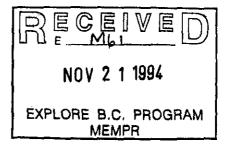
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IKS CLAIMS

1994 EXPLORATION and DRILL PROGRAM REPORT

NTS 104 B 9W

Property Owners:

Adrian Resources Ltd.

Project Operator:

Prime Resources Group Inc.

Submitted by: D.L KURAN P. GEOL. Sr. Project Geologist Homestake Canada Inc.

OCTOBER 1994 Distribution: File Copy Explore B.C. **(**



GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORT

24,608

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SUMMARY

During the 1994 field season, a total of 3531.7 metres of NQ sized diamond drilling was completed in six holes testing two target areas on the IKS 1 mineral claim. All holes, with the exception of ADL94-39, which bottomed in a previously unknown mafic intrusive, were completed to target depth and penetrated the target stratigraphy. Down hole Pulse EM was completed on four of these holes.

Holes ADL94-35,36 and 37 tested a possible fault offset extension to a northwest trending zone of 21B style mineralization intersected during the 1990 Adrian drilling program. The stratigraphy intersected at this position of the Eskay Anticline is very similar to the Eskay mine site bimodal volcanic suite but is complicated by normal faults. No anomalous base or precious metal values were intersected. Down hole EM failed to detect any off-hole conductors.

The second target area, tested by holes ADL94-38, 39 and 40, is defined by an airborne magnetic and deep IP anomaly and is on the northeast facing limb of the Eskay Anticline. Based on drill results, 21B footwall rhyolite is represented by thin brecciated flows (ADL94-38) or thin tuffaceous mudstones (ADL94-40). Both felsic and mafic flow units are absent or are distal facies equivalents and indicate the east limb is not underlain by typical 21B type stratigraphy. No anomalous base or precious metal values were intersected. Down hole Pulse EM detected a weak off-hole conductor in hole ADL94-38.

The 1994 exploration program on the IKS 1 mineral claim did not discover any new zones of ore grade mineralization and did not intersect any indications of mineralization that warrant further work in the near future. Due to the lack of positive 1994 exploration results, no further work is recommended in 1995.

To October 20, 1994 Prime and Stikine have spent more than \$600,000 on the claims in 1994, which effectively vests their 50% interest in the property.

1.0 INTRODUCTION

1.1 LOCATION and ACCESS

The IKS 1 and 2 mineral claims are in the Iskut-Stikine about 83 km north of Stewart, B.C. (Fig. 1.1, 1.5.2) where they surround the north end of the Eskay Creek mine site. The Snip Deposit is 37 km west and the Sulphurets property less than 30 km southeast of the IKS claims. Access to the main Eskay camp is via a 60 km long gravel road which turns off highway #37 a few kilometres south of Bob Quinn.

1.2 **PROPERTY TENURE**

The property consists of 42 units or 1050 ha in three claims; the IKS 1, IKS 2, and Cal 5 (Fig. 1.2). The IKS 1, IKS 2 and Cal 5 claims are in good standing until 2000, 2004 and 1995 respectively.

Agreements and Title. Prime Resources Group Inc has the option to earn a 50% interest in the IKS claims from Adrian Resources Ltd. through expenditures of \$5,000,000 by November 13, 1994.

1.3 PHYSIOGRAPHY, VEGETATION and CLIMATE

The IKS claims are located on a relatively gentle, east facing slope which is incised by the steep canyons of McKay and Ketchum Creeks. Elevations range from 650 m in the southeast to 1100 m in the northwest corner of the IKS 1.

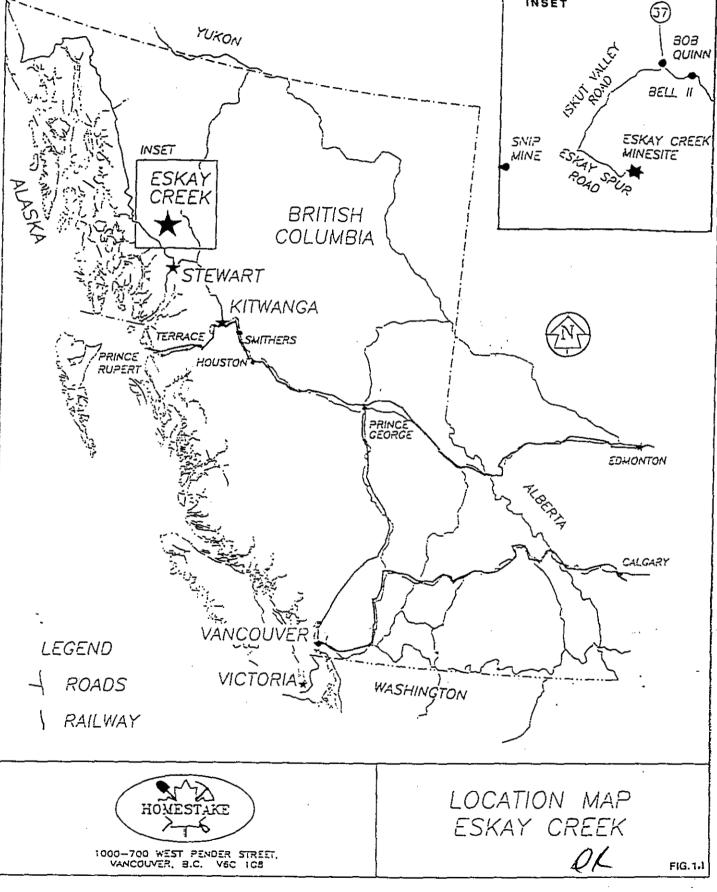
Vegetation varies with elevation; mature timber prevalent at lower levels adjacent to main drainages, changes to alpine grasses and scrub balsam at higher elevations.

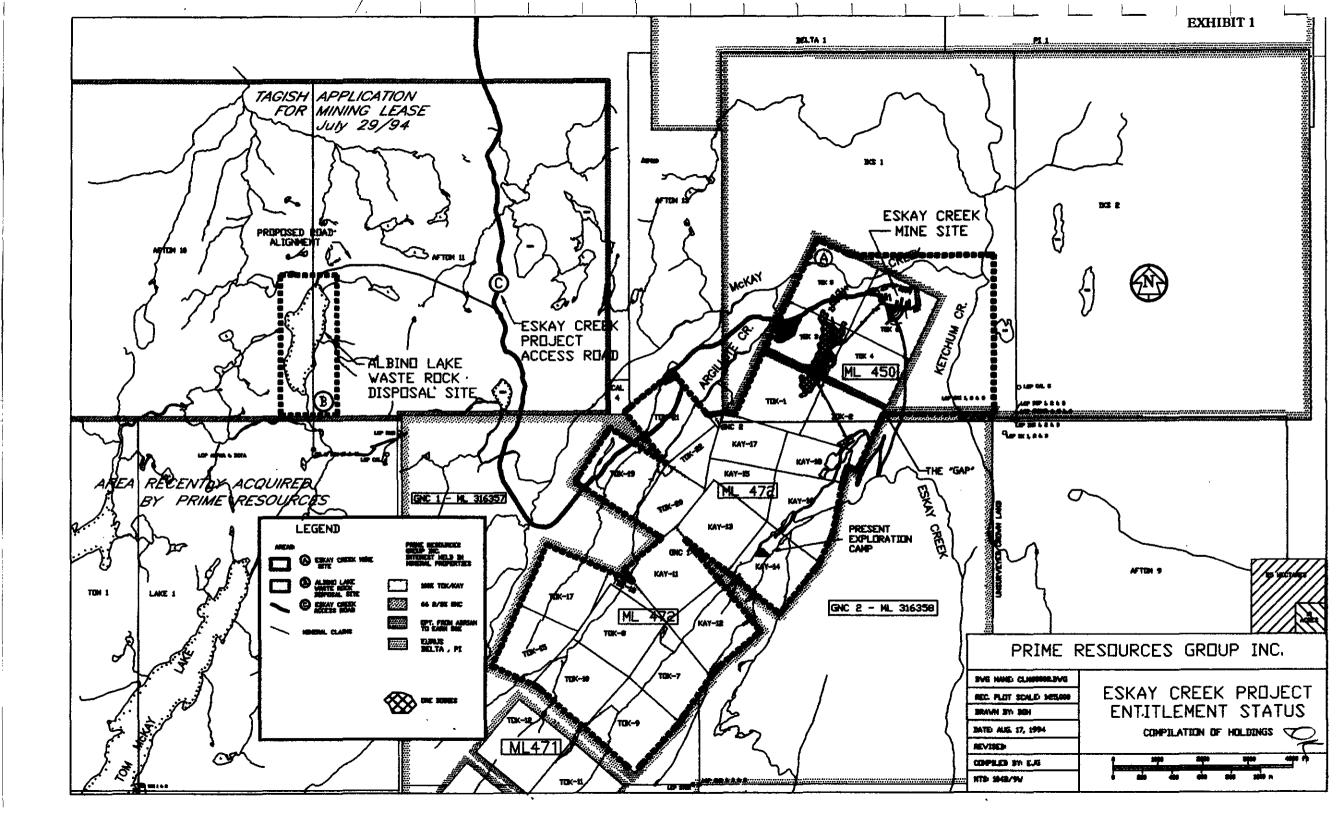
Annual precipitation in the area ranges from 2 to 3.5 m. Most falls between November and April, resulting in a 10 to 20 m accumulations of snow; heavy rains can be expected at almost any time during the remainder of the year.

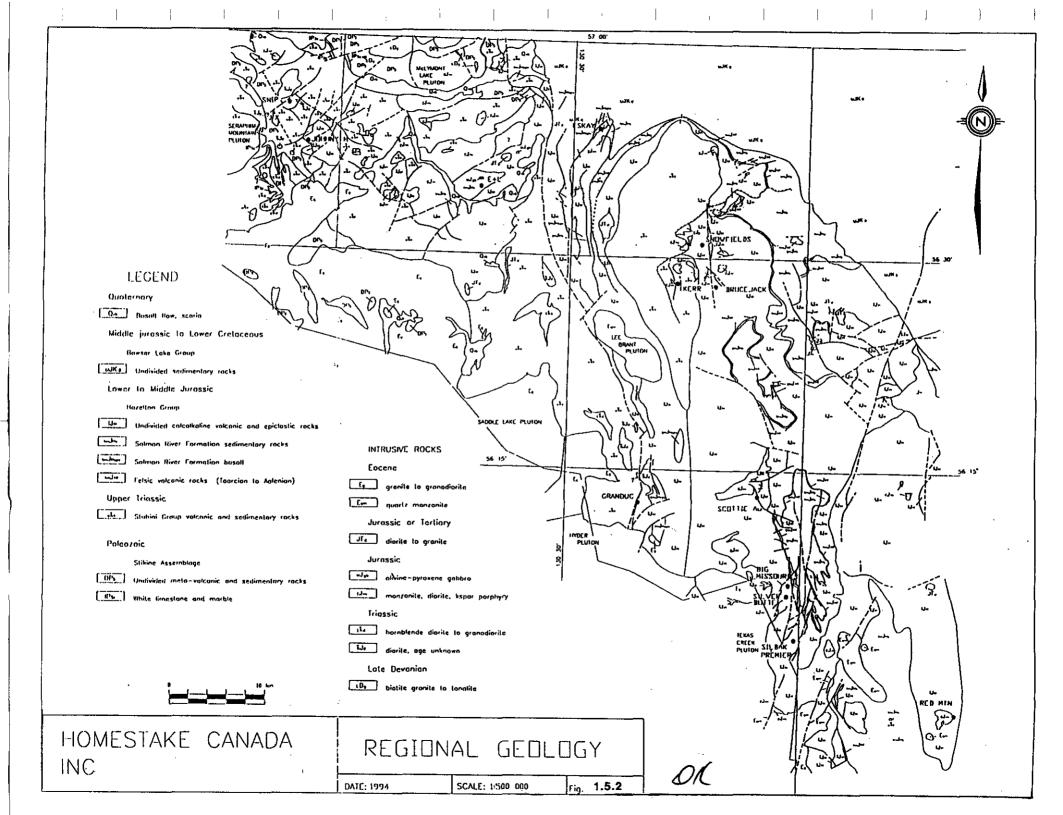
1.4 HISTORY AND PREVIOUS WORK

Au-Ag showings were discovered by Tom MacKay in 1932 on the Tok and Kay claims of the Eskay Creek property. These claims are located in the central portion of the IKS 1 (Fig.1.2). Since 1932, 12 companies completed a variety of exploration programs on the Eskay property and between 1963 to 1987 Stikine Resources Ltd (formerly Consolidated Stikine Silver Ltd) did minor work while holding mineral title. In 1988 Calpine Resources Incorporated optioned the property and discovered the 21A Zone. Continued exploration to mid-1989 eventually resulted in the discovery of the 21B Zone. During this time, Prime acquired a controlling interest in Calpine and assumed









management of the Eskay Creek project. Later in 1989 International Corona Corporation (now Homestake Canada Inc.) acquired an equity position in Stikine.

As exploration activity mounted at Eskay, Arc Resources Group Ltd optioned the IKS claims from F. Schomig in 1988. Later that year Arc optioned the property to Adrian Resources Ltd. who completed airborne geophysics, mapping and sampling and follow-up ground geophysics by the end of 1989. At this time, a legal survey of the Tok claims led to the discovery of the "Gap". In 1990 Adrian optioned the property to Prime Resources Group Inc, Stikine Resources Ltd and Calpine Resources Incorporated who further drill tested the Gap, as well as possible northern, down plunge extensions to 21B style mineralization.

During the same period Calpine merged with Prime, and in late 1993, Prime acquired Stikine via an exchange offer of Prime shares for Stikine shares. This resulted in Prime holding 100% of the Eskay Creek property and an option to earn a 50% interest in the Adrian ground.

Since 1988, a total of 188,411 m in 743 surface diamond holes have been drilled on the Tok/Kay and IKS claims. They include;

CLAIM	METRES	HOLE
Tok-Kay	167,000	708 holes (excluding underground)
IKS	21,807	35 holes (excluding the Gap)
IKS Gap	10,000?	approx. 50 holes or parts of holes

1.5. **REGIONAL GEOLOGY**

Lower to Middle Jurassic, island arc, calc-alkaline volcanics, sediments and coeval intrusions of the Hazelton Group are the main host to mineralization at Eskay. Key units on the property include the Betty Creek Formation which has been subdivided into andesitic tuffs, conglomerate, lithic wackes and debris flows of the lower East Ridge Member and coarse intermediate epiclastic rocks and minor mudstone, limestone and conglomerate of the upper Eskay Creek Member.

Dacitic pyroclastic flows, tuffs and locally ignimbrites of the Mount Dilworth Formation overlie the Betty Creek Formation and are probably a key regional metallogenic marker.

Basaltic andesites, intercalated mudstones and two cycles of felsic volcanism of the Salmon River Formation overlie the Dilworth and are overlain by sediments of the Bowser Lake Group (Fig. 1.5.4, 1.5.1)

1.5.1 PROPERTY GEOLOGY

The bulk of the 21B Zone stratiform mineralization lies near the base of the contact mudstone at the top of the lower rhyolite of the Salmon River Formation (Fig.1.5.3). Other possible stratiform mineralization occurs above the stratigraphic position of the 21B Zone-in the Hanging Wall Zone at the top of the contact mudstone. Discordant footwall mineralization occurs in the 109 and the Pumphouse/Pathfinder Zones where it may represent vent or feeder zones to the Hangingwall and 21B mineralization, respectively.

The various zones occur within the Eskay Anticline and plunge moderately across McKay Creek onto the IKS claims to the north (Fig.1.5.3) where they are covered by several hundred meters of post-mineral Bowser Group sedimentary rocks.

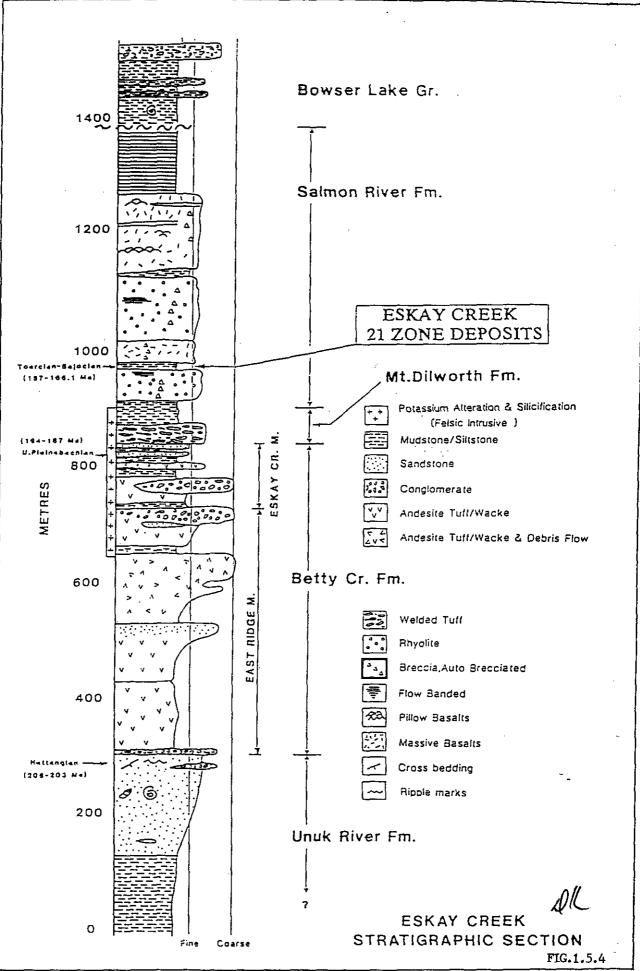
Regional scale fold hinges change from a dominantly northeast strike in Hazelton Group units south of McKay Creek to northwest in the younger Bowser Group units north of the Creek. An orthogonal fold event, east-west cross faults or a shallow angle fault between the two main rock units might account for this change in fold attitudes. Elevation isopleths of the top of the rhyolite intersected in drill holes on the IKS claims grossly mimic fold trends indicated in the overlying Bowser Group. This suggests fold events north of McKay Creek affected both Bowser and at least the top of the Hazelton Group strata. A better understanding of structural features in the Bowser Group units could be a useful aid to blind targeting of mineralization in the underlying Hazelton Group strata.

Reserves. Probable mineable reserves at Eskay are 1.08 million tonnes of 65.5 gpt Au, 2,930 gpt Ag, 5.6% Zn and 0.77% Cu, using a 0.4 opt Au cutoff, and 27% mining dilution (or 1.19 million tons of 1.91 opt Au, 85.5 opt Ag).

2.0 THE 1994 EXPLORATION PROGRAM

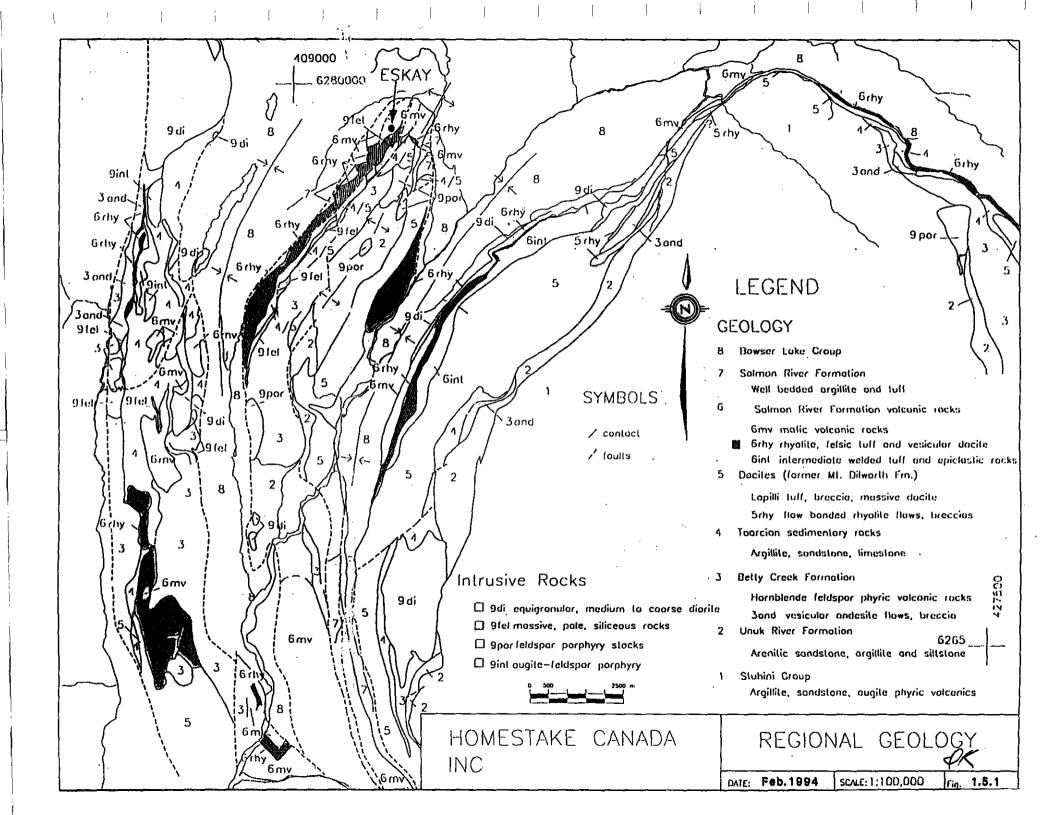
2.1 INTRODUCTION

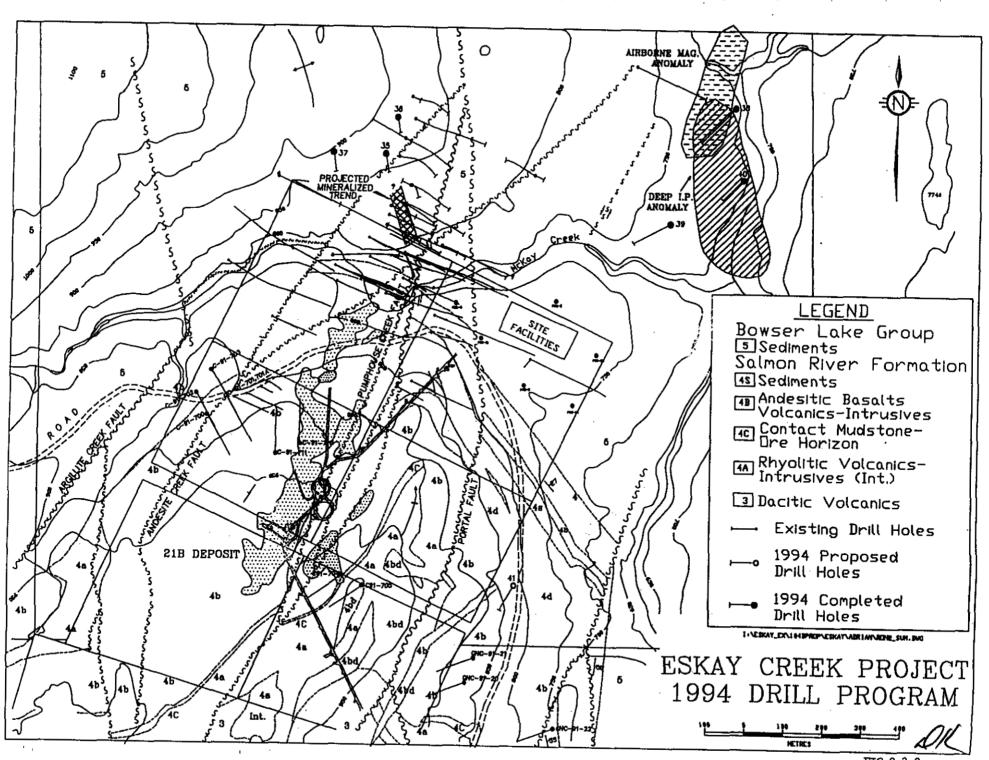
From June 20 to October 14, 1994, a total of 3531.7 m of NQ sized diamond drilling was completed in six holes on the IKS 1 claim (Table 2.1). Down-hole pulse EM surveys were completed on all or parts of 4 holes.



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FIG.2.3.2

HOLE #	AZIMOTEP	DIP	LENGTH m.
ADL94-35	170	-87.00	556.56
ADL94-36	170	-87.00	553.21
ADL94-37	170	-86.00	553.00
ADL94-38	225	-77.00	625.77
ADL94-39	215	-85.00	644.35
ADL94-40	235	-80.00	628.80
TOTAL	· ·		3561.70

TABLE 2.1 1994 DRILL HOLE SUMMARY

A twenty person tent camp located on the GNC 1 claim about 1.4 km southwest of the IKS 1 and at km 56.2 on the Eskay Creek mine road provided accommodation for all personnel working on the program. Satellite communications were mainly via existing facilities at the old Eskay Creek exploration camp.

Northern Mountain Helicopters of Prince George B.C. were awarded a contract which required a Hughes 500D helicopter based at the camp. Advanced Drilling of Surrey B.C., were awarded the drill contract and utilized a Boyles 37A diamond drill in early parts of the program. A second drill was mobilized to the site by mid September to help complete the program on a more timely basis. Sperry Sun orientations were taken at 100 m intervals in all holes.

Geologically selected sample intervals were sawn or split and sent to Bondar Clegg and IPL laboratories, both of Vancouver. Samples were analyzed for Au, Ag by fire assay and Cu, Pb, Zn, As, Sb and Hg by ICP.

Geocoded core logs were entered directly into a portable computer enabling further processing by Micromine and Autocad software. The core was logged and stored at the core shack adjacent the old exploration camp. Core logs are in Appendix 1; assay certificates are in Appendix 2.

2.2 **1994 PROGRAM**

The 1994 program involved data compilation and interpretation of previous drill results and mapping on the Adrian ground to the north of the 21B Zone. This work indicated two areas, covered by 300 to 500 m of Bowser Group sediments, warranted drilled testing. They included Target One, a northwest mineralized trend on the west margin of the IKS claim and Target Two, an IP chargeability and magnetic anomaly on the east side of the IKS claim and north of the mill site area (Figs. 2.3.2a, 2.3.2).

To the south of Target One, analysis of data from previous drill holes allowed construction of elevation isopleths of the upper contact of the footwall rhyolite unit (Fig. 2.3.3). The contours were found to mimic structural trends based on surface maps of the overlying Bowser Group sediments and indicated similar deformation affected both the Hazelton and Bowser Group units. Major faults were also reconstructed to help estimate the direction and magnitude of offset of mineralized zones across the fault zones.

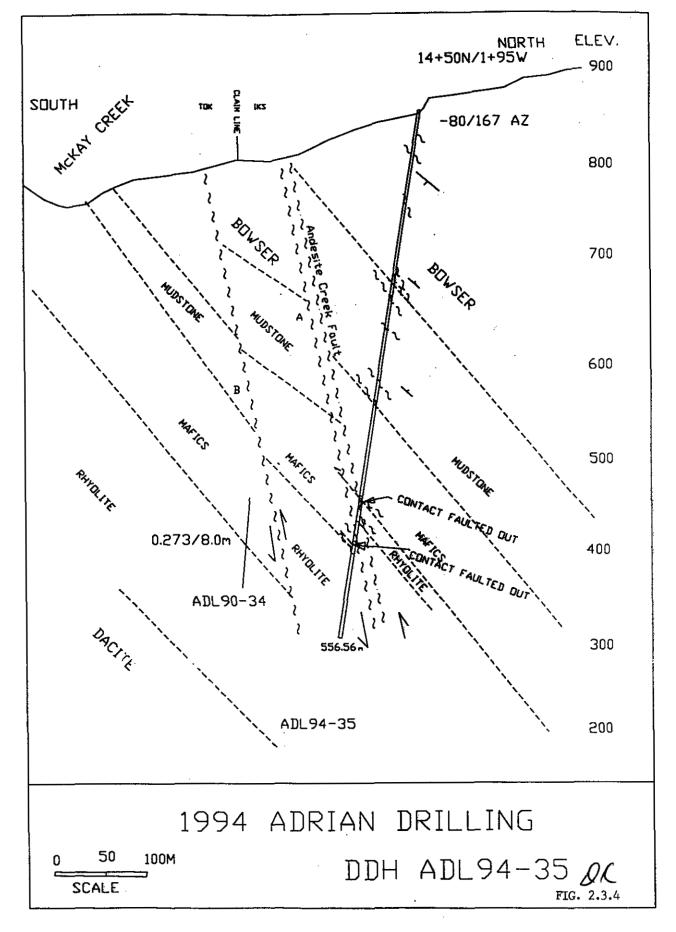
Three holes tested each of the two main target areas. Drill hole results are summarized on (Figs. 2.3.4 to 2.3.8) in the text as well as detailed sections (Figs. 2.3.4 to 2.3.9 in pocket). Detailed logs are in Appendix 1.

2.2.1 TARGET ONE

Target One, the northwest faulted extension of the mineralized trend intersected by 1990 drilling, was drill tested with three holes ADL94-35, 36 and 37 (Figs. 2.3.4,5 and 6).

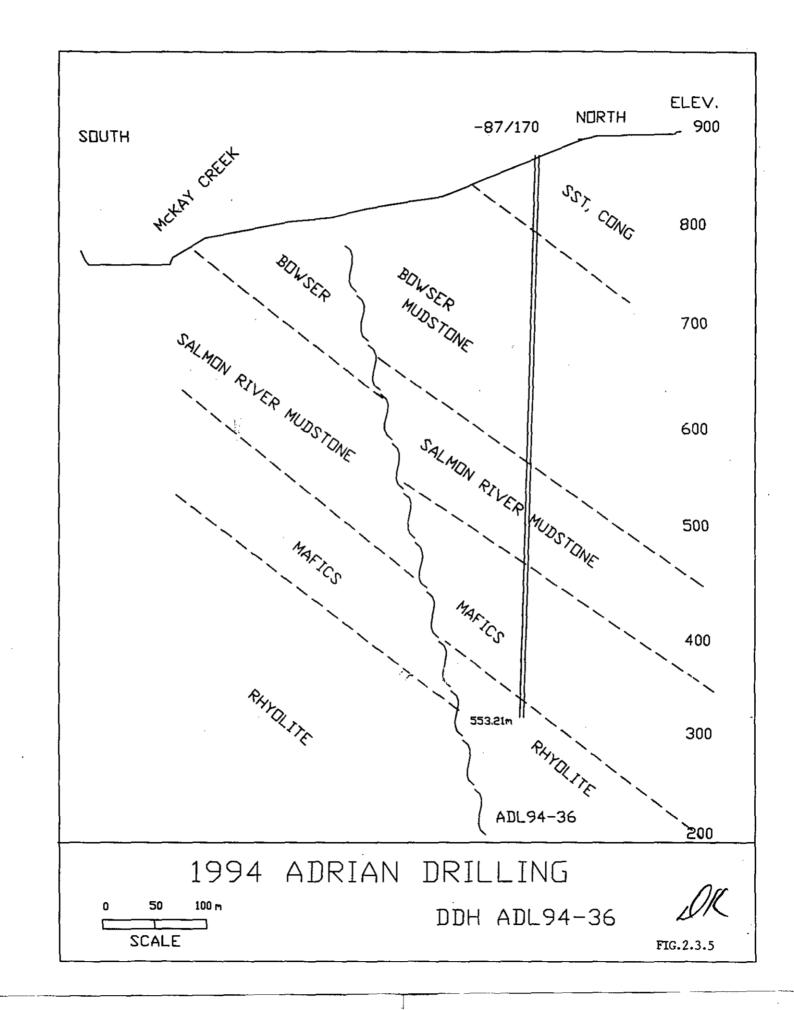
Hole ADL94-35 was designed to intersect the proposed down dip extension of mineralization intersected in hole AD90-34. Hole 34 returned 0.273 opt Au over 8.0 m (Fig. 2.3.4) from a zone in the footwall of the Andesite Creek fault. The upper rhyolite contact isopleths were used to predict the offset caused by the Andesite Creek fault but did not predict a second deeper subparallel fault which appears to have a component of reverse movement of about 100 m. The contact zone on opposite sides of the Andesite Creek fault is severely faulted and thinned on the northwest side and displaced upwards on the southeast side of the fault.

Hole 94-35 intersected 198.0 m of Bowser Group silty mudstone overlying fault repeated mudstone and mafic flows and more typical bimodal mafic to felsic Salmon River Formation volcanics. Below these volcanics, the footwall rhyolite consists of a felsic, sand matrix, supported blocky ash flow which overlies flow breccias typical of the 21B mine stratigraphy. The rhyolite is strongly silicified, weakly sericitized and is unmineralized.

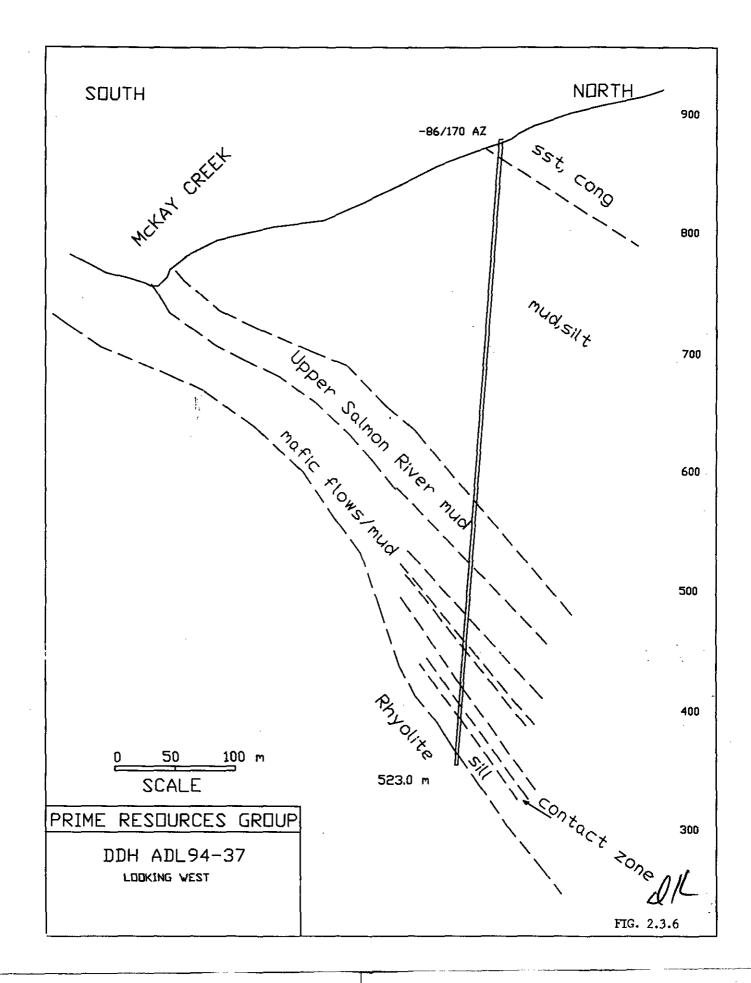


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Pyritic sections of the upper Salmon River mudstones, intercalated middle Salmon River mudstone as well as the contact zone and footwall rhyolite were sampled. The highest Au value returned was 20 ppb; Cu, Pb, Zn, Ag, As Sb and Hg, were uniformly low.

Hole ADL94-36, collared on the footwall side of the Andesite Creek fault, was designed to intersect a possible fault offset of the down rake extension of the mineralized trend defined by the 1990 drill results. The hole intersected 299.98 m of Bowser Group conglomerate, sandstone and mudstone before penetrating upper pyritic laminated mudstone, mafic flows and sills and the footwall rhyolite of the Salmon River formation. The contact mudstone, between 533.68 and 536.66 m, contains well laminated to bedded pyrite but no significant base or precious metals. Gold averages 30 ppb in the hole. The highest Au value in the hole of 191 ppb is from a 2.0 m interval (sample # 24450) of pyritic laminated mudstone within mafic flows. This interval occurs at 425.6 m depth, about 110 m above the position of the rhyolite and contact mudstone, and is also anomalous in Zn, Ag and Sb.

Hole ADL94-37, north of the previous holes, was designed to penetrate untested permissive ground at right angles to the stratigraphy, based on the upper rhyolite contact isopleth map. The hole intersected a bimodal Salmon River volcanic suite similar to that at the mine, which is overlain by 303.6 m of Bowser Group sediments. A 5.3 m section of contact mudstone contains altered rhyolite fragments and is separated from the footwall rhyolite by a mafic sill. This sill has weakly bleached and hardened the mudstone. The underlying rhyolite consists of strongly silicified black matrix breccias. No mineralization is present in the rhyolite.

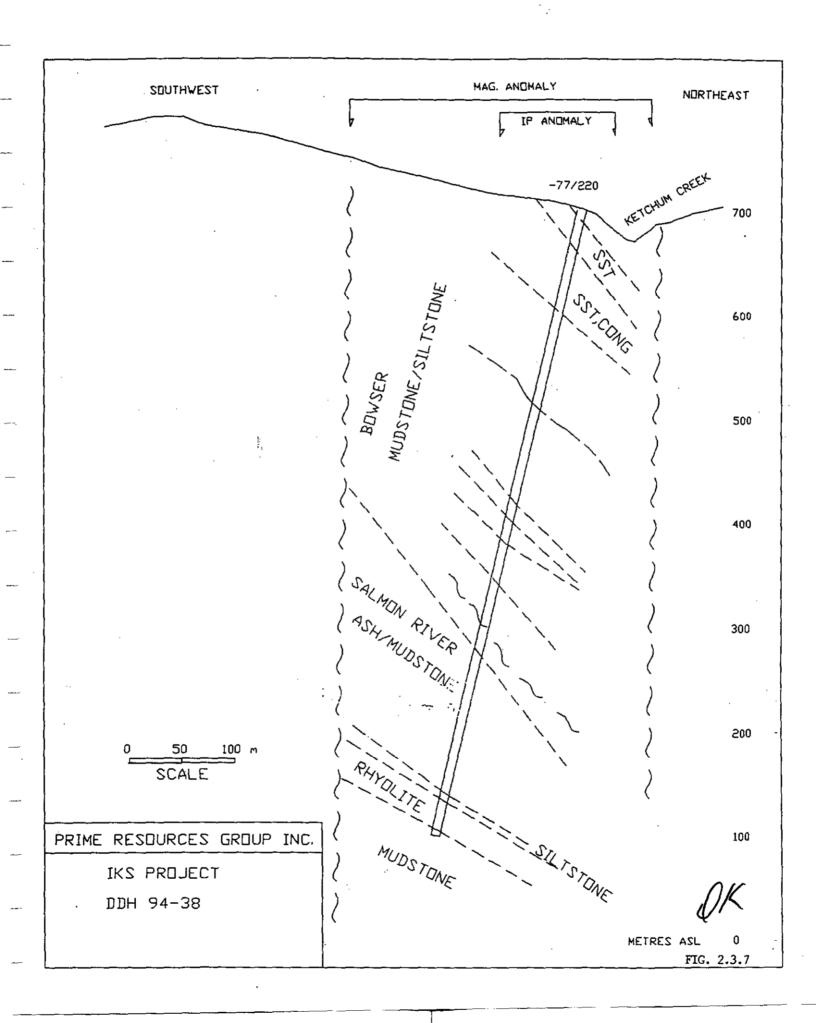
The most significant assay in hole 37 is from the contact mudstone which returned 59 ppb Au and 1038 ppm Zn over 1.6 m.

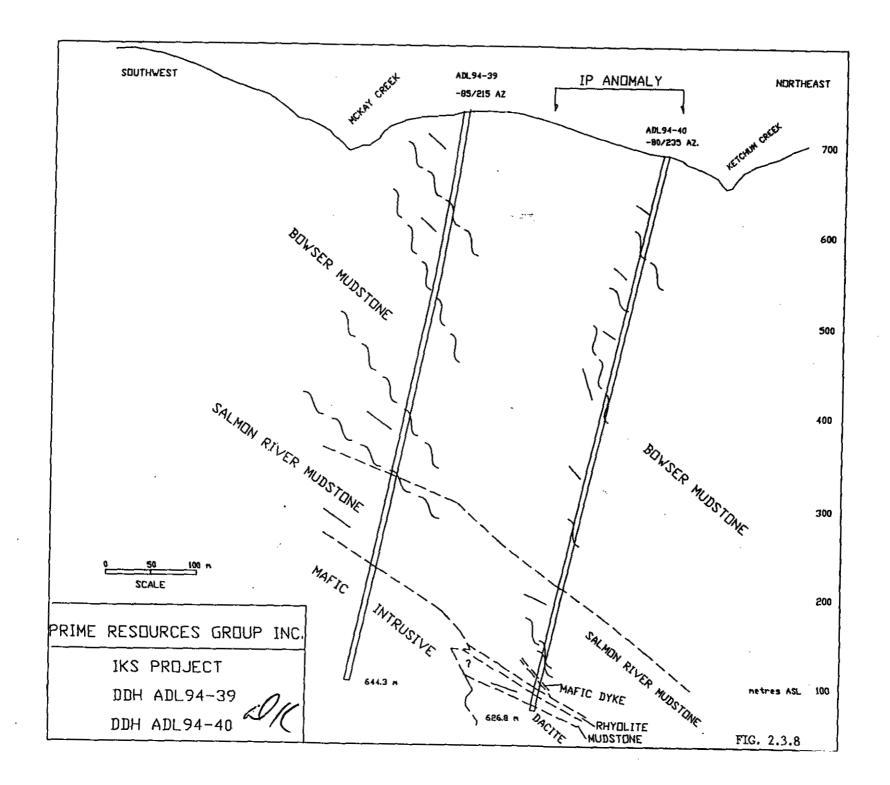
2.2.2 TARGET TWO

Target Two, the area of the chargeability-magnetic anomaly located north of the mine site facilities, was tested with holes ADL94-38 to 41. Holes are summarized on Figures 2.3.7 to 2.3.8 and detailed sections are on Figures 2.3.7 ato 9a.

Hole 38 tested the coincident magnetic and chargeability anomaly in the northeast corner of the IKS claim. It intersected 139 m of upper Salmon River ash and pyritic mudstone that is weakly anomalous in Au, Ag and Zn. The hole did not intersect mafic volcanics or intrusives, but did penetrate a 4.3 m of siltstone above the contact of rhyolite flow breccias and volcaniclastics rocks measuring 20.2 m thick. No obvious mineralization was noted and there were no significant values from sampled intervals. The magnetic anomaly remains enigmatic.

Holes 39 and 40 were drilled roughly on the same section with hole 40 near the centre of the chargeability anomaly, whereas 39 is southwest of the anomaly in a relatively untested area north of McKay Creek. Both holes penetrated significant thickness of upper Salmon River mudstone that contain laminated pyrite (Fig. 2.3.8). Lower parts of the holes are dramatically different.





