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Date	Rebruary 11, 1986	anorogy Dibi	
To:	L.C. Kilburn W977		
Copies to:	TEC	and the second sec	
From:	J.B. Gammon		
Subject:	Report #190-101-85 Jasper Cla Island, B.C.	aim, Vancouver	

Please find attached Shelley Lear's summary report on work carried out to date on the Jasper property. The original showing was quite impressive but drilling failed to locate any depth extent to the zone. Some geochemical indications remain to be followed up and an attempt will be made to joint venture the property.

1986

JBG:mm Attach. J.B. Gammon

SUMMARY REPORT ON THE JASPER CLAIM GROUP VANCOUVER ISLAND, B.C. 1985 FIELD PROGRAMME 0 0

NTS 92C 15E, LAT. 48 51', LONG. 124 35'

PN 101

Report # 190-101-85

S. Lear January, 1986

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1. SUMMARY

Field work in 1985 was concentrated in an area surrounding the original Cu-Zn showing. This area was delineated by anomalous soil geochemical values from 1984 sampling.

The 1985 exploration programme commenced on June 30 and was prematurely shut down on July 24 due to extreme fire hazard conditions. The drill programme in progress was resumed and completed in early October.

A cut grid of 13.6 km was established. Soil sampling, geological mapping, magnetometer, VLF-EM 16, and "GENIE" EM surveys were conducted on the grid. Soil sampling outlined an anomalous Cu/Zn zone within dacitic volcanics in the western portion of the grid. The various geophysical surveys did not produce any encouraging results.

Geological mapping on the cut grid allowed for more complete coverage than the 1984 programme. A north-south trending contact between dacitic and basaltic volcanics was firmly defined. Several units were added and others revised from the 1984 mapping.

A short drill program using a "Winkie" drill tested the down-dip tenor and strike continuity of the main showing. Four holes totalling 188.37 metres were drilled. Generally low assay values were obtained from drill core samples and poor continuity of surface mineralization was indicated. The best intersection assayed 1.67% Cu, 11 g/tonne Ag over 1.62 metres drilled length.

2.1 Location and Access

The Jasper Claims are situated between Caycuse Creek and Jasper Creek, 7 km NE of the north end of Nitinat Lake and within the Victoria Mining Division. The property is easily reached by the public access road from Cowichan Lake to the east or from Port Alberni to the northwest. Subsidiary road systems provide excellent access within the claim area (Figure 1). Access was denied during August 1985 due to an unusually severe fire hazard.

2.2 Claim Status

The Jasper Claim Group consists of four modified grid located claims - Jasper 1,2,3 and 4 totalling 40 units. Jasper #1 is under option from Ron Bilquist and Les Allen per agreement dated July 1, 1984. Jasper 2 - 4 were staked by Falconbridge Ltd. during the 1984 field season.

Claim Name	Record No.	Expiry Date
JASPER #1	915	May 3, 1988
JASPER 2	1363	Sept. 5, 1988
JASPER 3	1364	Sept. 5, 1988
JASPER 4	1365	Sept. 5, 1988







2.3 Previous Work

The Jasper Group was previously staked by Hudson Bay Exploration under claim names TAM and EASY. Hudson Bay worked on the property between 1971 and 1975. They conducted a rock geochemical sampling programme over the road network established at that time. Several areas of high copper values were found.

The present Jasper 1 claim was staked by Les Allen and Ron Bilquist in 1983. They conducted a prospecting programme along the network of newly developed logging roads. The main showing was discovered in a new rock cut and returned interesting values in Cu, Zn, Au and Ag assays.

T. Chandler visited the property in 1984 and Falconbridge Ltd. subsequently optioned it from Bilquist and Allen. Mineral claims Jasper 2,3,4 were staked by Falconbridge in 1984.

Field work in 1984 consisted of geological mapping, rock chip sampling and geochemical soil sampling mainly along road cuts (see Summary Report, K. Hudson, S. Lear, March 1985). A small VLF-EM 16 grid was also established over the original showing.

3. REGIONAL GEOLOGY

Table 1 and Figure 2 (Muller, 1981) summarize the regional stratigraphy of Vancouver Island.

The oldest rocks are the Paleozoic Sicker Group consisting of a lower volcanic and an upper sedimentary unit. The Sicker Group averages 4,400 m. in thickness; the lower 3000 m. consists of pillowed and agglomerate basalts, pyroclastics, argillite and chert. The upper 1400 m. of sediments includes some limestone. Folding and metamorphosis has produced chlorite-actinolite and chlorite-sericite schists. Structures are mainly overturned and isoclinally folded indicating two or more phases of tectonism (Muller, 1980).

The Vancouver Group of late to middle Triassic age dominates the island's lithologies and averages 6,100 m. in thickness (Muller, 1980). The group is composed of Karmutsen Formation volcanics, capped by Quatsino Formation limestones and Parson Bay Formation calcareous sediments.

