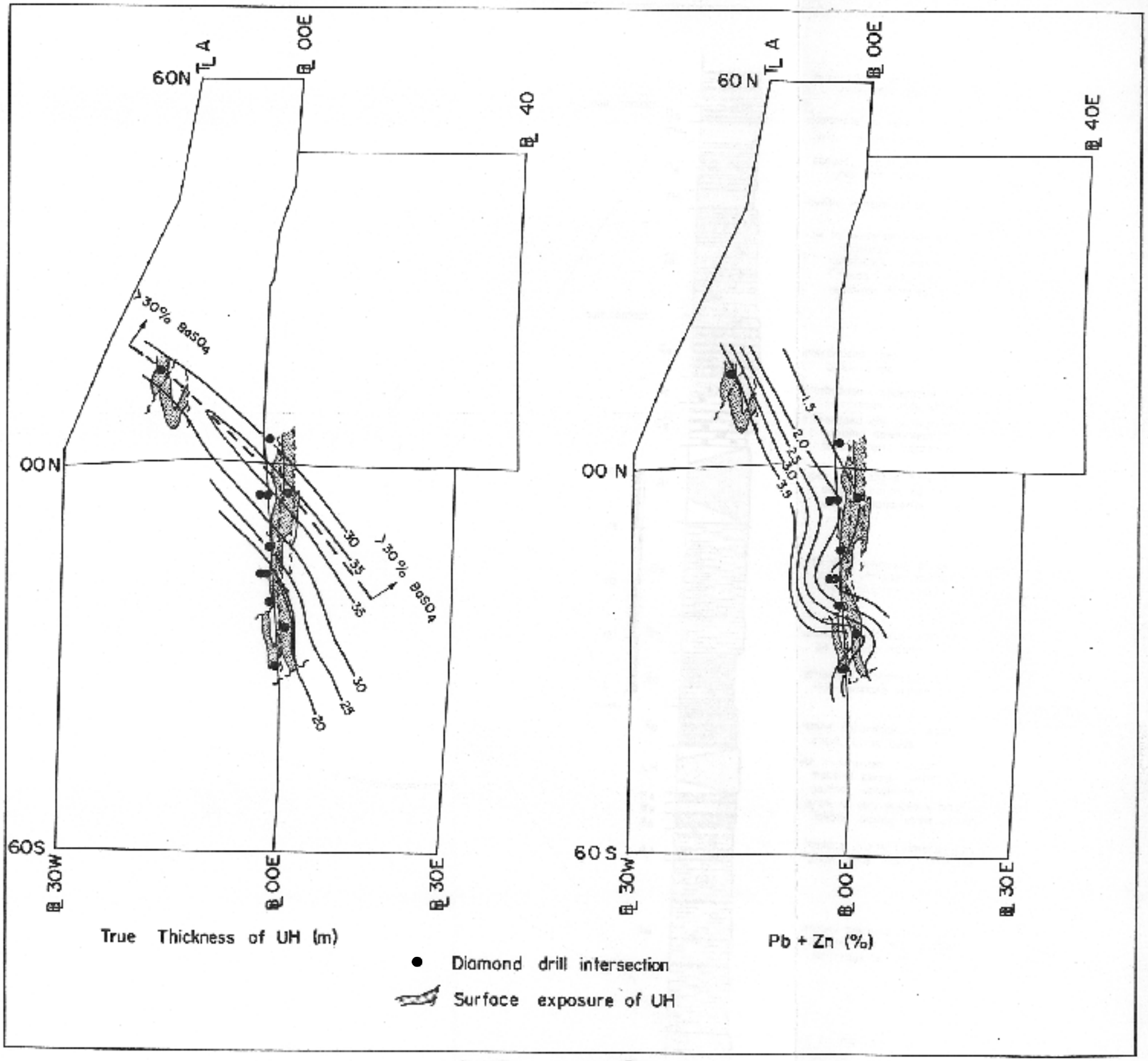
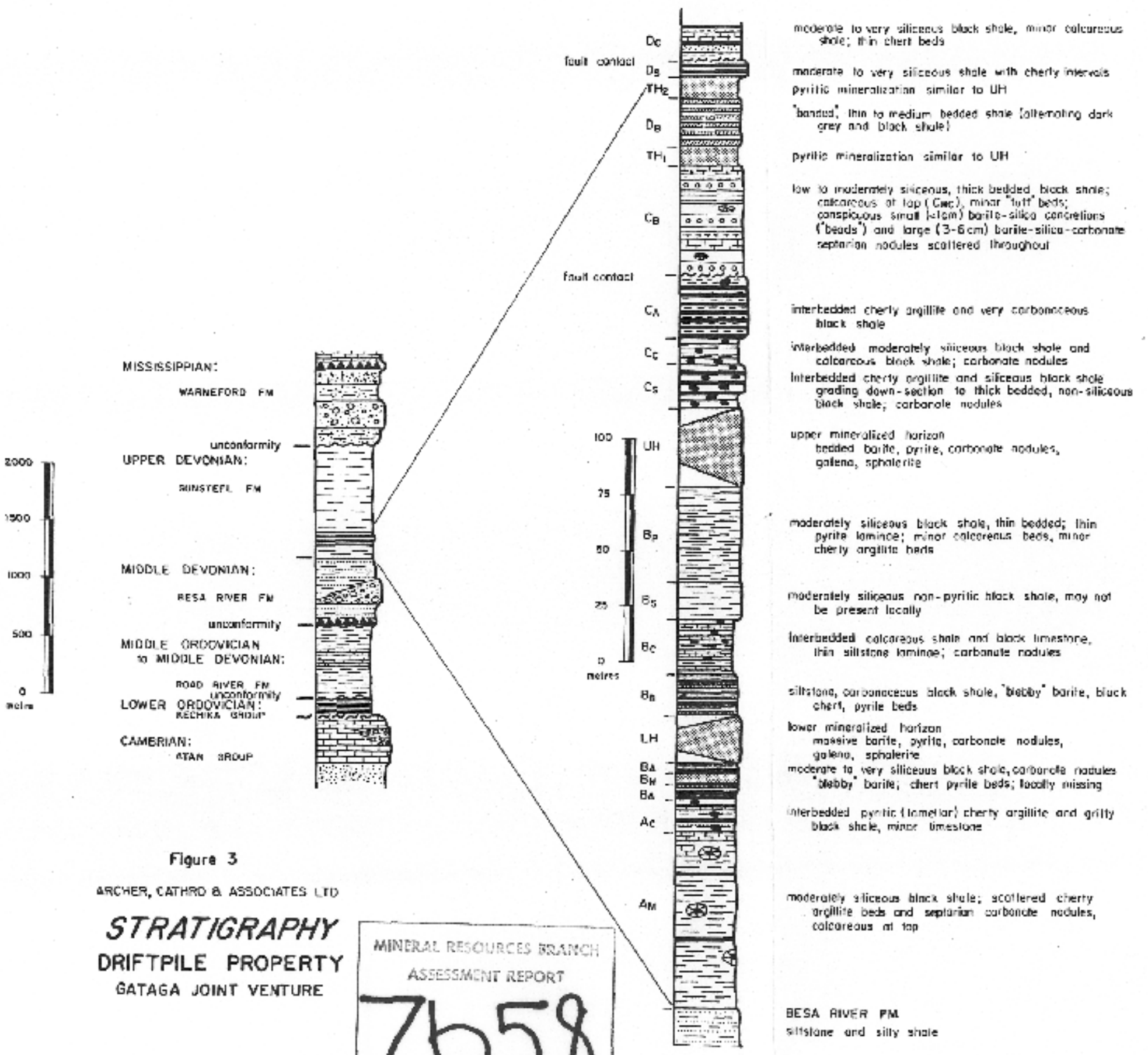