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Hole 39 entered a mafic intrusive at 515 m and stayed in this unit until the end of the hole at 644 m. Hole 40 intersected 6.9 m of muddy felsic tuffs, then 15.4 m of underlying mudstones before penetrating a short distance into dacitic volcanics at the bottom of the hole. Mudstones below the rhyolite are weakly anomalous in Au, Zn and Sb. Neither hole contained obvious mineralized zones and assay results are low.

The IP chargeability anomaly probably reflects the abundant laminated pyrite in the upper Salmon River mudstone sequence.

3.0 GEOPHYSICS

Between October 9 and October 14, 1994, Delta Geoscience Ltd. Of Delta B.C conducted a down hole Pulse EM survey on four of the six 1994 drill holes. Prior to the survey, flush coupled PVC pipe was inserted into the holes to help prevent caving and loss of access. Computer strip logs of the various frequencies tested are in Appendix 4.

In Target One, holes ADL94-35 and 36 were probed. Hole 94-35 was tested from 230 m to 430 m, where the plastic pipe had been squeezed, preventing further penetration of the probe. This depth corresponds to the Andesite Creek fault zone. A minor conductor, detected at 415 m is the upper surface of the Andesite Creek fault Zone which truncates the contact zone.

Hole 94-36 was tested from 210 m to 360 m where again the plastic pipe was damaged by faulted ground located in the centre of the upper Salmon River mudstones. The pyritic contact zone could not be probed. No conductive material was detected in this hole.

In Target Two, holes ADL94-38 and 40 were probed. Hole 94-38 was tested throughout the entire length of the permissive stratigraphy between 320 and 600 m. A weak off-hole conductor at 590 m detected on the 1798 Hz channel probably reflects minor pyrite veins in the silty transition zone.

While probing, moderate pressure gas was noted escaping outside the plastic pipe in the hole. The gas, probably carbon dioxide, was expelled with bursts of water for a period of several minutes to a height of 15 m above the collar.

Hole ADL94-40 was tested between 200 and 500 m due to blockage of the pipe. The lower end of the survey tested the upper Salmon River mudstone but did not test contact zone strata. Weak-off hole noise was detected on the higher frequency at this depth.

4.0 WHOLE ROCK GEOCHEMISTRY

Rhyolite flows or tuffaceous equivalents were analyzed for major element oxides. Al_2O_3/TiO_2 ratios range from 97.5 to 160.9 which fit with the rest of the 21B footwall rhyolite values indicating a titanium depleted parent rock. The potassium is predictably low but the Na is lower than the 21B footwall rhyolites. Low MgO, indicates a lack of chloritic alteration characteristic of the 21B footwall alteration. Sample 9439593.0, from hole

ADL94-39 at 593.0 m, is a mafic intrusive that has similar chemistry to the Salmon River mafic flows overlying the 21B deposit and may be a feeder dyke. Whole rock analytical certificates are in Appendix 3.

5.0 CONCLUSIONS and RECOMMENDATIONS

The 1994 drilling program on the IKS 1 mineral claim tested two target areas for 21B style stratiform precious and base metal deposits. Testing of the Target One area on the western portion of the claim intersected typical 21B style bimodal mafic overlying felsic volcanics. The 21B "contact zone" stratigraphic interval in this target area is not mineralized and is fault complicated. No significant precious or base metal assays were returned from core. The footwall rhyolite is lithologically similar to rhyolites beneath the 21B deposit but lacks any mineralization and are only weakly sericite or chlorite altered.

Lithologies intersected in the Target Two area, on the east limb of the Eskay Creek Anticline indicate a significant change in stratigraphy from the 21B or Target One area. The thick hangingwall mafic flows are totally absent from the stratigraphy and the footwall rhyolite is represented by thin brecciated rhyolite, possibly flows (ADL94-38) or volcaniclastic distal equivalents containing intercalated felsic tuffs and silty mudstone(ADL94-40). The thick mafic intrusive intersected in the bottom of ADL 94-39 may mark the eastern boundary of a second order paleobasin which restricted the northward and eastward deposition of the volcanic lithologies hosting the 21 Zone deposits.

The lack of anomalous base or precious metal values, high density of mafic dykes, structural complications and depth to permissive stratigraphy downgrades the Target One area as a priority exploration target. A lack of thick bimodal volcanics of Salmon River downgrades the exploration potential of Target Two.

Bore hole geophysics failed to detect any off hole conductors which warrant further drill testing.



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STATEMENT OF QUALIFICATIONS

I. DAVID L. KURAN of 25630 Bosonworth Avenue, in the municipality of Maple Ridge, British Columbia, hereby certify that:

- 1. I am a graduate of the University of Manitoba(1978) and hold a B.Sc. in Geology.
- 2. I am a fellow of the Geological Association of Canada.
- 3. I am a Member in good standing of the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
- 4. I have been employed in my profession as an Exploration Geologist in Canada, U.S.A., and Mexico since graduation.
- 5. I am presently employed by Homestake Canada Inc. of 1000-700 West Pender St., Vancouver, B.C. as a Senior Project Geologist.
- 6. The work described in this report was personally supervised by the author in the field.

7. I consent to the use of this report concerning a portion of the 1994 diamond drilling program, carried out on the IKS mineral claims in the Skeena Mining Division for all corporate purposes relating to Prime Resources Group Inc., Homestake Canada Inc., and Adrian Resources Ltd.

Signed at Vancouver, British Columbia this day of November 1994.



APPENDIX 1

CORE LOGS

PROJECT: Adrian 1994	. •	Daté Commenced: JULY 26/94	Contractor: ADVA	NCED DRILL	ING	Logged by: DLK	
DRILL HOLE: ADL9435		Date Completed: AUG. 8/94				Geotech by: JL	
LENGTH: 556.56	·	Core Diam: NQ					
Collar Location							
Latitude: 20143,00 Departure: 22013,00 Elevation: 857.00							
	S U H I	HARY	Depth	DOWN HOL Azim	E SURVEYS	Nethed	· · · · · · · · · · · · · · · · · · ·
0.00-6.32 6.32-53.30	CASING				Inclin		
53.30-123.05	LAMINATI	ED MUDSTONE ED MUDSTONE	0.00 91.00	170.00 0.00	-87.00 -90.00	BRUNTON Sperry Sun	
123.05-124.50	SILTSTO	NE	182.00	0.00	-90,00	SPERRY SUN	
124.50-131.00 131.00-134.00	INTERBE	DDED MUDS./SILISTONE	275.00 365.00	249.00 232.00	-87.20 -86.50		
134.00-160.30	LAMINATI	ED MUDSTONE	457.00	213.00	-86,00		
160.30-170.35 170.35-185.30	INTERBEI LANINATI	DDED HUDS./SILTSTONE	553.00	210.00	-86.50	SPERRY SUN	
185.30-198.00	MASSIVE	MUDSTONE					
198.00-257.60 257.60-263.96		ED HUDSTONE					
263.96-313.90	LANINATI	ED MUDSTONE					
313.90-322.80 322.80-323.50	LAMINATI	ED HUDSTONE	•				
323.50-324.60	LAMINATI	E FLON ED NUDSTONE					
324.60-351.60	ANDESITI	E PILLOW BRECCIA					
351.60-352.60 352.60-369.00	ANDESIT	E DEBRIS FLOW E FINN					
369.00-372.70	LAHINATI	ED MUDSTONE					
372.70-381.00 381.00-393.90	ANDESITI	E PILLOW BRECCIA					
393.90-398.00	ANDESITI	E BRECCIA					
398.00-399.65	MAŚSIVE	MUDSTONE					
399.65-405.90 405.90-408.70							
408.70-410.00	ANDESIT	E PILLOW BRECCIA					
410.00-411.15 411.15-413.45	ANDESITE	NUDSTONE E DYKE/INTRUSIVE					
413.45-415.75	MASSIVE	HUDSTONE					
415.75-437.10 437 10-437 FO	AUTOBREC	CCIATED RHYOLITE FLOW E DYKE/INTRUSIVE					
437.50-439.80	AUTOBREC	CCIATED RHYOLITE FLOW					
439.80-444.50	ANDESITE	E BRECCIA					
444.50-451.50 451.50-454.80	ANDESITE RHYDLITE	E DEBRIS FLOW E BLOCKY ASH FLOW					
454.80-528.40	AUTOBREC	CIATED RHYOLITE FLOW					
528.40-545.50 545.50-554.54	FLOWBANE AUTOBRE	DED RHYOLITE FLOW CCIATED RHYOLITE FLOW					
	NOTOREL	WINIED KRIDEITE FLUM					

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FROM	TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	sb ppm
0.00	6.32	CASING												
6.32	53.30	bedding 62 :Vns =1/m 1% qz veini 1% pyrite Badly broke with inter Laminations contains no on fragment or carbonat	dark gray, laminated, broken °:fracturing 45° ing - stockwork	- 2 ³	•									
		7.92-8.23	Crushed zone, minor sand						i					l
		11.0-11.5	5% quartz/carbonate veining 230 deg.											
		13.8	Belmenite, bedding at 40 deg.											1
		17,1-17.8	Crushed zone, 1% 2 mm quartz stringers											
		23.5	Fine graded silt bees 0 40 deg.											
		27.9-28.05	Fault zone, minor acuge, 25% quartz veins.											
		34.5	Beds a 45 deg.											
		36.3	20 cm cave.											
		38.0	2x4 cm very fine grained pyrite concretion.					{ }				i		
		39,2-39,7	Sheared, moderate foliation @ 45 deg healed by fine quartz/carbonate veins.											
<28.	40-29.90	bedding frs=30/m 1% silic .1% chlo 1% qz ve .5% carb .2% pyri	c, dark gray, rubbly, crushed 30°:fracturing 15° : Yms =3/m a alteration - microveins rite alteration - coatings ining - stockwork onate veining - stockwork te - present rubble core, abundant slick surfaces, minor			-								1

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Factor	**										IAU	4 4 01 4		
FROM	to		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	2n ppm	Cu ppr	As pp	a Hg ppr	Sb ppm
		gouge.				1	1			1		†	<u> </u>	†
<32.0	00-33.50	> Aphanit Badly brok carbonate.	ic, dark gray, rubbly, crushed en and rubbly, slickensides are graphite and											
•	80-53.30	:fractu Fra=50/ 5% sili .1% chu 1% carb 5% qz vu 2% carb 2% qz-cu Thick sect qc breccia	ic, dark gray, rubbly, crushed ring 15° m :Vns =6/m ca alteration - present onite alteration - coatings eining - macroveins onate valing - coatings arb valing - macroveins ion of rubble and gouge, numerous enastimosing veins and veins.		-									
53.30	123.05	bedding 78 Frs=10/s :\ 3% silica a 1% clay ali .5% graphii Thick unit Unit fairly banded blac	black, laminated, bysken igz_carb veining 40f											
		53.3	Beds & 62 deg.											
		53.5-53.7	10% .5 cm qtz veins 8 30 deg.											
		58.60	Beds & 15 deg.			1								
		59.0-60.7	Rubble, graphitic slip surfaces.	} {										
		62.4	2 cm ribbon QC vein 0 20 deg.			{ }		1	}					
		62.7	Beds 8 50 deg.					}						
		63.2-64.1	Sheared zone, contorted beds, 15% stockwork qc veins and blebs.											
		66.0-66.15	Fault, graphitic slips & 47 Deg.								1			
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FROM TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	As ppm	Pb ppm	Zn ppn	Cu por	As ppm	He por	sb por
	67.5	Faint grain size difference defines bedding 8 90 deg.											1
	71.0 overiyi deg.	1 cm bed of laminated white carbonate ing very fine greenish-grey silt 0.90											
	71.7-71.8	Quartz/carb breccia vein 2 83 deg, contains 1 1 mm brown sphalerite grain.											
	72.0-73.0	Broken core, 15% quartz/carbonate breccia vein healed.		-		}							
	73.5	5 cm black sandy gouge 2 90 deg.								}			
	79.0	1 cm very fine light grey beds 2 86 deg.			Ì					{ .			
	80.5	ó cm qtz/carb breccia vein a 90 deg.											[
	85.1	Hairline faults are east-west trending, dipping south 0 35 deg and offset laminated beds on a cm scale down to the south.		·									
	92.75	2 cm qtz vein 8 75 deg.											
	93.2-94.0	Trace fine pyrite disseminated along carbonate bearing silty beds.											
	95.1	5 cm breccia vein, quartz on outside is earlier than light grey carbonate filled core.											
	97.0	3 cm light grey slightly calcareous beds separated by 3 mm black mud 2 84 deg.											-
	Unit getti thick sepa size.	ng slightly coarser, lighter grey beds to 3 cm rated by 1 cm black mud beds are up to fine silt											•
	104.0	1 cm fine pyrite concretion, beds @ 78 deg.										1	
	105.9-106.1	l Shear, broken core, graphitic slips 8 27 deg.											
	108.0	Shear, 30 cm broken dore, graphitic slips @ 15 deg.											
	109.0	Beds @ 66 deg.						· ·					

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FROM	TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu pon	As por	Ha por	Sb ppm
		bedding 77°: fault/gouge 30°			+	 -							
		Frs=10/m :Vns =3/m			1	{	4	{	<u> </u>	1	1	1	
		1% carbonate alteration - coatings			1	1	ł.	!		ļ		1	
		4% qz veining - mecroveins		1	1	1		1	1	Į –	Į –		1
		4% qz-carb veining - macroveins		1	1	1	4	1	l	ŧ –	1	1	1
		Finely laminated to banded interebedded black mudstone and		1	ļ	1	1	l	l	l	1	[1
		fine dark grey siltstone. Unit broken and contains fault	ļ		l	1	l I	[[1	1
		zone.			{		1	l	[1	1	1	1
				-	1	· .	1	{	{	ł	1	{	ļ
. <126	.50-127	.80> Aphanitic, black, rubbly, crushed			{	}	1	ł		6		{	}
		fault/gouge 30°	1		•	1		ł	{	ł		{	}
		Frs=35/m :Vns =6/m			1	{	}	{	{		{	}	ļ
		3% carbonate alteration - present	1 1		1	ſ	ſ		· ۱		4		ļ
		5% clay alteration - gouge			{	{	{				{	{	ł
		10% qz-carb veining - macroveins			{	{	{				1		1
		Fault zone, upper and lower graphitic slips and clay gouge			{	[{ .				[1	
		8 30 deg. Center of zone healed by qc breccia veins.			{						ł	ļ ,	1
131.00	134.00	INTERBEDDED MUDS./SILTSTONE			} .	•							{
		Fine grained, dark gray, bedded, laminated				1					1	4	ļ
		bedding 77°:fracturing 30°				•					{	{	{
		Fra=5/m	{ }		{								{
		Rhythmically interbedded dark grey mudstone and light grey			{	ļ						· .	Į
		1-3 cm fine graded silt beds. Bases of silty layers show	{ {		{	ļ	{						l
		good load casts, minor scours and cross beds all	{ {		{	[ŀ .		l
		indicating tops are up hole.	{ . {		{								
		indicating tops are up note.	{ {		{	i i							[
134.00	160.30		\$		}		-						ļ
		Dark gray, bedded, Laminated	j j		}		1						
		bedding 75°:fracturing 45°	1 1		1						[
		Fra=50/m	5 5		{								
		2% carbonate alteration - microveins	1 1		{ }								
		2% clay alteration - gouge			{								
		2% graphite - coatings			{ }								
		2% qz veining ~ macroveins			{ {			. (. (
		4% qz-carb veining - macroveins	4 4	,					. (
		Thick section of well bedded, finely laminated interbedded	4 4							.			
		fine mud and slightly silty mud. Contains rare .5 cm verv			1 1		Į						
		fine light grey ashy layers with minor very fine pyrite.			1 1								
		Interval is cut by several sheared zones and minor qc											
•		veins, Base of silty layers show loads and flames.							1				
		134.7 Bedding 8 76 deg.											
		135.7-136.0 Fault, rubble and gouge zone.											
		139.54 1 cm ac vein 8 50 deg. (60 to the porth) has							1		ļ	1	
		139.54 1 cm qc vein 2 50 deg, (60 to the north) has					. (1	- 1	

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														<u></u>
FROM	TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	sb ppm
			tension tears adjacent indicating a motion of down to the south.			}								
		141.25	3 wm pyrite lam.			1	}							
		146.5	8eds 2 56 deg.				{					ł		
		149.0	Cross beds.				{	1						
		150.4-150.	7 Rubble	8 L.				ļ						
		151.2	30 cm bedding parailel gougy shear 8 82 deg.			1		ł						
		154.0	Seds & 65 deg.			}					:			
		fault/g Frs=50/ 4% clay 4% grap 4% qz-c Wide fault clay hosti and lower	alteration - gouge hite - coatings arb veining - macroveins zone with narrow gouge zones of black graphitic ng contorted qc veins and broken veins. Upper contacts sharp @ 40 and 55 deg respectively.											
160.30		Black, bed bedding 37 Frs=11/m 1% carbona .5% clay a 2% qz-carb Interbedde calcareous beds 1-10 Bases of s beds. Unit graphitic 1	D NUDS./SILTSTONE ded, laminated *ifracturing 40* te alteration - present lteration - gouge veining - microveins d fine laminated mudstone and slightly graded light grey medium to fine silt. Silt cm thick separated by 1-3 cm laminated mudstone. ilt beds show loads, scours and minor cross is weakly sheared and contains numerous bedding parallel slick surfaces. Lower contact d fault gouge.											
170.35	185.30	bedding 48 Frs=75/m 4% clay ali 2% graphito	NUDSTONE black, bedded, rubbly ":fracturing 30" teration - gouge a - coatings ing - macroveins											

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FROM TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	sb pp
	Poorly L	rb veining - macroveins aminated, finely bedded mudstone. Unit badly d with numerous narrow gouge zones and minor qc											
	170.35-1	70.6 Fault, graphitic gouge @ 50 deg.							}	}]		
	173.8	5 cm gouge zone 9 80 deg.				1		}	ļ		Ì		ļ
	174.4	4 cm light grey very fine ash band with 3% fine black particles. Basal 1 cm of this bed is a ribboned silia layer precipetated as part of the bed. Bedding 9 48 deg.											
	181.3	.5 cm light grey ash layer with .5 mm lams of fine silica a 70 d∈g.			{								
<174.50-1	beddir Fra=75												
	Wide faul and graph	t zone containing abundant gouge zones, rubble nitic slip surfaces 2 38 deg.											
	177.2-177	14 Gouge, lost 60 cm core.									, i		1
<181.80-1	beddir Frs=75 3% cla 1% qz- fault z <i>o</i> n	itic, black, rubbly, graded ng 72°:fracturing 30° 5/m :Yns =2/m y alteration - gouge carb veining - macrovoins w, core badly broken, contains descrete zones of ny gouge and graphitic Rijp surfaces.									•		
	182.3-182	2.7 Gouge		• •									
	184.0	7 cm gouge in 60 cm broken core											
.30 198.0	bedding 7 Frs=50/m 4% silica 3% clay a 2% graphi	UDSTONE , black, massive, rubbly 5°:fracturing 34° alteration - macroveirs lteration - gouge te - coatings ning - macroveins											

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FROM TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
	.5% carbonate veining - microveins Badly fractured and locally gouged massive mudstone. Unit contains numerous rubble zones and minor gouge zones with associated QC breccia veins.											
	186.0-186.2 Black gouge with 5 cm bounding quartz veins a 78 deg.											
	189.8-190.2 Soft gougy sheared mudstone.	- 2 ⁻¹										
	191.1-191.3 Rubble, gouge.											
	192.9-193.2 Rubble,gouge.	ł	į									
	193.1-193.4 Rubble, clay gouge.										ĺ	
	194.5-195.1 Rubble, gouge.							}				
	197.5-198.0 Gouge â 82 deg.											
98.00 257.60	LANINATED MUDSTONE Aphanitic, black, bedded, rubbin bedding 75°:fracturing 60° Frs=58/m:Vns =1/m 1% silica alteration - macroveins 2% clay alteration - gouge 3% graphite - coatings 1% qz veining - macroveins .5% pyrite - present Fairly well laminated to thinly bedded black mudstone with 20% 1-3 cm light grey sitty beds. Interval contains rare .5 cm very fine grained pyrite beds, may be top of Upper Salmon River mudstones. Unit is broken with several narrow gouge zones. Unit contains several 7 cm laminated, granular carbonate beds which contain up to 10% pyrite.	24402	217.90-218.40 236.40-236.90 253.80-254.30	0.50) 3	0.1 0.1 0.1	37 22 13	229	49 41 26	38 11 . 9	1 1v 1	
	203.5-203.9 Rubble, clay gouge.											
	205.6 .5 cm fine pyrite bed at 78 deg.											
	206.7-206.8 Rubble, clay gouge.				ŀ			i				
	206.8-206.9 10 cm light grey finely laminated soft ash bed @ 80 deg.											
	207.2-207.4 Light grey very fine grained ash band.				1				i		1	

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FROM	 	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
	211.4	Very fine laminated light grey 6 cm ash bed a 80 deg. Shows 3 mm scale offsets on micro faults.											
	211.80	5 cm black gouge.											
1	212.0-212.1	10% 3 mm white quartz veins in rubble.			ļ]				
	213.6-214.3	Rubble and gouge.	~ 2						ĺ				
	217.93	8 cm laminated, graded granular carbonate bed with 10% fine euhedral disseminated pyrite a 73 deg.											
	220.9-221.4	Rubble, monor broken quartz veins.											
	221.6	1 cm spaced .5 cm ash bands 2 67 deg.					.						
	224.5	21 cm pyritic beds.							ļ	ļ	Į		
	226.1	Beds 8 38 deg.											
	226.5	Beds & 87 deg.									 ·		
	227.4-227.8	Fault, sheared and gouged, 10% broken quartz veins.	-							Ì			
	229.55	20 cm section of disrupted and fluidized beds. Broken and rotated laminated mudstone clasts to 1x2 cm in black non stratified mud matrix.				- -							
	229.2-229.7	Fault, gouge and graphitic slips. Motion appears to be mostly bedding parallel @ 76 deg.									1		· ·
	230.4	5 cm clay gouge shear 2 52 deg.								4	l	ł	
	232.7	Pyritic graded ash beds to 1 cm 2 46 deg.											
	234.0-234.5	Fault, fabric is bedding parallel @ 65 deg.			1					1			
	4	7 cm graded heterolithic debis flow. Bed contains 60% .3 mm siliceous grains, 30% argillite clasts and 10% fine euhedral pyrite hich grades up and decreases in content up.											

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FROM	TO		DESCRIPTION	Sample	2 IN	TERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
		236.9-237.1	Fault, contorted gouge with 5% broken QC veins.							1					[
		239.2	4 cm QC vein à 85 deg. 1-2 mm spalerite vein.												
1		242.1-243.2	Fault, black clay gouge and 5% broken qtz veins.												
		246.1	Pyritic ash bed & 41 deg.		-		Į –	ļ		[ļ
		247.7-248.7	Fault, gouge 0 45 deg, normal to bedding.	1											Í
		251.0	Beds 8 61 deg.												
	*	254.0	7 cm graded, laminated clastic bed containing 10% fine graded pyrite.							1					
		255.0	Beds 8 65 deg.												
1		256.6	10 cm b/w ribboned qtz. Vein in shear @ 60 deg.												
<207	.40-208.	fault/go	ined, black, rubbly, crushed uge 51° rubble, last 10 cm black clay gouge.												
257.60	263.96	Frs=7/m :Vr .5% silica .5% qz vein Rhythmicail sandy silt beds and cr intervals. filling one	d, graded :fracturing 38°												
263.96	313.90	bedding 46° Frs=5/m	UDSTONE ed, Laminated "3 :fracturing 34" () (ing - microveins					2							

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FROM	TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
		grained lig	- present n River pyjama beds. Interbeded soft fine ht grey finely pyritic ash beds to 3 cm d with laminated black carbonaceous mudstone. I fine pyrite lamination.											
		270.0	Ash lams spaced at 1/10 cm @ 38 deg.											
		273.1	Sightly soft sed contorted silty ash lams @ 50 deg.	· 277										{
		276.1	Beds a 50 deg.											
		277.4-278.1	Fault, rubble gouge 2 30 deg.											
		280.1-280.5	Fault, rubble, clay gouge and contorted broken 1 cm pyrite lams.											
		282.3-282.9	Psult, rubble, mino gouge.]				
		287.0	Beds & 46 deg.						[ł				
		288.8-289.8	Fault zone, rubble, 20 cm gouge at top and bottom of interval.											
		290.4	1 cm fine pyrite beds 0 68 deg.	-						}	l			
]		291.2-291.5	Fault zone, rubble,gouge.			ļ				ļ	ł			
l		292.6-293.6	Fault zone, rubble, minor gouge.							[·	l			Į –
		294.0	Beds, laminations 0 83 deg.											
		297.5-298.2	Fault zone, all black gouge.						1]				
ĺ		300.0	Beds 2 40 deg.							ł				
ļ		302-302,97	Fault, rubble, gouge							1	l			
		303.0-304.3	1-2 cm ash bands are silicified to a pale blue color.											
		304.3-304.9	Fault, 20% oc veins, broken core and gouge.							l	Į			
		306.0	Ash and fine pyrite bands @ 33 deg.											
		310.6	Beds a 40 deg.							}				

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FRON	TO	DESCRIPTION	Sample	INTERVAL	MID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppr	As ppr	Kg ppm	Sb ppm
		311.6-312.1 Shear, carbonate stringers.											
		313.2-313.9 Fault, black gouge.											[
313.9 0	322.80	LAMINATED MUDSTONE Aphanitic, black, bedded, laminated bedding 57°:fracturing 15° Frs=5/m .5% silica alteration - present. 5% pyrite - laminations Well laminated to thinly bedded black carbonaceous mudstone containing 2-10 mm fine light bluish grey ash and 1-4 mm very fine pyrite laminations. Unit shows minor soft sediment deformation.	24405 24406 24407 24408	314.00-315.50 315.50-317.00 317.00-319.50 319.50-321.00 321.00-322.50 322.50-322.80	1.50 2.50 1.50 1.50	16 12 3 5	2.0 1.7	17 20 17 13 13 11	406 1338 991 881	68 78 75 70	70 112 65 52	1 2 1	30 31 47 42 51 32
322.80	323.50	ANDESITE FLOW Fine grained, brown, vesicular, bleached contact 61°:fracturing 75° frs=1/m 3% carbonate alteration - present 1% pyrite - microveins Fractured mafic, possibly a flow, upper contact is 1cm fine hysioclastite underlain by 5 cm of fine amydules. Unit carbonate altered and weakly fractured, healed by fine pyrite. Lower contact sharp at 75 deg.											
323.50	324.60	LAMINATED MUDSTONE fine grained, black, bedded, contorted bedding 50° frs=3/m 3% carbonate alteration - present 6% pyrite - laminations Strongly calcareous, highly contorted intercalated light grey limy fine grained "ashy" material, black mudstone and fine pyrite laminations5 cm fragments of underlying mafic flow in lower 5 cm of unit.	24410	323.50-324.60	1.10	3	0.1	7	233	28	25	0	16
524.60	351.60	ANDESITE PILLOW BRECCIA Fine grained, greenish-brown, pillowed, hyaloclastic contact 40° Frs=5/m :Vns =3/m 4% carbonate alteration - present .5% qz veining - macroveins 1% carbonate veining - macroveins 2% pyrrhotite - disseminated											

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FROM	TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
	<u> </u>	1% pyrite - patches Fairly thick pillowed flow with a brecciated top containing 30% interblock non stratified black carbonate and exfoliated chilled mafic fragments and hyaloclastic debris. The core of the flow is slightly coarser grained and darker green with no evidece of pillow formation. Pyrite occurs as thin fracture fillings and minor disseminations within the interblock sediment while pyrrhotite forms bladed crystals adjacent to the mafic blocks.											
		326.8-327.5 Sediment/hyaloclastite/shard interpillow debris.											
		330.0-331.1 As above.											
		345.0-347.6 Core of flow.											
		347.8-348.8 Shear zone, minor gouge,carbonate veins and rubble.											
		348.8-351.6 flow bottom breccia,									2		
351.60	352.60	MUDSTONE DEBRIS FLOW Fine-coarse grained, black, Brecciated, hyaloclastic :fracturing 30° Frs=3/m :Vns =2/m 15% carbonate alteration - present .5% qz veining - macroveins 1% pyrrhotite - disseminated 1% pyrite - patches Interflow sedimentary unit composed of non-stratified black mudstone dark grey carbonate and bleached mafic clasts to 2 cm.	-										
352.60	369.00	ANDESITE FLOW Fine grained, greenish-brown, vesicular, bleached :fracturing 60° Frs=3/m :Vns =4/m .5% silica alteration - mecroveins .2% chlorite alteration - present 6% carbonate alteration - present % qz veining - mecroveins .3% carbonate veining - mecroveins .5% pyrhotite - disseminated .5% pyrite - disseminated Mafic flow, non pillowed, has brecciated top and bottom											

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FROM	TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu pom	As pon		Sb por
	. <u> </u>	with interblock carbonate and mud. Grain size ranges from											
		aphanitic at the contacts to fine grained crystalline in				1	Į ,		ł	l	1	ł	1
		the core. Carbonate alteration occurs as minor pervasive			1		1			i i			
		alteration and 5x7 cm structurally controlled patches.			ļ	1	ł		1	l	ł	1	Į –
		accelerion and par the school accy controlled patches.					1			l I			1
69.00	372.70	LANINATED MUDSTONE			1	{	4		[ļ			[
		Fine grained, black, bedded, contorted									1		
		bedding 60°: fracturing 60°			{	{	ι .		t 1	(1		[
		frs=3/m			1								[
		7% carbonate alteration - present			}	1			{	ļ	Į –	ļ	(
		5% qz-carb veining - macroveins					[
		3X pyrite - Laminations			{	{ ·				ł	{	Į	ļ
		Well laminated calcareous interflow musdtone. Contains 3%	1 1									·	
		py as 3 mm fine grained lamination. Unit contains 5% 2-5			{	: I		ļ			1	[Į –
		cm chilled mafic fragments.											
			5 5		{							ł –	
72.70	381.00	ANDESITE PILLON BRECCIA	1 1										
		Fine-coarse grained, greenish-brown, pillowed, Brecciated			1		1 1					{	{
		Frest/m										-	
		3% carbonate alteration - present			1							l .	[
		2% carbonate weining - macroveins											
		.5% pyrrhotite - disseminated			1							{	ļ
		Brecciated pillow flow with 40% interblock non stratified											
		calcareous black mud matrix. Unit contains sections of	1		{		i 1						{
		hysioclastite in light grey carbonate matrix.											1
		ayaraaraaraa ah tigit giey calbanate aatiik.			1		1						ł
81.00	393.90	MASSIVE MUDSTONE	i i		1								
		Black, massive, contorted	1 1		1) 1	i 1	1	1				}
		bedding 41°:fracturing 30°											
		Frs=3/m	1 1		1 1	1		1					1
		4% carbonate alteration - patches	1 1		1 1			- 1					
		1% carbonate veining - microveias	1 1		1		1	1					1
		3% pyrite - Laminations											
		Fairly massive non stratified interflow calcareous	1 1		1 1	1	Í	1	1				{ .
		mudstone package containing 5% 2-20 cm bleached and											
		chilled mafic blocks and one boulder 1.6 m in diameter.	1 1			1 1	l i	1)
		Minor pyrite occurs as wispy disseminations defining											
		bedding. Unit is calcareous with 2% 1 mm calcareous	1 1) 1	1	1	1	1	1			
		crystallites and light grey patchy carbonate.											
		erystatties and trant grey patery carbonate.			1 1		· 1		ĺ	1			
		392.6 Pyrite beds @ 45 deg. Belmenite.											
-794	-												
<200*	00-200.4	O> ANDESITE PILLOW BRECCIA											
		Aphanitic, greenish-brown, pillowed, bleached					1		1				
		Block of flow in mudstone. Carbonate altered with patchy	1 1		1		1			{			
		carbonate as well.						1					
			1 I		1 1	. (ļ	1		

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											12 01 /		
FROM	TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	sb ppm
393.9 0	398.00	ANDESITE BRECCIA Fine grained, greenish-brown, Brecciated, vesicular contact 45° Frs=3/m: Vns =3/m: 5% carbonate alteration - interstitial 1% carbonate veining - microveing 1% pyrite - disseminated Brecciated, black carbonate healed, bleached, contains 3% very fine .5 mm dark amygdules@ Open space filling by dark grey carbonate as rims filled by later white spary carbonate.		,									
398.00	399.65	MASSIVE MUDSTONE Fine grained, black, bedded, crystallites contact 46°:fracturing 30° Frs=3/m 5% carbonate alteration - present .5% carbonate veining - microveins 2% pyrite - patches Fairly massive, faint bedding cefined by wispy fine pyrite and small poorly developed crystallites. Unit very calcareous.											
399.65	405.90	ANDESITE BRECCIA Fine grained, greenish-brown, Brecciated, vesicular :fracturing 45° Frs#3/m 3% carbonate alteration - interstitial 2% carbonate veining - macroveins 1% qz-carb veining - microveins 1% qzrite - disseminated Andesite breccia, numerous carbonate veins and patches. Unit contains narrow sections of black massive mudstone with poorly developed calcareous crystallites.											
405.90	408.70	LANINATED MUDSTONE Aphanitic, black, bedded, crystallites bedding 40° Frs=3/m 3% carbonate alteration - pervasive 4% pyrite - laminations Well bedded at 5 cm spacing with 2-5 mm fine grained pyrite beds defining bedding. Unit contains 5% 1 mm poorly developed crystallites. Unit strongly calcareous to limy.											
408.70	410.00	ANDESITE PILLOW BRECCIA											
					1	1			1 1		•		

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FROM	TD	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppr	Cu ppr	As ppr	Hg ppn	Sb ppm
		Fine grained, greenish-brown, Erecciated, vesicular :fracturing 50° Frs=4/m 5% carbonate alteration - interstitial 1% pyrite - patches Light grey-grown, chilled and bleached vesicular mafic block (90%) with 10% interblock black limy mud and dark grey carbonate. Basal contact irregular with rounded											
		brecciated blocks of chilled mafic in mudstone matrix.		ļ	1	{	1	ł	ł	{	{	Į –	1
410.00	411.15	MASSIVE MUDSTONE Aphanitic, black, bedded, massive bedding 34°:fracturing 60° Fra=3/m :Vns =2/m 2% carbonate alteration - pervasive 2% carbonate veining - microveins 2% pyrite - laminations Poorly bedded black mudstone, contains slightly contorted and discontinuous .5 cm very fine grained pyrite bands.											
411.15	413.45	ANDESITE DYKE/INTRUSIVE Fine grained, greenish-brown, Brecciated, chilled margin contact 46° Frs=4/m :Vns =1/m 1% carbonate alteration - pervasive 1% carbonate veining - microveins Finely amygdular, chilled, very fine grained, brecciated with fine milled fragments in the 30% black mud matrix.											
413.45	415.75	MASSIVE MUDSTONE Fine grained, black, massive, rubbly Massive black mudstone with fine disseminated euhedrat pyrite. Majority of interval is intense fault gouge. Rock fragments in gouge are strongly QC veined black silicified mudstone.	24410	413.45-413.80	0.35	3	0.1	7	233	28	25	0	10
		413.4-413.8 Massive mudstone. Upper contact chilled and bleached for 3 cm.											
<413.	.80-415.	75> Aphanitic, dark gray, Brecciated, rubbly fault/gouge 53° Frs=75/m :Vns =30/m 10% silica alteration - microveins 1% carbonate alteration - microveins 1% carbonate alteration - microveins 10% qz veining - microveins											

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			<u> </u>	T		·r					5 17 OI		
FROM	TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	zn pp	Cu ppm	As ppr	Hg ppm	Sb ppm
		2% carbonate veining - microveins					· · · ·		1	<u> </u>		1	†
		1% pyrite - disseminated	Ĩ] .]		1	1	1	1	ì	Í	ł
		Intense fault, hangingwall of Andesite Creek Fault zone.			ĺ				}	ļ			ļ
15.75	437.10	AUTOBRECCIATED RHYOLITE FLOW	2//11	/ 17 00 / 15 00									ĺ
		Aphanitic, whiteish-yellow, Brecciated, rubbly	24411	413.80-415.80	2.00	6		9	240	26 36 5	70	0	13 11
		:fracturing 47°	24412	416.30-417.30	0.50	9		12 27	197	36	86	1	11
		Frs=30/m : Yns =6/m	24413	417.30-418.80	1.00	20	0.1	27	137	5	162 68	1	3
		20% silica alteration - pervasive	2/645	418.80-420.30	1.50	11	0.1	16	113	6 8 8	68	0	3
		2% carbonate alteration - microveins	24415	420.30-421.80	1.50	14	0.1	15	99	8	173	0	3
		3% sericite alteration - selvages	24417	421.80-423.30	1.50		0.1	22	147	5	334	0	3
		3% clay alteration - gouge	24418	423.30-424.80	1 50	2	0.1	24	166 128	6	08	0	3
		5% qz veining - mecroveins	24410	424.80-426.30	1 50	3		00 00	110	26	125		1 3
		3% carbonate veining - microveins	24420	426.30-427.80	1 50	1 1	0.1	24 36 20 12	113	10	80 153 62 38	0	2
		3% qz-carb veining ~ microveins	24421	427.80-429.30	1.50	1	0.1	10	60	6	30	- o	3 3 3 3 3 3 3 3 3 3 3 3
		4% pyrite - disseminated	24422	429.30-430.80	1.50	ี เ	0.1	10	286		181		2
		Brecciated rhyolite flow. Contact zone faulted out.				-	•••		200	ଁ	101		,
		Interval badly broken to rubbled containing narrow clay	- {			[]							
		gouge sections. Locally displays pseudobreccia texture											
		with fine matrix of pyrite and fine dark grey to black				ļļ			ł				
		material. Unit contains 1% very fine fracture filling				í I			1				
		pyrite and 2% .5-2 mm euhedrai grains and clumps of		, J		! {			ļ				
		pyrite. Unit cut by numerous .2-2 cm QC veins which are											
		cut by later .5 cm carbonate veins. Fragments and random							ļ		-		
		patches 1-3 cm are replaced by #ff-white dolomite (3%).	1 -						ł				
		Unit is moderately silicified with minor light green	}				1		ł				i
		sericite along fracture surfaces and in wall rock as selvages outside pyritic fractures.		1	1			ĺ					
		416.05 30 cm clay gouge, lost 30 cm											
		416.3-416.7 Pseudobreccia healed with 3% fine pyrite.											
		417.3-418.8 Highly fractured, local gouge, minor open						İ	[,				•
		space quartz veins with fine euhedral					1				1		
		calcite needles in openings.		l									
		419.7-419.9 Gouge, adjacent rhyolite is quartz flooded.							1				{
		421.8-427.8 Dolomite replacement of <1 cm size fragments.											
		427.8-429.0 Rubble. Set of .5 cm QC veins 8 45 deg. 2%		ļ	Į	1							
		fine pyrite in black, possibly carbon coated fractures.											
		429.3-430.0 Rubble.		}									

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FROM	TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppr	Cu ppm	As ppm	Hg ppm	Sb ppm
		432.0 5 cm sandy clay gouge seam @ 40 deg. Unit getting darker grey.											
ļ		432.5-435.6 Sand faults, gouge, lost 1.6 m of core. clay gouge @ 434.5.)	1									
437,10	437.50	ANDESITE DYKE/INTRUSIVE Aphanitic, pale brown, massive, Brecciated :fracturing 52° Frs=3/m :Vns =6/m 2% silica alteration - microveins 1% carbonate alteration - pervasive 2% qz veining - microveins .5% pyrite - disseminated Mafic dyke, chilled to very fine grain, upper and lower contacts brecciated and shattered. Set of chalcedonic silica veins & 52 deg.											
437.50	439.80	AUTOBRECCIATED RHYOLITE FLOM Aphanitic, green, Brecciated, rubbiy bedding 60°:fracturing 38° Frs=60/m :Vns =1/m 15% silica alteration - pervasive 1% chlorite alteration - present 10% sericite alteration - pervasive 3% pyrite - patches interval badly fractured and rubble. Contains conspicuous bright green mica as patches and replacement of finer fragments. Unit contains bimodal pyrite as fine brassy inter-block patches and fine euhedral disseminations.		437.50-438.30 438.30-439.80			0.1 0.1	23 31			73 57	0	33
		438.6-439.5 Faulted, lost 40 cm. Lower contact is fault gouge.		- -									
439.80	444.50	ANDESITE BRECCIA Fine grained, pale brown, Brecciated, rubbly :fault/gouge 40° Frs=100/m :Vns =3/m 10% silica alteration - macroveins 20% clay alteration - gouge 20% qz veining - macroveins 1% pyrite - disseminated Brecciated and badly faulted section of chilled mafic. No textures visible to determine flow/dyke.											

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FROM	TO	DESCRIPTEUN	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
		443.6-443.8 Rubble/ gouge.					-						
<439	9.80-441.	00> Pale gray, crushed, rubbly 70% clay alteration - gouge 30% qz veining - macroveins 2% pyrite - disseminated Clay gouge, contains blocks of chilled mafic, lower 40 cm of interval consists of a broken white quartz vein with blocks of carbonate and mudstone.											
444.50	451.50	ANDESITE DEBRIS FLOW Fine-coarse grained, black, Brecciated, rubbly shear 38°:qz_carb veining 78° Fra=57/m :Vns =15/m 10% silica alteration - macroveins 10% carbonate alteration - microveins 20% clay alteration - gouge 10% qz veining - macroveins 10% carbonate veining - microveins 10% carbonate veining - microveins Highly fracture and shattered section of massive mudstone which has been intruded by a mafic dyke resulting in 35% by volume of .5-7 cm chilled, carbonate altered, mafic blocks in a none stratified slightly pyritic mud matrix. Upper contact is 40 cm of fault gouge. Unit contains a stockwork of fine carbonate veins.	24426 24427 24428	444.50-445.00 445.00-446.50 446.50-448.00 448.00-449.50 449.50-451.00	1.50	3 8 7	0.1 0.1	9 12 9 6 11	559 382 484 491 388	34 39 49	312 231 506	0	38 36 40 43 36
451.50	454.80	Could possibly be contact mudstone intruded by a dyke. Interval contains 3% pyrite as fine to medium grained disseminations and as very fine brassy pyrite in the mudstone and 1% as replacements in the mafic fragments. 450.0-451.5 Rubble, minor gouge. RHYOLITE BLOCKY ASH FLOW Medium-coarse grained, gray, fragmental, monolithic bedding 33°:fracturing 70° Frs=3/m :Vns =5/m	24430	451.00-452.50	1.50	3	0.1	10	78	4	21	0	3
		40% silica alteration - pervasive 3% chlorite alteration - pervasive 2% sericite alteration - pervasive 1% qz veining - macroveins 2% pyrite - disseminated Clast supported blocky ash flow ₂ 20% fine to coarse sand matrix, minor argillaceous contorted beds. Unit strongly silicified after minor chlorite/sericite.											