The Karmutsen Formation consists of tholeiitic ocean floor pillow lavas, massive flows, breccias and tuffs with minor layers of limestone and other sediments in the upper 1,100 m. In central Vancouver Island this formation reaches a thickness of 6000 m. while in the southwest region the estimated thickness is between 1000 and 2000 metres (Muller, 1980). Large scale northerly and westerly block faulting is common.

The Quatsino Formation overlies the Karmutsen and consists of mainly massive, fairly pure, flat lying limestone of upper Triassic age.

The Bonanza Group (Muller, 1979) is described as having a varied and heterogeneous lithology. The lavas range in composition from



	TABLE I: TABLE OF FORMATIONS OF VANCOUVER ISLAND												
	,	·,			SEQUE	NTI	AL L	AYERED ROCKS	CRYSTALLINE ROCKS	,CON	APLE)	KES C	F POORLY DEFINED AGE
	PERH	00	STAGE	GROUP	FORMATION	BOL	AVE. HHKK	LITHOLOGY	NAME	SYM- BOL	ISOTOP Ph/U	K AGE	LITHOLOGY
<u>v</u>					late Tert.volc's of Port McNeil	Tvs							
0					SOOKE BAY	mpīsa		conglomerate, sandstone, shate					
6			EOCENE 10		CARMANAH	eoTc	1.200	sandstone, siltstone, coglomerate					
Z			OLIGOCENE		ESCALANTE	eTt	300	conglomerate, sandstone	silicic	Tg Tab	a.	32-59	agmatite, porphyry
υ			early EOCENE	14 11	METCHOSIN	еТм	3,000	basaltic lava, pillow lava, breccia, tuff	METCHOSIN SCHIST, GNEISS	Twn		31-49	gabbro, anorthosite, agmatite chlorite schist, aneissic amphibalite
			MAESTRICHTIAN	;	GABRIOLA	uKGA	350	sandstone, conglomerate	LEECH RIVER FM.	JKL		38-41	phyllite, mica schist, greywacke, braillite, chert
					SPRAY	uKs	200	shale, siltstone					
1 ·					GEOFFREY	uKG	150	conglomerate, sandstone	1				
					NORTHUMBERLAND	uKn	250	siltstone, shale, sandstone	I				
1		1 1	CAMPANIAN	NANAIMO	DE COURCY	uKoc	350	conglomerate, sondstone					
		<			CEDAR DISTRICT	uKco	300	shale, siltstone, sandstone	1				
		-			EXTENSION - PROTECTION	uKep	300	conglomerate.sandstone,shale, coal	L L				
U					HASLAM	uКн	200	shele, siltstone, sandstone			at a Ro		
0			SANIONIAN		COMOX	υKc	350	sandstone, conglomerate, shale, coal					and the second
N			CENOMANIAN ALBIAN	QUEEN	Conglomerate Unit	IKac	900	conglomerate, greywacke					an an an Araban an Araban an Araban An Araban an Araban an Araban an Araban Araban an Araban an Araban an Araban an Araban an Araban an Araban an Ar
0		R.	APTIAN?	CHARLOTTE	Siltstone Shale Unit	IKop	50	siltstone, shale	1				
u u		₹	BARREMIAN		LONGARM	IKL	250	greywacke, conglomerate, siltstone	L				
₹	ŝŝ	MON	TITHONIAN CALLOVIAN		Upper Jurossic Sediment Unit*	slu	500	siltstone.argillite.conglomerate	PACIFIC RIM COMPLEX	JKP			greywacke.argillite.chert.basic Volcanics.limestone
	Š	Ľ	TOARCIAN?		Volcanics	(Ja	1,500	basaltic to thyolitic lava tuff, breccia.	ISLAND INTRUSIONS	Jg		141-181	granite, quartz monzanite
	2	EAR	PUENSBACHAN SINEMURIAN	BONANZA	HARBLEDOWN	IJн		argillite, greywacke, tuff	COMPLEX basic	PMnb	204	63-192	netaquartzite, marble
	U	÷	NORIAN		PARSON BAY	URPS	450	calcareous siltstone.greywacke silty – limestone.minor conglomerate.breccia	an a				quartz diorite, agmatite, amphi- bolite
	SSI	1	KARNIAN	VANCOUVER	QUATSINO	บโหต	400	limestone					
	M				KARMUTSEN	muikk	4,500	basalic lava, pillow lava, breccia, tuff	diabase sills	PTb			
	TR	MIC	LADINIAN	•	Sediment-Sill Unit	T ds	750	metasiltstone, diabase, limestone					
U	bn I				BUTTLE LAKE	CPBL	300	limestone.chert	melovolconic rocks	17Mmv			sediments; limestone, morble
lŌ	ER.N			SICKER	Sediments	CPSS	600	metagreywacke,argillite,schist,marble					
0	7 P F				Volcanics	CPsv	2.000	basaltic to rhyolitic metavolcanic			1.17		
17	IER]	flows. 1uff, agglomerate	TYEE INTRUSIONS	Pg	> 390		metagranodiorite metaguartzdio nte metaguartz porphyry
2	DEV.								COLQUITZ GNEISS	Pns Pnb	>390 >200	63-182	quartz feldspar_gneiss hornblende-plagipc lase_gneiss

- 6-

basaltic andesites which are commonly amygdaloidal, to rhyodacites. Interbedded with these flows are maroon and green coloured tuff breccias and several intercalated marine sediments. Regional metamorphism has reached zeolite grade.