Figure 5: Isopach and metal ratio maps, UH

7658



moderate to very siliceous black shale, minor calcareous shale; thin chert beds

moderate to very siliceous shale with cherty intervals
pyritic mineralization similar to UH

"banded", thin to medium bedded shale (alternating dark grey and black shale)

pyritic mineralization similar to UH

low to moderately siliceous, thick bedded, black shale; calcareous at top (Cac), minor "tuff" beds; conspicuous small (<1cm) barite-silica concretions ("beads") and large (3-6cm) barite-silica-carbonate septarian nodules scattered throughout

interbedded cherty argillite and very carbonaceous black shale

interbedded moderately siliceous black shale and calcareous black shale; carbonate nodules

interbedded cherty argillite and siliceous black shale grading down-section to thick bedded, non-siliceous black shale; carbonate nodules

upper mineralized horizon
bedded barite, pyrite, carbonate nodules, galena, sphalerite

moderately siliceous black shale, thin bedded; thin pyrite laminae; minor calcareous beds, minor cherty argillite beds

moderately siliceous non-pyritic black shale, may not be present locally

interbedded calcareous shale and black limestone, thin siltstone laminae; carbonate nodules

siltstone, carbonaceous black shale, "blebby" barite, black chert, pyrite beds

lower mineralized horizon
massive barite, pyrite, carbonate nodules, galena, sphalerite

moderate to very siliceous black shale, carbonate nodules "blebby" barite; chert pyrite beds; locally missing

interbedded pyritic (lamellar) cherty argillite and gritty black shale, minor limestone

moderately siliceous black shale; scattered cherty argillite beds and septarian carbonate nodules, calcareous at top

BESA RIVER FM
siltstone and silty shale

Figure 3

ARCHER, CATHRO & ASSOCIATES LTD

STRATIGRAPHY

DRIFTPILE PROPERTY

GATAGA JOINT VENTURE

79-12	L400W, 4005	055	-75	445
79-13	1500E, 4005	055	-50	239
79-14	L450E, 4005	055	-50	494
		055	-50	426
		055	-50	318
		055	-70	260
		055	-50	412
		055	-50	460
		055	-55	545
		235	-50	479
		055	-50	459
		055	-55	632
79-24	350W, 5700S	055	-55	300
79-25	1440E, 4005	055	-50	711
79-26	1540E, 2205	055	-50	291
		055	-50	272
		235	-50	155
		055	-70	381
		055	-75	570

29 HOLES 7827 feet

LIMIT OF 1978 SOIL GEOCHEMISTRY GRID

20 W

00

20 E

40 E

48 N
44 N
40 N
36 N
32 N
28 N
24 N
20 N
16 N
12 N
8 N
4 N
0
4 S
8 S
12 S
16 S
20 S
24 S
28 S
32 S

D6 D23 D24 D43 D41 D22 D21 D39 D4 D20 D37 D2 P20 P19 P37 P22 P21 P39 P24 P23 P2 P4

CAMP I
Driftpile Creek
GOOF 1
GOOF 2
GOOF 4

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
7658
NO.

LEGEND

- Drill Hole (1 to 9 drilled in 1978)
- Lead soil anomaly (greater than 750 ppm)
- Surface exposure of known mineralization
- Fault
- Claim posts – not surveyed but accurate to best information available

ARCHER, CATHRO & ASSOCIATES LTD.

Drill Hole Location Plan

DRIFTPILE PROPERTY

GATAGA JOINT VENTURE

SCALE 1:4000

100 0 400 800 1200 1600 Metres

400 0 1200 2400 3600 4800 6000 7200 Feet