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54.80 52	28.40	Medium grair frs=1/m :Vns 70% silica s 2% chlorite 1% sericite 3% kspar alt 1% graphite 2% q2-carb v Glassy rhyol from 1-8 cm.	Iteration - pervasive alteration - stock-ork alteration - patches eration - matrix											n Sb ppr
o*.0∪ ⊃2	co.4U	Medium grair frs=1/m :Vns 70% silica s 2% chlorite 1% sericite 3% kspar alt 1% graphite 2% q2-carb v Glassy rhyol from 1-8 cm.	ed, pale gray, Brecciated, stylolitic =3/m Hteration - pervasive alteration - stock-ork alteration - patches eration - matrix - present eining - macroveins											
		Frs=1/m :Vns 70% silica s 2% chlorite 1% sericite 3% kspar alt 1% graphite 2% q2-carb v Glassy rhyol from 1-8 cm.	==3/m Ilteration - pervasive alteration - stock.ork alteration - patches eration - matrix - present eining - macroveins											
		Frs=1/m :Vns 70% silica s 2% chlorite 1% sericite 3% kspar alt 1% graphite 2% q2-carb v Glassy rhyol from 1-8 cm.	==3/m Ilteration - pervasive alteration - stock.ork alteration - patches eration - matrix - present eining - macroveins											}
		2% chlorite 1% sericite 3% kspar alt 1% graphite 2% qz-carb v Glassy rhyol from 1-8 cm.	alteration - stockwork alteration - patches eration - matrix - present eining - macroveins				1						. .	1
		1% sericite 3% kspar alt 1% graphite 2% qz-carb v Glassy rhyol from 1-8 cm.	alteration - patches eration - matrix - present eining - macroveins		ļ			[1) .	
		3% kspar alt 1% graphite 2% qz-carb v Glassy rhyol from 1-8 cm.	eration - matrix - present eining - macroveins	}	ļ	{		1	1	1 1				
		3% kspar alt 1% graphite 2% qz-carb v Glassy rhyol from 1-8 cm.	eration - matrix - present eining - macroveins		ļ	1				1 /	1	1	1	1
		1% graphite 2% qz-carb v Glassy rhyol from 1-8 cm.	- present eining - macroveins		1	1	ĺ	1	1	1 1	}	}	1	1
		Glassy rhyol from 1-8 cm.	eining - macroveins ite breccia, rotated flow banded fragmente	1			1	1	} 1	í /		}	1	1
		Glassy rhyol from 1-8 cm.	ite breccia, rotated flow handed fragments		ł	1	}	ł	}	1 1		{	4	{
		from 1-8 cm.))	1	}	}	} (1 1		{	ŀ	{
			Unit cut by .5 mm black carbon stylolitic	1	}	ł	}	}	{	{ !		{		1
		sucures. Uni	t strongly silicified and glassy.		}	1	ļ	ļ	[[
			e berongey articities and grassy.	{	{		ļ	ļ		1 1				[
		Stained sect	ion 8 559.5 shows 3-5% K-spar in finely	1	{		[(1 1				1
		chattered me	trix to breccia fragments.	{	{	ļ	(t i		ι Ι]
			crix to preceive fragments,	{	(l	ł		1 1				1
		460 4-460 B	Wiene ablantes along foltoetes as set of	Į	ł	1	1	!		1 1				1
		409.0-400.0	Wispy chlorite along foliation. Breccia finer,	1	{	1	1]) 1	1 1	i i		ĺ	1
			milled looking.	·	1	1]			1)				1
		Contine of		1	}		}	1		1)				1
		section of u	nit contains 3% 3 mm buckshot pyrite.	i)	ł	1	1		· · · · · ·				1
				ł	1		5			1				1
		477.0-480.0	Interval pale, whitish, probaby due to K-spar	ł	1		1			, (ł
			flooding of matrix.		ł	{					.			1
				}		}	ł					· I		1
		486.5	3 mm sandy chloritic shear @ 38 deg.	· · ·		1								ļ
				· }		{	,		. (1			
		486.5-487.9	Unit contains set of 1 mm carbonate filled		ļ		l			1	1			1
		•	veins 2 40 deg., locally leached out.	(Į	Į	[1		1	1	·]		
				{		Į	t i				}			}
		486.9-487.1	Shear, minor fine rubble, adjacent chlorite	1		Į	1		·]	. 1	}	i		}
		4	alteration and 10% fine carbonate stringers.	1]		' j	. }	1	ł		1
			-	1				1 }	۱ I	}	}	}		{
		492.5-494.0	hyolite breccia, s'ightly more sericitic,	})		}	5		}	}		{ ·
		t	interval has a sugary to granular texture.)		ſ		· }			}	Į		{
)		5	} }	. }	{		}	ļ		
		501.0 (Corroded dolomite whins @ 10 deg.	1		5		}	(ļ		ļ		1
				{				l l		ļ	- {			
		507.0-509.0 3	🗱 pyrite as .5-1 🛪 patches.	{				ļ	1			- 1		l
			Prote to to the parones!	{		{	[I	Į	- 1		1
	1	512.3-514.4	0% qtz carb. veirs.	(([- 1			[1
			an der munst teltme	ļ		1	. ([1		1	1		ł
	1	514.4-516.0 1	X wispy chlorite a 52 deg.					[1	1	1]	1	1
			a analy another a ar dear	(1	1	1	1	1	1	Í
	1	525.5-527.3 0	.5m strong chlorite alteration halo adjacent	(1		1	1	i	1	I
) 60 120 - 50 50 - 50 64	mafic dyke from 526.4-526.9. Dyke contacts	1				1	1	1	1	1	}	I
			eached at 60 deg.				1	1	1	1	{		1	i i
		D	cecheu al DU Deg.				I	I			1			

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ROM	10	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Рърра	2n ppm	Cu ppm	As ppm	Ng ppm	Sb pp
					1								
			}		}	{		4					{
			1		ł	1	1	1	1				1
<464	.60~464	.70> ANDESITE DYKE/INTRUSIVE			{	{	4						}
		Fine grained, yellowish-brown, Brecciated, vesicular bedding 25°	1		}	{	1			i 1			}
		2% carbonate alteration - present	Į ·		}]]	}					1
		Hydrofracked, injected mafic sill/dyke. 1-4 cm subangular	}		{	{		{	[(
		chilled finely vesicular mafic fragments surrounded by 1-2	1		ł	}	}	{	}				{
		mm subrounded rhyolite fragments in a black carbonaceous	}		j	1	1	i -	\				[
		matrix.	}		1	1]	l)				Į
<465	.80-466	.20> ANDESITE DYKE/INTRUSIVE	{		ł	{	{	{	{				•
		Fine grained, yellowish-brown, Brecciated, vesicular)		1	1	}	5) 1				ł
		1% pyrchotite - disseminated:	{]	Ì	1)	} 1				1
		60% 1-8 cm rounded, chilled finely vesicular mafic blocks	{		ļ	ļ	[{	{				Į
		from injection of the dyke. Mafic blocks are in a milled	{		}	ļ	{	{	{				!
		matrix of 1-3 mm subrounded rhyolite fragments. Interval	1		}	}	}	{	{				ł
		has 1-2% disseminated pyrrhotite in matrix and rhyolite wall rocks.	1		Į	l	ł	1	}				1
			{ .		}	{	{						{
<467	.00-468	10> ANDESITE DYKE/INTRUSIVE	j j		}	}							}
		Aphanitic, yellowish-brown, massive, vesicular) i		1	1							ł
		contact 85°:fracturing 50° Frs=1/m :Vns =3/m			1	1	{						ļ
		5% carbonate alteration - pervasive			{	{	{						ł
		3% qz veining - mecroveins	1		}	{							ł
		1% carbonate veining - microveins	1		}	}							{
		2% pyrchotite - disseminated			1	}	1						}
		Massive chilled, finely vesicular mafic dyke.			{	{							
<480	.36-481	.20> ANDESITE DYKE/INTRUSIVE	1		1	{						1	
		Fine grained, grayish-brown, massive, vesicular	ļ		{	}	Į į					1	
		contact 60°:fracturing 54°	ļ		{	ł	ł .						
		Frs=2/m	}		{	{	4						
		3% carbonate alteration - pervasive	}		{	5	1						[
		1% carbonate veining - microveins	1		}		Ì			្រាវ	1		
		.5% pyrite - microveins	1] .).				1	1		}
		Massive fine grained, finely vesicular mafic sill. Minor chloritic alteration in adjacent rhyolite.	{		{	{	4						
					1							{	
<512	.60-513	.30> ANDESITE DYKE/INTRUSIVE	{		ļ	ł				1	1		İ
		Fine grained, yellowish-brown, massive, vesicular			{	•	4						
		contact 35°:contact 40°	}		{	1	4				1		
		Frs=1/m	}		1		1						
		4% carbonate alteration - pervasive					1				1	j	

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FROM	TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	sb ppm
		Mafic sill. Uper contact bleached, chilled and finely vesicular. Upper contact @ 35 deg. Rhyolite wall rock chloritized and sericitized for 18 cm.											
528 .4 0	545.50	FLOWBANDED RHYOLITE FLOW Aphanitic, pale-gray, flowbanded, massive bedding 48° Frsm2/m :Vns =1/m 30% silica alteration - pervasive 5% sericite alteration - patches 1% qz veining - macroveins .5% pyrite - disseminated Light grey non-brecciated flow banded rhyolite. Flow bands show weak spherulitic growth giving a faint spotted appearence. 537.0-538.4 Relic flow banding overprinted by chlorite and silica. Rhyolite has a bluish green cast, darkening to deep chlorite green adjacent to mafic sili.											
		538.4-538.7 Mafic sill, chilled, light greyish brown, finely vesicular. Lower contact at 55 deg.											2
		538.7-539.2 Rhyolite medium green from chlorite adjacent to sill.	-										
545.50	556.56	AUTOBRECCIATED RHYOLITE FLOW Aphanitic, gray, Breccisted, monolithic cleavage, foliation 57°:fracturing 80° Frs=4/m:VNs =10/m 40% silice alteration - pervasiv: 5% chlorite alteration - preventury 2% carbonate alteration - microveins 3% sericite alteration - present 2% graphite - disseminated 1% qz veining - microveins 1% pyrite - disseminated 1% qz veining - microveins 1% pyrite - disseminated Brecciated rhyolite flow, rotated flow banded fragments with pseudobrecciation disagregating the larger fragments.											- -
		527.2-523.5 Hairline carbonate voins 8 85 deg.											
(eoh)		556.56 EOH.							1				

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	DIAMOND DRI		••	ADL9436	
ROJECT: Adrian 1994	Date Commenced: AUG. 16/94	Contractor: ADVA	CED DRILLING	Logged by: DGR	
RILL HOLE: ADL9436	Date Completed: AUG. 29/94			Geotech by: JL	
LENGTH: 553.21	Core Diam: NQ			accession by: of	
Collar Location		·····			
Latitude: 20240.00 Departure: 22045.00 Elevation: 880.00		<u></u> _			
0.00-3.05	S U H H A R Y CASING	Depth	DOWN HOLE SURVEYS Azim Inclin	Method	
3.05-3.75 3.75-5.40 5.40-6.40 6.40-9.10 9.10-12.95 12.95-13.85 13.85-16.80 16.80-20.50 20.50-64.90 64.90-84.12 84.12-278.50 278.50-299.98 299.98-333.68 333.68-390.15 390.15-405.12 405.12-421.60	OVERBURDEN CONGLOMERATE SANDSTONE CONGLOMERATE SANDSTONE SANDSTONE MASSIVE MUDSTONE SANDSTONE CONGLOMERATE LAMINATED MUDSTONE LAMINATED MUDSTONE LAMINATED MUDSTONE LAMINATED MUDSTONE LAMINATED MUDSTONE LAMINATED MUDSTONE LAMINATED MUDSTONE LAMINATED MUDSTONE LAMINATED MUDSTONE LAMINATED MUDSTONE	0.00 91.00 182.00 275.00 365.00 457.00 553.00	170.00 -87.00 0.00 -90.00 249.00 -87.20 232.00 -86.50 213.00 -86.00 210.00 -86.50	BRUNTON SPERRY SUN SPERRY SUN SPERRY SUN SPERRY SUN SPERRY SUN	
430.38-438.56 438.56-439.30 439.30-446.67 446.67-447.80 447.80-449.14 449.14-450.60 450.60-456.46 456.46-458.69 458.69-459.20	MAŞÎIVE MUDSTONE ANDESITE FLOW ANDESITE BRECCIA ANDESITE FLOW ANDESITE FLOW ANDESITE FLOW ANDESITE BRECCIA				· ·
464.12-466.04 466.04-468.70 468.70-474.12 474.12-477.71 477.71-495.08 495.08-498.18 498.18-499.02 499.02-502.20 502.20-509.97	ANDESITE FLOW ANDESITE BRECCIA ANDESITE FLOW ANDESITE FLOW BRECCIA MASSIVE HUDSTONE ANDESITE BRECCIA MASSIVE HUDSTONE				

HOMESTAKE CANADA	DIANO	D DRILL HOLE LOG		ADL9436
536.66-540.34 540.34-541.42 541.42-550.57 550.57-552.25	LAMINATED MUDSTONE *** AUTOBRECCIATED RHYOLITE FLOW * ANDESITE DYKE/INTRUSIVE AUTOBRECCIATED RHYOLITE FLOW ANDESITE DYKE/INTRUSIVE AUTOBRECCIATED RHYOLITE FLOW		· · · · ·	
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HOLE	E: ADL9	436 HOMESTAKE	CANADA - A	drian 1994						PAGE	1 of 1	7	
FROM	то	DESCRIPTION	Sample	INTERVAL	WID	Au. ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Kg ppm	Sb ppm
0.00	3.05	CASING					·						
3.05	3.75	OVERBURDEN		1									
3.75	5.40	CONGLOMERATE Medium-coarse grained, pale gray, heterolithic, graded bedding 40°:shear 30° Frs=4/m :Vrs =1/m 1% qz-carb veining - microveins Graded, closely packed fine conglomerate to coarse sandstone. Unit contains 10% 3 cm mudstone rip-ups in lower portion.		ू अर्ल.									
5.40	6.40	SANDSTONE Dark gray, massive contact 40° Frs=3/m Massive dark grey fairly well sorted gritty sandstone. Unit contains 2% 2-3 mm mudstone chips and white felsic lithoclasts. Lower contact gradational over 10 cm to underlying conglomerate unit, possibly a fine upper section to fine to coarse cycle.											
6.40	9.10	CONGLOMERATE Fine-coarse grained, pale gray, heterolithic, graded contact 74° Frs=4/m :Vns =1/m 5% silica alteration - pervasive Closely packed fairly well sorted heterolithic pebble conglomerate. Clasts include mudstone, quartz, finely vesicular dacite and rare flow banded rhyolite.											
		11.8 10 cm sandy shear and gtz vein 2 52 deg.											•
9.10	12.95	SANDSTONE Fine-coarse grained, dark gray, heterolithic, graded contact 46° Frs=15/m :Vns =2/m Poorly sorted well graded sandstone unit. Top 50 cm of interval is massive black mudstone grading down to dark grey sandstone containing 30% 1x2 cm angular black mudstone rip-ups. Interval grades down to coarse sandstone with 10% >5 cm mudstone cobbles.											
12 .95	13.85	SANDSTONE Dark gray, heterolithic, graded											

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FROM	10		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	2n ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
		Frs=7/m Graded seq massive to	*:bedding 45* uence consisting of a black mudstone top, finely laminated well sorted sandstone section se and base. Basal contect sharp at 45 deg.											
13.85	16.80	Frs=30/m	DSTONE black, massive, rubbly tered and slightly gouge massive mudstone.		- 									
		16.5-16.8	Fault, rubble.											
16.80	20.50	bedding 52 Frs=5/m :V	m grained, gray, bedded, graded °:contact 50° na =4/m d, faintly laminated poorly graded sandstone.										-	
20.50	64.90	:fracturin Frs=4/m :V 2% silica 1% carbona 1% carbona 1% carbona Thick unit graded, pe 50% .5-1.5 15% sounder rounded wa cobbles an	rse grained, gray, heterolithic, graded g 30°											
		22.9	Clay coated slip @ 23 deg.											
		29.25	Clay coated slip @ 25 deg.								•			-
		46.8	Shear with 7 cm quartz wein 2 45 deg.			ł			ļ	ļ				
		53.6	Clay coated shear 0 10 deg.									-		
		64.8	Lower contact sheard 2 43 deg.											

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FROM	TO	<u> </u>	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
64.90	84.12	bedding 45° Frs=3/m 1% carbonat Very thick scale, blac Thicker sil bedding. U 5 cm dia. L	nated, bedded :fracturing 45° e veining - microveins section of rhythmically banded at a .5-1 cm k mudstone and light grey very fine silt. ty beds have scoured bases and minor cross nit contains minor soft sediment slups and rare imy mud balls.								-			
		66.4-66.9	Rubble											
		67.3	Beds a 45 deg.						-					
		77.6	Seds 2 47 deg.					i	•					ŀ
84.12	278.50	Black, lamin bedding 50° Frs=6/m :Vm 1% carbonat .1% clay al 2% qz veini 1% carbonat 1% cyrite - Similar to Lamination fine dissem Laminations Unit may be structural	nated, bedded :fracturing 60°	24431 24432	117.70-118.20 182.00-183.10	0.50	· 18 11		15 11	212 104	45 41	40 9		3
		89.6-89.8	3% fine laminated and disseminated pyrite a 50 deg.											
		92.5-92.5	Shear, contorted ribboned with 1 mm qc veins a 48 deg.					i I						
		94.77	2 cm folded fine ash bed with pyritic base. Fold in "z" configuration.							ł				
		97.0	1 cm laminated carbonate/pyrite bed.	1			1				1			

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FROM	TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
		97.6	10 cm graphitic fault gouge.		· · ·									
}		98.6	5 cm carbonate bed 8 54 deg.			Į								į –
ļ		102.4	Beds 🔒 24 deg.					l						
}		103.83	3 cm graphitic gouge 2 47 deg.											
			Unit containing less than 1% pyrite as fine disseminations in the silty/ash beds.	-	207									
}		105.0	Beds @ 38 deg, 9tz fractures @ 90 deg.			ļ	ł							ł
			Unit contains 3% quartz/carbonate veins to 1cm at all angles and minor broken and gouged core. Bedding angles are from 10-45 deg.								1			
		108.5	QC vein healed shear zone.											
		109.5	3 cm medium grained light grey sand dyke @ 90 deg to bedding which is at 40 deg.											
		111.3-111.8	Fault, rubble and black clay gouge.				ļ							:
ł		114.9	fault, quartz healed, black gouge.											
		118.0-118.4	Section of 3 mm scale inter-banded fine ash, pyrite lams and black mudstone.											
Ì		119.0-119.6	Fault, rubble and qtz breccia veins.											
		120.6-120.8	Fault, rubble. Quartz ribbon veins.				ł.							
		123.1	Beds # 50 deg.											
		124.0-125.0	Broken core, rubble.		•		1							
		127.0	Beds 2 45 deg.											
		131.5	Beds & 47 deg, silt beds are up to 2 cm at 7 per m.			{								
		134.0-135.0	Zone of bedding parallel ribboned and slightly contorted quartz/ carbonate veins.											
{		140.0	1 cm silt beds 8 56 deg.											

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HOLE	: ADL	9436	HOMESTAKE	CANADA - A	lrian 1994						PAGE	5 of 1	7	
FROM	TO	DESCRIPTIO	N ·	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb pr
		144.0 10 cm graphitic gouge	2 60 deg.					1						1
		148.8 10 cm broken core, 10	% qtz veins.						1			ļ	1	
		151,25 Soft sediment contort	ed silt lams.			1						}	}	
		156,5 Beds 2 56 deg.					}	}]	
		156.4-156.6 Broken core, 5% qtz v	eins.									ł		
		159.4 1 cm pyrite bed a 45	deg.									{		
		10 cm very fine light grey ash be	ás 2 162.1, 163.7, 164.4.											
		166.4-167.5 Sheared zone, 20% 1-3 minor sericite.	mm contorted QC veins,											
		Unit contains 1/m light grey fine carbonate beds with fine pyritic						}						
		174.0 Beds 2 58 deg.								{				
		182.6-183.1 Graded sandy debris f sand size at base and silt at the top. The basal 1-2 mm detrital pyrite clasts	grades up to coarse 5 cm contains 10%											4
		Silty beds up to 7 cm 0 3/m gradi base to mud of overlying unit. In with abundant graphitic bedding p	terval becoming broken								-			
		194.3-194.8 Shear zone, rubble, m gouge.	inor black graphitic											
		197.3 Beds @ 43 deg.				{								
		198.3-198.7 Carbonate microvein h	esled weak shear zone.			{		1						
		207.6-208.2 Broken, sheared, mino	r gouge, 10% QC veins.					ł						
		248.3-249.6 Bedding parallel shea	ງັກອ.					}	}					
		263.6-268.5 Broken core, 30 cm go	gae 2 268.2.						}					
		271.8 Bedding 8 42 deg.		•				}						

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FROM TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pip ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
	215.0-215.5 Broken core, minor shearing								[
	223.5 10 cm carbonate breccia vein 2 45 deg.											
	229.5-230.4 Rubble, gouge.		- - -									
<202.70-202	.60> Fine grained, blackish-white, rubbly, broken fracturing 60° Frs=80/m :Vns ×10/m 20% silica alteration - macroveins 2% clay alteration - gouge 20% qz veining - macroveins Fault zone, rubble, black clay gouge, broken quartz veins.											
<236.70-248.	.60> LANINATED MUDSTONE Fine grained, black, rubbly, crisshed fracturing 40° Frs=50/m :Vns =5/m 10% silica alteration - macroveins 10% clay alteration - gouge 10% qz veining - macroveins 10% qz veining - macroveins Wide zone of crushed and gouged black laminated mudstone. Interval contains abundant gouge zones and graphitic shears.											•
<274.10-278.	.50> LAMINATED MUDSTONE Fine grained, dark black, rubbly, crushed Strong shear zone. Interval contains 30% black graphitic gouge and 10% broken contorted quertz veins.											
<274.20-277.	.00> Fine-coarse grained, dark black, sheared, broken shear 34°:fracturing 57° Frs=30/m :Vns =5/m .1% chlorite alteration - vein 5% graphite - gouge 3% qz-carb veining - macroveins 1% pyrite - disseminated Broken and gougy zone within mudstone.				-							. •
?8.50 299.98	LAMINATED MUDSTONE Dark black, laminated, bedded bedding 38°:fracturing 76° Frs=18/m :Vns =4/m .1% chlorite alteration - vein											

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FROM	TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Kg ppm	Sb ppm
		1% pyrite - dis Graphitic and p	pyritic fracture coatings. Fairly massive Chlorite within quartz-carbonate veins with											
		276.20-276.25	Quantz-pyrite vein is 0.04 m thick and contains 50% pyrite.		}									
		279.20-279.80	Very rubbled zone.		2777]		ļ			i	
		282.60~282.65	Disseminated pyrite (10%) within mudstone bed.											
		284.40, 287.35	4 287.40 Pyritic becs.			ł	1							1
<288	8.45-292.	shear 73°:fr frs=35/m :Vn 1% chlorite 5% graphite	- alteration - vein - gouge reining - macroveins											
299.98	333.68		ded, Laminated bedding 42° 1/m coatings	24433	306.05-307.90	1.85	5	0.3	12	210	56	9	2	3
		306.05-307.90	Interval with numerous sandy pyritic beds.		1									
		308.76-309.22	Crushed interval, minor gouge.											
		324.00-325.00	Load structures and graded beds support tops up. Alternating laminae of mud and siltatone.											
		331.18-332.10	Siltstone horizon with a 3 cm pyrite nodule. Possible concretion?											
333.68	390.15	LAMINATED MUDST Dark black, lam bedding 48°:fra	insted, bedded	24435	333.69-335.74 335.74-337.11 337.11-337.81	1.37	18	0.3	10 14 15	495	66 61 51	15 15 13	2 2 2	3 3 3

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												C 0 01 1	••	
FROM	TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppr	Cu ppr	As ppr	N Hg ppa	n Sb ppm
		2% pyrite - dia Very uniformly bedding angles, common but amou	coatings ning - macroveins sseminated laminated mudstone; consistent core to , consistent fractures. Pyritic laminae unt to only 1 or 2%. Light grey siltstone orms interbeds with nudstone. Load features	24437	337.81-338.81	1.00	11	0.3	11	182	49	10	2	3
		333.68-338.81	Several pyritic siltstone horizons. Disrupted pyrite bed at 335.68 m. Maximum thickness of bed was probably only 1 cm.		_****									
		342.90	Disrupted pyrite bed 0.2 cm.	1						[[[[
		354.63-354.78	irregular quartz-carbonate vein with local blocks of massive pyrite.						I					
		371.48	1 cm thick pyritic bed within mudstone.							ļ				
		381.45-383.84	Load casts or graded beds noted within this interval support tops up.											
		Only mud and sa O> Dark black, fault/gouge Frs=100/m :V 10% graphite .5% qz-carb	- gouge disseminated and recovered. Totally ground - no core. broken, fractured 57° ina =3/m											
390.15 4		Frs=12/m :Vns = 3% qz-carb vein 1% pyrite - lam Load structures	inated, bedded carb veining 58° 7/m ing - macroveins											

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						·							
FROM	TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pio pom	Zn ppn	Cu ppm	As ppm	Xg ppm	Sb ppm
		392.15 1 cm massive pyrite bed.							•				
405.12	421.60	LAMINATED MUDSTONE	24438	405.12-406.12	1.00	18	1.5	14	260	55	50		70
				406.12-407.12			1.2	5	417	55 37	40		39
				407.12-408.72			0.8		407	1 21	62 55		
			24441	408.72-410.22	1 50	65		16	2282	36 125	22	1 4	22
			26662	410.22-411.72	1 50	69		13	619	89	155 84 58 47	2	02
			24443	411.72-413.72	12 00	56		8	404	35	64		
			26666	413.72-416.00	2.00	115	2.5	45	150	30	20	2	20
			26465	416.00-418.00	2 00	42	1.1	15 22 13	447	54 46 71	41	222	
			24446	418.00-420.00	2 00	21	2.5	17	755	40	43		20
		413.80 to 421.41 is approached.	24447	420.00-421.60	1.60	36	3.1	30	740	74	43 87 77	2	25 22 62 51 26 29 26 44 33
		405.85 2 cm pyritic bed.											
		407.05 3 " " "											
		407.80 2 " " ".]]						
		408.70 4 " " " .											
		410.85 4 ^m ^m .											
	-	shear 54° Frs=100/m :Vns =25/m 8% graphite - gouge 12% qz-carb veining - macroveins 10% pyrite - patches Rubbled and gouge of Andesite Creek Fault? Veining throughout. Veins are irregular, pross-cutting, discontinuous.	-										;
421.00	430.38	LAMINATED MUDSTONE Dark black, bedded, laminated	24448	421.60-423.60 423.60-425.60	2.00	21 19	2.6	17	748	66 68	51 58 53	2	8
			26650	425.60-427.60	2 00	191	2.2 25.8	9 259	1282 1183	132	28	2	
			24451	427.60-429.00	1 40	12	2.0	7	1379	67	78		135 19
		.1% graphite - coatings	24452	429.00-430.38	1.38	8	0.1		353	40	21	2	-19
		.1% qz-carb veining - macroveins				, i		1	100	40	(اد
		15% pyrite - laminations		ļ									1
		Well bedded pyritic mudstone. Few fossils at 423.25 m.	1	Ì	i (1	- 1		- 1	- 1	
		Graded bedding indicates tops are up.										ļ	
430.38		ANDESITE FLOW	Í						1				
		Grayish-green, massive, pillow brecciated					ļ	ļ				ļ	j
		contact 69°	1					I				[
		Fre=7/m :Yns =3/m	ļ					1					
		1% chlorite alteration - amygdules 2% carbonate veining - macroveins						[1	- 1	[Í	í
		2% qz-carb veining - macroveins	1	1									1
		TV AT-PAIN ACTUINT . WECLOAGIUR		ĺ	1				- 1	- 1			}

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				INTERNAL	Ture	Ale mult			7	C11	 No. 0000	6h
FROM	TO		Sample	INTERVAL	AID -	Au ppb	Ag ppm	Pb ppm	2n ppm	cu ppm	ng ppm	an bb
		.5% pyrite - macroveins	1			ļ			1			
		Nafic flow with chilled upper contact and brecciated			l		1		l			
		zones. Fragments and contacts at brecciated portion have	1		1	í –	ſ	(({
		chlorite amygdules.							ł			
		436.92-437.22 Brecciated interval; muddy siliceous	1		1	1			ļ			1
		metrix.				i						
		436.86-437.08 As above.							·			
		430.00-431.00 A8 800VE.	.	· · · · ·	1	[1	[[[· · ·	1
		438.33-438.52 Quartz-carbonate vein.				ľ						
						1	}					
79 54	130 30	NASSIVE MUDSTONE			1	ļ						
50.50	-37.30	Fine-coarse grained, dark black, massive, clastic	1]	J	J .	ļ]	ļ
		fracturing :qz carb veining					1					
		Frs=12/m :Vns =10/m							1			
		.2% qz-carb veining - microveins			1	1	ł]			
		1% pyrite - clasts			1		1					1
		Massive mudstone with disseminated pyrite and pyrite			1							
		growths around pyrite clasts. Nud between mafic flows.			1							ļ
39.30	446.67	ANDESITE FLOW							l '			1.
		Grayish-green, massive, pillow brecciated			1	}	ļ	ļ	ļ,			[`
		gz_carb veining 67*			ļ							
		Frs=6/m :Vns =2/m	.			l.		1	[1
		5% chlorite alteration - pervasive			1]	1	Į –				Į
		.2X carbonate veining - microveing			1	l.						1
		.5% qz-carb veining - macroveins					1					
		.1% pyrite - macroveins	1		1	1	1	Į –	ł ;			!
		Massive mafic flow with local coarse grained portions but										
		is mostly fine grained and chloritic.					1					
46.67	447.80	ANDESITE BRECCIA	1		1	1	1	ĺ	í			í
		Fine-coarse grained, dark green, Brecciated, hyaloclastic	1									1
		Frs=3/m :Vns =1/m			1			ļ	}		Į į	ļ
		5% silica alteration - pervasive						1	ļ			
		12% chlorite alteration - pervasive	·									
		.5% qz-carb veining - macroveins	1		1	1	1	ļ	1			1
		Breccia between two flows (?) could be brecciated flow			1							
		top. Jumble of fine grained fragments and shards.										
47.80	449.14	ANDESITE FLOW	1		(ſ	ĺ	(!	{			Í
-		Dark green, massive, pillow breccisced			1		1	1				
		contact 45°:qz_carb veining 70°			1]	}	}	1	ļ		ļ
		frs=2/m :Vns =1/m							l			
		1% silica alteration - matrix				1	1		1			

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FROM	TO	DESCRIPTIO	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Ng ppm	sp bbu
		4% chlorite alteration - pervasive .5% qz-carb veining - macroveins Bounded by brecciated intervals.											
449.14	450.60	ANDESITE BRECCIA Fine-coarse grained, dark green, Brecciated contact 90°:qz_carb veining 56° Frs=1/m :Vns =2/m 4% silica alteration - matrix 3% chlorite alteration - pervasive .5% qz-carb veining - macroveins 1% pyrite - disseminated Chloritic fragments in a dark green siliceous matrix.											
450.60	456.46	ANDESITE FLOW Grayish-green, massive contact 25°:qz_carb veining 64° Frs=2/m :Vns =3/m 4% silica alteration - pervasive 5% chlorite alteration - pervasive .5% qz-carb veining - macroveins .5% pyrite - disseminated Minor brecciated interval. 453.41-453.82 HABR as in 449.14 to 450.60m.											4
456.46	458.69	ANDESITE BRECCIA Fine-coarse grained, pale green, Brecciated, bleached qz_carb veining 22° Frs=9/m :Vns =3/m 3% chlorite alteration - replaced phenocryst 2% qz-carb veining - macroveins Waekly bleached breccia with grey siltstone at top of interval.											
458.69	459.20	CALCITE VEIN Fine-coarse grained, pale green, veined Frs=8/m :Vns =1/m 90% carbonate veining - vein				-							
459.20	464.12	ANDESITE PILLOW BRECCIA Fine-coarse grained, grayish-green, Brecciated, pillow brecciated qz_carb veining 80° Frs=9/m :Vns =2/m 3% silica alteration - matrix 2% chlorite alteration - pervasive .5% qz-carb veining - macroveins											

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FROM	TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb		0h		-		J.,	at
			sample	INTERVAL	MID	Au ppo	Ag ppm		m zn pp	n Cu ppr	As ppm	Hg ppm	2p bbu
		.2% pyrrhotite - matrix			1								
		Some pillow shapes with chilled margins and vesicular rims at start of interval. Pyrrhotite at 463.20 m.	1		1	1	1	1	1	1	1	{	
		at start of interval. Pyrnotite at 405.20 m.									1	l I	
64.12	466.04	ANDESITE FLOW										1	
		Greenish-gray, massive						1					1
		qz_carb veining 59°										1	
		Frs=2/m :Vns =3/m									1		
		2% silica alteration - pervasive	1	•			1	1		1	1	1	1
		5% chlorite alteration - pervasive			1					1			
		.5% qz-carb veining - macroveins .1% pyrite - macroveins								1		1	
		Chlorite occurs as anygdules, also occurs pervasively and											
		after mafic minerals.					-						
AA 04	468 7 0	ANDESITE BRECCIA	2//57		1								
00,04	400.70	fine-coarse grained, grayish-black, Brecciated	24433	466.04-467.45 467.45-468.70	1.41	10			1 9	9 42 0 32	5	2	3
		Fra=4/R :Vns =1/n	244,74	407 143-400.70	1.0	•	ľ	· •	•	52	נ ן		3
		5% silica alteration - matrix											
		5% chlorite alteration - pervasive											
		.1% qz-carb veining - mecroveins						1					
		.5% pyrite - matrix Pyrrhotite blebs and patches within matrix.	1		1		1	1	1	1	1	1	
		Pyrhoutte blebs and patches within matrix.											•
68.70	474.12	ANDESITE FLOW										1	
		Fine-medium grained, grayish-green, massive, chilled margin											
		dz_carb verning op iconcact co											
		Frs=3/m :Vns =8/m									l		
		.1% carbonate veining - macroveins .5% gz-carb veining - macroveins										i i	
		0.1% pyrite - disseminated			1								
		Chilled and vesicular margin.											
		470.10-470.20 Hyaloclastic interval between flows.											
74.12	477.71	ANDESITE PILLOW BRECCIA			{			{	1	{			1
		Fine-coarse grained, grayish-green, pillowed, chilled margin									i		
		contact 18°											
		frs=5/m :Vns =3/m								1			
		3% silica alteration - pervasive				1							
		8% chlorite alteration - pervasive .2% qz-carb veining - macroveins						1					
		.1% pyrrhotite - matrix						1		1			
		.1% pyrite - petches								1			
		Chilled and vesicular pillows within a hyaloclastite and											
		minor silty sediment.	1		1	1			1	1	1 1	I	

HOLE: ADL9436

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FROM	TO	I	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppr	a Zn ppa	Cu ppm	As ppm	Ng ppm	sb ppm
477.71	495.08	cleavage, foli		24455	478.60-479.43	0.83	6	0.1		87	38	3	2	2
		Frs=6/m :Vns =		ļ	ļ		ļ	ł	ļ	[1	l	l l	1
			ration - metrix	ł								1		
			teration - pervasive									1	1	
ļ			veining - macroveins		ļ	ł	l	1	l	l		1	1	
			ining - macroveins	í	1		ſ		1		i			
		.2% pyrrhotite												
Į –		.1% pyrite - p	flow with brecciated intervals and a coarse											
		grained core.	(tow with precented intervals and a coarse]	}				
		478.60-479.43	Breccia with pyrrhotite patches; silicified rims on fragments.											{
		484.51-489.06	Coarse grained, plagioclase phyric core of flow.											
		490.75-491.38	Breccia with siliceous matrix and disseminmated pynite.											
495.08	498.18	MASSIVE MUDSTO	NE	ľ										
		Dark black, mas												
			carb veining 52*	1			1)	1	1	1)	1
1		Frs=12/m :Vns												
		3% silica alter	ration - pervasive	l l						[i i		
		1% chlorite ali	teration - pervasive	1	1	1	1		1	1	1	1	}	1
			veining - microveins						l					
			ning - macroveins						ſ					
1		3% pyrite - per		ł		1			{	1	{	1	Į –	1
		Mudstone overl	ies a breccia and underlies a massive flow.			ĺ							1	
498.18	499.02	ANDESITE BRECCI	IA										[I .
			grained, brownish-green, Brecciated]		1		1		1	
		Frs=1/m :Vns =1	1/m										1	
		4% silica alter	ration - metrix									[
		1% chlorite al	teration - pervasive		1	1	1		1	۱ ·	1	1	1	1
			veining - microveins	ł	Í				[
		.5% qz-carb vei	ining - macrovéins			1								
499.02	502.20	MASSIVE MUDSTON	1F)		1			1
	JAT.TA		ained, dark black, massive, Brecciated							1		1		
			1 48°:contact 50°											[
		Frs=8/m :Vns =5		1		1)		1	1	}	1		1
ł		2% silica alter	•							1				I
			teration - pervasive			1			1	1				

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FROM	TO	D	ESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag pp	m_]P	p bbu	Zn ppr	Cu ppr	As pp	N Hg pp	n Sb pp
		.3% qz-carb vei 1% pyrite - pat Continuation of	reining - microveins ning - macroveins ches mudatone between flows. Contains several canic fragments.		· ·										
		499.65-500.10	Breccia fragments of mafic volcanics in mudstone.				ć.								
)2.20	509.97	qz_carb veining Frs=8/m :Vns =1 2% silica alter 4% chlorite alt 4% qz-carb vein .2% pyrite - pa Numerous dark s Locally the uni 503.85-504.10	2/m ation - pervasive eration - pervasive ling - macroveins	rd	, mar										
9.97	533.68	Frs=6/m :Vns =8 1% silica alter 5% chlorite alt 1% carbonate ve 2% qz-carb veir .1% pyrite - pa	lined, green, chilled margin, pillowed S/m eation - pervasive cration - pervasive teration - vein sining - macroveins ing - macroveins iches ed margins, vesicular rims and hyaloclastic	24456	523.65-524.63	0.98	4		0.1	6	196	43			2
		513.95-514.42	Light green, waxy sericite-chlorite and carbonate veins.												
		516.38-516.75	Chloritic and sericitic hyaloclastic breccia between pillows.												
		518.97-519.11	As above.									1			
		520.88-521.12	As above.												
		521.41-521.60	As above.]						1	1		1	

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FROM TO	0	D	ESCRIPTION	San	mple	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
	5	23.65-524.63	Sandstone beds, with 3% patchy and disseminated pyrhotite, occur between mafic volcanics. Mafic volcanics have chilled margins. Breccia below this sediment is probably a flow-top breccia.												
	5	28.76-528.96	Chloritic and sericitic hyaloclastite between chilled portions of mafic volcanics.			, .									
	5	32.27-533.68	Weakly bleached, chilled, pillowed mafic volcanics on top of mudstone.												
<511.33-	-512.49	fault/gouge Frs=100/m :V 1% chlorite 1% sericite 50% clay alt	grained, pale green, rubbly ns =3/m alteration - pervasive alteration - pervasive eration - gouge veining - macroveins												
533.68 536	D L A I	edding 58° aminated mudst pproximately 5 nterval has se	ONE inated, crystallites one with abundant pyrite laminations. X crystallites noted. Latter 0.40 m of veral bleached, chilled mafic volcanic ic volcanics are at the rhyolite contact.	244 244	58	533.68-535.05 535.05-535.72 535.72-536.66	0.67	28	D. 0. 0.	5 24	677		173 217 319	2 2 2	, 28 34 27
<533.68-	F	5% pyrite -	laminations yrite beds. More laminations towards end												
<535.05-		15% pyrite -	laminations ds. Semi-massive												
<535.72-		5% pyrite -	disseminated												
536.66 540	0.34 AI F	UTOBRECCIATED ine-coarse gra	RHYOLITE FLOW ined, greenish-gray, Brecciated, crackled tion 59°:cleavage, foliation 58°	, crackle brec244	biid	536.66-537.97 537.97-539.46 539.46-540.34	1.49	7 3 10	0. 0. 0.	1 23	113	4	81 82 102	2	8 3 6

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FROM	TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
		20% silica alteration - pervasive 3% chlorite alteration - matrix 15% sericite alteration - pervasive .3% graphite - coatings .1% carbonate veining - microveins 2% pyrite - matrix Some local pseudobreccia of intact rhyolite but mostly brecciated and weakly foliated, silicified sericitic rhyolite.											
<536 .	.66-540.	34> 3X pyrite - disseminated Disseminated within matrix and around fragments as very fine grained brassy sulphides.											
540.34	541.42	ANDESITE DYKE/INTRUSIVE Greenish-brown, chilled margin, crackled, crackle brecciated contact 75° Frs=4/m 1% silica alteration - matrix 4% chlorite alteration - pervasive 2% sericite alteration - matrix .1% qz-carb veining - microveins 1% pyrite - patches Bleached dyke intrudes rhyolite unit.	24463	540.34-541.42	1.08	10	0.2	13	143	25	107	2	
541.42	550.57	AUTOBRECCIATED RHYOLITE FLOW Fine-coarse grained, pale gray, Brecciated, foliated cleavage, foliation 42°:cleavage, foliation 52° Frs#2/m :Vns #9/m 20% silica alteration - pervasive 3% chlorite alteration - pervasive 3% sericite alteration - pervasive 2% graphite - coatings 1% qz veining - macroveins 3% qz-carb veining - microveins Breccia of silicified sericitic and chloritic rhyolite. Weak foliation or orientation to iragments. Carbon and fine grained pyrite fills cracks and styolite-like irregular fractures. Silica flooding has left rock looking translucent medium grey colour.	24465 24466 24467 24468	541.42-542.92 542.92-544.42 544.42-545.92 545.92-547.42 547.42-548.92 548.92-550.57	1.50 1.50 1.50 1.50	4 1 1 3	0.2 0.2 0.3 0.2 0.2 0.2	29 16 16	99 100 124 113	4	20 48 29 5 8 21	2233333	
550.57	552.25	ANDESITE DYKE/INTRUSIVE Fine-coarse grained, greenish-brown, chilled margin, Brecciated cleavage, foliation 69° Frs×3/m :Vns =4/m 1% silica alteration - matrix	24470	550.57-552.25	1.68	10	0.1	7	128	25	3	3	2

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FRON	10	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	sb ppm
		4% chlorite alteration - pervasive 2% sericite alteration - matrix .4% carbonate veining - macroveins As in previous DADK interval.											
552.25	553.21	AUTOBRECCIATED RHYOLITE FLOW Fine-coarse grained, gray, Brecciated contact 28° Frs=1/m 20% silica alteration - pervasive 3% chlorite alteration - pervasive 2% sericite alteration - pervasive .1% pyrite - patches As in previous RRBR interval.	24471	552.25-553.21	0.96	7		8	22	11	38	3	6
(eoh)		553.21 metres is the END OF HOLE depth. The hole intersected 16.55 m of rhyolite beyond the target horizon. Hole ADL9435 intersected similar looking RRBR and assays of that material did not return any significant results.											

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RILL HOLE: ADL9437	1	e Commenced: SEPT. 1/94 e Completed: SEPT.10/94	Contractor: ADV	ANCED DRILL	ING	Logged by: DLK Geotech by: GR	
LENGTH: 523.00	Cor	e Diam: NG	-1				}
Collar Location							
Latitude: 20150.00 Departure: 21890.00 Elevation: 895.00			. NT				
	SUMMAR	Y	Depth		SURVEYS	Hethod	
0.00-3.05 3.05-5.00	CASING SANDSTONE						4
5.00-9.40 9.40-12.30 12.30-15.60 15.60-31.20 31.20-36.90	SANDSTONE CONGLOMERATE SANDSTONE SILTSTONE INTERBEDDED	NUDS./SILTSTONE	0.00 91.00 183.00 274.00 365.00 457.00	199.00 209.00 209.00	-86.00 -87.00 -86.00 -86.00 -85.00 -85.00	SPERRY SUN SPERRY SUN SPERRY SUN SPERRY SUN	
36.90-48.00 48.00-54.50 54.50-91.60 91.60-101.65 101.65-117.00	LAMINATED NU	NUDS./SILTSTONE DSTONE NUDS./SILTSTONE	523.00	200.00		SPERRY SUN	
117.00-119.00 119.00-150.00	SANDSTONE LAMINATED MU INTERBEDDED LAMINATED MU	DSTONE NUDS./SILTSTONE DSTONE					
333.70-382.80 382.80-401.90 401.90-419.10 419-10-424.70	PILLOWED AND LAMINATED MU ANDESITE BRE LAMINATED MU	ESITE FLOW DSTONE CCIA DSTONE					
424.70-456.78 456.78-471.20 471.20-474.20 474.20-476.70 476.70-482.00	ANDESITE HYA ANDESITE FLO LAMINATED NU ANDESITE BRE	LOCLASTIC BRECCIA V DSTONE CCIA					
470110-406.00	ANDESITE DYK	E/INTRUSIVE ED RHYOLITE FLOW RHYOLITE BRECCIA					
402.00-515.60 515.60-517.10 517.10-518.30 518.30-523.00	RHYOLITE BLO	CKY ASH FLOW					

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FROM	TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Znppm	Cu ppr	As ppr	ilg ppm	sb ppm
0.00	3.05	CASING			}								
3.05	5.00	SANDSTONE Gray, graded, clastic contact 60° Frs=4/m :Vns =3/m 10% silica alteration - microveins Fairly massive, poorly graded medium to coarse grained sandstone.											
5.00	9.40	SANDSTONE Gray, graded, bedded bedding 62°:contact 58° Frs=20/m :Vns =2/m 5% silica alteration - pervasive Unit consists of interbedded graded sandstone silty mudstone and minor conglomerate. Unit coarsens down to a fine conglomerate base.											
9.40	12.30	CONGLOMERATE Fine-coarse grained, gray, graded, heterolithic bedding 60°:contact 47° Frs=3/m :Vns =3/m 2% silica alteration - microveins Unit has a graded fine to coarce sandstone top grading down to a clast supported heterolithic cobble conglomerate at the base.											
12.30	15.60	SANDSTONE Gray, graded, heterolithic bedding 60° Frsm6/m :Vns =1/m 1% silica alteration - microveins Fine to coarse cycle with a fine sandy siltstone top grading down to a fine pebble conglomerate at the base.											-
15.60	31.20	SILTSTONE Dark gray, bedded, laminated bedding 52°:fracturing 46° frs=5/m 2% silica alteration - macroveins Banded to laminated at a 1-5 mm scale, unit consists of alternatining beds of fine black muddy silt and light grey silt. Unit contains narrow sections of sheared and broken ground with minor gouge.											

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ERON	TC					PAGE 2 01 12								
FROM	TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppr	As ppr	Hg ppm	Sb ppm
		19.6	4 cm ribboned black/white qtz vein # 53 deg.			1	1					1	1	1
		21.7-22.3	Shear zone 8 38 deg, 3 cm clay gouge seam.									[
- -		26.2	Beds # 70 deg.				1						}	
и к		28.0-28.4	Fault, rubble, gouge.			1	1				1	1		1
!		30.8	10 cm quartz vein stockwork.	- 24		{								{
31.20	36.90	Aphanitic, bedding 62° frs=12/m 1% pyrite - Faintly Lam	HUDS./SILTSTONE dark black, bedded, laminated laminations inated for the most, local sections of well ud/silt with minor pyrite laminations (34.6) B											
<32.	.30-34.00	> Aphaniti Fault zone,	c, black, rubbly, crushed lost core in sand.											
36.90	48.00	bedding 63° Frs=5/a .2% pyrite Finely Lamin of very fine finely Lamin	DSTONE dark gray, bedded, laminated - Laminations hate black mudstone containing 2-70 cm sections a, moft mudstone contain bluish grey hated mah(?). Black mudstone sections contain Laminated pyrite.											
		46.0-46.3	Quartz healed shear zone.								i			-
48,00		Aphanitic, 1 bedding 53°: Frs=40/# :Vr 20% silica a 20% qz veini Mainly black sand interbe	Iteration - macroveins ng - macroveins massive mudstone with 1-5 cm silt to fine ds at 3/m. Unit badly broken with numerous g graphitic slip surfaces and quartz vein											

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50.04	**								T	+					_	<u></u>
FROM			DESCRIPTION		S	ample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	zn ppa	Cu ppm	As ppm	Kg ppm	Sb ppm
54.50	91.60	bedding 57 Frs=5/m Thinly bedd Unit contai	NUDSTONE dark black, bedded, lamin 'fracturing 15" led at a 1-5 cm scale and ns rare 1-4 cm light grey with numerous fault/shea	internally laminated.												
		68.0-68.6	Fault, rubble and gouge.		}]	}	}					
•		74.7-75.1	Fault, rubble, graphitic	slips.	{	·~]	}		}	}				
		77.1-78.3	Fault, rubble, graphitic carbonate veins.	slips, broken												
		82.0	3 cm bedding parallel "F	bbon carbonate vein.				ļ		}						
		85.4-85.7	Fault, rubble, gouge B	38 deg.												
		86.4-87.2	Fault, rubble, graphitic alipe.	bedding parallel												
		88.3	Beds 2 81 deg.													
<89.6	50-91.60	fault/go	c, black, rubbly, crushed uge 60° alteration - gouge													
		Fault 0 60	deg. Last 60 cm is black (alay gouge.	{	{]	
91.60	101.65	Aphanitic, bedding 74° Frs=5/m Black silty on a .5-3 c	MUDS./SILTSTONE gray, bedded, laminated :fracturing 38° mudstone and light grey a m scale. Silt beds show h ng. Unit contains several	wasal scours and weak		-										
		93.0-93.3	Fault, rubble gouge												1	
		95.4	5 cm bedding parallel 8 7	'i deg clay seam.												
		97.7-98.3	Fault, rubble and cley go	uge 2 42 deg.	1											
			······································]]	}			

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TO	DESCRIPTION											
		Sample	INTERVAL	MID	Au ppb	Ag ppm	Pb ppm	2n ppm	Cu ppm	As ppm	Hg ppm	sp ppm
	100.2-100.5 Fault, clay gouge.											
117.00	LAMINATED MUDSTONE Aphanitic, gray, bedded, laminated bedding 50°:fracturing 60° Frs=4/m Rhythmically interbedded on a .5 om scale are black and grey mudstone beds with 20% .5 cm silt beds.	-										
	105.0 Bed # 47 deg.											
	110.0 Beds # 40 deg.			}								
80-116.7	70> Aphanitic, gray, rubbly, crushed fauit/gouge 45° Frs=45/m :Vns =1/m 1% silica alteration - macroveins 15% clay alteration - gouge Badly broken and gouged 0 45 deg.											
	SANDSTONE Fine grained, pale gray, massive, broken contact 50° Frs=30/m Massive fine grained sandstone with numerous black graphitic slip surfaces.											
	LAMINATED MUDSTONE Aphanitic, dark gray, bedded, broken bedding 60°:fracturing 57° Frs=25/m 5% clay alteration - gouge 3% qz-carb veining - microveins Well bedded at a 1-3 cm scale, black muddy siltstone with interbedded .5 cm silt beds. Unit bedly broken with numerous fault/shear zones.											
	119.2-120.2 Rubble.									-	ł	
	121.5 10 cm black clay govige in 50 cm rubble zone.											
	128.5 Beda 9 78 deg.											
	129.5-130.0 3 cm size rubble.									1		
	132.6-134.1 30% recovery in sandy fault.									}		
1	19.00 50.00	 17.00 LANINATED NUDSTONE Aphanitic, gray, badded, laminated bedding 50°:fracturing 60° Frs=4/m Rhythmically interbedded on a .5 on scale are black and gray mudstone beds with 20% .5 on slit beds. 105.0 Bed 2 47 deg. 110.0 Beds 2 40 deg. 10.0 Beds 2 40 deg. 10.116.70> Aphanitic, gray, rubbly, crushed fault/gouge 45° Frs=45/m :Vns =1/m 1% slitca alteration - mecroveins 15% clay alteration - gouge Badly broken and gouged 2 45 deg. 19.00 SANDSTONE Fine grained, pale gray, massive, broken contact 50° Frs=30/m Massive fine grained sandstone with numerous black graphitic slip surfaces. 50.00 LANINATED MUDSTONE Aphanitic, dark gray, badded, broken bedding 60°:fracturing 57° Frs=25/m 5% clay alteration - gouge 3% qz-carb veining - microveins Well bedded at a 1-3 on scale, black muddy siltstone with interbedded .5 on silt beds. Unit badly broken with rumerous fault/shear zones. 119.2-120.2 Rubble. 121.5 10 on black clay gouge in 50 on rubble zone. 128.5 Beds 9 78 deg. 129.5-130.0 3 on size rubble. 	 17.00 LANIMATED MUDSTONE Aphanitic, gray, badded, laminated bedding 50°:fracturing 60° Fram4/m Rhythmically interbedded on a .5 om scale are black and grey mudstone beds with 20%.5 cm silt beds. 105.0 Bed B 47 deg. 10.0 Beds B 40 deg. 10.0 Beds B 40 deg. 10.1 Beds B 40 deg. 10.1 Beds B 40 deg. 10.1 Beds B 40 deg. 10.1 Beds B 40 deg. 10.1 Beds B 40 deg. 10.1 Beds B 40 deg. 10.1 Beds B 40 deg. 110.0 Beds B 40 deg. 10.1 Beds B 40 deg. 10.1 Beds B 40 deg. 10.1 Beds B 40 deg. 10.1 Beds B 40 deg. 10.1 Beds B 40 deg. 10.1 Beds B 40 deg. 10.1 Beds B 40 deg. 10.1 Beds B 40 deg. 10.1 Beds B 40 deg. 110.1 Beds B 40 deg. 111.1 Beds B 40 deg. 121.2 Aphanitic, gray, rubbly, crushed fault/gouge 45° Fram45/m 118 silica alteration - macroveins 15% clay alteration - gouge Badly broken and gouged B 45 deg. 10.00 SANOSTONE Fine grained, pale gray, massive, broken contact 50° Fram50/m Massive fine grained sandstone with numerous black graphitic slip surfaces. 50.00 LANIMATED MUDSTONE Aphanitic, dark gray, bedded, broken bedding 60°:fracturing 57° Fram25/m 5% clay alteration - gouge 3% qz-carb veining - microveins Well bedded at 1-3 cm scale, black muddy siltstone with interbedded .5 cm silt beds. Unit badly broken with rumerous fault/shear zones. 119.2-120.2 Rubble. 121.5 10 cm black clay gouge in 50 cm rubble zone. 128.5 Beds B 78 deg. 129.5-130.0 3 cm size rubble. 	 17.00 LANIMATED MUDSTONE Aphanitic, gray, bedded, laminated bedding 50°:framédie dona 15 om scale are black and gray mudstone beds with 20% .5 om scale are black and gray mudstone beds with 20% .5 om scale are black and gray mudstone beds with 20% .5 om scale are black and gray mudstone beds with 20% .5 om scale are black and gray mudstone beds with 20% .5 om scale are black and gray mudstone beds with 20% .5 om scale are black and gray mudstone beds with 20% .5 om scale are black and gray mudstone beds with 20% .5 om scale are black and fault/gouge 45° Framédy a staration - macrovelns 15% clay alteration - gouge Bedly broken and gouged 8 45 deg. 19.00 SANDSTONE Fine grained, pale gray, massive, broken contact 50° Framined, pale gray, massive, broken bedling 60°:fracturing 577 Framezina S% clay alteration - gouge 3% q2-carb veining - microvelns Well bedded at a 1-3 om scale, black muddy siltstone with interbedded .5 om silt beds. Unit bedly broken with rumerous fault/shear zones. 119.2-120.2 Rubble. 121.5 10 om black clay gouge in 50 om rubble zone. 128.5 Beds 8 78 deg. 129.5-130.0 3 om size rubble. 	 17.00 LAWINATED NUDSTONE Aphanitic, gray, badded, Lamina:ed bedding 50°:fracturing 60° fras4/m Rhythmically interbedded on a .5 om scale are black and gray mudstone beds with 20% .5 om silt beds. 105.0 Bed B 47 deg. 110.0 Beds B 40 deg. 10-116.70> Aphanitic, gray, rubbly, crushed fault/gouge 45° Fras45/m itm = 1/m 1% silica alteration - mecroveins 15% clay alteration - mecroveins 15% clay alteration - mecroveins 15% clay alteration - gouge Bedly broken and gouged B 45 deg. 19.00 SANDSTONE Fine grained, pale gray, massive, broken contact 50° Fra=30/m Massive fine grained sandstone with numerous black graphitic alip surfaces. 50.00 LAWINATED MLOSTONE Aphanitic, date gray, bedded, broken bedding 60°:fracturing 57° Fra=25/m 5% clay alteration - gouge 3% clay alteration -	 17.00 LANINATED MUDSTONE Aphanitic, gray, bedded, laminated bedding 50° fracturing 60° Frank/m Rhythmically interbedded on a .5 om scale are black and grey mudstone beds with 20% .5 om silt beds. 105.0 Bed B 47 deg. 110.0 Bed B 47 deg. 110.0 Bed B 47 deg. 110.0 Bed B 40 deg. 10-116.70> Aphanitic, gray, rubbly, crushed foult/gouge 65° Frank5/m ivms =1/m 1% alica alteration - mecroveins 15% clay alteration - gouge Badly broken and gouged B 45 deg. 19.00 SAUSTONE Fine grained, pale gray, massive, broken contact 50° Fire 30/m Massive fine grained sandstone with numerous black graphitic alip surfaces. 50.00 LANINATED MUDSTONE Aphanitic, dark gray, bedded, broken bedding 60° fracturing 57° Fraz5/m S% clay alteration - gouge 3% qz-carb veining - microveins 18 fire aj microveins 19.27-120.2 Rubble. 10.12.5 10 om black clay gouge in 50 om rubble zone. 128.5 Beds 8 78 deg. 129.5-130.0 3 om size rubble. 	 17.00 LANINATED MUDSTONE Aphanitic, gray, bedded, Laminated bedding 50° fracturing 60° Fread/a Rhythmically interbedded on a :5 cm scale are black and grey mudstone beds with 20% .5 cm silt beds. 105.0 Bed B 47 deg. 10.0 Beds B 40 deg. 10-116.705 Aphanitic, gray, rubbly, crushed fullt/gouge 65° Fras5/s :Vrs ** 175.00 SAUSSTONE Him sufface alteration - macroveins 15% clay alteration - macroveins 15% clay alteration - macroveins 15% clay alteration - gouge Badiy broken and gouged B 45 deg. 19.00 SAUSSTONE Firm grained, pale gray, massive, broken contact 50° Fras5/s :Vrs 19.00 SAUSSTONE Aphanitic, dark gray, bedded, broken bedding 60° fracturing 57° Fras5/s 20.00 LANINATED MUDSTONE Aphanitic, dark gray, bedded, broken bedding 60° fracturing 57° Fras2/m SX clay alteration - gouge 33 qc-carb veining - alcroveins Well bedded at a 1-3 cm scale, black muddy siltstone with interbedded .5 cm silt beds. 119.2-120.2 Rubble. 121.5 10 cm black clay gouge in 50 cm rubble zone. 128.5 Beds B 78 deg. 120.5-130.0 3 cm size rubble. 	 17.00 LANINATED RUDSTONE Aphanitic, gray, badded, Laminated badding 50° fracturing 60° frac4/m Rhythmically (nterbedded on a :5 cm scale are black and grey mudstone beds with 20% .5 cm silt beds. 105.0 Bed B 47 deg. 10.0 Beds B 40 deg. 10-116.70b Aphanitic, gray, rubbly, crushed fault/gouge 65° frac6/Jm 17m =1/m 1% ellics alteration - smcroveins 1% clay alteration - smcroveins 1% ellic alteration - smcroveins 1% ellics alteration - smcroveins 1% ellics alteration - smcroveins 1% ellics alteration - smcroveins 1% ellics alteration - smcroveins 1% ellics alteration - smcroveins 1% ellics alteration - smcroveins 1% ellics alteration - smcroveins 1% ellics alteration - smcroveins 1% ellics alteration - smcroveins 1% ellics alteration - smcroveins 1% ellics alteration - smcroveins 1% ellics alteration - smcroveins 1% ellics alteration - smcroveins 1% ellics alteration - smcroveins 1% ellics alteration - smcroveins 1% ellip surfaces. 00.00 ANNOTONE Aphanitic, dark gray, badded, broken badding 60° fracturing 57° Frac20/m 3% clay alteration - souge 3% clay alteration - souge	 17.00 LANIMATED HUDSTONE Aphanitic, gray, badded, Laminated badding 50"fracturing 60" Frackan Rhytheically (nterbadded on a.5 on scale are black and gray musitors beds with 20%.5 cm silt beds. 105.0 Bed B 47 deg. 10.0 Beds B 40 deg. 10.10 Beds B 40 deg. 10.10 Beds B 40 deg. 10.110.0 Beds B 40 deg. 10.110.0 Beds B 40 deg. 10.1110.0 Beds B 40 deg. 1110.0 Beds B 40 deg. 1110.0 Beds B 47 deg. 1110.0 Beds B 47 deg. 1110.0 Beds B 47 deg. 1110.0 Beds B 47 deg. 1110.0 Beds B 47 deg. 1110.0 Beds B 47 deg. 1110.0 Beds B 47 deg. 1110.0 Beds B 47 deg. 1110.0 Beds B 47 deg. 1110.0 Beds B 47 deg. 1110.0 Beds B 78 deg. 1120.130.0 B	 17.00 LANIMATED MUSTOME Aphenitic, gray, bedded, Laminated bedding 50*fracturing 60* fras4/m Rhythmically interbedded on a .5 om scale are black and gray mustore beds with 20% .5 om sitt beds. 105.0 Bed B 47 deg. 10.0 Beds B 40 deg. 10-116.70P Aphanitic, gray, rubbly, crushed faultiguage 45* fras45/m situs 1/m I% alteration - gouge Badly broken and gouged B 45 deg. 19.00 Substome fing grained, pale gray, masive, broken control 50* fras45/m interation with numerous black graphitic slip surfaces. 50.00 LANIMATED MUSTOME Athenation - gouge SX clay alteration - since/ms in the didy slitstone with intertmedded.5 om slit beds. Unit bedly broken with intertmedded.5 om slite beds. Unit bedly broken with intertmedded.	 17.00 LANIMATED RUDSTONE Aphenitic, gray, badded, Laminsted bedding 50° fracturing 50° fractage Nythmically Interbedded on a 15 om scale are black and gray musiktome bedd with 200.5 om silt bedd. 105.0 Bed B 47 deg. 110.0 Beds B 40 deg. 10-116.70° Aphenitic, gray, rudbly, crumhed faultrygauge 55' fractSym styme	 17.00 LANIMATED NUDSTONE Aphanicic, gray, badded, Laminated bedding 50°:fracturing 60° fras4/g Mhythmically Interbedded on a US on scale are black and gray musicities beds with 2005.5 cm milt beds. 105.0 Bed B 47 deg. 110.0 Beds B 40 deg. 00-116.700 Aphanitic, gray, rubbly, crumhed faultigauge 65° fras45/m titra microwelinm 15% clay milteration - macrowelinm 15% clay milteration - gouge Bedly broken and gouged 8 deg. 19.00 SANDSTONE Fine grained, pule gray, massive, broken graphitic align surfaces, broken service for the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface service for the surface of the surface of the surface of the surface frame for the surface of the surface of the surface of the surface of the surface service of the surface of

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FROM	10		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Kg ppm	sb pp
		136.5-137.5	Fault zone, rubble, gouge.											
		143.5	Beds 9 60 deg.						1	}			}	
		146.6-147.0	Fault, 60% black sandy clay gouge.							{	{		{	
		147.5-148.3	38% recovery, broken ground.				{							
150.00	161.50	Gray, bedde bedding 50° Frs=13/m Interbedded coarse ligh To 152.4, U	MUDS./SILTSTONE d, broken at a 1-5 cm scale, black silty mudstone and t grey silt. Silt bads have scoured bases. nit is badly broken, with numerous graphitic es at all angles.	4 di										
161.50	303.60	bedding 50° Mainly blac silt beds a which may h contains th	black, bedded, laminated											
		186.4-187.0	Fault, rubble, gouge à 40 deg.							{		1		
		190.7-191.7	Fault, rubble, graphitic slips @ 57 deg.											
		195.7-196.0	Gouge, sand.								ł		1	
		201.4	Silt beds 9 51 deg.								1			
		203.3-204.0	Fault, gouge and graphitic slips at all anges.		{									
		204.1	10 cm gougy shear 0 45 deg, 50 off strike from the beds.											
		206.0	10 cm light grey ash bed 0 60 deg.						1		{		ł	
		227.5	3 cm ash bed 0 73 deg.	ł	ł		}							
		229.7-230.3	Fault, black graphitic gouge and rubble.											
		231.0	Beds at 43 deg.		{		1			1		}		1

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FROM	TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	sp ppm
		231.5-232.3	Fault, gouge 2 32 deg.											
		233.0-235.6	Sheared zone. Core has 0 strength and is soft and saturated.											
		242.6-242.9	Sheared, 10% micro quartz veins.											
		248.7	Beds a 20 deg.											
•		253.4-253.8	Fine grained light grey ash bed 2 47 deg. Lower contact sheared 2 30 deg.	~ 2"										
		Numeous haf	rline fractures offset beds on a cm scale.			Į								
		261.7-262.7	Fault zone, gouge and rubble a 50 deg.	Į –										
		263.3-264.4	Fault zone, gouge rubble, upper and lower contacts of zone 2 29 deg.											
		265.3	Beds # 48 deg.		1									
		273.5	30 cm ash bed 2 40'deg.											
		280.7	Shear 2 30 deg.											
		282.5	40 cm coarse silt beds showing crossbeds & 49 deg.											
1		293.4 surfaces.	40 cm shear a 50 deg. Graphitic slip											
		291.0	Beds 10 deg.											
		297.8	2-5 mm silt laminations @ 42 deg.											
		298.1-299.7	Badly broken, rubble, broken quartz veins with graphitic contacts.											
<209	.20-210.	All rubble,	; black, rubbly, broken fragments have graphitic slips on 2-3 nor gouge at 210.5.											

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FROM	TO		DESCRIPTION		Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb pom	Zn pom	Cu nom		Ha nom	Sb nor
<216.	70-226	.70> Aphanit	ic, black, rubbly, broken	· · · · · · · · · · · · · · · · · · ·								an bhu		1.13 byten	
		Thick inte	rval of rubble, graphitic gouge :	and minor black								1			
		mud.			1	1	1	1	1	1	1	1	1	1	ł
<236.	90-242	.90> LANINAT	ED MUDSTONE		1							1			
			ic, blackish-white, rubbly, shear	red	1		1	1	1	1	1	1	}	{	1
		shear 2	0"							· ·				ļ	
			m :Vns =20/m		{		1	E Contraction of the second se		{ }		{	l l	ļ	
		20% #it	ica alteration - microveins										1		
•		28 CLEY 207 dt	alteration - coatings veining - macroveins				}	ł		l		Į –		[l
		Section is	sheared with a contorted fabric	10-30 dee										ł	í
		Sheared gr	ound contains 20% fine ribbonned	atz alternating	1		1			[!				
		with the m	ud in a gneissic fashion.								[}		
-0/-			• • • • • • • •		1		1	1							
<248.	90-251	.00> Aphanit	ic, blackish-white, rubbly, shear	red]		1	}.	
			0°:contact 48° m :Vns =15/m												
			ica alteration - microveins		1	Ĩ	1	1	\		l [.]	}	ſ	}	}
		Fault zone	containing broken quartz veins i	in graphitic											
		gouge and			1		{								
-285	80-201	.50> LANINAT	ED MINETONE												
-E03.	00-271		ic, blackish-white, sheared, rubb	alv	1 1		{						۱ I	,	
		shear 4		, , , , , , , , , , , , , , , , , , ,									•		
		Noderately	sheared and contorted. Interval	contains 12%	{ - }		1								
		QC veins p	arallel to fabric 9 48 deg.												
303.60	333.70	LAMINATED	NUDSTONE		24472	331.00-332.40	1 40	10	0.7	12	531	54	34	_	
		Aphanitic,	black, bedded, laminuted				1.14				551		34	2	-
		bedding 43			1									 	
		Frs=21/m :1													
			alteration - microveins teration - coatings		{										
			ning - microveins			-									
		5% carbonat	te veining - microveins		1 1										
		3% pyrite	- laminations											1	
		Upper Salm	m River mudstone. Conspicuous "	pyjama" beds											
		consisting	of basaly pyritic very fine grey	to bluish grey						· 1				ļ	
		ash beds ri	withmically interbedded with the	black mudstone											
			a scale. No large detatchment fa Unit contains minor grey silt lam		1								1	}	
			- •												
		308.6-309.4	Fauit, rubble, graphitic gouge quartz veins.	and 5% broken											
		322.0	Nud flames into ash beds @ 43 d	ieg.											

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FROM	TO	·	DÉSCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppn
		٩	Fault gouge contains broken and rolled qtz vein fragments. Zone is bedding parallel a 45 Seg.											
		1	Beds swing from 45 to 80 deg at lower contact. Ash lams now contain up to 10% very fine pyrite.											
<315.	.00-321.	shear 32*	MUDSTONE , blackish-white, sheared, contorted with minor gouge and 15% broken and contorted											
		quartz veins												
333.70	382.80	fracturing 3 Frs=3/m :Vns 4% carbonate	n, pillowed, Brecciated	24473	332.40-333.9	1.50	5	0.7	12	558	56	63	2	
		2% carbonate 3% pyrrhotit 1% pyrite - 1 Thick pillow to 90 cm. P Inter-pillow black limy m 10% pyrrhoti	veining - microveins a - patches	•										
		354.9-355.4	ivaloclastites with 1-3 cm curved margined chilled vesiculated fragments.											-
		371.5	15% Po over 7 cm as interblock matrix.						}					
			10% Po over 5 cm as matrix to hyaloclastic atter breccia.											
			5% Po, 2% Py as infillings adjacent to pillow margin.											
			Core of flow, more massive and homogenous.	· ·										

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FROM	то	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Xg ppm	sb ppm
		401.5-408.3 Flow bottom breccia, minor pillows developed and hyslociastite.											
382.80	401.90	LANINATED MUDSTONE Aphanitic, black, bedded, iaminated bedding 45°:fracturing 40° Frs=6/m 5% carbonate alteration - pervasive 2% carbonate veining - microveins 2% pyrrhotite - disseminated 5% pyrite - laminations Well laminated black mudstone with 20% 1 cm silty turbiditic beds containing 5-10% very fine pyrite and a trace of bladed pyrrhotite. Unit moderately calcareous.											
401.90	419.10	ANDESITE BRECCIA Fine grained, grayish-brown, Brecciated, bleached Fre=2/m 2% carbonate alteration - pervasive Fairly massive with a consistant grain size. Blocks have no chilled margins. Breccia is clast supported with 15% calcareous mud matrix. Mafics are slightly carb altered.	24474	408.30-409.90	1.60	1	0.5	8	471	41	21	2	3
419.10	424.70	LAMINATED MUDSTONE Aphanitic, black, bedded, crystallites bedding 60° Frs=3/m 2% carbonate alteration - pervasive 5% pyrite - laminations Well bedded at 1-3 cm, contains 7% py as 1-3 mm lams and disseminations in coarser silty beds. Contains large pillow boulder from 421.0-421.7.	24476	419.10-421.00 421.70-423.20 423.20-424.70	1.50	14		10	805	61	39	2	336
424.70	456.78	ANDESITE HYALOCLASTIC BRECCIA Grayish-brown, hyaloclastic, vesicular Fra=3/m 15% carbonate alteration - pervasive 1% qz-carb veining - microveins 2% pyrrhotite - disseminated 1% pyrite - disseminated 1% pyrite - disseminated Thick hyaloclastic breccia containing 10% 10 cm pillow fragments in a limy hyaloclastic breccia. 80% of fragments are chilled and finely vesicular, having curved fracture surfaces. Unit contains minor pyrrhotite in matrix of fine green hyaloclastic shards. from 453.5-456.78 unit contains less(20%) fine hyaloclastic											

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FROM	to	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Ng ppm	Sb ppm
		shards and more 1-5 cm mafic fragments in a grey carbonate matrix than above.											
456.78	471.20	ANDESITE FLOW Aphanitic, brown, Brecciated, bleached Frs=3/m :Vns =3/m 8% carbonate alteration - pervasive 3% qz-carb veining - microveins Weakly brecciated, finely vesiculated mafic. Has no coarse core, is fragments supported and has 10% grey carbonate or black micrite matrix.	24478	470.20-471.20	1.00	12	0.6	. 10	103	34	51	2	3
471.20	474.20	LAMINATED NUDSTONE Aphanitic, black, bedded, crystallites bedding 40° Frs=2/m 10% silica alteration - pervasive 1% carbonate alteration - pervasive 1% pyrrhotite - blebs 2% pyrite - laminations Black mudstone with bedding defined by 3 mm layers of medium grey hard material, possibly silica after carbonate. Rock contains 20% pointy developed chrystallite - like structure but are of the same hard material. Unit contains 3% pyrite in fine laminations and diaseminations.		471.20-472.70 472.70-474.20				15 17		54 57	.30 54		38
474.20	476.70	ANDESITE BRECCIA Fine grained, grayish-brown, Brecciated Frs=5/m 3% carbonate alteration - pervasive Fine grained, finely vesicular mafic breccia healed by grey and black muddy carbonate. Mafic blocks are slightly calcareous.	24481 24482	474.20-475.70 475.70-476.70	1.50	8 20	0.7 1.2	6 9		31 39	35 60	2	33
476.70	482.00	LAMINATED NUDSTONE Black, laminated, crystallites bedding 42° Frs=4/m 10% silica alteration - pervasive 2% chlorite alteration - present 2% carbonate alteration - present .1% pyrhotite - disseminated 4% pyrite - disseminated Possibly contact mudstone. Unit is very hard and silicified and spotted looking with silica replaced crystallites and carbonaceous lams. Unit contains 3% fine	24484 24485 24486	476.70-477.70 477.70-479.30 479.30-479.70 479.70-481.20 481.20-482.00	1.60	59 20 30	1.3 1.4 1.1 1.2 0.8	13 14 8 22 15	113 709	58 57 51 49 15	52 71 70 71 52	22222	9 11 3 17 3

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FROM	TO	DESCRIPTION	- <u>]_</u>	1	<u>1</u>	<u> </u>			r		- <u></u>		
			Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
		shards and more 1-5 cm mafic fragments in a grey carbonate matrix than above.											1
456.78	471.20	ANDESITE FLOW Aphanitic, brown, Breccisted, bleached	24478	470.20-471.20	1.00	12	0.6	10	103	34	51	2	3
		Frs=3/m :Vns =3/m 8% carbonate alteration - pervasive										ļ .	
		3% qz-carb weining - microveins Weakly brecciated, finely vesiculated mefic. Has no					:						
		coasce core, is fragments supported and has 10% grey carbonate or black micrite matrix.											
71.20	474.20	LANINATED MUDSTONE Aphanitic, black, bedded, crystallites	24479	471.20-472.70			0.8	15	657	54	30	2	3
		bedding 40° Frs=2/m	24400	412.10-414.20	1.50	50	1.1	17	481	57	54	2	8
		10% silica alteration - pervasive 1% carbonate alteration - pervasive		ł									
		1% pyrrhotite - blebs 2% pyrite - laminations		[}
		Black mudstone with bedding defined by 3 mm layers of medium grey hard material, possibly silica after	ł										
		carbonate. Rock contains 20% puorly developed chrystallite -like structure but are of the same hard	ł	}								3	
		material. Unit contains 3% pyrite in fine Laminations and disseminations.	-]	į				
74.20	476.70	ANDESITE BRECCIA Fine grained, gravish-brown, Brécciated	24481	474.20-475.70 475.70-476.70	1.50	8	0.7	6	100	31	35	2	3
		Frs=5/m 3% carbonate alteration - pervasive	24402	4/J./U-4/0./U	1.00	20	1.2	9	164	39	60	2	3
		Fine grained, finely vesicular mafic breccia healed by grey and black muddy carbonate. Mafic blocks are slightly calcareous.		- - -									
76.70	482.00	LANINATED MUDSTONE	24483	476.70-477.70	1.00	53	1.3	13	442	58	52	2	9
		Black, laminated, crystallites bedding 42° Frs=4/m	24485	477.70-479.30 479.30-479.70	0.40	20	1_4	13 14 8 22	1038 113	57 51	71 70	2	11 3 17
		10% silica alteration - pervasive 2% chlorite alteration - present	24486 24487	479.70-481.20 481.20-482.00	1.50	30 10	1.2 0.8	22 15	709 144	49 15	71 52	2	17
		2% carbonate alteration - present .1% pyrrhotite - disseminated											
		4% pyrite - disseminated Possibly contact mudstone. Unit is very hard and										4	
		silicified and spotted looking with silica replaced crystallites and carbonaceous lams. Unit contains 3% fine											

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FROM	TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	sb ppm
		disseminated pyrite and 4% pyrite in descrete silty/turbiditic beds to 3 cm thick.											
1		477.2 7% pryite in a slightly chloritic horizon.	}		{								
		479.3-479.7 Marrow mafic dyke with 3 cm quartz vein on fw side.		9 2									
, <481	1.20-482.	00> LAMINATED MUDSTONE Black, laminated, fragmental bedding 47° Frs=3/m 3% chlorite alteration - pervasive 2% carbonate alteration - present 3% sericite alteration - clasts .2% pyrhotite - disseminated 3% pyrite - disseminated 3% pyrite - disseminated This interval contains rare 1-3 cm light grey strongly sericitized rhyolite fragments in a slightly chloritic mudstone. Unit contains very fine pyrite as flooding and weak laminations.		- - -									
482.00	515.60	ANDESITE DYKE/INTRUSIVE Fine grained, gray, massive, crystalline :fracturing 60° Frs=3/m 1% carbonate alteration - microveins 2% carbonate veining - microveins 2% q2-carb veining - macroveins Massive mafic dyke. Top 2.0 m are chilled and bleached and contains rare .5 cm chlorite filled vesicles. Unit gets coarser down section where .5-1 mm feldspar grains are visible. Unit contains several 10 cm qtz/carbonate veins and 1-2 cm grey carbonate veins. Bleached top section is weakly calcareous. Lower 1.4 m is fine grained, light brown and chilled. Lower contact has a 3 mm Laminated chilled rind 2 45 deg.	24488	482.00-483.00	1.00	5	0.6	7	100	33	58	2	
		497.3-497.66 White gc vein a 53 deg.											
		501.4-501.6 White gc vein @ 60 deg.							-				
		506.7 2cm.shear 2 46 deg.										ł	
515.60	517.10	AUTOBRECCIATED RHYOLITE FLOW Fine-coarse grained, pale gray, Brecciated, monolithic	24489	515.60-517.10	1.50	5	0.2	17	119	6	17	2	3

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FROM	TO	DESCRIPTION			1	1	[.	- <u></u>			r	<u> </u>	<u> </u>	r		
			Sample	INTERVAL	WID	Au ppb	Ag ppr	i }₽b f	, mq	Zn ppm	Cu ppr	As	ppm	}Hg ppi	n Sb Pl	pfi
		Frs=1/m 60% silica alteration - pervasive Rhyolite breccia, contains 85% fragments to 40 cm in a strongly silicified dark grey matrix. Can't tell if it is a clastic matrix.														
517 . 10	518.30	BLACK MATRIX RHYOLITE BRECCIA Black, Brecciated, fragmental bedding 47° fra=1/m 60% silica alteration - pervasive 1% chlorite alteration - microveins 1% carbonate alteration - microveins Matrix supported unit containing 20% 1-3 cm rhyolite fragmenta and 40% contorted clasts of a silt sized material whick could have been silty ash beds which have been disrupted. Unit strongly silicified.	24490	517.10-518.30	1.20	7	C	.3	22	116	9		20		2.	
518.30	523.00	RHYOLITE BLOCKY ASH FLOW Gray, fragmental Frs#1/m 70% silica alteration - pervasive 2% chlorite alteration - present Poorly sorted, clast supported. Contains 80% massive to flow banded fragments from 3-10cm on a coarse sand sized matrix. Interval contains narrow, chilled mafic dyke. Lower contact from 522.8-523.0 is a mylonitic looking shear containg 3cm round mafic clasts.	24492 24493	518.30-519.80 519.80-520.70 520.70-522.20 522.20-523.00	0.90	23	0	.5	21 4 9 17	117 90 72 74	6 14 4 7		24 100 31 59	22222		
(eoh)		523.0 EOK.														

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HOMESTAKE CANADA	DIAMOND DRILL	I I I I I I I I I I I I I I I I I I I			ADL943	.
PROJECT: Adrian 1994	Date Commenced: SEPT.11/94	Contractor: ADVA	ICED DRILLI)	iG	Logged by: D	
DRILL HOLE: ADL9438	Date Completed: SEPT.21/94				Geotech by:	GR
LENGTH: 625.77	Core Diam: NQ					
Collar Location					·····	
Latitude: 20275.00 Departure: 22860.00 Elevation: 710.00						
SUNN 0.00-6.10 CASING	IARY	Depth	DOWN HOLE Azim	SURVEYS Inclin	Nethod	
	IE ED MUDSTONE IDED MUDS./SILTSTONE	91.00 185.00 285.00 383.00 625.00 0.00	221.00 237.00 237.00 239.00 239.00 239.00 225.00	-79.00 -77.00 -76.00 -74.50 -72.00 -77.00	SPERRY SUN SPERRY SUN SPERRY SUN	
311.30-319.00 MASSIVE 319.00-336.00 INTERBED 336.00-373.60 LANINATE 373.60-444.30 MASSIVE 444.30-517.00 LANINATE 517.00-583.00 LANINATE 583.00-587.30 MASSIVE 587.30-594.00 NUDDY TU 594.00-602.70 AUTOBRED 602.70-615.50 AUTOBRED 615.50-616.20 AUTOBRED 616.20-625.70 LANINATE	NDED HUDS./SILTSTONE D HUDSTONE MUDSTONE D HUDSTONE D HUDSTONE HUDSTONE HUDSTONE IFF CCIATED RHYOLITE FLOW CCIATED RHYOLITE FLOW	•	·			

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FROM	TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
0.00	6.10	CASING											<u> </u>
6.10	22.60	INTERBEDDED MUDS./SILTSTONE Black, bedded, broken bedding 50°:fracturing 30° Frs=7/m Interbedded black banded mudstone and light grey silty sandstone. Silty beds are usually normally graded with coarser bottoms having scours and flames.	~ <u></u>										
		6.1-8.2 Broken core				i							
		14.3 Beds 8 50 deg.											
		17.1 Beds 2 50 deg.											
		21.0-22.6 Broken core, narrow (30 cm) sections of black graphitic gouge at 21.2 and 22.3.											
22.60	44.80	<pre>SANDSTONE Fine grained, gray, bedded, massive bedding 53°:fracturing 75° Frs=8/m :Vns =4/m 5% silica alteration - pervasive .1% clay alteration - gouge 4% qz-carb veining - microveins Thick, poorly bedded, fairly massive, well sorted. Unit contains 2% 1-4mm subrounded argillite clasts which increase in size and frequency towards the bottom. Unit contains several 20-50 cm shear zones with adjacent quartz flooding and minor sandy clay gouge. 34.3-34.8 Shear, 20% quartz/carbonate veins, 5cm sandy gouge 8 75 deg at 34.8.</pre>											
44.80	108.81	SANDSTONE Fine-coarse grained, gray, bedded, graded bedding 60°:fracturing 38° Frs=6/m :Vns =6/m 2% silica alteration - pervasive .1% clay alteration - gouge 2% qz-carb veining - microveins Thick interval of cyclic, graded members concisting of 2-5 m thick sections having a mistone or fine siltstone top, a graded sandy central portion and a sand matrix supported pebble to mudstone rip-up conglomeratic base. Unit											

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HOLE	ADL9438
HULE;	ADL7400

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FROM	то		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Znppm	Cu ppm	As ppm	Hg ppm	Sb
			several narrow shattered zones, primarily within one portions.											\vdash
		56.9	1cm clay seam @ 47 deg.											ĺ
		61.3	20 cm sheared gougy mudstone, fabric 2 48 deg.											
		70.5	Beds 2 75 deg.				ļ		ł					
		76.5	Lamination in silty mudstone at top of cycle @ 82 deg.											
		81.0	Beds 2 81 deg.]					
		90.1	Sharp basal contact of cycle between coarce sandstone and laminated mudstone a 79 deg.				i F							
		100.0-100.	8 Broken core, rubble.											
		Lower cont 50cm of ru	act at 108.81 is faulted, 10 cm of gouge and abble.											
18.81	201.80	bedding 79 Frs=5-9/m 2% carbona 1% clay at 2% qz vein 2% carbona 1% pyrite	<pre>kded, laminated '*:fracturing 78* :Vns =3/m te alteration - pervasive teration - gouge ling - microveins te veining - microveins * laminations</pre>	-	·									
		with silty down hale beds to 5c top of the bedding.	ion of laminated to thinly bedded black mudstone interbeds which thin and become less frequent and are replaced by very fine light grey ashy m thick. Coarse silty beds to 3cm thick at the unit show scoured bases and minor cross Unit contains several cones of broken, rubbly minor gouge.											
		121.5	Broken core											
		124.0-125.	5 Brecciated mudstone healed by 5% 1-3mm quartz stringers.											
		128.5	1cm beds @ 83 deg.											,

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FROM TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppr	As pp	Hg ppm	sb ppm
	very fine (to end of unit, unit contains .5-2cm light grey grained ashy(?) laminations and minor very fine inations to 2mm thick.										†	
	136.0	Beds # 72 deg.	ļ						[
	147.0	Beds 9 78 deg.											
ļ	149.7-150.6	Broken core, graphitic slips and minor gouge.	- <u>-</u>		1								
	151.7-152.5	Fault zone, broken core, graphitic slips.]		
	154.3-157.5	Broken core.									}		
l	158.3-159.6	Coasce sandy turbidite, fairly calcareous.									ł		
	159.6-160.5	Unit contains several 2-4 cm granular, light grey limy beds.											
	167.0	1 cm pyritic light grey ash bed 8 82 deg.											
	176.6	Ash beds 3 68 deg.						:					
	179.5	Beds & 85 deg.											
	182.0	Black/ white ribboned quartz vein a 10 deg.											
	190.7-191.1	Quartz healed brecciated mudstone.											
	191.7	Beds 2 45 deg.											1
	197.8	10 cm gougy shear											1
	199.4	Beds 2 10 deg.											·
<184.50-186	shear 68 Frs=50/m 10% clay 3% qz va	:Vns =3/m: alteration - gouge ining - microveins of graphitic gouge and rubble & 65 deg.70 deg											
201.80 296.30	Gray, bedde	fracturing 38°											

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FROM	TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppr	Hg ppm	sb ppr
		1% clay alt 2% qz veini 2% carbonst Unit consis fine to med	te alteration - pervesive teration - gouge ing - microveins te veining - microveins ts of black silty mudstone with interbedded lium grained silt beds to 20cm thick which may d cross cut the laminated mudstone. Unit is careous.											
		202.3	Badding in mudstone 9 30 deg is truncated by sand bed 9 60 deg, 90 deg to strike.	्यत										
		210.4	8eds 2 75 deg.]							
		215.0	8eds 2 90 deg.											[
		221.6	Beds 2 65 deg.											Į
		226.5	Beds 2 40 deg.											
		232.0	Beds 2 43 deg.			1								
		233.0	Beds 8 55 deg.									,	3	
		236.9-236.6	Sand matrix supported well sorted at .5-1cm pebble conglomerate bed.									•		
		251.5	15 cm quartz healed shear zone and 5 cm gouge 2 60 deg.											
		258.2	Beds 9 71 deg.			{			ĺ					
		258.7-259,1	30cm quartz/carbonate vein a 36 deg.				· · ·		i					
		262.7	Beds & 78 deg.											
		264.7-265.3	Stockwork of 3mm QC veins at no preferred attitude.											
		265.7	10 cm gouge shear a 50 deg., 45 deg. off strike of beds.											
		275.4	Beds 2 60 deg.					Ŭ Î						
		277.4-278.0	Quartz carbonate healed shear zone.							ļ				
		281.0	Cross bedded silt beds 0 40 deg.											

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FROM	TD	·	DESCRIPTION		Sample	INTERVAL	WID	Au ppb	Ag ppm	Pio pipma	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppn
		285.6	Beds 8 55 deg.			1					ĺ				
		294.5	Bads 8 62 deg.					1			}	}			{
-505							1]]		ļ .		
<289	.20-292.	50> Finë gi shear 4	rained, black, rubbly, broken 10°			n	{	ŀ	{	[<u>ا</u>		}
			/m : Vns =15/m					}		1	1	1	1 1		}
			lica alteration - mac: oveins bonate alteration - macroveins		~		1]	Ì	1.	1]	1		1
••			alteration - gouge	5						ł		[!		ł
			veining - microveins				ļ	ł.			Į		ļ		{
			conste veining - microveins				}	4				4			{
			e, broken quartz/carbonete ve gougy rubble. Footwall 75 c				}		ł		4	{			
			bonate healed breccia.	4 18		•	}		1		1	1			}
		•				l	}	1	1		}]			1
296.30	311.30	MASSIVE M					1]		l .]]	į		1
		bedding 6	, black, bedded, laminated 5°	:	ļ				ļ	ł .	[Į –	Į ,		1
		Fra=4/m	•			,	{	ļ		· ۲	ł ·		· ا	, i	1
		.1X pyrit	e - Leainations								4	{	! •		1
			nated black/dark grey mudston a silty beds.	e. Unit contains			}	1			1				
		6.001.40° 4.75° 64			1				1	ľ	1	}			
		299.4	5 cm graphitic gouge shear	9 60 deg.			1			.	ļ	[1
		302.5	2mm scale Laminations & 84	deg.							ļ	2			
<306	.40-311.	30> Fine g	rained, black, rubbly, broken					{ 		4	ļ	1	<u>.</u>		{
			78°:fracturing 75°				1 .	ł		1	}	{	§ 1		{
			/m :Vn# #20/m Lice alteration - microveins				1	{		}	}	{			ł .
			bonate alteration - microvei	ns	l	1. Sec. 1. Sec		}		Ì	}	1)		1
			y alteration - gouge							1		1	1		Į
		20% qz	-carb veining - microveins	the boddlar				(l I	[{	ļ		ł
			ken and gouged. Shearing mos Interval contains 20 % stoci				1		1	[{				
744 70	740 00	·			1		1	}	1	1		1	1		1
511.50	213.00	MASSIVE M	, black, bedded, sheared					[[[·	[[l i		1
			2°:shear 35°					Į	Į		1	[[l
		Fra=40/a								ί ·	4	[.		ł
			alteration - microveins							۱ I	4	{		,	ļ
			ate alteration - microveins alteration - gouge		1			1	1	}		1	1		{
			rb veining - microveins				1	1	1		1	1			}

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FRON	to	DESCRIPT" (ON	Sample	INTERVAL	VID	Au ppb	Ag pom	Pb ppm	Zn ppm	Cu ppm	As ppm	ing ppm	sp bb
		Faintly banded massive black mudstone. Unit badly brok gouged and rubbly. Contains abundant graphitic slip surfaces at all angles. Unit contains 10 % fine broken stockwork.											
<316	.30-319.	00> Fine grained, black, rubbly, broken Fault zone, broken and gouged, 10% broken qc vein stockwork.											
					-	[}		1	ł]]	{
319.00	336.00	INTERBEDDED MUDS./SILTSTONE Black, bedded, laminated bedding 78°:fracturing 75° Fra=5/m 1% clay alteration - coatings Interbedded black mudstone and 2-5cm 40cm spaced light											
		gray siltsone. Bases of silty layers show good flames and contain trace amounts of fine pyrite.	up [·									
		328.0 Beds 2 72 deg.				1					}	1	
		330.3-330.5 Shear zone with gouge and rubble 0 37 deg.									 	} `	
536.00	373.60	LAMINATED MUDSTONE Aphanitic, black, bedded, laminated bedding 73° Fra=3/m											
		3% gz veining - microveins 5% gz-carb veining - microveins Well bedded, faintly laminated, bedding a a 3cm scale defined by imma black lams in the dark grey mudstone. U fairly solid and homogenous.	nit										
		349.0-340.3 Fault zone, graphitic slips and minor black clay surfaces.											
		343.5 Beds # 74 deg.			1	}	{	×	1	{			{
		Bedding in the unit gets less evident down section.				ł	{	{		{			{
		373.2-373.3 Fault zone, broken gougy rubble with broken ribbon qc veins.											
		373.0-373.6 Light grey ash bed with 2% very fine black grains. Unit is very fine grained and					}						

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FROM	το		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppa	Pb ppm	Zn ppm	Cu ppm	As ppn	Hg ppm	Sb ppm
{			massive.											
373.60	444.30	Aphanitic, 1 bedding 30° Frs=5/m 3% clay ait 20% qz-carb Massive, po fine silty swing from approaching	STONE black, bedded, laminated :fracturing 30° eration - coatings veining - microveins orly bedded black mudstone with rare light grey beds spaced at 1-m. Bedding in the interval 78 deg near the top to 10 deg down hole the disrupted quartz fracture healed shear ting fault drag on beds.	- <u>-</u>										
		378.07	Bods & 70 deg.									1		
}		383.5	Beds 2 60 deg.		1		1			1				
ł		390.0	Beds 2 47 deg.											
ļ		391.7	Beds â 28 deg.		"	ł				ļ				
l l		397.0	Beds a 15 deg.	ļ		ł	ľ					4	:	
ł		401.1-401.8	QC healed shear zone 2 60 deg.			ĺ								
l.		407.7	Beds & 20 deg.			ł		•		1		· · ·		·
ł		425.0	Beds 9 15 deg.						1			1		
		429.0	Quartz healed breccia 0 40 deg.									1		
		432.0	Quartz filled joints 9 77 deg.]								
]		440.0-441.0	40% contorted quartz/ carbonate veins.]								ł l
		441.2	Beds 2 47 deg.		L.									
		443.3-444.2	Highly contorted and QC veined. Lower contact of this interval has 10 cm of healed gouge.											
~410).10-423.	bedding Fris=5/m 20% sili	MUDSTONE ined, black, contorted, veined 20°:qz_carb veining 30° :Vns =30/m ca alteration - microveins onate alteration - microveins											

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FROM	TO		DESCRIPT: ON	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppr	Cu ppr	As pp	ling ppr	sb ppr
		Thick section heavily quarters	carb veining - microveins ion of structurally disturbed rock. Interval artz/carbonate veined with contorted silty a at low(10-20) angles to the core.											
44.30	517.00	bedding 60° Frsw2/m :Vr 5% silica a 5% carbonat 10% qz-carb 2% pyrite - Well banded	black, bedded, laminated ':qz_carb veining 38°	~ _****										
		18 probably	the top of the upper Salmon River mudstones. ns local sections of QC veining.							-				
		443.5	Beds 2 50 deg.	Į.										
		451.7	1-4 cm pyrite nocule. Bedding 2 46 deg.	[
		456.0	3mm scale Laminations @ 70 deg. Beds @ 59 deg.									.		
			Bedding contorted, interval contains 15% QC veins a quartz filled tension veins.											
		459.8	Beds 2 52 deg.							ĺ				
		468.5	Beds a 60 deg.					· ·						
		470.1-470.5	fault zone, rubble, graphitic gouge @ 47 deg.											
		476.0	3cm black clay gouge seam & 45 deg.											
		477.5	Beds 8 70 deg.						ł					
		Unit well in Pyrite Lams	nterbanded, "pyjama beds"on a 2-7 mm scale. are scarce at 1/m.											
		491.3-491.6	Badly broken core.											
		494.1-494.4	Fault zone, 10 cm 92 vein and 20 cm black sandy gouge.											

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FROM	(1 	το		DESCRIPTION		Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb pp	m Zn pp	n Cu ppr	As pp	ilig ppr	Sb ppm
{			498.0	Beds # 66 deg.				+	1	-			+	<u> </u>		
<	506.30	0-517.	bedding Frs=4/m 5% silic 5% carbo 2% clay 10% q2-c 2% pyrit Sheared and pyritic ash from 20-75	D HUDSTONE ined, blackish-gray, contorted 40°:qz_carb veining 40° :Vns =8/m a alteration - macroveins nate alteration - microveins alteration - coatings arb veining - microveins e - laminations veined section of Laminated a lams to 1 cm are contorted, b deg. Unit heavily AC veined, d have been later contorted.	nuckstone. Broken Jedding ranges											
517.0	0 58	33.00	bedding 70° Frs=4/m 3% carbonat: 2-7% pyrite Well bedded pyritic ash with light with no fau 1-2mm thick 522.4 529.0 538.5-539.0	ed, laminated = alteration - pervasive - laminations and banded black musdstone and bands to 30 cm. Unit is vari- prey limy mud sections. Inter- its. Unit contains sections of pyrite lams spaced # 3mm. Fine pyrite laminations # 83 Pyrite lams # 62.deg. Interval contains several.5-1	ably calcareous val very solid if 7% pyrite as deg. cm gritty	24496 24497 24498 24499 24500 24501 24502 24503 24504 24505 24506 24507 24508 24509 24510	517.00-519.0 519.00-521.0 521.00-525.0 525.00-527.0 527.00-529.0 529.00-531.0 531.00-533.0 533.00-535.0 535.00-537.0 537.00-549.0 543.00-543.0 543.00-545.0 543.00-545.0 547.00-547.0 549.00-551.0	00 2.00 00 2.00 00 2.00 00 2.00 00 2.00 00 2.00 00 2.00 00 2.00 00 2.00 00 2.00 00 2.00 00 2.00 00 2.00 00 2.00 00 2.00 00 2.00 00 2.00 00 2.00	23 42 15 11 29 24 11 11 5 8 13 24 16 22 24 15	1. 3. 2. 1. 2. 1. 0. 0. 0. 0. 0. 0. 0.	7 1 1 5 6 6 1 7 7 6 6 7 7 6 6 7 7 7 7 7 7 7 7 7	7 2000 1340 8 1278 1 1201 9 916 9 916 9 776 4 380 3 530 5 297 4 361 7 545 165	555 82 81 76 78 78 78 78 78 78 78 78 78 78 78 78 78	- 31 26 23 24 18 25 17 20 11	2	3511777633333636
			539.0 546.8-548.6	carbonate matrix pyritic turb deg. 30 cm light grey limy bed. Unit strongly silicified.	idite beds a 64	24512 24513 24514 24515 24516 24516 24517 24518	551.00-553.0 553.00-555.0 555.00-557.0 557.00-559.0 559.00-561.0 561.00-563.0 563.00-565.0	0 2.00 0 2.00 0 2.00 0 2.00 0 2.00 0 2.00 0 2.00 0 2.00	25 18 14 11 18 5 4	0. 0. 0.	23 21 21 21 22 12 24 24 24 24 24	693 454 595 801 889 705	63 46 48 60 71 58	32 26 25 28 38	2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 3 5 7 3
				7cm laminated carbonate bed A 2mm pyrite lams & 68 deg.	63 deg.	24519 24520	565.00-567.0 567.00-569.0 569.00-571.0	0 2.00	4	0.0	13	828 931	60 62	24 30 32 29	2	3
				60% Laminated ash bands 8 62 a		24522 24523	571.00-573.0 573.00-575.0	0 2.00		0.	19	381	57 68	21 29	22	3
			579.0-583.0	Unit still black time grained,	, slightly less	24525	575.00-577.0 577.00-579.0	0 2.00	7 43	0. 0.		505 571	51 56	26 28	2	3

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FRON	10	DESCRIPTION	Sample	INTERVAL	VID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Kg ppm	Sb ppm
		laminated, moderately silicified. Interval contains 1% fracture filling pyrite.	24526 24527	579.00-581.00 581.00-583.00	2.00	8 16		12 23	471 485		24 40		5
583.00	587.30	MASSIVE MUDSTONE Aphanitic, gray, massive, Brecciated bedding 65° Fra=3/m	24528 24529 24530	583.00-585.00 585.00-586.50 586.50-587.30	1.50	9	1.2 0.1 0.1	17 3 6	453 22 36	7		2	11 9 7
		30% silica alteration - pervasive 5% pyrite - stockwork Dark greyish brown massive faintly bedded silty mudstone. Unit very hard, possibly hornfelsed. Contains 3% fine pyrite as fracture fillings. May be equivalent to CTST unit, as in the right strat location.								-			
587.30	594.00	NUDDY TUFF Fine grained, gray, contorted, bedded bedding 60° Frs=3/m 30% silica alteration - pervasive 20% graphite - replaced phenocryst 1% pyrite - disseminated Unit consists of fragmental looking broken beds of very fine rhyolite ash in a dark grey to black mud matrix. Locally preserved 5cm beds of fine laminated ash are present. Felsic fragments have suffered moderate carbon alteration/replacement originating in the cores of the fragments. Unit has undergone moderate silica alteration after weak sericitization. 590.0 Ash beds 8 60 deg.	24532 24533	587.30-588.00 588.00-590.00 592.00-592.00 592.00-594.00	2.00	53	0.1 0.1 0.1	18 8 6 1	164	13 9 9 7	176 51 15 14	2	18 6 3 3
i94.00		AUTOBRECCIATED RHYOLITE FLOW fine grained, black, Brecciated bedding 63° frs=2/m 30% silica alteration - replaced phenocryst 2% chlorite alteration - replaced phenocryst 25% carbonate alteration - pervesive 30% graphite - pervesive 30% graphite - pervesive 1% pyrite - disseminated Fine rhyolite breccia. Looks like a fine hyaoclastite but is heavily carbon replaced in the matrix. Unit consists of 2-5 flat subangular white rhyolite fragments in a black carbon matrix. Fragment boundaries are curved. Rock has a layered appearence, may represent a weak flow-top	24536 24537 24538	594.00-596.00 596.00-597.50 597.50-598.70 598.70-600.70 600.70-602.70	1.50 1.20 2.00	1	0.1 0.1 0.1 0.1 0.1	14 2 3 3 5	134 106 33 17 49	7 7 5 4 6	14 3 3 10	222222	33333

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FROM	то	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
		hysloclastic explosion breccia. Fragments larger than 3cm show relic flow banding.											
602.70	615.50	AUTOBRECCIATED RHYOLITE FLOW fine-coarse grained, gray, Brecciated Frs=3/m 40% silica alteration - pervasive 3% chlorite alteration - replaced phenocryst 3% sericite alteration - pervasive 20% graphite - replaced phenocryst 1% pyrite - disseminated Rhyolite breccia, fragment supported. Fragments range from 1-9cm in a fine chippy carbon replaced matrix. Larger fragments are light pinkish white and are faintly flow banded. 5 % of the fragments are dark green, strongly chlorite altered.	24541 24542 24543 24544	602.70-604.70 604.70-606.70 606.70-608.70 609.30-611.30 611.30-613.30 613.30-615.50	2.00 2.00 2.00 2.00	43 3 2 2	0.1 0.1 0.1 0.1 0.1	20 7 10 3 18	121 29 84 77	5 4 6 5 6	5 5 9 5 7	22222	3 3 3 3 3 3
<608	,70-609.	30> ANDESITE DYKE/INTRUSIVE Fine-coarse grained, grayish-brown, Brecciated mafic dyke. Unit consists of 10cm subrounded fragments having a chilled 1cm rind and a matrix of fine hysioclastic shards and minor pyrrhotite.											
615.50	616.20	AUTOBRECCIATED RHYDLITE FLOW Fine grained, black, Brecciated bedding 67° Frs=3/m 25% silica alteration - pervasive 15% graphite - pervasive .1% pyrite - disseminated Basal contact of the rhyolite. Interval consists of a weak expanded flow banded breccia in a black silty mud matrix. Unit is moderately carcon replaced.	24546	615.50-616.20	0.70	10	0.1	9	27	4	9	2	
616.20	625.70	LANINATED MUDSTONE Black, bedded, contorted bedding 64° Frs=5/m 5% silica alteration - pervasive 2% pyrite - laminations Black, variably pyritic mudstone with light grey silt beds increasing in thickness to 5cm downhole. Top 2.3 m is contorted and contains 5% subrounded indistinct felsic	24548 24549 24550 24551	616.20-617.50 617.50-618.50 618.50-620.50 620.50-622.50 622.50-624.50 624.50-625.70	1.00 2.00 2.00 2.00	2 13 9 4	0.1 0.1 0.2 0.1 0.1	4 31 40 24 5	692	2 6 53 74 84 60	12 22 54 48 31 17	2222222222	3 3 14 13 5 3

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FROM	TO		DESCRIPTION	Sample	INTERVAL	VID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
	fr	ragments.	This upper interval contains up to 7% pyrite.		*	[
	52	20.5	3mm fine , slightly contorted pyrite bands a 62 deg.											
(eoh)	62	25.77	EOH.											

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Azim Incl 215.00 -85. 224.00 -84. 239.00 -82. 232.00 -82. 222.00 -82. 222.00 -79. 219.00 -79.	15.00 -85.0 24.00 -84.0 39.00 -82.0 32.00 -82.0 22.00 -79.0 19.00 -79.0	Lin Method .00 BRUNTON .00 SPERRY SUN .00 SPERRY SUN .00 SPERRY SUN .00 SPERRY SUN .00 SPERRY SUN	
Azim Incl 215.00 -85. 224.00 -84. 239.00 -82. 232.00 -82. 222.00 -82. 222.00 -79. 219.00 -79.	Azim Incli 15.00 -85.00 24.00 -84.00 39.00 -82.00 32.00 -82.00 22.00 -79.00 19.00 -79.00	Lin Method .00 BRUNTON .00 SPERRY SUN .00 SPERRY SUN .00 SPERRY SUN .00 SPERRY SUN	
224.00 -84. 239.00 -82. 232.00 -82. 222.00 -79. 219.00 -79.	24.00 -84.0 39.00 -82.0 32.00 -82.0 22.00 -79.0 19.00 -79.0	.00 SPERRY SUN .00 SPERRY SUN .00 SPERRY SUN .00 SPERRY SUN .00 SPERRY SUN	

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FROM	T0		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppr	Zn ppm	Cu ppr	As ppr	Hg ppm	sb ppm
0.00	3.05	CASING												
3.05	94.80	bedding 60 Frs=5/m :Vi 3X silics : 5X carbona 3X qz-carb 2X pyrite Laminated : grey very : mudstone co material. swings from of shearing	black, bedded, lamineted *:qz_carb veining 60°											
		11.5 14.3	Beds & 57 deg. Beds & 53 deg.											
		16.1-17.0	60% ribbon qc veis 8 60 deg.											
		19.5	1cm Laminate , bedding parallel white carbonate vein or possibly recrystallized bed.											
		20.0	Belemite					1				ļ		
		24.0	Beds a 58 deg.											
		34.0	8eds a 45 deg.											
		35.1-36.0	Broken core minor shearing.											
		38.7	Fiberous white carbonate in 2cm shear @ 5 deg.											
		Light grey 5-10cm.	ash bands are increasing in thickness averaging		i									
		46.3	1 cm fine pyrite Lam 9 53 deg.											
		48.5-48.8	Broken core.											
		50.7	Internally contorted bedding within 12 cm laminated ash band 9 50 deg.											

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FROM TO		DESCRIPTI30 N	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb pp
	58.2-58.8	Fault zone, rubble centred on 10 cm gouge at 58.6											
	60.5-60.9	Shear zone a 40 deg.											
	64.3-64.0	Shear, rubble @ 30 deg.			{								
	68.0	Bedding 2 78 deg.											
	68.4-69.5	Fault zone, rubble, gouge, quartz healed breccia.	· · ·	न									
	71.5-72.1	Fault zone, rubble, black clay gouge.			[ļ							ļ
	74.5-75.1	Fault zone, rubble, black clay gouge.											
	78.0	Laminations @ 78 deg.			} .	1							
	80.5	1 cm clay shear 0 38 deg.											
	83.7-84.4	Shear zone, rubble, minor clay 0 30 deg.		:									
	86.3-88.1 b	Sheared, contorted beds with 10% edding parallel QC veins 10 1cm.											
	89.7	Seds 2 50 deg.	-										
	90.7	10cm black sandy clay gouge seam 2 70 deg.											
	93.8	Beds 2 80 deg.											
	94.6-94.8	Shear zone, minor gouge, bedding parallel quartz veins.											
4.80 102.70	bedding 60° Frs=8/m 1% carbonate Massive unit	black, maisive, laminated = alteration - present t, bedding defined by faint light grey											
	calcareous	laminations.		·									
	97.4	15 cm black clay gouge.											
	100.7-101.0	Broken core, minor shearing.											
								{			{		

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FROM	TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Kg ppm	Sb ppm
102.70	399.40	bedding 40" Frs=12/m :V 5% silica a 5% carbonat 5% carbonat 1% pyrite - Laminated b .3-1.5cm Li	d, black, bedded, laminated :shear 20°											
		104.2	Seds 2 75 deg.											
		113.0	8eds 8 88 deg.)]				
		113.4-116.4	Interval is moderately sheared, containing 30% contorted bedding parallel QC veins.											
		118.0	Beds a 65 deg.		,									
		119.4-121.5	Interval is moderately sheared, contains 5% 2mm contorted bedding parallel quartz carbonate veins and graphitic slips.											
		122.5	Beds a 37 deg.											
		124.0	Beds a 50 deg.	E .										
		127.7	Beds 2 70 deg.											
		131.7	Beds a 35 deg.											
		133.0-137.0	Beds a 0-5 deg.											
		141.6	Beds 🕯 20 deg.	1										
		153.0	Beds # 45 deg.											
		158.3	Rhythmically banded ash/mudstone beds @ 57 deg.											
,		167.0	Beds @ 45 deg.				, i							
		Light grey	layers are decidedly coarser silt and have less											

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FROM	TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
		ash compone	nt.	1								<u> </u>		
		175.8	10 cm laminated silty ash bed 2 47 deg. Thicker (>10cm) ash beds have a very fine pyrite nodule in the core.											
[185.5	Beds 2 60 deg.									ļ		(
		195.0	3cm graded ash bed 8 72 deg showing good flames up.											
		199.7	Bedding swung to 5 deg.			ļ								
		201.0	50cm fault zone, rubble minor gouge											{
		205.3	Silty ash beds 8 59 org.											
		209.7-210.3	Shear zone, brecciat∉d, quartz/carbonate stockwork healed.											{
 		214.5-218.0	Rhythmically black/dark grey mudstone, bended at .5-1.5 cm & 57 deg.											
}		221.8-222.5	Fault zone, rubble, graphitic slips contorted beds.						-					
		224.0	1 cm silt beds 0 698 deg.									-		
		232.5	fine silty laminations # 72 deg.											
ĺ		239.5	Rhythmically laminated mudstone @ 64 deg.				1					. 1		ĺ
		244.0	Ash beds # 55 deg.											
}		247.1	Ash/pyrite beds a 52 deg.											* I
		247.5-248.2	Fault zone,broken cor+, rubble, quartz healed breccias.											1
		250.3	Beds 8 20 deg.											
{		252.0	5 cm black clay gouge a 90 deg.							}				Ì
		256.0	Beds a 31 deg.								· · {			
		258.5	Silt beds a 28 deg. Silt beds are less frequent at 3/m.											

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262.5 271.0	DESCRIPTION Beds 0 30 deg.	Sample	INTERVAL	WID	Au ppb	Ag ppm	Ph ppp			1.	1	
	Beds 8 30 deg.	1					Lo Ma	izu bbe	Cu bba	As ppn	Hg ppm	Sb ppm
271.0		{								1		
	Beds # 32 deg.		ł		{	}						
275.0-275.9	Fault zone, rubble, graphitic slips and 10% fine broken quartz veins.											
281.0	10cm quartz vein 2 48 deg.					}]]	
282.4	Scm graphitic gouge.											1
284.6	Beds 2 60 deg.											
290.7	Beds 2 70 deg. Well bended.											
295.4	Beds 2 65 deg.											
301.7-302.1	Light grey silty bed 0 78 deg.	{										
mudstone is	are getting further apart and less frequent, well banded on a 1-3cm scale by 2mm black lams grey mudstone.											
312.0	Beds 3 60 deg.		1					{				-
317.8	Cyclic .5 cm silt beds @ 71 deg.											
323.7	Beds a 60 deg.										{	
328.0	Beds & 51 deg.						1				ł	
335.0	6cm laminated fine ash bed 0 72 deg.						}					
337.7-338.6	Fault zone, badly broken, 30 % black clay gouge.											
341.0	Silt Lems @ 71 deg.								{			
343.7-344.6	Fault zone, sheared and veined at 26 deg.	}										
345.8	Fine silt lams 2 77 deg.									{		
346.8-347.4	Fault zone, badly broken, minor clay gouge.											
350.3	Ash beds 3 68 deg.		{		1		ł					
	328.0 335.0 337.7-338.6 341.0 343.7-344.6 345.8 346.8-347.4	 328.0 Beds & 51 deg. 335.0 6cm laminated fine ash bed @ 72 deg. 337.7-338.6 Fault zone, badly broken, 30 % black clay gouge. 341.0 Silt lams @ 71 deg. 343.7-344.6 Fault zone, sheared and veined at 26 deg. 345.8 Fine silt lams @ 77 deg. 346.8-347.4 Fault zone, badly broken, minor clay gouge. 	 328.0 Beds & 51 deg. 335.0 6cm laminated fine ash bed @ 72 deg. 337.7-338.6 Fault zone, badly broken, 30 % black clay gouge. 341.0 Silt lams @ 71 deg. 343.7-344.6 Fault zone, sheared and veined at 26 deg. 345.8 Fine silt lams @ 77 deg. 346.8-347.4 Fault zone, badly broken, minor clay gouge. 	 328.0 Beds & 51 deg. 335.0 6cm laminated fine ash bed @ 72 deg. 337.7-338.6 Fault zone, badly broken, 30 % black clay gouge. 341.0 Silt lams @ 71 deg. 343.7-344.6 Fault zone, sheared and veined at 26 deg. 345.8 Fine silt lams @ 77 deg. 346.8-347.4 Fault zone, badly broken, minor clay gouge. 	328.0 Beds & 51 deg. 335.0 6cm laminated fine ash bed @ 72 deg. 337.7-338.6 Fault zone, badly broken, 30 % black clay gouge. 341.0 Silt lams @ 71 deg. 343.7-344.6 Fault zone, sheared and veined at 26 deg. 345.8 Fine silt lams @ 77 deg. 346.8-347.4 Fault zone, badly broken, minor clay gouge.	328.0 Beds & 51 deg. 335.0 6cm laminated fine ash bed @ 72 deg. 337.7-338.6 Fault zone, badly broken, 30 % black clay gouge. 341.0 Silt lams @ 71 deg. 343.7-344.6 Fault zone, sheared and veined at 26 deg. 345.8 Fine silt lams @ 77 deg. 346.8-347.4 Fault zone, badly broken, minor clay gouge.	328.0 Beds & 51 deg. 335.0 6cm laminated fine ash bed @ 72 deg. 337.7-338.6 Fault zone, badly broken, 30 % black clay gouge. 341.0 Silt lams @ 71 deg. 343.7-344.6 Fault zone, sheared and veined at 26 deg. 345.8 Fine ailt lams @ 77 deg. 346.8-347.4 Fault zone, badly broken, minor clay gouge.	328.0 Beds & 51 deg. 335.0 6cm laminated fine ash bed @ 72 deg. 337.7-338.6 Fault zone, badly broken, 30 % black clay gouge. 341.0 Silt lams @ 71 deg. 343.7-344.6 Fault zone, sheared and veined at 26 deg. 345.8 Fine silt lams @ 77 deg. 346.8-347.4 Fault zone, badly broken, minor clay gouge.	328.0 Beds & 51 deg. 335.0 6cm laminated fine ash bed @ 72 deg. 337.7-338.6 Fault zone, badly broken, 30 % black clay gouge. 341.0 Silt lams @ 71 deg. 343.7-344.6 Fault zone, sheared and veined at 26 deg. 345.8 Fine silt lams @ 77 deg. 346.8-347.4 Fault zone, badly broken, minor clay gouge.	328.0 Beds & 51 deg. 335.0 6cm laminated fine ash bed @ 72 deg. 337.7-338.6 Fault zone, badly broken, 30 % black clay gouge. 341.0 Silt lams @ 71 deg. 343.7-344.6 Fault zone, sheared and veined at 26 deg. 345.8 Fine silt lams @ 77 deg. 346.8-347.4 Fault zone, badly broken, minor clay gouge.	328.0 Beds & 51 deg. 335.0 6cm Laminated fine ash bed @ 72 deg. 337.7-338.6 Fault zone, badly broken, 30 % black clay gouge. 341.0 Silt Lams @ 71 deg. 343.7-344.6 Fault zone, sheared and veined at 26 deg. 345.8 Fine silt Lams @ 77 deg. 346.8-347.4 Fault zone, badly broken, minor clay gouge.	328.0 Beds & 51 deg. 335.0 6cm laminated fine ash bed @ 72 deg. 337.7-338.6 Fault zone, badly broken, 30 % black clay gouge. 341.0 Silt lams @ 71 deg. 343.7-344.6 Fault zone, sheared and veined at 26 deg. 345.8 Fine silt lams @ 77 deg. 346.8-347.4 Fault zone, badly broken, minor clay gouge.

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FROM	TO		DESCRIPTION	Sample	INTERVAL	DIM	Au ppb	Ag ppm	Pb ppm	2n ppna	Cu ppm	As ppm	Hg ppm	Sp ppm
		353.4	Minor shear a 30 deg, broken core, qtz veins and gouge.											
		359.5	Beds a 64 deg.											
		365.0	Fine silt lams have scoured bases, minor cross bedding and are normally graded, tops up.											
		368.5	Beds 2 60 deg.	-	17 7							[1
		370.9	Weak shear 2 45 deg, 30% 2mm ribbbon quartz veins, minor gouge.									-		
ĺ		374.0	Beds a 55 deg.					-		ĺ				
		382,3	Beds 2 63 deg.											
		383.7	Fault, broken core, graphitic slip surfaces.			[
		384.4	Fault, 15cm black sandy gouge @ 45 deg, 50cm broken core.											
		386.0-386.6	Shear zone, healed by 10% 2mm white quartz veins 2 30 deg.											
		387.4-387.9	Fault zone, rubble, graphitic slips.											ĺ
		388.6-389.2	Fault zone, rubble, minor gouge.											
		389.2-393.0	Contorted beds.						· ·					
		393.0-394.4	Fault zone, rubble and gouge.											}
		395.0	Beds a 40 deg. Bedding plane graphitic slips.											-
		398.3-399.4	Fault Zone, broken come, 15 cm gouge & 398.7.											
<182.	.30-185.	.10> LAMINATED Black, be bedding & Frs=3/m	dded											
		Thickly inte	rbedded black mudstone and coarse grey ds ranging to 40 cm.		ł									
399.40	451.30	LAMINATED M. Black, bedde	DSTONE d, Laminated											

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FROM	то		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Ng ppm	Sb ppm
		7% pyrite - Well lamina abundant(20 cm light gr Pyritic bed												
		401.5	5% diss. py above ash bed a 65 deg.											
		412.3	.5 cm fine pyrite beas 0 60 deg.				1			Ì				
		415.75	Pyritic ash beds a 5% deg.											
		425.3	Beds @ 58 deg.											
		428.0	Fine pyrite/ash lams in mudstone @ 78 deg.											
		Box 79 from transport a	1428.89 to 434.95 was spilt during helicopter nd is lost.											
		434.9-451.3	Unit very well lamineted to moderately bedded 8 64 deg. Ash beds are up to 20cm thick and are finely graded and make up 40% of the rock, containing 1-2 % fine disseminated to laminated pyrite.											
<420.5	0-421.	Fine gra contact Frs=1/m 3% carbo	DYKE/INTRUSIVE ined, grayish-brown, bleached, massive 30° nate alteration - pervesive lled mafic dyke with .5 cm chilled contact							, ,				
451.30 4	75.50	5% pyrite - Unit is bed pyrite lami blebs. Int	led	24454	461.70-462.20 467.30-468.00 474.60-475.50	0.70	8		1 4 4		42 32 38	5333	2222	3

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FROM TO	· · · · ·	DESCRIPTION	Sample	INTERVAL	WID	lau ook	40	05					
	rich clasts sand matrix	of 10% .5-1.5 subrounded light grey carbonate or poorly developed concretions in a carbonate and carry 2-4 % fine disseminated pyrite and ent of the carbonate clasts.				Au ppb	Ag ppm	PD ppa	<u>i cn ppm</u>	cu ppm		Ng ppm	Sp bbu
	456.5	Fine pyritic beds 2 62 deg.			1								
	458.2	Beds @ 58 deg. ¹ 2											
	461.7-462.2	Carbonate debris, graded, 3% pyrite.	**	- ¹⁷⁷ .									
	464.6	12 cm dia. light grey pyritized carbonate ball.											
	467.3-468.0	Carbonate debris, poorly sorted, graded, 2% very fine pyrite.											
75.50 501.00	Black, bedde bedding 70°: Frs=5/m :Vns 5% silica al 7% pyrite - Well bedded, black mudsto bands. Unit	ed, Laminated bedding s =3/m teration - pervasive laminations intimately interbanded fine light grey ash, one and laminated kahki colored pyritic ash t has been intruded by two fine chilled ific sills. Bases of thicker pyritic ash beds	24457 24458	495.00-496.50 496.50-498.00 498.00-499.50 499.50-501.00	1.50	18	0.1 0.4 0.5 0.4	6 20 24 12	196 876 677 392	60 50	217	2222	23
	481.5	Beds a 62 deg.											
	487.5	Laminations @ 75 deg.											. '
	495.9-496.2	White quartz breccia vein.											
	499.5	White qtz veins a 20 deg.											
		Soft sediment breccistion via fluidization of laminated pyritic becs. Breccia has been healed by fine colloform pyrite.											
	500.0-501.0 fracture	Unit weakly silicified and hard, contains very fine hairlike stockwork of qtz. healed											

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FROM	TO		DESCRI	PTION		· · · · ·	Sample	INTERVAL	WID	Au ppb	Ag	ppm	Pb ppm	Zn ppn	Cu ppr	As pp	m Hg pp	m Sb (ppm
<488.	70-489.		DYKE/INTRUSIVE								Γ								
			ined, grayish-b	rown, bleached	, vesicular			ł	1									1	
		contact 4% carbo	nate alteration	- pervasive			1												
			c sill with 30		and chilled														
			ock is variably						ļ			-		i i					
<490.	40-495	00> ANDESITE	DYKE/INTRUSIVE																
		Fine gra	ined, grayish-b		vesicular			-	}	ł	ł			1	1	1	1		
		contact	46*																
		Frs=2/m	nate alteration	- merupaine															
			sill, core cont		ound black				!					i i					
			Both contacts				1							ľ					
		calcareous.															Ì		
501.00	502.50			•			24460	501.00-502.50	1.50	7	,	0.2	25	129	4	8	1	2	8
			tic, heterolith	ic															
		Frs=5/m	-14																
			alteration - pe alteration - p						[1	ĺ			1		1	1		
		5-9% pyrite																	
		Top 20cm of	unit contains	light green se	ricitized		ļ		1	1								ŀ	
		fragments i	n a fine graine	d siliceous ma	trix. Remaind	er													
		of the unit	consists of va cm and black p	riably pyritic	: light grey as a fragments in	n A	· ·											i	
		silicified	mudstone matrix	. Unit contain	s 7% ovrite as						1								
			broken beds.																
		501.8	3 cm clay seam	a 38 ceg.															
502.50	515.30	LAMINATED M						502.50-504.00				0.1	23	113	5 4	8	2	2	3
			black, bedded,	lamina:ed				504.00-505.50				0.2	15	133	5	10	2	2	- 6
502.50 5		bedding 65°						505.50-507.00 507.00-508.50				0.2 0.2	· 13	143	25	10	0	2	8
		Frs=10/m :V	ns ≍⊃/m lteration - per	vaciva			24465	508.50-510.00				0.2	16				.U .8	2	3 6 8 3
			eration - gouge					500150 510100										-	-
			ng - microveins				·							-					
			laminations																
			, pyrite lamina											1					
			row gougy shear bleached by un					ł]			
		502.8	Quartz healed silicified.	breccia, adjac	ent mudstone i	\$													
		504.5	Beds & 70 deg.																

HOLE: ADL9439 HOMESTAKE			ANADA - A	PAGE 10 of 11									
FROM	TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	sp pr
		505.1-505.4 Fault, 70% black gougy clay.								:			
		507.0-507.5 Fault, sheared broken core @ 60 deg.											
		508.5 Beds @ 70 deg., unit contains 1% disseminated pyrite and 1% laminated pyrite.				ļ							
<510	.00-515.	30> LANINATED MUDSTONE Fine grained, pale gray, bedded, bleached bedding 75°:contact 80° Frs=3/m Well banded mudstone has been bleached to a light greyish brown. Relic bedding still visible, carbonate and pyrite are absent.		tit.			· · · · · · · · · · · · · · · · · · ·						
		513.0 Beds # 85 deg.				Į							
		Lower contact sharp at 80 deg.											
15.30	644.35	ANDESITE DYKE/INTRUSIVE Green, massive, bleached fracturing 20° de Frs=2/m 2% chlorite alteration - coatings 3% carbonate alteration - microveins Thick conformable mafic sill. Upper contact and top 3 m bleached and chilled very fine grained to aphanitic. Unit coarsens down to a medium to coarse grained dioritic looking rock with clear 1-2mm felted feldspar laths at											;
		554.0. Rock is extremely massive and homogeneous. Minor shears have chlorite/carbonate coated surfaces.											ļ
		515.3-515.6 Top of unit contains 10% 2mm round black amygdules.											-
		546.3-547.1 Shear @ 20 deg. Center contains 5cm carbonate/chlorite vein.											
		From 559.2 downwards the unit becomes medium to coarse grained and more equigranular, less felted feldspars.			ĺ								
		567.5-567.6 3cm shear @ 10 deg. minor green chloritic gouge.											
		580.8-581.3 Broken core, chloritic slips 2 20 deg.											

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FROM	ŤĎ		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	n As ppm	Ng pom	Sb por
		587.3	Pyroxene no longer fresh, light brown with diffuse marging, gone to biotite plus chlorite.											
		593.0	Whole rock samle.											
		605.18	Texture still equigranular, coarse grained, brown biotite altered pyroxene to 3mm. Fracture surfaces are chlorite coated at 30-40 deg.											
		614.7-615.7	Broken core, chloritic slickensides at 30 deg.			Ì								
		625.9	Grain size slightly finer, averaging 1-2mm.			}								1
		632.2-632.5	Broken core, Graphitic slips & 15 and 35 deg.			{ · ;								
		641.1	1 cm chlorite carbonate vein 2 30 deg. Trace pyrite on slickensides.											
(eoh)		644.35	EOH,											

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10/19/94

HOMESTAKE CANADA	DIAMOND DRILL	HOLE L	0G			ADL9440
PROJECT: Adrian 1994 DRILL HOLE: ADL9440 LENGTH: 628.80	Date Commenced: SEPT.16/94 Date Completed: OCT.3/94 Core Diam: NQ	Contrad	tor: ADVAN	CED DRILLI	NG	Logged by: DLK Geotech by: GRDB
Collar Location			<u> </u>			
Latitude: 20090.00 Departure: 22930.00 Elevation: 695.00		495				
·	S U N N A R Y		Depth	DOWN HOLE Azim	SURVEYS Inclin	Method
271.60-281.20 281.20-329.00 329.00-375.80 375.80-492.00 492.00-605.10 605.10-612.00 612.00-616.72 616.72-628.60	LANINATED MUDSTONE INTERBEDDED MUDS./SILTSTONE LAMINATED MUDSTONE MASSIVE MUDSTONE LAMINATED MUDSTONE LAMINATED MUDSTONE		0.00 90.80 183.00 274.00 365.00 548.00	235.00 244.00 241.00 247.00 247.00 246.00	-80.00 -79.50 -79.00 -76.00 -76.00 -73.50	BRUNTON SPERRY SUN SPERRY SUN SPERRY SUN
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FROM	TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	As ppm	Pb ppm	Zn ppm	Cu ppin	As ppr	Hg ppm	Sb ppm
0.00	3.05	CASING												
3.05	237.50	bedding 50 Frs=7/m :Vr 2% carbonat .5% pyrite Well bedded 1-20cm ligh	ded, laminated 'sfracturing 40"											
		6.7	8eds 9 62 deg.											1
		9.8-10.4	Fault. broken core, rubble and minor clay gouge.											
1		14.0	Fine pyrite lams 8 68 deg.											[
		18.7-19.5	Fault zone, broken core, graphitic slips.											Į
		25.5	Beds 2 70 deg.											ŀ
		39.5-40.4	Fault zone, rubble gouge, graphitic slips 0 30 deg.	-										
		44.5	Beds 🕯 70 deg.											
		49.5	Unit is rhythmically black/dark grey banded a a icm scale a 74 deg.		2 2 2	ł]				
		57.0	Beds 🔒 65 deg.							Ì				.
		63.5-64.2	Broken core.							ł				
		66.15	15cm quartz healed breccia in 30 cm silt bed.											
		70.0	Beds 9 85 deg.											
		75.5	Beds 9 85 deg.			1								
		81.4-82.1	Contorted bedding, 10% quartz/carbonate stockwork veins.											
ļ		86.0	Beds # 58 deg.				ļ	ļ		[

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FROM	TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As pon	Hg pom	Sb ppm
		93.5	Laminated silty beds @ 34 deg.			+		<u> </u>		···-				
		96.0	Beds 2 35 deg.						ĺ					}
		98.3-99.6	Broken core, minor shearing and bedding parallel qtz. veins.											
		104.0	Beds 2 34 deg.											1
		104.5-104.9	Broken core.	· .:	÷		[
		107.5-120.6	Beds @ 5-15 deg.							[
		121.0-122.0	Fault zone, 60 % quartz carbonate veins, broken core and minor black gouge.								:			
		123.5	Beds 0 80 deg.				{							
		128.5	30 cm quartz breccia vein.											
		129.0	Beds @ 78 deg. Unit has less silty ash beds and is dark grey with fine, 3mm black rhythmic bands.		•									
		134.8	Broken core.											
		135.5	Fine grey ash bands 0 78 deg.											
		145.9	Fine silt beds @ 5/32 @ 72 deg.											
		153.7-154.2	Laminated, graded coarse to fine silt.								ĺ			
		158.5-158.8	Fault zone, broken core, minor gouge.											
		164.9	10 cm gouged shear.											
		168.8	Beds @ 71 deg.											
		173.7	1cm light grey slightly pyritic ash bands 2 70 deg.											
		175.0-175.6	Fault, strongly sheaped and gouged.											
		183.6-184.4	Light grey ash bed ਦੇ 57 deg.											
		190.5	Seds 3 78 deg.											

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FROM	TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn nor	Cu and	1 4 e	Ha	elet
		191.1-191	.3 Weakly sheared, silica healed.											
			.0 Sheared, beds contorted, quartz stockwork.											
		198.0	Seds @ 65 deg. Unit rhythmically dark grey/black at a .5-1.m scale. Pyritic fine silt lams rare @ 1/2m.											
		203.5	Beds 2 61 deg.	- 2										
		207.8	Broken core.		•									
		215.0	Laminations 9 50 deg.											
		217.8	10 cm bedding parallel shear 0 48 deg.]]]		
		220.5	Broken core, minor gouge.										1	
		226.0	Beds 8 47 deg.											
		235.0	Beds @ 48 deg.			ļ								l
		236.9	Grapitic slip & 20 deg.											ĺ
<88.9	00- 93.00	Frs=50/ 10% cla	tic, black, Brecciated, broken /m :Vns =7/m ny alteration - gouge nlt, broken core, gouge, quartz veins a 20 deg.											
87.50	244.70	fracturing Frs=35/m : 10% silica 5% clay al 10% qz vei 5% qz-carb	Vns =15/m alteration - microveins teration - gouge ning - microveins veining - microveins											
4.70	271,60	QC veins a	Il sorted, poorly badded siltstone. Unit has y sheared and broken containing numerous broken and quartz veins, minor gouge and abundant slip surfaces.											
		Aphanitic, bedding 65 Frs=14/m :	black, bedded, laminated ":fracturing 84"											

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HOLE: ADL9440

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FRON	to		DESCRIPTTON		Sampi	INT	ERVAL	WID	Au ppb	Ag pr	m Pb) ppm	Zn ppn	Cu ppm		Hg ppm	sb ppm
	<u></u>	1% pyrite - Well banded 1cm light gi	laminations to laminated black mudatone. I rey slightly pyritic silt beds	Unit contains <5%													
		247.0	Laminations @ 50 deg.											ĺ	j		
		249.2-249.7	Broken core.					l		-					· ·	}	
		258.3	Beds @ 60 deg.			, .											
•		254.8-255.2	Broken core, minor gouge.							1				1		}	
		267.8	10 cm bedding parallel shear i	9 55 deg.													
		270.5	Beds 2 66 deg.													1	
271.60	281.20	Black, bedde bedding 60°: Frs=4/m 1% qz-carb v Interbedded	MUDS./SILTSTONE cd fracturing 60° reining - microveins at a 2-15 cm scale, black find I fine graded light grey silt b	ely laminated													
		273.2	Beds 9 57 deg.			l									. 	Į	
		276.0	Beds & 52 deg.														
			Fault zone centred at 279.7 in clay gouge, bedding parallel a												-		
281.20	329.00	bedding 60°: Frs=7/m :Vns 3% silica al 1% clay alte 5% qz-carb v .2% pyrite - Thick to thi 3-30 cm fine over short c interval.	d, Laminated shear 40°	anges from 10 deg jority of the ears and fault													
		281.5-284.0	Broken core 5% quarte/carbonat	te veins.					Į								

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no		AD.	L744U	

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FROM	to		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb pp	Zn ppm	Cu nom	A	110 000	Sh m
								101 Marin				Lys bhi	an bba	
		292.0	Fine Laminations & 60 deg.							1		l		[
		295.5-297.8	30% quartz stockwork, slightly contorted,											
		297.8-298.6	Fault Gouge, Nassive black sandy clay gouge, lower contact at 46 deg.											
		359.8-360.2	Light grey finely graded silt bed @ 60 deg.		*].			F		
		302.6	Beds @ 10 deg, offset on cm scale by hairline faults @ 90 deg.		••									
		307.0	Beds a 45 deg.											
		309.3-310.8	Weakly sheared 8 20 deg, 40% fine white quartz carbonate beds.											
		316.0	Rhythmic 2mm silt beds spaced a 3cm a 60 deg.	ł		{								ł
		321.0	15 cm black gouge,50 cm broken core with 10% quartz vein healing.											
		328.8	Beds 2 60 deg.											
29.00 :	375.80	bedding 58° Frs=4/m :Vn .2% qz-carb Massive, be dark grey m	black, bedded, massive :fracturing 30°											
		333.1-333.3	Broken core, graphitic slips.											
		337.0	Beds a 63 deg.											
		346.0	.5 cm silt bed with flamed base showing tops up a 62 deg.											
		357.0	Fine silt lam 57 deg.											
		364.1	Bedding 8 71 deg.											
		372.5	Lighter grey diffuse contacts to 10cm grey micrite.											

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to													
		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Kg ppm	sp ppm
	375.0	Beds 2 65 deg.											
92.00													
	Aphanitic,	black, bedded, laminated	1										
	Frant/w the	s #3/m											
	2% silica a	lteration - microveins											
	1% carbonat	e alteration - present	· · · ·	-	}	l	[l I		ł		Į
	.2% ovrite	- Laninations											
	Well bedded	at 2-5cm thickness, having 3cm black mud beds											
	and 2-5cm l silt beds @	ighter grey mud beds with 5% 1-5 cm light grey 5/m.											
	380.0	Beds 2 57 deg, cleavage 2 10 deg, normal to											
		beds strike.											
	387.0	Beds 2 71 deg.											
	392.0-392.4	Shear zone,strong fabric 2 50-75 deg, 40%											
-	(00.0												
		seas a oo deg.	•										
	403.9	7cm grades sandy silt bed @ 65 deg.											
	406.6-407.1	Quartz/carbonate hesled shear zone a 45 deg.											
	413.7	Beds 2 60 deg.											
	419.1	Graded silt bed a 60 deg showing good flames											
		up.											
	425.7-425.9	Ribbon quartz vein healed shear zone 8 47 deg.		•									•
	426.8	2 cm pyritic silt bed 2 80 deg.											
	435.2	Beds have swung to 30 deg.											
	440.1-440.4	Fault broken core, rubble, minor gouge.]	
	447.0	Beds # 10 deg.											
		92.00 LAMINATED M Aphanitic, bedding 72° Frs=5/s:Vn 2X silica a 1X carbonat .5X clay al .2X pyrite Well bedded and 2-5cm l silt beds B 380.0 387.0 392.0-392.4 400.0 403.9 406.6-407.1 413.7 419.1 425.7-425.9 426.8 435.2 440.7	 Jamma Stratter Stratt	 192.00 LANIMATED MUDSTONE Aphanitic, black, bedded, laminated bedding 72°:fracturing 38° Fra=5/m :Yns =3/m 2X silica alteration - microveins 1X carbonate alteration - present .5X clay alteration - gouge .2X pyrite - laminations Well bedded at 2-5cm thickness, having 3cm black mud beds and 2-5cm lighter grey mud beds with 5X 1-5 cm light grey silt beds 8 57 deg, cleavage 2 10 deg, normal to beds strike. 380.0 Beds 8 57 deg, cleavage 2 10 deg, normal to beds strike. 387.0 Beds 8 57 deg, cleavage 2 10 deg, normal to beds strike. 387.0 Beds 8 71 deg. 392.0-392.4 Shear zone,strong fabric 2 50-75 deg, 40X quartz veining. 400.0 Beds 8 68 deg. 403.9 7cm grades sandy silt bed 2 65 deg. 406.6-407.1 Quartz/carbonate healed shear zone 2 45 deg. 413.7 Beds 2 60 deg. 419.1 Graded silt bed 2 60 deg showing good flames up. 425.7-425.9 Ribbon quartz vein hsaled shear zone 2 47 deg. 426.8 2 cm pyritic silt bed 2 80 deg. 435.2 Beds have swung to 30 deg. 440.7 Silt beds alightly contorted 2 30 deg. 440.1-440.4 Fault broken core, rubble, minor gouge. 	 92.00 LAMIMATED MUDSTONE Aphanitic, black, bedded, Laminated bedding 72:17acturing 30° Fras5/m:Vns =3/m ZK silica alteration - present .5% clay alteration - gouge .2% pyrite - Laminations Well bedded at 2-5cm thickness, having 3cm black mud beds and 2-5cm lighter grey mud beds with 5% 1-5 cm light grey silt beds 8 5/m. 380.0 Beds 8 57 deg, cleavage 8 10 deg, normal to beds strike. 387.0 Beds 8 71 deg. 392.0-392.4 Shear zone,strong fabric 8 50-75 deg, 40% quartz veining. 400.0 Beds 8 68 deg. 403.9 7cm grades sandy silt bed 8 65 deg. 406.6-407.1 Quartz/carbonate heried shear zone 8 45 deg. 413.7 Beds 8 60 deg. 413.7 Beds 8 60 deg. 425.7-425.9 Ribbon quartz vein healed shear zone 8 47 deg. 426.8 2 cm pyritic silt bed 8 80 deg. 435.2 Beds have swung to 30 deg. 440.1-440.4 Fault broken core, rubble, minor gouge. 	 James Construction (1998) James C	 92.00 LANIMATED RUDSTONE Aphanitic, black, bedded, laminated bedding 72:tracturing 33° Fra=5/m :Vm = 3/m ZX silica alteration - microveins 1% carbonate alteration - present .5% city alteration - gouge .2% pyrite - laminations Well bedded at 2-5cm thickness, having 3cm black mud beds and 2-5cm lighter grey mud beds with 5% 1-5 cm light grey silt bedde at 2-5cm thickness, having 3cm black mud beds and 2-5cm lighter grey mud beds with 5% 1-5 cm light grey silt bedded at 2-5cm thickness, having 3cm black mud beds and 2-5cm lighter grey mud beds with 5% 1-5 cm light grey silt bedde at 71 deg. 380.0 Beds 8 57 deg, cleavage 8 10 deg, normal to beds strike. 387.0 Beds 8 71 deg. 392.0-392.4 Shear zone,strong fabric 8 50-75 deg, 40% quartz veining. 400.0 Beds 8 68 deg. 403.9 7cm grades sandy silt bed 8 65 deg. 406.6-407.1 Quartz/carbonate healed shear zone 8 45 deg. 413.7 Beds 8 60 deg. 419.1 Graded silt bed 8 60 deg showing good flames up. 425.7-425.9 Ribbon quartz vein healed shear zone 8 47 deg. 426.8 2 cm pyritic silt bed 8 80 deg. 435.2 Beds have swung to 30 deg. 440.7 Silt beds slightly contorted 8 30 deg. 440.1-440.4 fault broken core, rubble, minor gouge. 	 92.00 LANINATED MADSTONE Aphanitic, black, bedded, laminated bedding 72*ifracturing 38* Fres5/m:vrs s3/m 2X silica alteration - present -35 clay alteration - present -36 clay - present -37 clay alteration - present -36 clay - present -37 clay alteration - present -37 clay alteration - present -37 clay alteration - present -37 clay alteration - present -36 clay - present -37 clay alteration - present -37 clay alteration - present -37 clay alteration - present -38 c	 92.00 LANINATED MUDSTONE Aphanitic, black, bedded, laminated bedding 72*ifracturing 35* FresSy sive s3/m 2X silica atteration - present .3X carbonate atteration - present .3X carbonate atteration - present .3X carbonate atteration - present .3X carbonate atteration - present .3X carbonate atteration - present .3X carbonate atteration - present .3X carbonate atteration - present .3X carbonate atteration - present .3X carbonate atteration - present .3X carbonate atteration - present .3X carbonate atteration - present .3X carbonate atteration - present .3X carbonate atteration - present .3X carbonate from fabric 2 for the present and 2-5cm tighter grey mub beds with 5X 1-5 cm tight grey all theosis 2 5/m. 380.0 Beds 2 57 deg, cleavage 2 10 deg, normal to beds atrike. 387.0 Beds 2 57 deg, cleavage 2 10 deg, normal to beds atrike. 387.0 Beds 2 68 deg. 400.0 Beds 2 68 deg. 403.9 Tom grades sandy silt bed 2 65 deg. 406.6-407.1 Quartz/carbonate herled shear zone 2 45 deg. 413.7 Beds 2 60 deg. 419.1 Graded silt bed 2 60 deg showing good flames up. 425.7-425.9 Ribbon quartz vein healed shear zone 2 47 deg. 425.8 Z cm pyritic silt bed 2 80 deg. 435.2 Beds have swang to 30 deg. 440.1 - 440.4 Fault broken core, rubble, minor gouge. 	 92.00 LAMINATED MUDSTONE Aphanitic, black, bedded, Laminated bedding 72: fracturing 38* fras5/m tyme s3/m 2X silica alteration - microveins 1X carbonate alteration - mouse .2X pyrite - Laminations Well bedded at 2-5cm thickness, having 3cm black mud beds and 2-5cm lighter grey mud beds with 5X 1-5 cm light grey silit beds 8 5/m. 380.0 Beds 8 57 deg, cleavage 8 10 deg, normal to beds strike. 387.0 Beds 8 71 deg. 392.0-392.4 Shear zone, strong fabric 8 50-75 deg, 40X quartz veining. 400.0 Beds 8 68 deg. 403.9 Tom grades sandy silt bed 8 65 deg. 406.6-407.1 Quartz/carbonate hested shear zone 8 45 deg. 413.7 Beds 8 60 deg. 413.7 Beds 8 60 deg. 419.1 Graded silt bed 8 60 deg. 425.7-425.9 Ribbon quartz vein hested shear zone 8 47 deg. 426.8 2 cm pyritic silt bed 8 80 deg. 435.2 Beds have saung to 30 deg. 440.1-440.4 Fault broken core, rubble, ainor gouge. 	 92.00 LAMINATED REDSTONE Aphanitic, black, bedded, laminated bedding 72:fracturing 38° Frastor Ytes - Jamiations IX cathemate atteration - peouge .25 prite - lamiations Well bedded at 2-Som thickness, having 3cm black mud beds and 2-Som Lighter grey mud beds with 3X 1-5 cm light grey silt beds 8 57. deg, cleavage 8 10 deg, normal to beds strike. 380.0 Beds 8 57 deg, cleavage 8 10 deg, normal to beds strike. 387.0 Beds 8 71 deg. 392.0-392.4 Shear zone, strong fabric 2 50-75 deg, 40X quartz veining. 400.0 Beds 8 68 deg. 403.9 Tom grades sandy silt bed 8 65 deg. 406.6-407.1 Quartz/carbonate heeled shear zone 8 45 deg. 413.7 Beds 8 60 deg. 413.7 Beds 8 60 deg. 413.7 Beds 8 10 deg showing good flames up. 425.7-425.9 Ribbon quartz vein healed shear zone 8 47 deg. 426.8 2 cm pyritic silt bud 8 80 deg. 435.2 Beds have sung to 30 deg. 440.7 Silt beds slightly contorted 8 30 deg. 440.1-440.4 Fault broken core, rubble, minor gouge. 	 92.00 LANIMATED NEDSTONE Anhanitic, black, bedded, imminated bedding 72*tracturing 38* Fras5x, styns s3ym ZX silica alteration - microveina IX cathomate alteration - gouge .2X prite - imminations Well bedded at 2-5cm thickness, having 3cm black mud beds and 2-5cm lighter grey mud beds with 5X 1-5 cm light grey silit beds 8 57 deg, clearage 9 10 deg, normal to beds strike. 380.0 Beds 8 57 deg, clearage 9 10 deg, normal to beds strike. 387.0 Beds 8 71 deg. 392.0-392.4 Shear zone, strong fabric 8 50-75 deg, 40X quartz veining. 400.0 Beds 68 deg. 403.9 Tem grades sandy silt bed 8 65 deg. 406.6-407.1 Quartz/carbonate heried shear zone 8 45 deg. 413.7 Beds 8 60 deg. 413.7 Beds 8 60 deg. 425.7-425.9 Ribbon quartz vein healed shear zone 8 47 deg. 426.8 2 cm pyritic silt bed 8 80 deg. 435.2 Beds have sung to 30 deg. 440.7 Silt beds alightly contorted 8 30 deg. 440.1-440.4 Fault broken core, rubble, micro gouge. 	 92.00 LANIMATED HEDSTONE Afhanitic, black, bedded, Laminated bedding 72*fracturing 38* Trasfyr iver asyme 2% silica alteration - microveina 1% to bedde at 2*5cm ighter gray mud beds with 5% 1-5 cm light gray silit bedde at 2*5cm thickness, having 3cm black mud beds and 2*5cm lighter gray mud beds with 5% 1-5 cm light gray silit beds 8 5/m. 380.0 Beds 8 57 deg, cleavings 8 10 deg, normal to beds attrike. 380.0 Beds 8 71 deg. 392.0-392.4 Shear zone strong fabric 8 50-75 deg, 40% quartz veining. 400.0 Beds 8 6 deg. 403.9 Tom grades sandy silt bed 8 65 deg. 406.6-407.1 Quartz/carbonate herled shear zone 8 45 deg. 413.7 Beds 8 6 deg. 413.7 Beds 8 6 deg. 413.7 Beds 8 6 deg. 425.7-425.9 Ribbon quartz vein healed shear zone 8 47 deg. 425.7-425.9 Ribbon quartz vein healed shear zone 8 47 deg. 425.7-425.9 Ribbon quartz vein healed shear zone 8 47 deg. 425.7-425.9 Ribbon quartz vein healed shear zone 8 47 deg. 426.8 Z cm pyritic silt bed 8 80 deg. 435.2 Beds have saung to 30 deg. 440.7 Silt beds alightly contorted 8 30 deg. 440.1-440.4 Fault broken core, rubble, minor gouge.

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ROM	to		DESCRIPTION	Sample	INTERVAL	1	1 4			L			<u> </u>	L
				Seinpu	INTERVAL	WID	Au ppb	Ag ppm	PD ppm	Zn ppm	Cu ppm	As ppn	Hg ppa	Sbp
		451.0-451.5	Fault zone.											
		452.7	Beds & 60 deg. Below fault, filme 2-5mm pyritic laminations are more frequent @ 4/m.										Ĩ	
		457.6	1cm pyritic lam Ձ 9) deg.							5				
		463.0	Beds 8 81 deg.		- m									
		468.3	Fine silt laminations @ 78 deg.										'	
		472.6	7 cm graded ash beci a 72 deg.		Í									
		480.4-480.8	Fault, broken core, thin quartz beccia veins on contacts a 37 deg.				1							
		482.3	Laminated pyritic bed, 3cm thick 2 68 deg.											
		482.3-492.0	Finely laminated black mudstone, bedding @ 70 deg. Lower contact is gradational, no fualt involved.											
.00	605.10	LAMINATED H		24566	551.40-552.60	1.20	4	0.1	6	207	49	- 20	2	
		bedding 75":	d, bløck, bedded, laminated :shear 30°	24567	552.60-553.50 553.50-554.50	0.90	6	0.2 0.4	19 11	440 713	38 48	20 24 23 28 24 63 45	2	
		Frs=6/m	te alteration - pervasive	24569	568.70-569.70	1.00	2	0.3	16	336	45	28	2	
			teration - pervasive	24570	569.70-570.80 580.00-582.00	1.10	1	0.1 1.3	10 15	182 1117	21	24	2	
		3% qz-carb v	veining - microveins	24572	582.00-584.00	2.00	4	0.8	26 16	519	70 70	45	2	
			laminations unit is well interbecked with fine cyclic light	24573	584.00-586.00	2.00	3	0.8	16	240	28 46 47	24	2	
		bluish grey	ash and fine graded pyrite laminations. Unit	243/4	586.00-588.00 588.00-590.00	2.00	11 8	1.0 0.8	19	650 491	46	38	2 2 2	
		contains wide	ie moderate strength shear zone with contorted	24576	590.00-592.00	2.00	10	0.7	20 22	449	47	40	2	
		bedding and	5-10% ribbon quartz/carbonate veins. Unit is	24577	594.50-596.50	2.00	8	0.4	19	436	42	20	5	
		variably to Salmon River	highly calcareous. This is probably the Upper mudstones.	24579	596.50-598.00 598.00-599.50	1.50	12	0.8	16 16	139 357	53 54	38 46 36 29 29 30 39 38 10	2	
		402 0-406 3	Quiet, finely laminated grey ash, black	24580	599.50-601.00	1.50	22	1.0	19]	468	60 49	39	2	
		472.0-470.3	mudstone and interbedded pyrite. Bedding 2 70	24581	601.00-602.50 602.50-604.00	1.50	18 5	0.8	13	464	49	38	2	
			deg.	24583	604.00-605.10	1.10	2	0.5 0.4	5	223 131	46 48	10 9	2	
		496.3-507.5	Shear zone, interval highly contorted, contains 5-10% while ribbon quartz/carbonate											
			veins. Contains 50 cm black clay gouge											
			sections centred 8:09.4, 503.5 and 506.5.						Ì					
			Shearing is a 30 deg2											

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FROM	TO		DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
		508.3	1mm thick 3mm spaced pyrite lams 2 84 deg. Unit slightly more massive, containing less ash lams but more .5-2cm pyrite beds.											
		510.5	Pyrite beds @ 90 deg. with mud flames up.											
		523.3	Laminated calcareous pyritic beds 0 70 deg.											
		531.6	Broken micritic lst seds, infilled by carbonate rich black mud.	19 J	-									
		538.5	Thinly bedded, carbonate rich layers in black mudstone. Beds @ 70 deg.											
		540.2	10 cm light grey carbonate bed 8 62 deg.											
		544.2	1 cm pyrite bed with flamed base a 72 deg.											
		546.9-547.2	Shear zone, broken core, graphitic slips 2 30 deg. Unit getting very calcareous to limy.											
		551.4-552.6	Finely laninated brownish ash and pyrite lams, 3% fine pyrite.											
		553.5-554.5	Well laminated calcareous black mudstone with brownish grey finely pyritic ash bands to 2 cm.											
		554.6-554.8	Broken core, stretched out in box.											
		556.6-558.0	Fault zone, broken core, 20cm gouge 🕯 557.1.											
		560.9-561.3	Light grey well laminated ash bed 8 80 deg.		,									
		563.3-563.6	Light grey laminated ash (?) bed 2 78 deg.											
		565.8	Belemnite.											
		566.7-567.9	Fault zone, badly/broken, 20 cm sections of black clay gouge 2 567.1 and 567.8.											
		570.89	Beds A 85 deg.											
		594.3-595.3	Shattered and gouged black laminated mudstone.											
		595.3-595.8	Block of mafic, chilled, possible pillow											

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)	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
	block.											
595.8-596.0	8 Fault zone, badly crushed core, gouge. Bedding in blocks & 75 deg.											
599.3	20 cm section of laminated light grey ash with 1% pyrite.											
602.3	Fine pyrite laminations @ 90 deg. cut by .5cm irregular fracture filling pyrite.		. 									
604.5-605.1	I Unit still pyrite laminated but has a more massive silty texturk and grain size. Lower contact clear & 82 년g.											
Black, d bedding	contorted, clastic											
20% cart 7% pyrit Weakly bed internal la	bonate alteration - clasts te - patches ded 0 48 deg, unit contains faint contorted aminations and 20% irregular shaped .5-3cm											
granular ci replaced by	arbonate clasts. These clasts have been y bimodal pyrite ranging from 10-100%.											
Fine gra bedding	ained, black, bedded, laminated 78°											
25% cart 3% pyrit	conste alteration - present te - disseminated											
siltstone. pyrite blek	Unit contains 3% very fine pyrite and 1% ps to 5mm. May relate to carbonate sand											-
571.0	Shear zone light grey gouge.											
bedding Frs≖40/a	80°:fault/gouge 48°											
10% cart 2% pyrit Fault zone.	conate alteration - present te - laminations , Interval consists of broken and gouged black											
laminated a	audstone. Sections of core 5-15 cm long											
	599.3 602.3 604.5-605. 553.50> MUDSTONI Black, 6 bedding Frs=5/m 20% carl 7% pyrif Weakly bed internal 14 granular cr replaced by 567.80> GREYWACI 567.80> GREYWACI 567.80> GREYWACI 567.80> GREYWACI 571.0 595.80> Fine gra bedding Frs=40/n 10% carl 3% pyrif Well lamin siltstone. pyrite blat horizons in 571.0	 block. 595.8-596.8 Fault zone, badly crushed core, gouge. Bedding in blocks # 75 deg. 599.3 20 cm section of laminated light grey ash with 1% pyrite. 602.3 Fine pyrite laminations # 90 deg. cut by .5cm irregular fracture filling pyrite. 604.5-605.1 Unit still pyrite laminated but has a more messive silty texturk and grain size. Lower contact clear # 82 deg. 553.50> MUDSTONE DEBRIS FLOW Black, contorted, clastic bedding 48*:bedding Frs=5/m 20% carbonate alteration - clasts 7% pyrite - patches Weakly bedded # 48 deg, unit contains faint contorted internal laminations and 20% irregular shaped .5-3cm granular carbonate clasts. These clasts have been replaced by bimodal pyrite ranging from 10-100%. 567.80> GREYMACKE Fine grained, black, bedded, laminated bedding 78* Frs=4/m 25% carbonate alteration - present 3% pyrite - disseminated Well laminated dark grey fine carbonate rich dirty siltstone. Unit contains 3% very fine pyrite and 1% pyrite blebs to 5mm. May relate to carbonate sand horizons in hole 94-37. 	block. 595.8-596.8 Fault zone, badly crushed core, gouge. Bedding in blocks @ 75 deg. 599.3 20 cm section of laminated light grey ash with 1% pyrite. 602.3 Fine pyrite laminations @ 90 deg. cut by .5cm irregular fracture filling pyrite. 604.5-605.1 Unit still pyrite laminated but has a more massive silty texturk and grain size. Lower contact clear @ 82 deg. 553.50> MUDSTONE DEBRIS FLOW Black, contorted, clastic bedding 48° ibedding Fra=5/m 20% carbonate alteration - clasts 7% pyrite - patches Weakly bedded @ 48 deg, unit contains faint contorted internal laminations and 20% irregular shaped .5-3cm granular carbonate clasts. These clasts have been replaced by bimodal pyrite ranging from 10-100%. 567.80> GREYWACKE Fine grained, black, bedded, laminated bedding 78° Fra=4/m 25% carbonate alteration - present 3% pyrite - disseminated Well Laminated dark grey fine carbonate rich dirty siltstone. Unit contains 3% very fine pyrite and 1% pyrite blabs to 5mm. May relate to carbonate sand horizons in hole 94-37. 571.0 Shear zone light grey gouge. 595.80> Fine grained, black, broken, crushed bedding 80°:fault gouge 40° Fra=40/m 10% carbonate alteration - present 2% pyrite - laminations fault zone. Interval consists of broken and gouged black laminated mudstone. Sections of core 5-15 cm long	block. 595.8-596.8 Fault zone, badly crushed core, gouge. Bedding in blocks & 75 deg. 599.3 20 cm section of Laminated Light grey ash with 1% pyrite. 602.3 Fine pyrite laminations & 90 deg. cut by .5cm irregular fracture filling pyrite. 604.5-605.1 Unit still pyrite laminated but has a more massive silty texturk and grain size. Lower contact clear & 82 deg. 553.50> MUDSTONE DEBRIS FLOW Black, contorted, clastic bedding 48°-bedding Fra=5/m 20% carbonate alteration - clasts 7% pyrite - patches Weakly bedded & 48 deg, unit contains faint contorted internal Laminations and 20% irregular shaped .5-3cm granular carbonate clasts. These clasts have been replaced by bimodal pyrite ranging from 10-100%. 567.80> GREYMACKE Fine grained, black, bedded, laminated bedding 78° Fra=4/m 25% carbonate alteration - present 3% pyrite - disseminated Well Laminated dark grey fine carbonate rich dirty siltstone. Unit contains % very fine pyrite and 1% pyrite blabs to 5mm. May relate to carbonate sand horizons in hole 94-37. 571.0 Shear zone light grey gouge. 595.80> Fine grained, black, broken, crushed bedding 30°:freult/gouge 48° Fra=40/m 10% carbonate alteration - present 2% pyrite - laminations Fault zone. Interval consists of broken and gouged black laminated mudstone. Sections of core 5-15 cm long	block. 595.8-596.8 Fault zone, badly crushed core, gouge. Bedding in blocks # 75 deg. 599.3 20 cm section of Laminated Light grey ash with 1% pyrite. 602.3 Fine pyrite Laminations # 90 deg. cut by .5cm irregular fracture filling pyrite. 604.5-605.1 Unit still pyrite Laminated but has a more measure slity texthe and grain size. Lower contact clear # 82 deg. 533.50> MUDSTONE DEBRIS FLOW Black, contorted, classic bedding 48:bedding Fra=5/m 20% carbonate alteration - clasts 7% pyrite - patches Weakly bedded # 40 deg, unit contains faint contorted internal laminations and 20% irregular shaped .5-3cm granular carbonate clasts. These clasts have been replaced by bimodal pyrite ranging from 10-100%. 567.80> GREYMACKE Fine grained, black, bedded, Laminated bedding 78° Fra=4/m .25% carbonate alteration - present .3% pyrite - disseminated Well Laminated datk grey fine carbonate rich dirty siltatone. Unit contains 3% very fine pyrite and 1% pyrite blobs to 5am. May relate to carbonate sand horizons in hole 94-37. 571.0 Shear zone light grey gouge. 595.80> Fine grained, black, broken, crushed bedding 80°:fault/gouge 48° Fra=40/m 10% carbonate alteration - present .2% pyrite - Limination and gouged black Laminated musticne. Sections of core 5-15 cm long	block. 595.8-596.8 Fault zone, badly crushed core, gouge. Bedding in blocks # 75 deg. 599.3 20 cm section of laminated light grey ash with 1% pyrite. 602.3 Fine pyrite laminations # 90 deg. cut by .5cm irregular fracture filling pyrite. 604.5-605.1 Unit still pyrite lepinated but has a more messive silty texturk and grain size. Lower contact clear # 82 deg. 553.50> MUDSTONE DEBRIS FLOW Black, contorted, clastic bedding 48':bedding fras5/m 20% carbonate alteration - clasts 7% pyrite - patches Weakly bedded # 48 deg, unit contains faint contorted internal laminations and 20% irregular shaped .5-3cm granular carbonate clasts. These clasts have been replaced by bloodal pyrite ranging from 10-100%. 567.80> GREYMACKE Fine grained, black, bedded, laminated bedding 70° Fras4/m 23% carbonate alteration - present 3% pyrite - disseminated Weil laminated dark grey fine carbonate rich dirty siltatone. Unit contains 3% very fine pyrite and 1% pyrite labs to 5mm. May relate to carbonate sand horizons in hole 94-37. 571.0 Shear zone light grey gouge. 595.80> Fine grained, black, broken, crushed bedding 30°:fault/gouge 48° Fras40/m 10% carbonate alteration - present 2% pyrite - laminations 5 broken and gouged black laminated musticne. Sections of core 5-15 cm jong	block. 595.8-596.8 Fault zone, badly crushed core, gouge. Bedding in blocks # 75 deg. 599.3 20 cm section of laminated light grey ash with 1% pyrite. 602.3 Fine pyrite laminations # 90 deg. cut by .5cm irregular fracture filling pyrite. 604.5-605.1 Unit still pyrite laminated but has a more massive silty textur ² and grein size. Lower contact clear # 82 deg. 553.50- MLDSTONE DEBRIS FLOW Black, contorted, clastic bedding 43:bedded # 48 deg. unit contains faint contorted internal laminations and 20% irregular shaped .5-3cm gravular carbonate clasts. These clasts have been replaced by bimodal pyrite ranging from 10-100%. 567.80- GREYMACKE Fine grained, black, bedded, laminated bedding 78' Frasi/m 25% carbonate alteration - present 3% pyrite - disseminated Well laminated dark grey fine carbonate sind horizons in hole 94-37. 571.0 Shear zone light grey gouge. 595.80- Fine grained, black, broken, crushed bedding 80': fault/gouge 48° frasi/m 10% carbonate alteration - present 27% pyrite - disseminated bedding 80': fault/gouge 68° frasi/m 10% carbonate alteration - present 27 pyrite - liminations Fault zone. Interval consists of broken and gouged black laminated madtore. Sections of core 5-15 cm long	block. 595.8-596.8 fault zone, badly crushed core, gouge. Bedding in blocks # 75 deg. 599.3 20 cm section of laminated light grey ash with 1% pyrite. 602.3 Fine pyrite laminations # 90 deg. cut by .5cm irregular fracture filling pyrite. 604.5-605.1 Unit still pyrite laminated but has a more massive silty testuris and grain size. Lower contact clear # 82 deg. 553.50- MLDSTONE DEBRIS FLOW Black, contorted, classic bedding 48* bedding Fra=5/m 20% carbonate alteration - clasts 7% pyrite - patches Weakly bedded # 48 deg, unit contains faint contorted internal lamination and 20% (regular shaped .5-3cm granular carbonate clasts. These clasts have been replaced by bimodal pyrite rangend shaped .5-3cm granular carbonate clasts. These clasts have been replaced by bimodal pyrite and 10-100%. 567.80- GRETMACKE Fine grained, black, bedded, laminated bedding 78* fra=4/m 511.50 Shear zone light grey gouge. 595.80- Fine grained, black, broken, crushed bedding 80* frault/gouge 48* 597.80 Shear zone light grey gouge. 595.80- Fine grained, black, broken, crushed bedding 80* frault/gouge 48* fra=40/m 10% carbonate alteration - present 2% pyrite - lateration - pres	block. 595.8-596.8 Full zone, badly crushed core, gouge. Bedding in blocks @ 75 deg. 599.3 20 cm section of laminated light grey ash with 1% pyrite. 602.3 Fine pyrite laminations @ 90 deg. cut by .5cm irregular fracture filling pyrite. 604.5-605.1 Unit attil pyrite laminated but has a more massive sity textuch and grain size. Lower contact clear @ 82 deg. 553.50- MUDSTOME DEBRIS FLOW 8 Black, contorted, clastic bedding 48* ibedding frae-5/m 20% carbonate alteration - clasts 7% pyrite - patches Weakly bedded # 48 deg. unit contains faint contorted internal taminations and 20% irregular shaped .5-3cm gramular carbonate alteration - clasts 7% pyrite - patches Weakly bedded # 48 deg. unit contains faint contorted internal taminations and 20% irregular shaped .5-3cm gramular carbonate alteration - clasts 7% pyrite - patches Weakly bedded # 48 deg. unit contains faint contorted internal taminations and 20% irregular shaped .5-3cm gramular carbonate alteration - clasts 7% pyrite - patches Weakly bedded # 48 deg. unit contains faint contorted internal taminations and 20% irregular shaped .5-3cm gramular carbonate alteration - present 2% pyrite - patches 567.80- GREYMACKE Fine grained, black, bedded, laminated bedding 70° frae4.0/m 1% carbonate alteration - present 2% pyrite blabs to 5mm. May relate to carbonate sound horizons in hole 94-37. 571.0 Shear zone light grey gouge. 595.80- Fine grained, black, broken, crushed bedding 80° frault/gouge 48° Frae4.0/m 1% carbonate alterations Fault zone, Interval consists of broken and googed black laminated auditore. Sections of core 5-15 cm ignm	block. 595.8-596.8 Fault zone, badly crushed core, gouge. Bedding in blocks # 75 deg. 599.3 20 om section of Lemineted Light grey ash with 1% pyrite. 602.3 Fine pyrite Leminetions # 90 deg. cut by .5om irregular fracture filling pyrite. 604.5-605.1 Unit still pyrite invited but has a more months of the provide lemineted light grey ash with Eleck, contorted, classic 7% pyrite for EBRIS FLOW Eleck, contorted, classic 7% pyrite for the stores is the week been replaced by black, bedded, lamineted bedding 7% frae4/m 25% carbonate alteration - present 3% pyrite - dissemineted Hell Camineted dark by fine pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite and 1% pyrite hele to 50m. Her replaced by the prime of the pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite her by the pyrite and 1% her replaced by the pyrite by the pyrite and 1% pyrite hele to 50m. Her replaced by the pyrite and 1% pyrite hele to 50m. 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Lower contact clear # 82 deg. 553.50- MDSMDE DEBERS Filow Black, contorted, cleatic bedding 48-bedding frans/sm 20% corbonate alteration - cleats 7% pyrite - patches 10% corbonate alteration - cleats 7% pyrite - disseminated bedding 78" frans/sm 20% corbonate alteration - present 3% pyrite - disseminated bedding 78". 571.0 Shear zone light grey gouge. 595.80- Fine grained, black, broken, crushed bedding 80". 596.80 Fine grained, black, broken, crushed bedding 80". 597.10 Shear zone light grey gouge. 596.80 Fine grained, black, broken, crushed bedding 80". 597.10 Shear zone light grey gouge. 597.10 Shear zo	block. 595.8-596.8 Fault zone, badly crushed core, gouge. Bedding in blocks # 75 deg. 599.3 20 on section of Laminated Light grey ash with 11 pyrite Laminations # 90 deg. out by .5cm irregular fracture filling pyrite. 602.3 Fine pyrite Laminated but has a more massive ailty texturn and grain size. Lower context circle # 82 deg. 553.50* NADETONE DEBIES FLOW SLUCK context de, cleatic bedding 48* bedding - cleate TX pyrite - packed Use all of the section - cleate TX pyrite - claste, broke context e clasts have been replaced by bimodi pyrite ranging from 10° 1002. 567.80* GETWACKE Fine grained, black, bedded, Laminated bedding 78* research 253 carbonate alteration - present 325 carbonate alteration - present 325 carbonate alteration - present 325 pyrite black, bedded, Laminated bedding 78* research 571.0 Shear zone light grey gouge. 575.80* Fine grained, black, broken, crushed bedding 80* finelygouge 48* research Fine grained, black, broken and gouged black Laminated addrone. Sections of corken sections of broken and gouged black Laminated addrone. Sections of corken and gouged black

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FROM	T0	PESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Znppma	Cu ppm	As ppm	Hg ppm	Sb ppm
		silicification or hornfelsed by proximety to large dyke. Bedding attitudes range from 65-90 deg. Interval contains laminated pyritic ash beds. Conspicuous about this fault zone is the lack of veining.											
<591.	.90-594.	30> ANDESITE DYKE/INTRUSIVE Grayish-brown, vesicular, chilled margin Frs=9/m 2% carbonate alteration ~ present Mafic sill, unit has vesicular top and brecciated base, may be a thin flow. Lower half badly broken core.											
605.10	612.00	MUDDY TUFF Dark gray, bedded bedding 84° Frs=3/m :Vns =1/m 30% silica alteration - present 1% carbonate alteration - ` 10% sericite alteration - pervasive Rhyolite package consists of a tuffaceous mudstone consisting of 60% fine ashy material intercalated with black slightly sericitic mudstone. Relic ash beds evident. Basal 5 cm is coarser, subrounded closely packed .5 cm rhyolite clasts. No part of this section of the rhyolite resembles a flow or hysloclastite material. This portion of the stratigraphy on the east limb of the anticline is not permissive for a 21B style deposit. No mineralization of any style or hydrothermal alteration is evident.	24585 24586 24587	605.10-606.60 606.60-608.10 608.10-609.60 609.60-611.10 611.10-612.00	1.50	1 3 1	0.3 3.0 0.5 0.3 0.3	1 4 1 1	6 3 5 3 4	3 2 4 3 5	3333333	22222	5 2 3 3 3 3
		 602.7 1mm ash beds 2 85 deg. 609.8 Layering 2 85 deg. 610.2-610.8 Shear zone, broken core, rubble, minor broken quartz veins. 											
512.00	616.72	LAMINATED NUDSTONE fine grained, dark gray, bedded, contorted bedding 75°:shear 25° Frs=30/m 2% chlorite alteration - pervasive 20% sericite alteration - pervasive 5% clay alteration - gouge	24590	612.00-613.50 613.50-615.00 615.00-616.70	1.50	12	0.3 0.3 0.3	3 4 10	1 1 6	2 1 3	3 3 3	2 2 2	3 3 3

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FROM	TO	DESCRIPTION	Sample	INTERVAL	WID	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm	Hg ppm	Sb ppm
		2% chlorite alteration - pervasive 20% sericite alteration - pervasive 5% clay alteration - gouge Nuclestone unit below the rhyolite package resembles the upper contact, consisting of 20% irregular siliceous whisps in a black slightly sericitic muckly tuff. Interval is highly sheared with minor gouge. Abundant graphitic slip surfaces @ 10-30 deg.											
616.72	628.60	Aphanitic, black, bedded, lamirated bedding 60":shear 30" Frs=30/m 30% clay alteration - gouge 3% pyrite - laminations Black well laminated mudstone and muddy siltstone with 10% 1cm fregular slightly pyritic silt beds. Lower contact sharp 8 82 deg. Unit badly broken and sheared with abundant gouge and rubble zones. Bedding between the shears ranges from 30-75 deg.	24593 24594 24595 24596	617.70-618.70 618.70-620.70 620.70-622.70 622.70-624.70 624.70-626.70 626.70-628.60	2.00	68 69 19 34	1.4 1.8 0.6	24 28 33 18 29 43	1262	86 100 - 14 29	103 52 99	222222	39 56 53 29 47 58
		 622.0-623.6 Fault zone, all broken core and rubble with 30 % clay gouge. 626.3-626.6 Fault zone, toally crushed and gouged, adjacent graphitic slip surfaces & 30 deg. 										:	
628,60	628.80	DACITIC LITHIC TUFF Gray, bedded, heterolithic bedding 85° Frs=1/m 20% silica alteration - present 30% sericite alteration - pervasive 6% pyrite - matrix Granular textured, heterolithic fragmental-epiclastic. Unit contains 2% irregular vesicular dacite clasts. Matrix has been pyritized, containing 5% fine to colliform pyrite.	24598	628.60-628.80	0.20	12	0.4	10	50	17	42	2	8
(eoh)		ECH.											

10/19/94

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APPENDIX 2

ASSAY CERTIFICATES



REPORT: V94-00959.0 (COMPLETE)

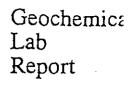
REFERENCE:

..... CLIENT: HOMESTAKE MINERAL DEVELOPMENT COMPANY SUBMITTED BY: D. KURAN PROJECT: 90704 DATE PRINTED: 5-SEP-94 NUMBER OF LOWER ELEMENT ANALYSES DETECTION LIMIT EXTRACTION ORDER HETHOD 1 Au30 Gold 30 5 PPB Fire Assay of 30g ATOMIC ABSORPTION 2 Silver 30 0.2 PPM HCL: HNO3 (3:1) INDUC. COUP. PLASHA Ag ----3 Cu 30 1 PPH HCL:HNO3 (3:1) INDUC. COUP. PLASHA Copper 2 PPH 4 30 HCL:HN03 (3:1) INDUC. COUP. PLASHA Pb Lead HCL:HN03 (3:1) 5 Zn Zinc 30 1 PPH INDUC. COUP. PLASHA Arsenic 30 5 PPH HCL:HN03 (3:1) INDUC. COUP. PLASHA 6 As 30 INDUC. COUP. PLASHA HCL:HN03 (3:1) 7 sь Antimony 5 PPM 30 0.010 PPH HCL:HNO3 (3:1) COLD VAPOR AA 8 Hg Hercury SAMPLE TYPES NUMBER SIZE FRACTIONS NUMBER SAMPLE PREPARATIONS NUMBER ----30 CRUSH/SPLIT & PULV. 30 - 150 R...ROCK 30 REPORT COPIES TO: MR. RON BRITTEN INVOICE TO: MR. RON BRITTEN MR. D. KURAN ł • • • Bondar-Clegg & Company Ltd.

130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada Tel: (604) 985-0681, Fax: (604) 985-1071



Bondar Clegg Inchcape Testing Services



REPORT: V94	-00959.0 (COM	PLETE)						OJECT: 9	ED: 5-SEP-94 20704	PAGE 1
						·····				
SAMPLE	ELEMENT	Au30	Ag	Cu	Pb	2n	As	SÞ	Hg	
NUMBER	UNITS	PPB	PPN	PPH	PPM	PPM	PPM	PPM	PPH	******
R2 24401	********	<5	<0.2	49	37	186	38	8	1,429	************************
R2 24402		<5	<0.2	41	22	229	11	<5	0,899	
R2 24403		8	<0.2	26	13	193	9	<5	0.737	
RZ 24404		13	1.5	67	17	688	48	30	1,749	
R2 24405	****	16	2.0	68	20	406	70	31	1.326	
R2 24406	*************************		1.7	78		1338	112	47	1.855	*******
R2 24407		<5	1.2	75	13	991	65	42	1.224	
R2 24408		5	0.4	70	13	881	52	51	1.328	
R2 24409		<5	<0.2	35	11	277	27	32	0.776	
RZ 24410		<5	<0.2	28	7	233	25	16	0,158	
RZ 24411		6	<0.2	26	9	240	70	13	0.260	
RZ 24412		9	<0.2	36	12	197	8 6	11	0.619	
R2 24413		20	<0.2	5	27	137	162	<5	0.871	
R2 24414		11	<0.2	6	16	113	68	<5	0.424	
R2 24415	********	+ 14	<0.2	8	15	99	173	<5	0.265	
R2 24416			<0.2		22			<5	0.369	
RZ 24417		6	<0.Z	6	24	166	80	<5	0.315	·
R2 24418		<5	<0.2	26	36	128	153	<5	0.490	
RZ 24419		<5	<0.2	6	20	110	62	<5	0,368	
R2 24420		<5	<0.2	10	12	113	38	<5	0.320	
RZ 24421		 <5	<0.2		10	60	30	 <5	0,220	
RZ 24422		<5	<0.2	8	10	286	181	<5	0,355	
RZ 24423		<5	<0.2	5	23	153	73	<5	0.151	
R2 24424		<5	<0.2	8	31	153	57	<5	0.203	
R2 24425		ر. ۲	<0.2	47	،د و	559	412	38	0.418	
RE E7763	***************************************	U	~~. 2	۹۲	7			ي ہے۔ 	·····	
RZ 24426		<5	<0.2	34	12	382	312	36	0.317	
R2 24427		8	<0.2	39	9	484	231	40	0.385	
22 24428		. 7	<0.2	49	fe a.	491	506	43	0.416	
R2 24429		30	<0.2	41	11	388	162	36	0.371	-
R2 24430		<5	<0.2	4	10	78	21	<5	0.122	

Bondar-Clegg & Company Ltd.

130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada

Tel: (604) 985-0681, Fax: (604) 985-1071

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	Plater Plany						iPL 9	94108	02			
,	PLASMA LABORATORY LTD.											

CERTIFICATE (ANALYSIS

iPL 9410802

2036 Columbia St Vancouver, B.C. Canada V5Y 3E1 Phone (604) 879-7878 Fax (604) 879-7898

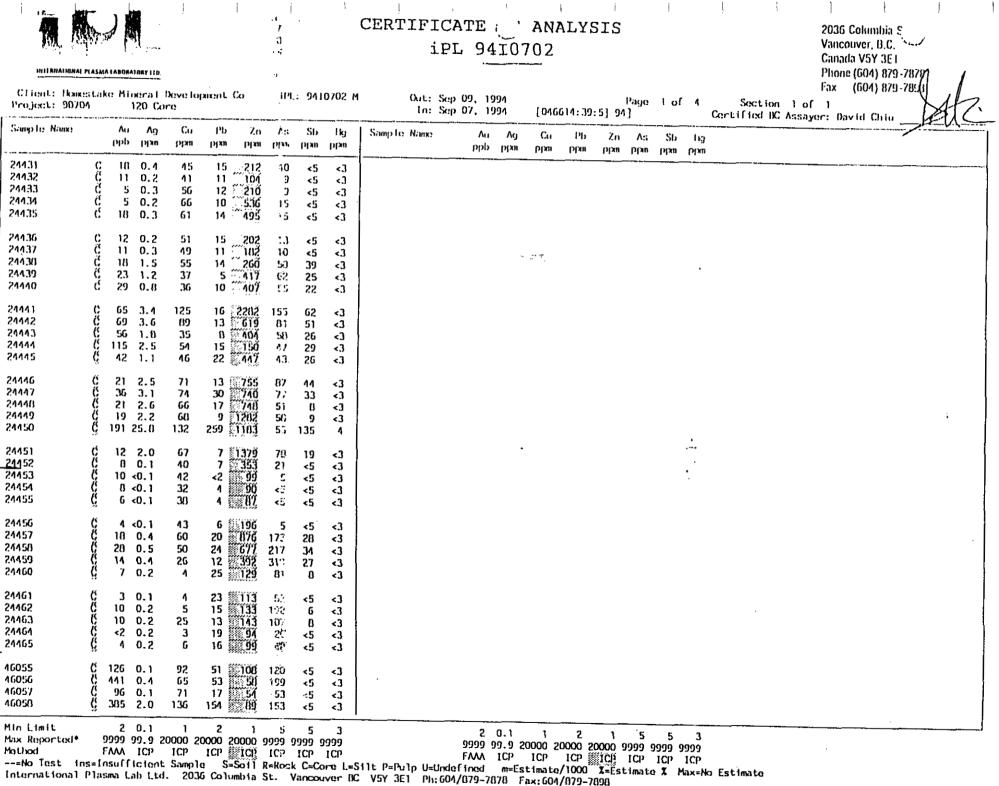
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Homestake Mineral Deve Out: Sep 09, 1994 Project: 90704 In : Sep 08, 1994 Shipper: Alex W PO#: Shippent:	alus ID=CO27364	l I	Samp law Sto Pulp Sto	rage: rage:	-	k O=Soi} 6=Core O3Mon/Dis 12Mon/Dis	0=RC Ct 0= Pulp	0=0ther 	[046814:36:36:49090994] Mon=Month Dis=Discard Rtn=Return Arc=Archive
Msg: Au(FA/AAS 30g) ICP(AqR)07 Msg: ICP=Ag/Cu/Pb/Zn/As/Sb/Hg DOCUMENT Distribution	· · · · · · · · · · · · · · · · · · ·	III Code	Met T hod	itle	Low High	Units Description	Element		
1 Homestake Canada Inc Eskay Creek Camp Eskay Creek BC VOJ 2NO		02 721P 03 711P	FAAA ICP ICP ICP	Au Ag Cu Pb	2 9999 0.1 100 1 20000 2 20000	ppb Au FA/AAS finish 30g ppm Ag ICP ppm Cu ICP ppm Pb_ICP	Gold Silver Copper Lead	01 02 03 04	
ATT: Doug Reddy c/o: Fax ONLY if available	Ph: 604/521-7396 Fx: 604/524-8046	05 730P	1CP 1CP 1CP	Zn As	1 20000 5 9999	ppm Zn 1CP ppm As ICP 5 ppm	Zinc Arsenic	05 06	
2 Homestake Canada Inc 1000 - 700 W Pender St Vancouver BC V6C 168	EN RT CC IN 7X 2 2 1 6 1 DL 3D 5D BT 3L 0 0 0 0 0 0	07 702P 08 732P	ICP	Sb Hg	5 9999 3 9999	ррт Sb ICP ppm Hg ICP	Antimony Mercury	07 08	
ATT: Ron Britten	Ph: 604/684-2345 Fx: 604/684-9031								
3 Homestake Canada Inc If no answer at Ph±604/521-7396 Eskay Creek BC VOJ 2NO	EN RT CC IN FX 3 2 0 0 1 DL 3D 5D BT BL 0 0 0 0 0					_			
ATT: Doug Reddy c/o: Smithers Expediting	Ph:604/ Fx:604/847-2566								
		. 							
N=Fovelope / RT=Report Style CC=Co									



	SMA LABUN	ALARY LID.						ERTIFICATE (ANALYSIS iPL 9410802	2036 Columbia SI Vancouver, B.C. Canada VSY 3E 1 Phone (604) 879-7878
Tient: Domost oject: 90704		<u> </u>		ment Co	i14.:	9410	3802	Out: Sep 09, 1994 Page 1 of 1 Sectio In: Sep 08, 1994 [046814:36:40:49090994] Certified B	Fax (604) 879-785 n 1 of 1 C Assayer: David Chiu
mple Nanks	Au طرح		Cu ppn	Pb Zn ppm ppm	A.z Wzici	SL ppm	llg ppm		
466 (467 (468 (469 (470 (Ç < Ç <	0.3 0.2 0.1 0.2 0.2	4 2 3 4 25	29 100 16 124 16 113 19 145 7 120	27 27 27 27 27 27 27 27 27 27 27 27 27 2	< < < 21	~ ~ ~ ~ ~		
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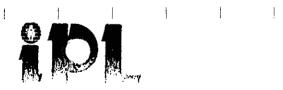
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2036 Columbia Street

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Client: Home Project: 9070			eral		(Esk Con			:;	? <u>_</u> :	94116	01 M	!	Ou I	t: So n: So	ер 20 ер 10	D, 199 5, 199	94 94	[048	1514:5	5:4]	Ра 94]	ge	l of	1	Section 1 Certified BC As	of 1	•		A	Z
Sample Name		Λυ թթԵ	Λg ppm			PD PDM	Zn		n p		Hg pm	Samp	le Nar	me		Λυ ρρb	Λg ppm	Cu ppm	Pb ppm		Zn pni p	Λs pm	Sb ppm	ilg ppm				0	<u></u> _	-9
24472 24473 24474 24474 24475 24476	0.0.0.00	10 5 <2 5 14	0.7 0.7 0.5 0.5 0.6	5 5 4 4 6	ይ 1 0	12 12 8 6 10	531 558 471 496 805	3/ 6: 21 24 39	1 	<5 <5 <5	<3 <3 <3 <3 <3 <3							:												
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lin Limit hax Reported* hethod =No Test in	F ns=In	9999 MA suff	ICP toten	ICI it Sar	0200 0200 0200	ICP S	=So11	9999 ICP R=Ro	999 10 	99 999 CP 10	2P	Silt P=	=Բա]թ	U=Ur	F	999 9 747	ICP	ICP	2 20000 ICP e/1000	2000 1110	й II	٦P (TCP	TCP	io Estimate			-	<u></u>	



CERTIFICATE 🐺 ANALYSIS

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iPL 9412803

2036 Columbia () Vancouver, B.C. Canada V5Y 3E 1 Phone (604) 879-7858 Fax (604) 879-785

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INTERNALMINAL PLASMA LABORATORY LED.

Sample Name		Λu ppb	Ag ppm	Си рряп	Pb Indel		As pp://	Sb ppm	lkj nele	Sampte i	Names		Au ppb	Λg ppm	Cu ppm	РЬ	Żn	As	Sb	liky		 	e-1
24495	¢	13	1.1	53	12	540		<5	<3	24534		C				mkjq	pp:n	ppm	\$Pm	ppm	-	 	······
24496	ç	23	1.7	55	8	786	32 50	5	<3	24535		ĉ	<2 3	0.1 0.1	7 7	<2 14	67 134	14 14	<5 <5	<3 <3			
24497	ć	42	3.1	82	7	5000	11.	11	<3	24536		Ğ	2	0.1	7	2	106	<5	<5	<3			
24490 24499	Ĉ Ç	15 11	2.1 2.5	81 79	10 8	1346 1278	40 -55	ל 7	<3 <3	24537 24538		80 C C		0.1	5	3	33	6	<5	<3			
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24500 24501	000000	8 29	1.6	78	11	1201	41	7	<3	24539		Ĝ	7	0.1	ីឲ	5	49	10	<5	<3			
24502	ž	24	2.1 1.7	78 76	19 9	C 444 4.147 147 447	34	7	<3	24540		ç		0.1	5	20	49 162	5	<5	<3			
24503	č	11	0.6	63	7	694	31 260	6 <5	<3 <3	24541 24542		g		0.1	5	7	121	5	<5	<3			
24504	ğ	5	0.4	35	4	300	23	<5	<3	24543		GREECE	2	0.1 0.1	4 6	10 3	29 84	5 9	<5 <5	<3 <3			
24505	đ	8	0.5	40	8		21.	<5	<3	24544										~5			
24506	000000	13	0.3	35	6	530 297	16	<5	<3	24545		¥.		0.1	5	.3		5	<5	<3			
24507	Ğ	24	1.0	53	14	2747	2	<5	<3	24546		ĕ		0.1 0.1	6 4	18 <2	117 27	7 9	<5	<3			
24508	ĝ	16	0.5	50	8	361	17	<5	<3	24547		ĉ	5	<0.1	2	4	69	12	<5 <5	<3 <3			
24509	Ğ	22	0.3	46	17	545	20	6	<3	24548		000000	2 .	<0.1	6	4	83	22	<5	<3			
24510	Ç		0.2	12	11	165 551	11	<5	<3	24549		ő	13	0.1	53	31	8893T	EA	14				
24511	Ğ	21	0.8	66	15	<u> </u>	29	6	<3	24550		č	9	0.2	74	40		54 48	14 13	3ء د>			•
24512 24513	C A		0.4	63	23	693	3	5	<3	24551		00000		<0.1	84	24	410	31	5	<3			
24514	000000		<0.1 0.3	46 48	12	454 595	2 0) 25	`<5 <5	5 5	24552		Ğ	5	<0.1	. 60	5 🕯	556	17	<5	<3			
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24515 24516	000000	18	0.6 0.8	60 71	16 24	801 809	ः 30	5	5														
24517	č	5	0.5	58		705	29	\$7 <5	3 5														
24518	Ğ		<0.1	44	12	642	24	<5	5														
24519	ğ	4	0.6	60	8		30	<5	<3														
24520	ĉ	8	0.7	62	13	@931	32	<5	<3														
24521	Ğ	6	<0.1	78	18	619	20	<5	<3														
24522	ġ.		<0.1	57	19	391	2	<5	<3														
24523	66886		0.3	68	17	573	29	<5	<3														
24524	ů.	/	<0.1	51	17	505	26	<5	<3														
24525	Ğ		0.3	56	16	571	20	<5	<3														
24526 24527	C K	8	0.9	61	12	471	24	5	<3														
24528	Č		1.5 1.2	67 44	23 17	485 453	40	7	<3														
24529	ğ		<0.1	7	3	22	122 161	11 9	<3 <3														
24530	ć	5	0.1	6		3C	80	7															
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24532	ğ	5	0.1	9	8	231 164	51	6	<3														
24533	Ğ	3	0.1	9	6	130	15	<5	<3														
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Client: Homes Project: 90704	itake	Min		Xev (E: re	skay)		i:4.	: 94J(0705	Out: Oct 09, 1994 Page 1 of In: Oct 07, 1994 [056317:07:15:49100994]	
Samp Tee Name		Au ppb	Ag ppm	Cu ppm	Pb ppm			Sb ppn	lkj ppm		· · · · · ·
24553 24554 24555 24555 24556 24557	000000	s 3	0.3 0.1 0.2 0.4 0.6	33 30 42 63 81	8 9 14 16 21	229 196 290 906 520	22 14 36 39 47	< < 36 13 13	< < < < <		······································
24558 24559 24560 24561 24562	000000	31 16 61	1.5 0.9 0.7 1.8 2.9	59 44 22 51 79	- 44	1178 948 377 1022 509	48 65 50 47 67	26 21 16 32 58	< < < < < <	in the second second second second second second second second second second second second second second second	
24563 24564 24565	Ć Č Č	14	0.9 0.5 0.6	78 77 102	85	3402 1294 1340	2^ 22 40	12 14 6	< < <		
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2036 Columbia 5 t Vancouver, B.C 😒

Canada V5Y 3E1

UTENALISMAE Client: Ikuk	stak		xera 1		skay)		6FL	: 94J	0706	Qut: Q	ct 09,	1994	Page 1	of 1	Section		504) 879-7878, 504) 879-7897	ł
roject: Adri	ian 		33 C		<u>. </u>					In: 0	st 07,	1994	[056417:09:55:49100994]		Certified BC	Assayer: Davi	d Chiu 🕂	XAI
Sample Name		ли ррђ	Ng mqq	Cu ppm	եր ազդ		As ppr	Sb ppm	lkg ppm						1			
4566	Č	4	0.1	49	6	207	20	<	<						······································	<u> </u>		
4567 4568	CÖŐŐ	6	0.2	38	19		24	< -	<									
4569	ć	6 2	0.4 0.3	48 45	11 16	336	23 28	5 <	<									
4570	Ç	<	<	21	10		24	Ì	< <									
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4572	Ĉ	4	0.8	70	26	519	45	9	,									
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4578	č	9	0.8	53	16	139	29	5 9	< <									
4579	Ĉ	12	1.1	54	16	357	30	7	<									
4580	Ç	22	1.0	60	19	460	39	11	<									
1581	Ç	18	0.8	49	13		30 V)	10	<									
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APPENDIX 3

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WHOLE ROCK ANALYSIS

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CERTIFICATE OF ANALYSIS ipl 94J0704

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2036 Columb a Street Var couver, B.C. Carada V5Y 3E1 Phone (604): E79-7878 Fax (604): E79-7898

omestake Mineral Dev t: Oct 13, 1994 Project: 90704 : Oct 07, 1994 Shippor: 9 Kuri	50 S	3 Samples Raw Storage: PLip Storage:)= Rock 	0= Soil 5= Core 034cn/Dis 124cn/Dis	0=RC Ct 0= Ruip	0=Other 	(US6216: 74:) Mon=Month Rtn=Return	
t: Shipment: g: Nhole Rock Packäg∉	10=0024400	Analyzical Su	mary					
g: Nitsle Kack Fackage		H Code Met Title Li	ait Limit Uni	its Description	Elepent	£#		
ocument Distribution		bod I	Low High			61		
Homestake Canada Irc	FURI CONFX	01 40'P WRock Si02 0	.01 100.0	6 S:02 Whole Rock	SiC2	01 02		
1000 - 700 k Pendar St	22101	02 407P WRock Ti02 0	.01 100.0	CTiO2 Whole Rock	T1C2 A1203	03		
Vancouver	D 30 SO ET BL	03 405P WRock 41203 0		X A1203 Whole Rock X Fe203 Whole Rock	F#203	č4		
BC V5C GB		(4 409P WRock Fe203 0 05 402P WRock Mg0 0	0 100.0	1 McD whole Rock	MgC	C5		
ATT:), Kuman	rh: 604/681-2345 Fx: 604/681-9E31	C6 496P MRock CaO D	.0° 100.0	1 Call Whole Rock	CaO	C6		
	,	C7 41CP WRock Na20 D.		I Na20 Whole Rock	Na2D	C7		
			.0: 100.0	1 K20 Whole Rock	K20	08 09		
		C9 4.34P WROCK MnD 3. 10 43EP WROck BzO 3.	.01 100.0 .01 100.0	1 4n0 Whole Rock 1 3a0 Whole Rock	Hn0 BaO	10		
		11 411P WRACK P205 0.	.01 100.0	* 205 Whole Rock	P205	11		
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CERTIFICATE OF ANALYSIS iPL 94J0704

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2036 Columbia Strett Vancourer, 3.C. Caraca VSY 351 Phone (604) 879-7878 Fax (604) 879-7878

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N'YERRAE DOMA, *	LIENA LA		<u>k</u>												Fax (504) 879-7898	
Client: Home Project: 9070/			i Dev (E Xore	skay)	iA	L: 94,07 0	34		: 0er: 13. : 0er: 17,		(0562)	6:04:37:		1 of 1 4:	Section 1 of 1 Certified BC Assayer: David Ciriu	
Sample Name		SiO2	1 i02 X	A*203 X	fe2C3 X	Ng0 X	Ca0 X	Na20 X	K20 L	Mn0 X	Ba0 \$	P205 X	LOI T	Tota] X		
9435 454. 5 9436 546. 5 9437 519. 6 9438 603. 0 9439 593. 0	CHCHC)	70, 92 64, 90 60, 89 80, 70 48, 04	0.11 0.11 0.14 0.07 1_29	12.52 17.70 13.65 9.60 12.36	3.33 3.73 6.17 1.28 9.77	1.47 2.56 9.05 0.56 7.61	1.48 0.35 1.50 0.28 7.44	3.72 4.66 2.80 2.12 2.91	3.43 3.42 3.51 4.33 0.35	0.04 0.04 0.06 0.01 0.13	0.16 0.40 6.50 2.62 0.16	۲ ۲ ۵.13	1.38	99.71 101.08 96.49 100.80 93.95		
Ha Limit lax Asportad [®] lathod 	1	the second second second second second second second second second second second second second second second se	March .	1 Doorbo	March 8		Rock	HRock	WROCK	NOCK	0.01 190.00	WROCK	60050	MOCK		

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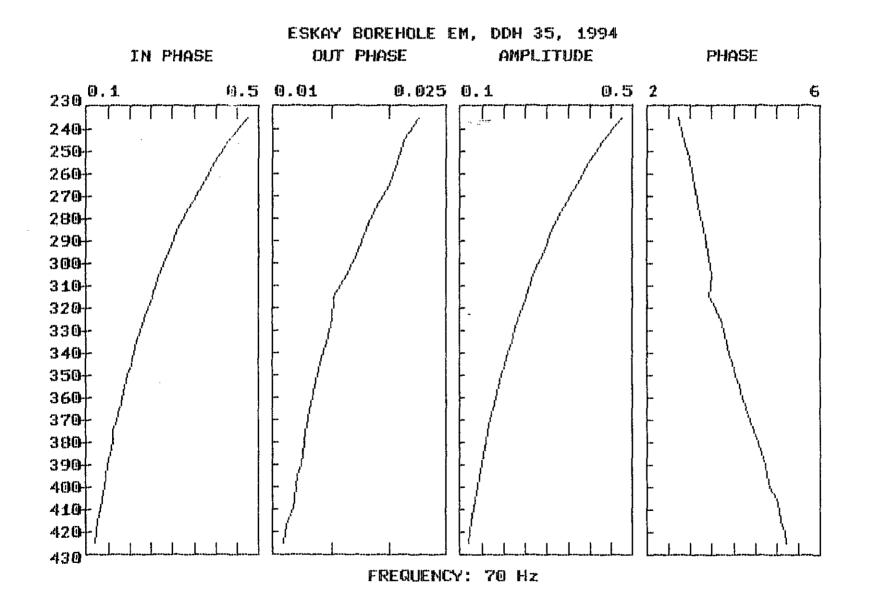
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APPENDIX 4

GEOPHYSICAL RESULTS

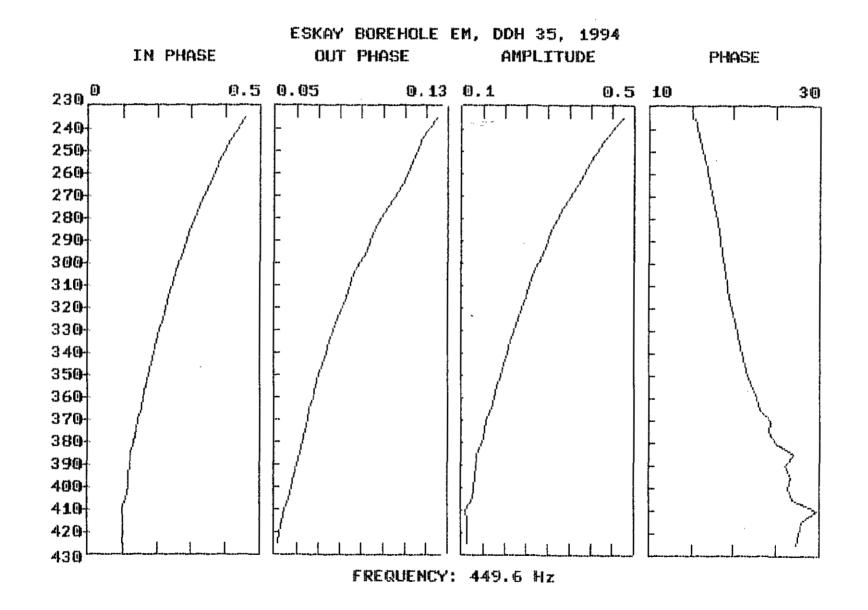
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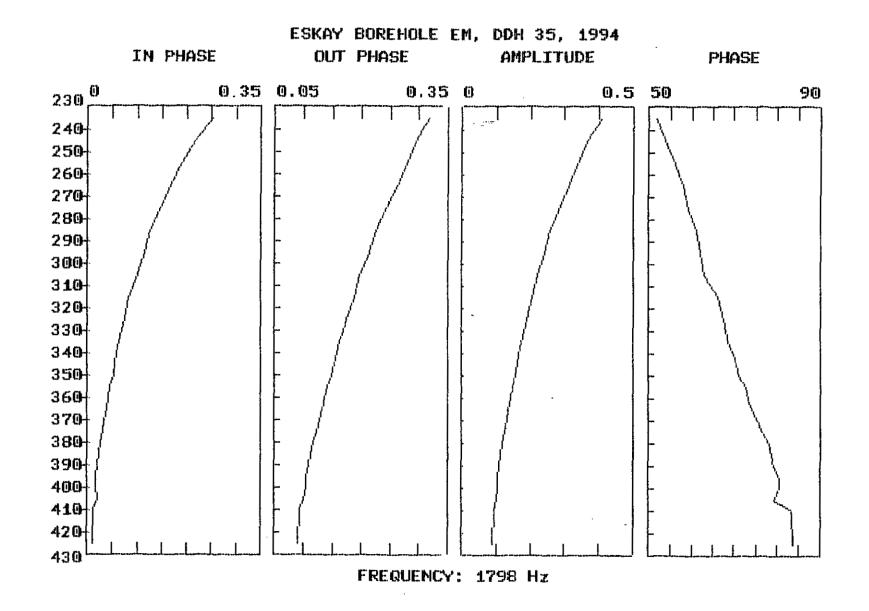
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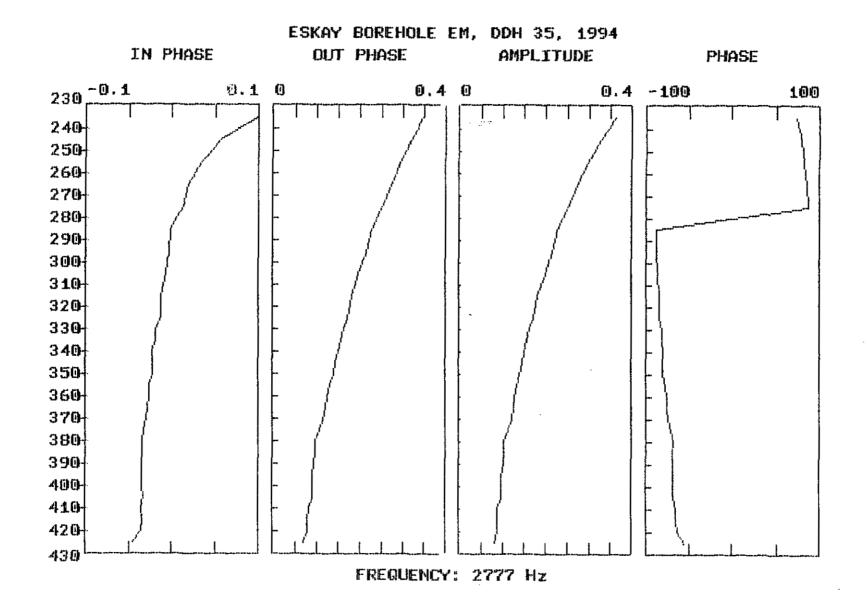
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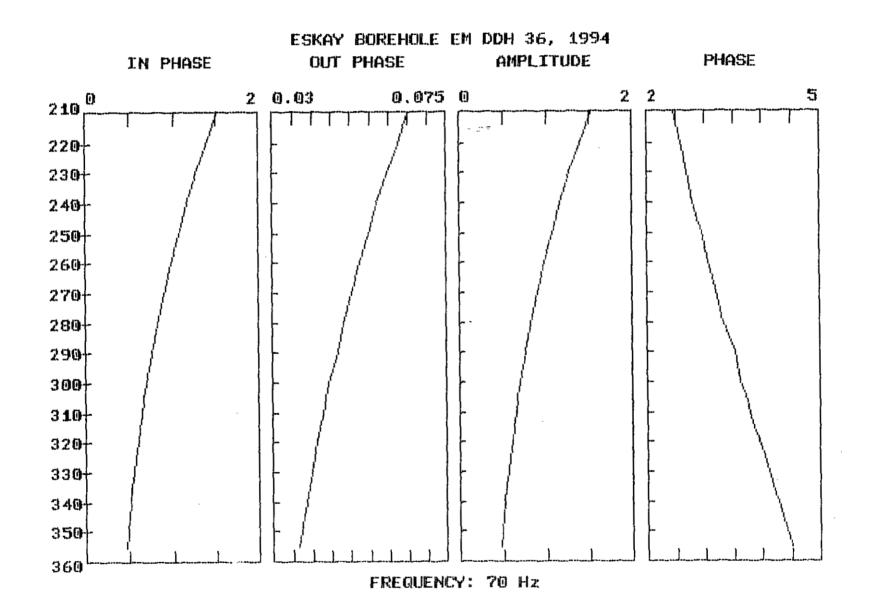
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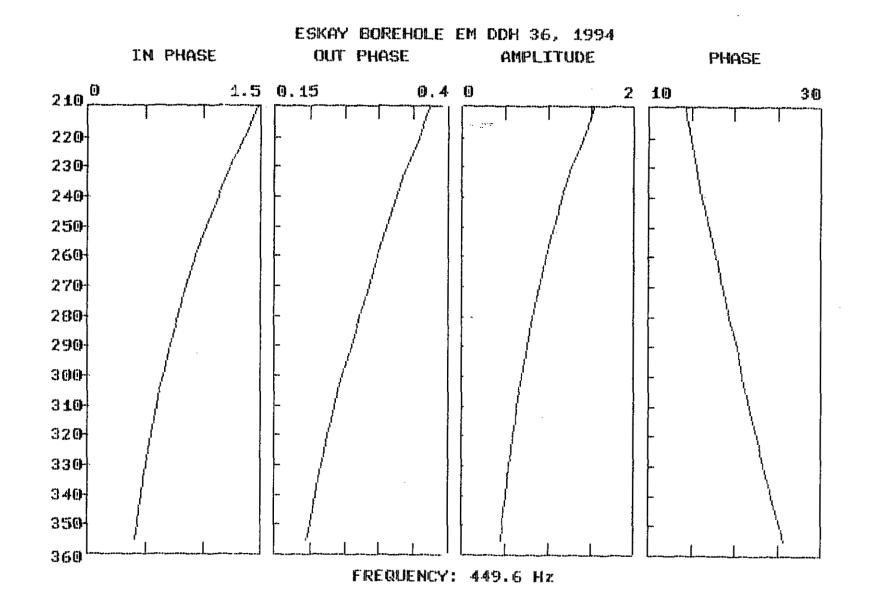


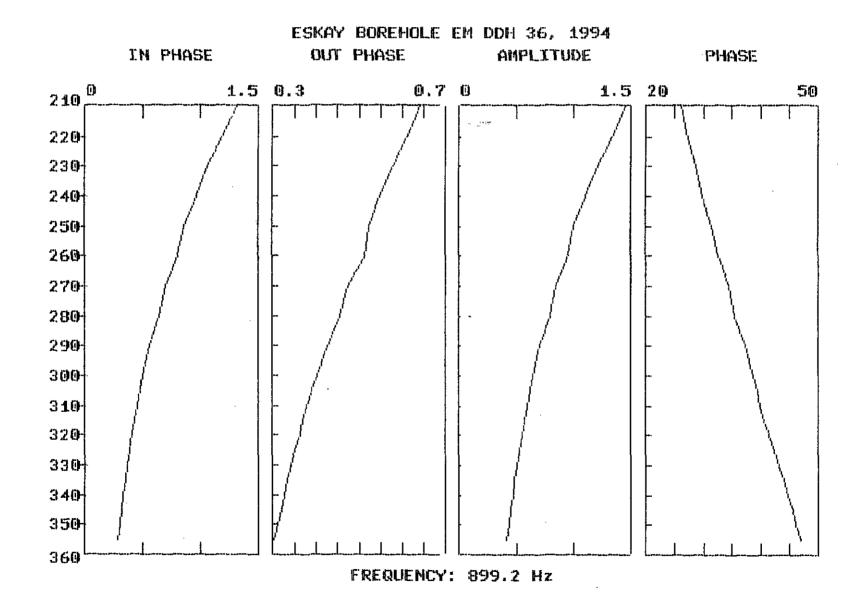
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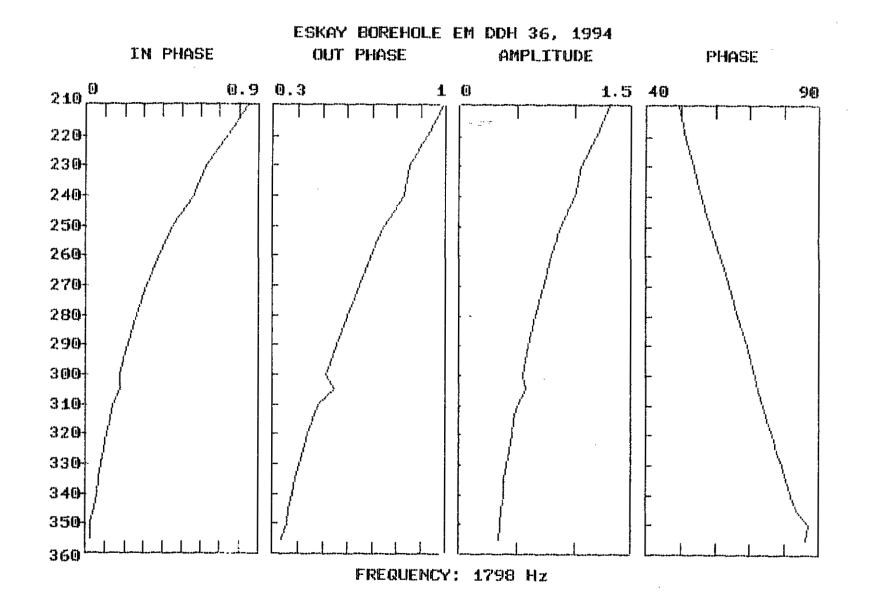
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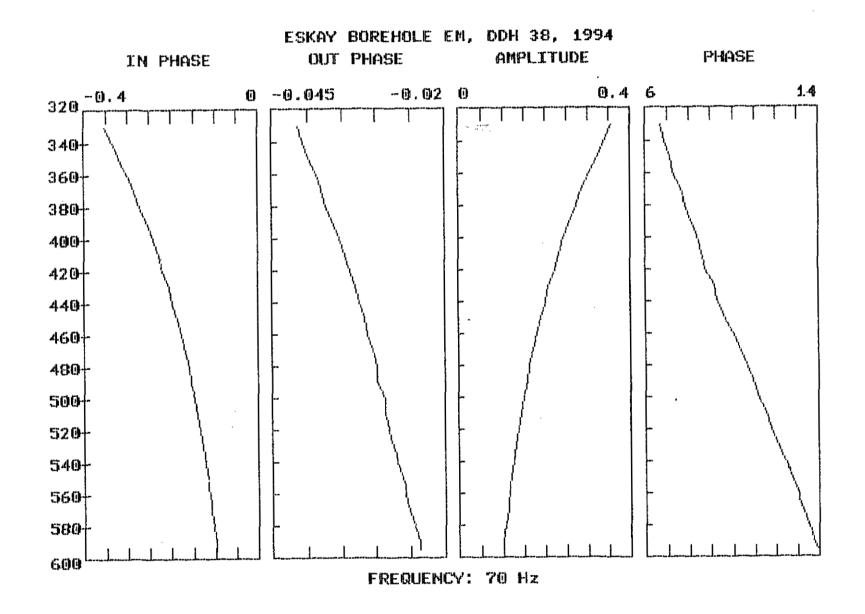
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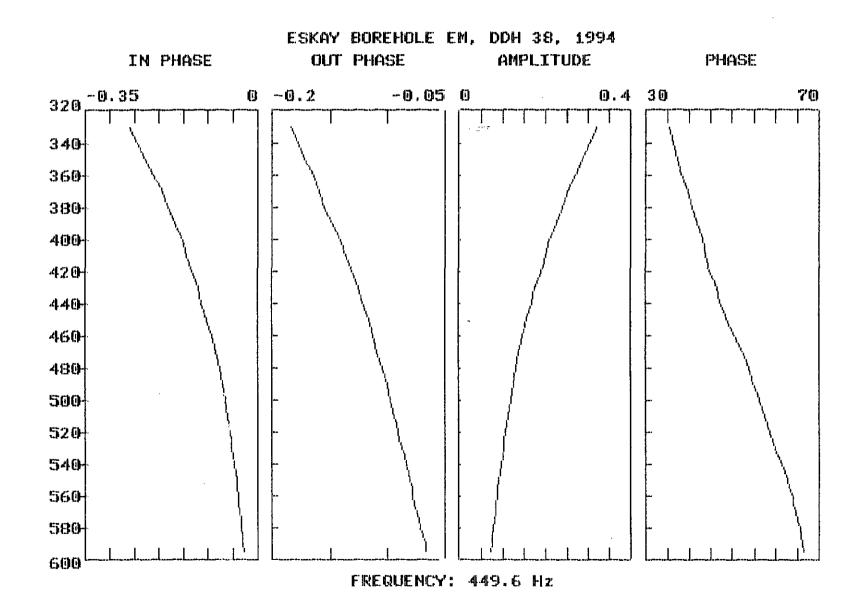
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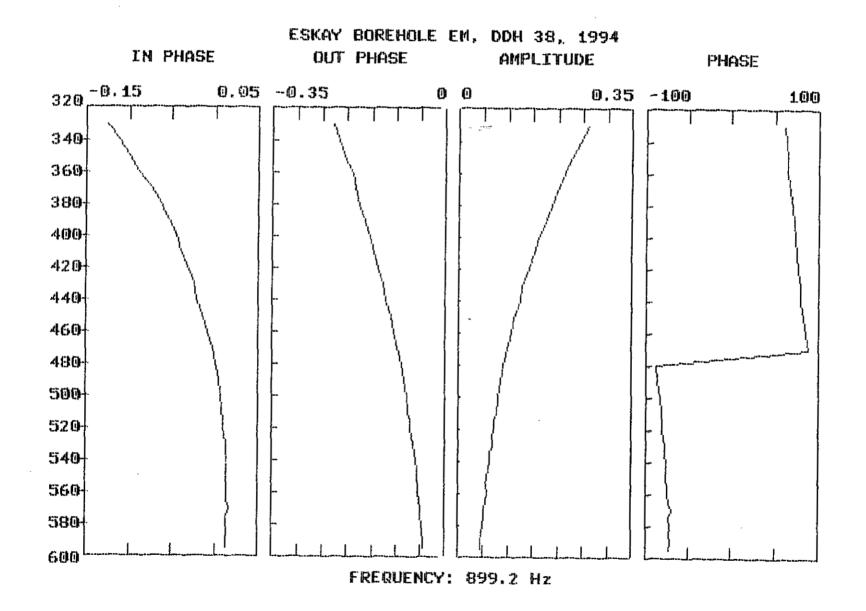




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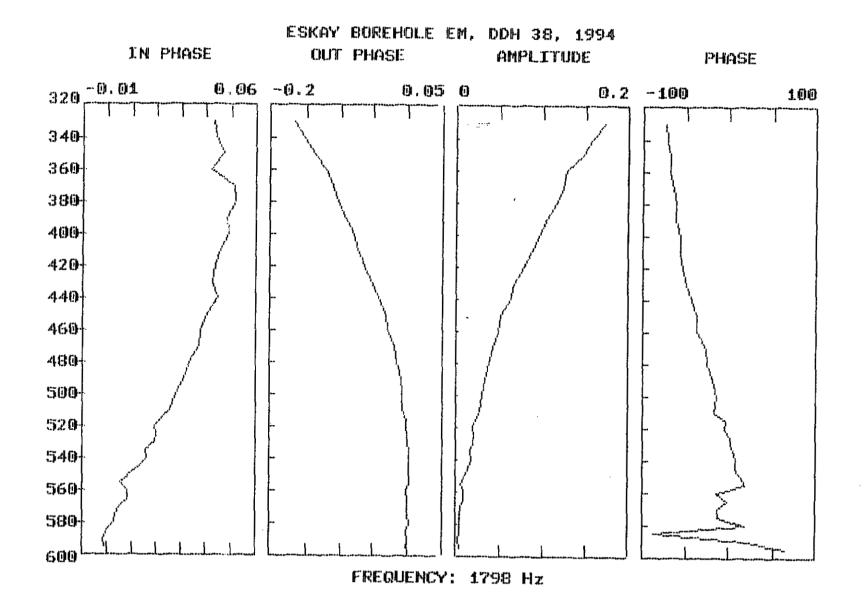


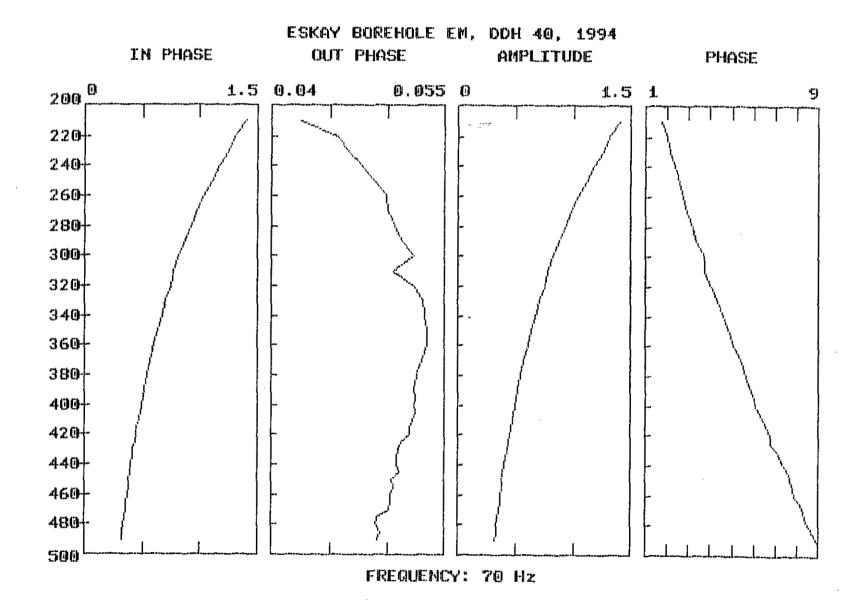


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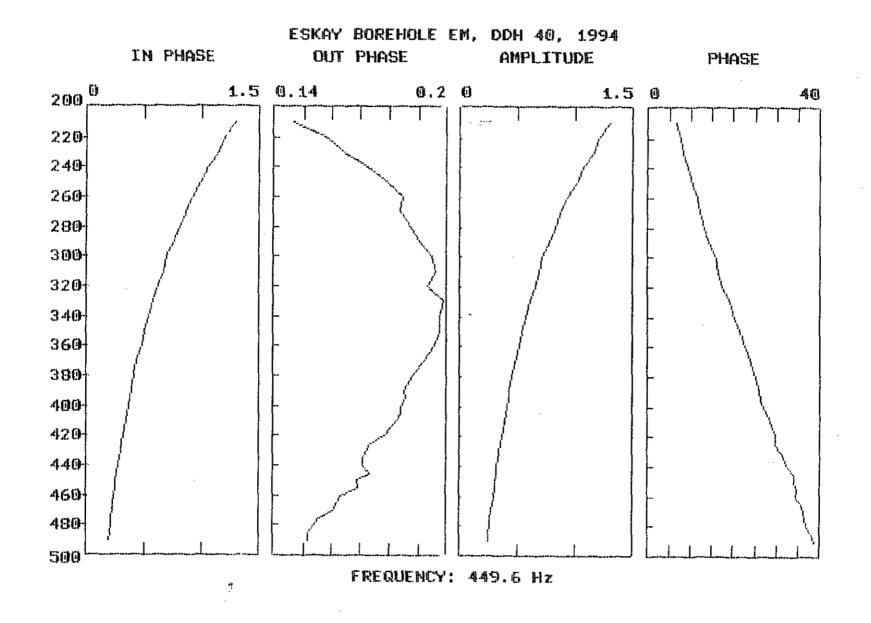
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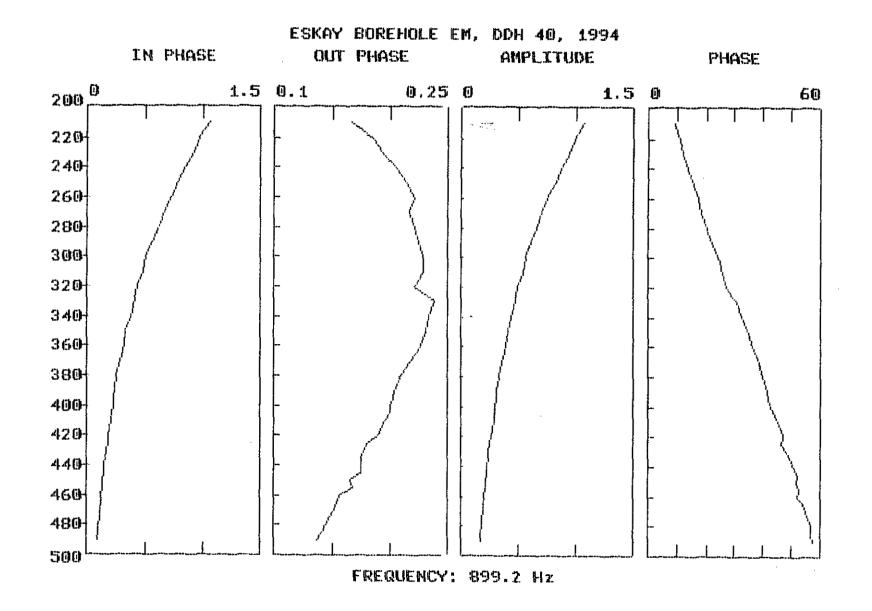


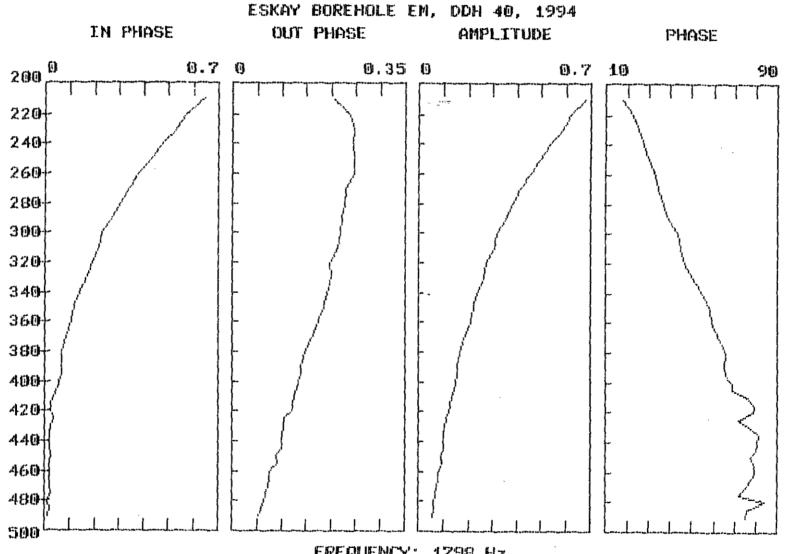


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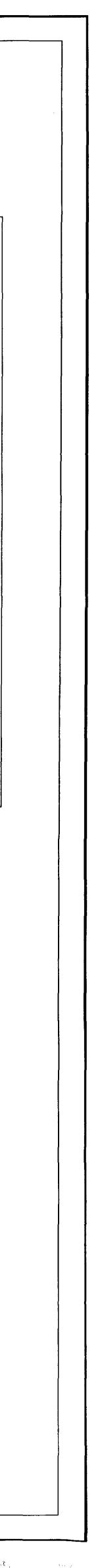
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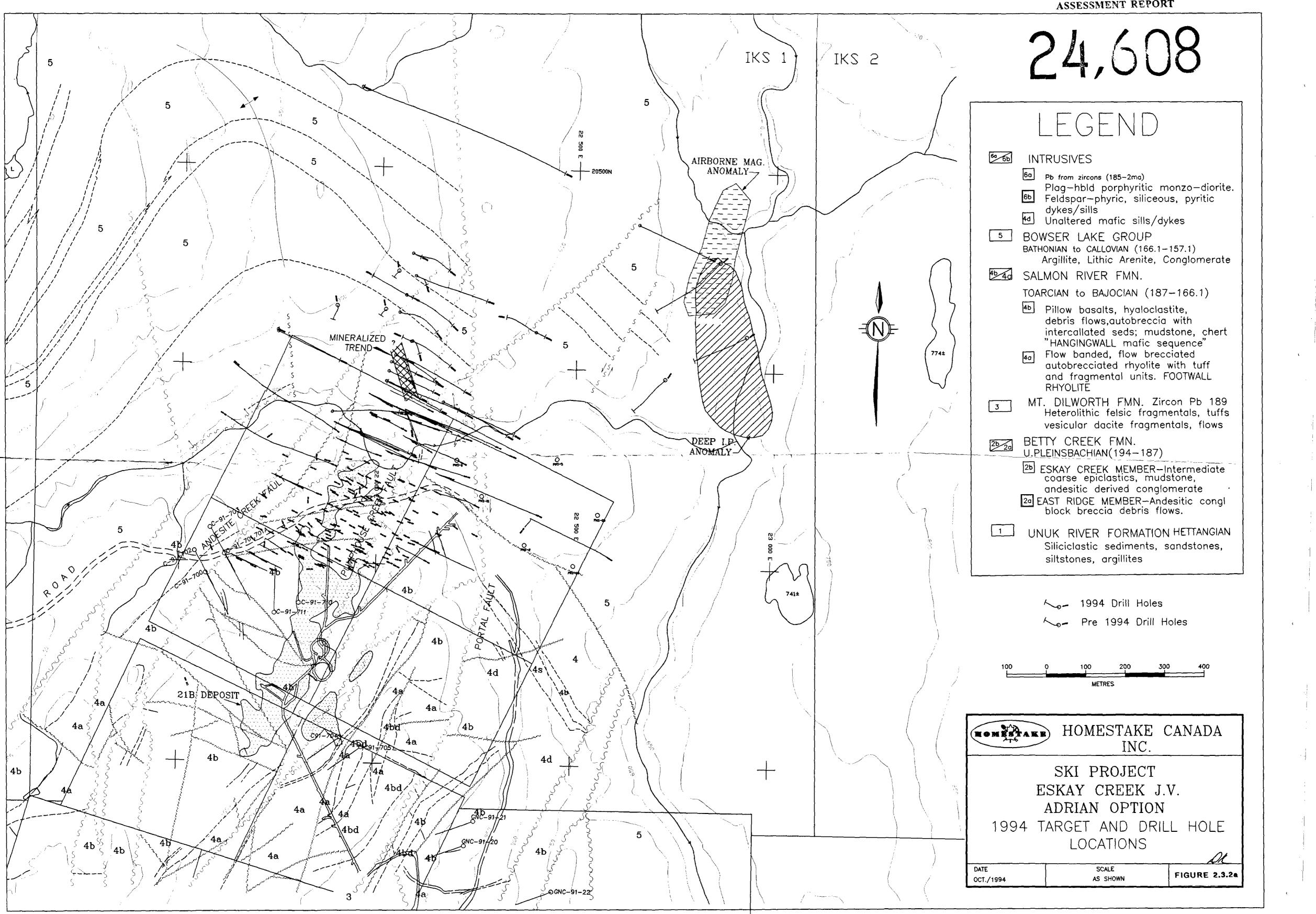


GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORT 24,608 LEGEND INTRUSIVES 6a Pb from zircons (185—2ma) Plag-hbld porphyritic monzo-diorite. Eb Feldspar-phyric, siliceous, pyritic dykes/sills dykes/sills dykes/sills dykes 5 BOWSER LAKE GROUP BATHONIAN to CALLOVIAN (166.1-157.1) Argillite, Lithic Arenite, Conglomerate SALMON RIVER FMN. TOARCIAN to BAJOCIAN (187-166.1) Pillow basalts, hyaloclastite, debris flows,autobreccia with HANGINGWALL mafic sequence" Flow banded, flow brecciated autobrecciated rhyolite with tuff and fragmental units. FOOTWALL RHYOLITE MT. DILWORTH FMN. Zircon Pb 189 Heterolithic felsic fragmentals, tuffs 3 vesicular dacite fragmentals, flows BETTY CREEK FMN. U.PLEINSBACHIAN(194–187) 2b ESKAY CREEK MEMBER—Intermediate coarse epiclastics, mudstone, andesitic derived conglomerate 20 EAST RIDGE MEMBER—Andesitic congl block breccia debris flows. UNUK RIVER FORMATION HETTANGIAN Siliciclastic sediments, sandstones, siltstones, argillites

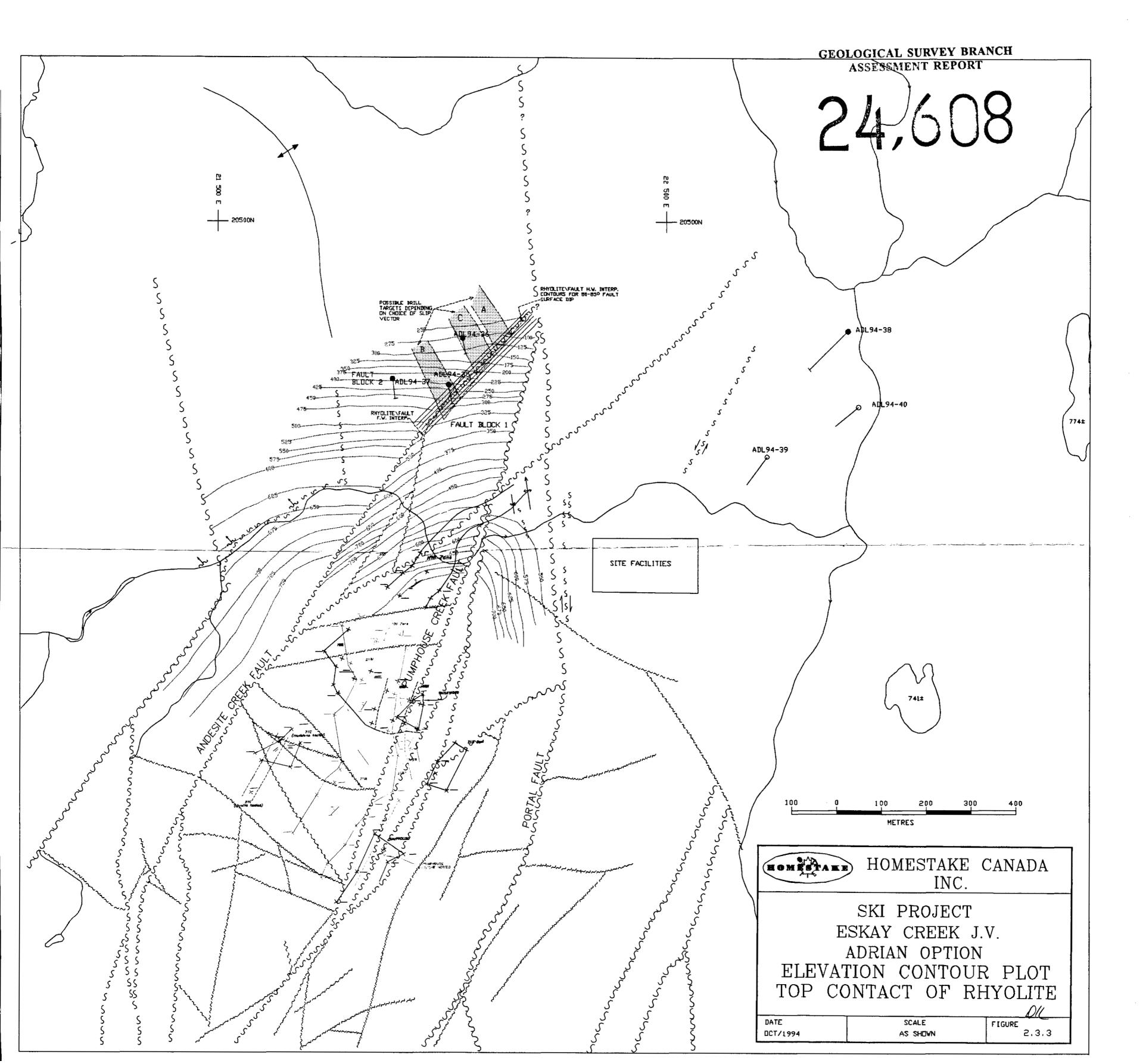
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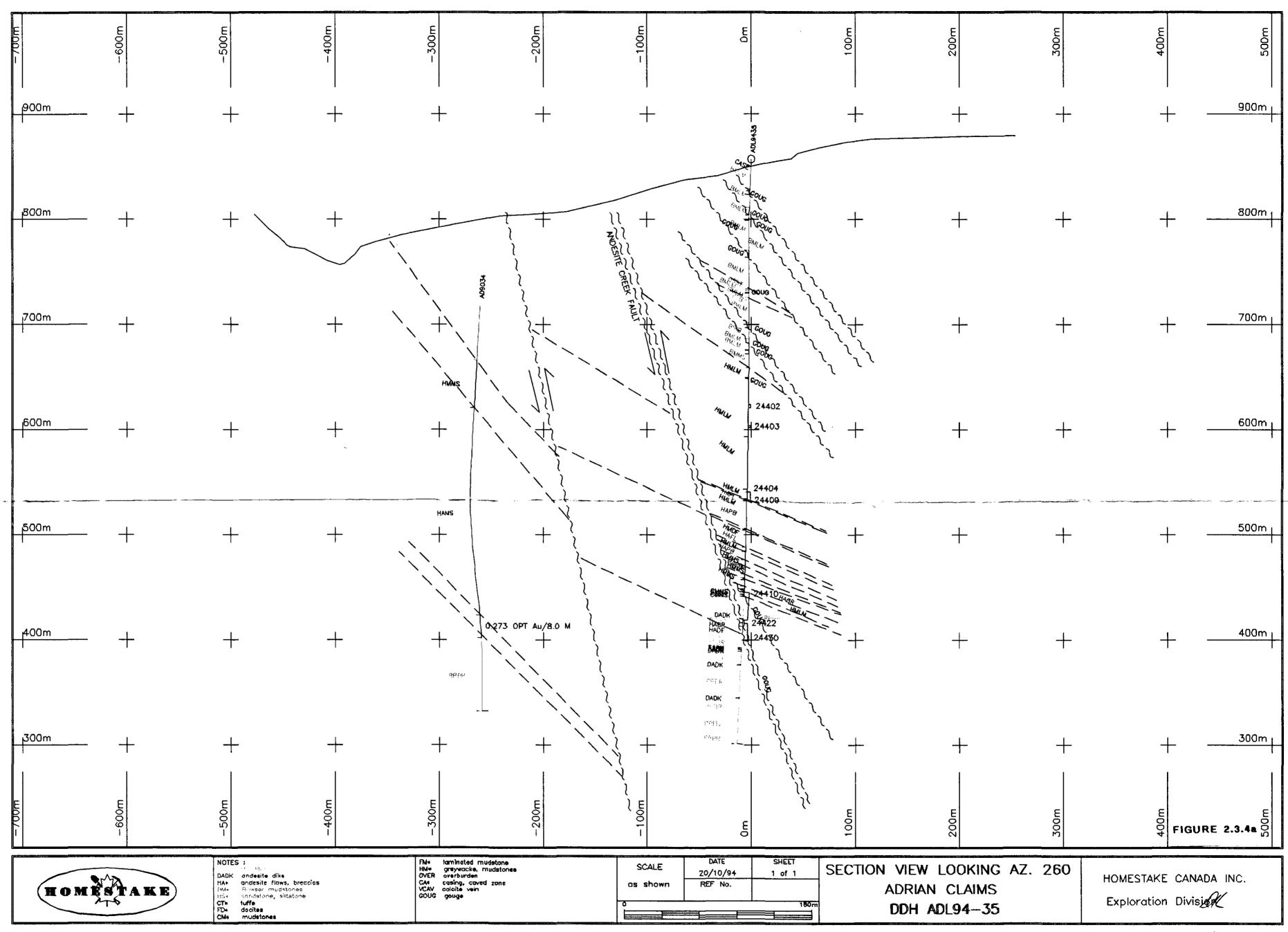
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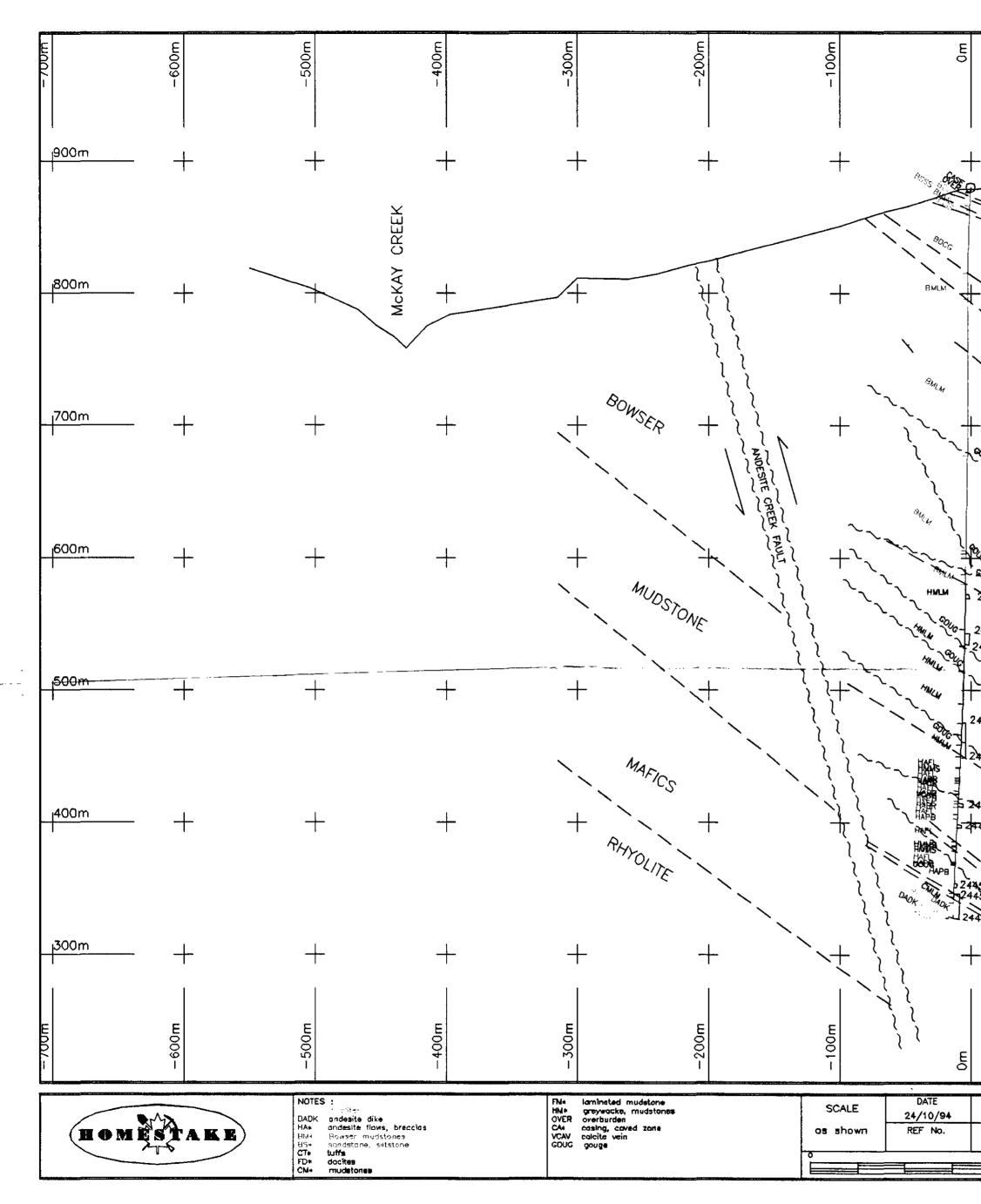




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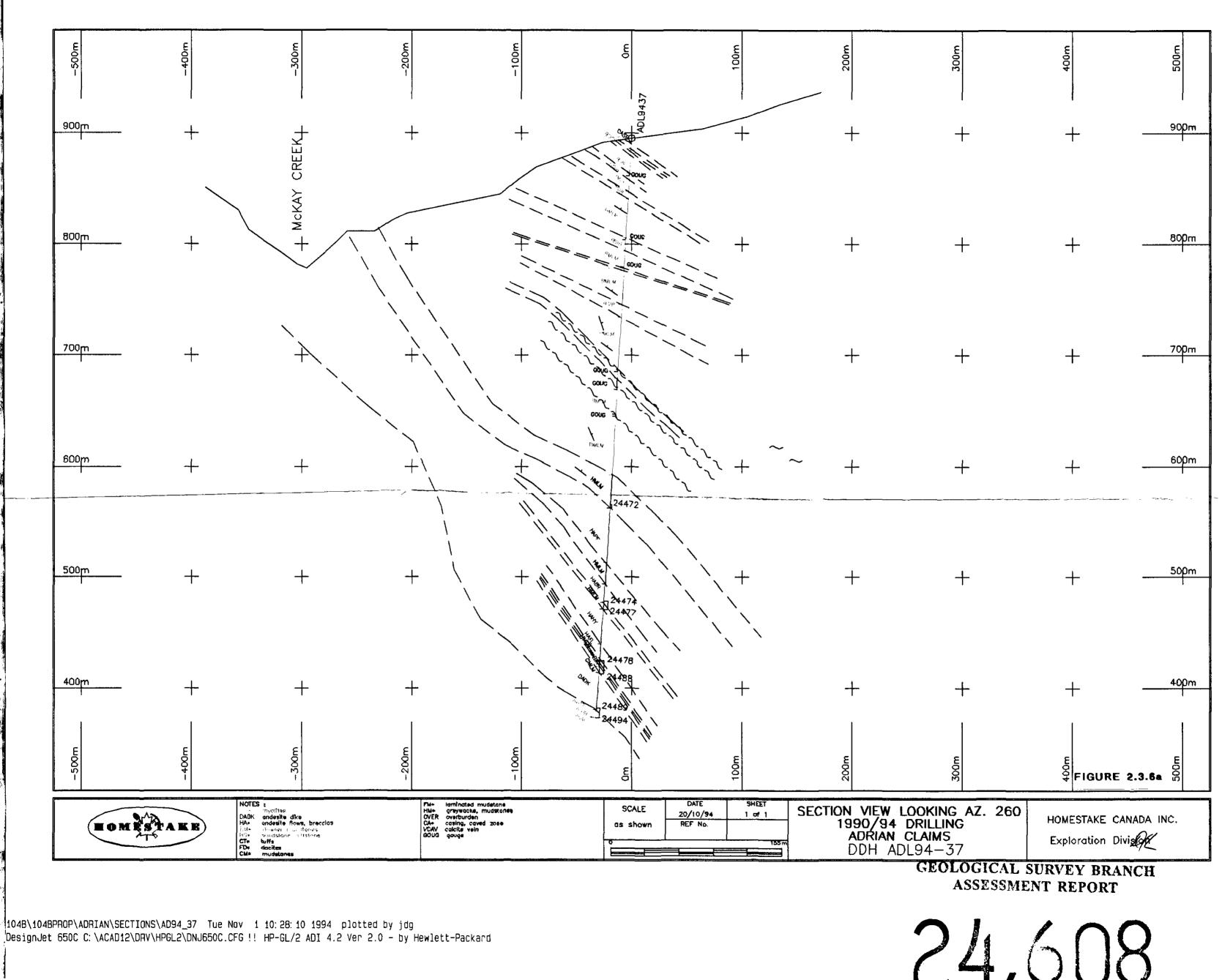
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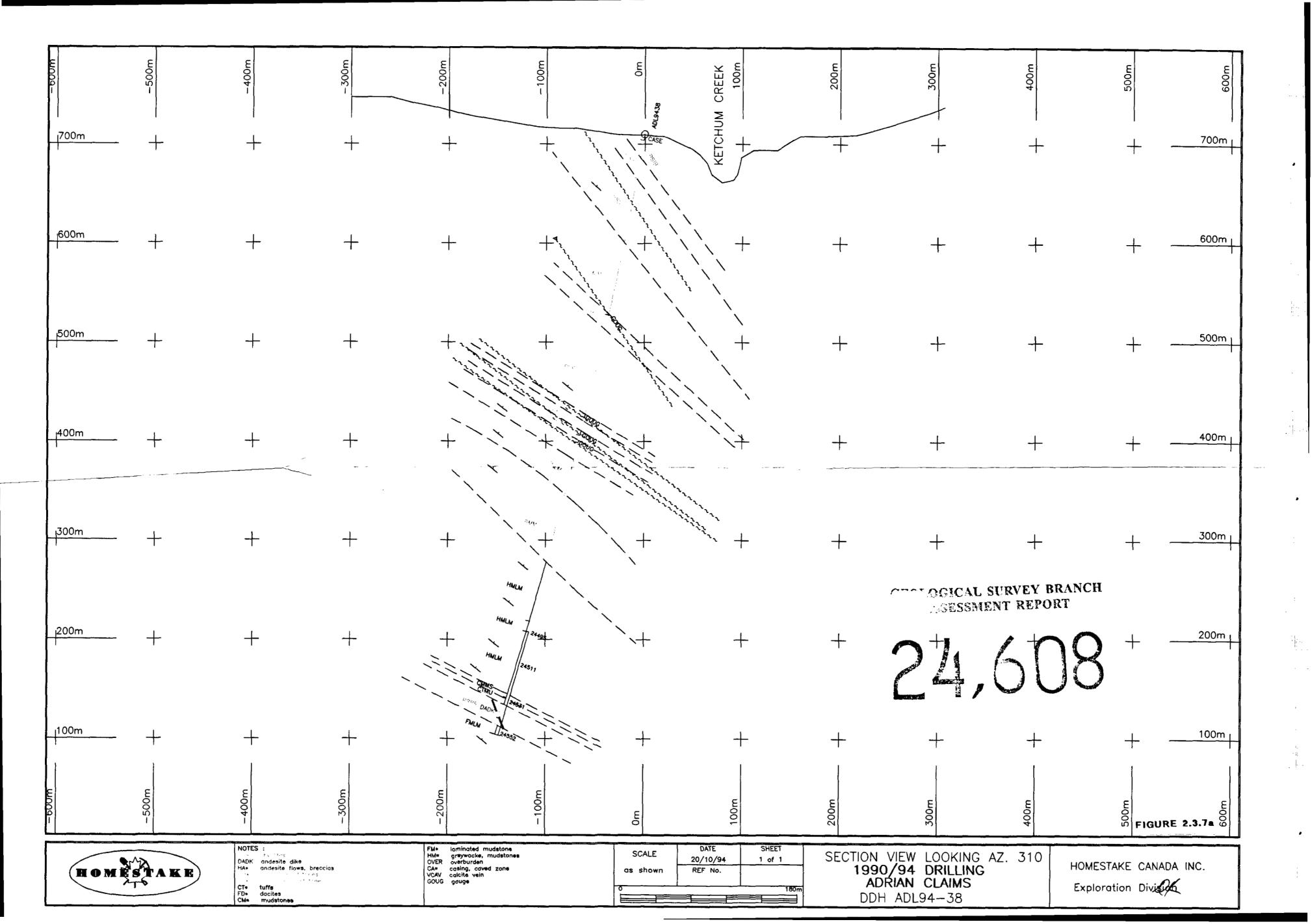


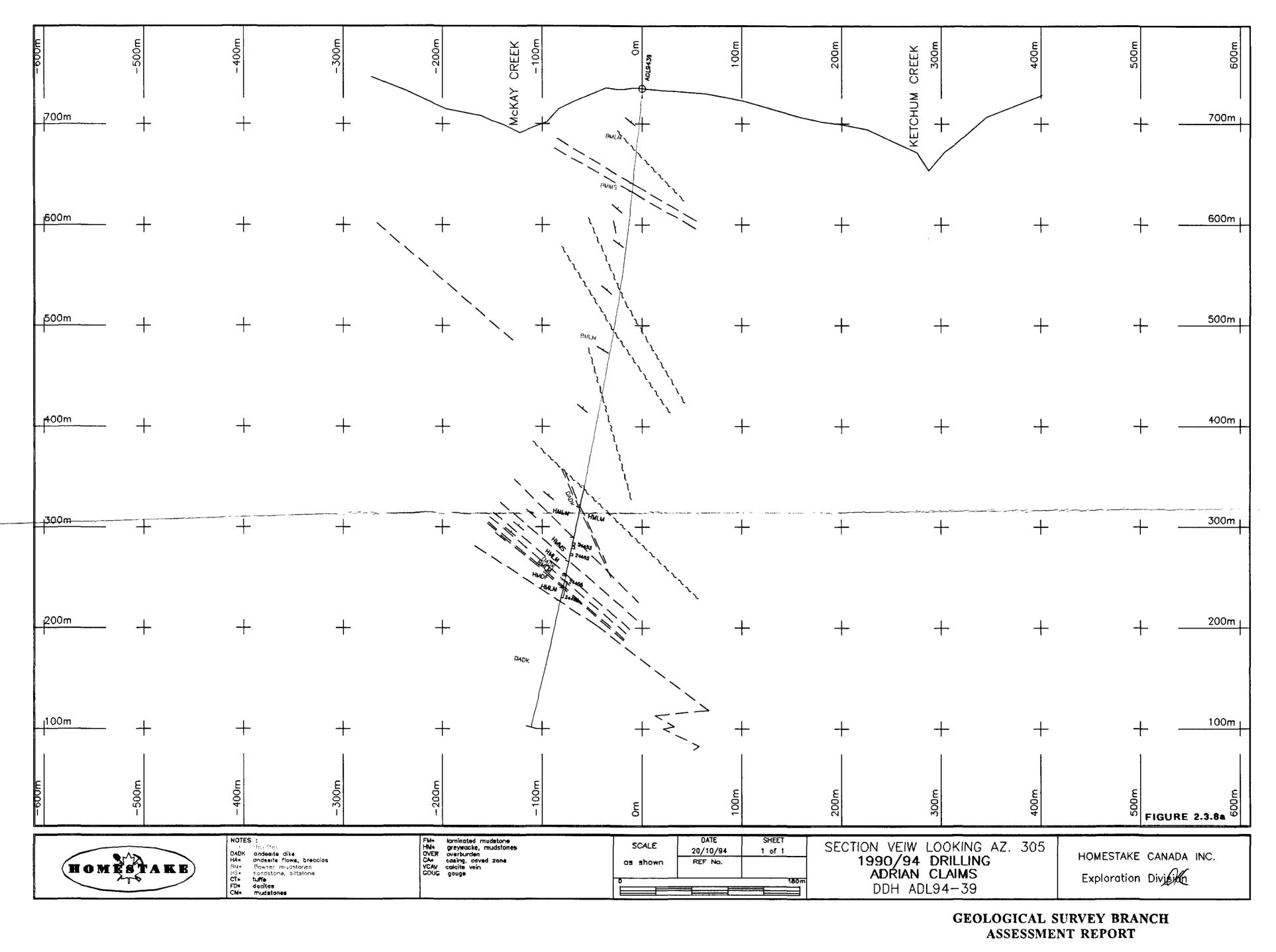
300m **E**00 400m 500m 8 900m 800m ╀ +╉ 700m ╋ +╋ 600դ +╀ +24433 24434 24437 500m ++ +-+24438 24452 \$ 24454 400m + +24454 ╉ + 24456 24471 300m +* ╈ E000 FIGURE 2.3.5.80 00 00 200m 300m SHEET SECTION VIEW LOOKING AZ. 260 1 of 1 HOMESTAKE CANADA INC. 1990/94 DRILLING Exploration Division DDH ADL94-36 ____

GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORT

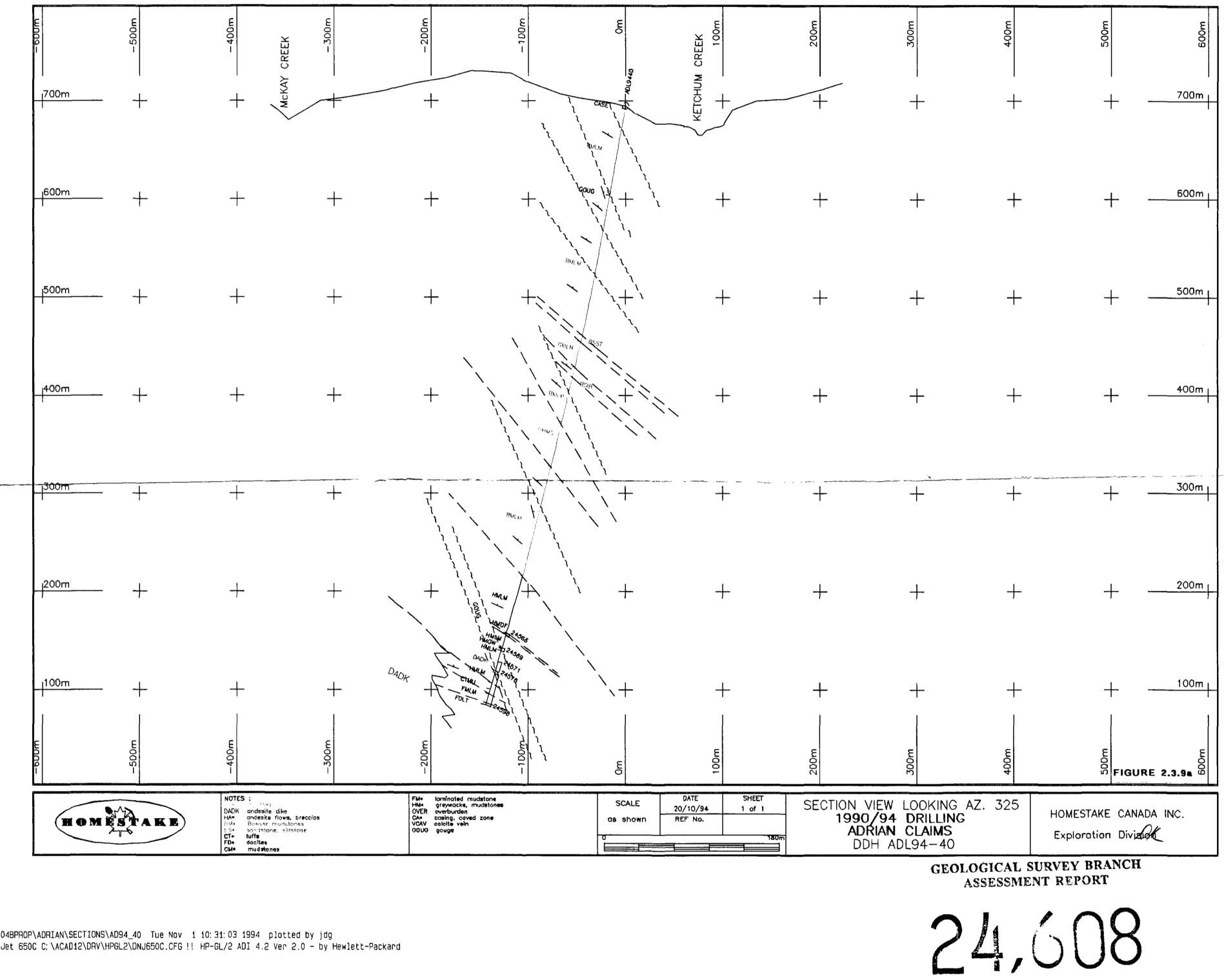
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