Island intrusions form NW trending regions in the southwest part of Vancouver Island. These intrusions are mainly quartz diorite and granodiorite which postdate the Bonanza volcanics.

4. PROPERTY GEOLOGY

4.1 Lithology

New road cuts and the establishment of a cut grid enabled detailed mapping of the area east and southeast of the showing. This area was previously unmapped or poorly covered. The 1984 mapping was revised and several new units were added.

The Jasper claim group is underlain by lower Jurassic Bonanza volcanics (Muller, 1977). The major geologic contact is approximately north-south and separates dacitic tuffs and flows from basaltic flows and breccias. A large zone of cherty tuff has been mapped in the central eastern portion of the grid area.

The basaltic volcanics are frequently hematized and hematitic basalt fragments are present within the breccias. This suggests a subaerial environment for at least part of the volcanism.

Dacite Tuffs and Flows (Unit 9)

These rocks dominate the western portion of the grid area. Previous (1984) mapping identified much of this area as mafic volcanics, but these dacitic units are clearly different from the magnetic basalts found to the east. There is a sharp change in Cu, Zn soil results at the dacite - basalt contact with significantly higher background values over the dacite units.

Dacite volcanics are grey to medium green on fresh surface with iron and manganese staining on weathered surfaces. Rocks are frequently porphyritic with feldspar (plagioclase) phenocrysts comprising up to 25 - 30%. Occasional hornblende phenocrysts (2 - 4mm long) are present. These are often partially replaced by epidote. From thin section analysis, the groundmass consists of a fine intergrowth of plagioclase and chlorite with sericite and quartz as minor constituents. Epidote and chlorite alteration are common. Epidote occurs as blebs (1 - 4mm long) that form up to 20% of the rock. Epidote and quartz are also found infilling vesicles (1mm long). Many samples display fragmental textures and the rocks are probably a mixture of flows and tuffs. Moderate to intense silicification is associated with pyrite and minor chalcopyrite/sphalerite mineralization. Sheared sections also have pyrite occurrences. Intense quartz stockwork is present in the southern

portion of the grid area. The area is also characterized by intrusive dykes. These may be feeder dykes for the basalt flows to the east.

Basalt Flows (Unit 8)

The basaltic volcanics occur mainly in the northeast section of the grid with a small exposure to the south. They exhibit textures varying from massive to porphyritic with amygdular and/or hematized varieties.

The basalts are dark grey-black commonly with plagioclase feldspar phenocrysts (0.5 - 2mm long) comprising up to 20% of the rock. Hematized varieties weather a deep maroon. Amygdules are open or occasionally infilled with calcite, epidote and minor pyrite. Amygdules are 1 to 5mm across.

Non-hematitic varieties are often strongly magnetic while hematitic basalts are usually slightly or non-magnetic. Hematite is thus thought to have formed by subaerial alteration of original magnetite.

Epidote alteration of feldspars is common. Calcite often occurs as veinlets and fracture coatings. One sample of calcite and sphalerite on a fracture surface was found 300 metres east of the main sulphide occurrence.

Basaltic Breccia (Unit 7)

This unit is equivalent to K. Hudson's intermediate breccia (Unit 2ibx, 1984 report). The breccia consists of a variety of subrounded to angular volcanic rock fragments. Composition of the fragments ranges from vesicular lava to porphyritic volcanics with a fine grained hematitic matrix (see Lakefield Research Petrographic Report, Sample 3). Fragments range in size from 1 cm to 10 cm with a mode of 4-6 cm. Coarse grained euhedral phenocrysts (0.5 - 2mm long) of albite and orthoclase are pervasive and abundant (up to 30%). The phenocrysts appear to have formed during initial deposition. The breccia consists almost entirely of fragments with very little matrix.

The brecciated texture is most apparent on a weathered surface. On fresh surface, the breccia resembles hematitic basalt and could easily be confused if a good weathered surface is not exposed (i.e. along road cuts). No flow textures were observed in hand specimen or thin section. These breccias most likely represent proximal facies avalanche or debris flows.

Lapilli Tuff (Unit 6)

Lapilli tuff covers a small area in the central and northern portion of the grid. Rock fragments are poorly sorted, angular to subrounded 0.5 - 15mm long (mode is 2 - 4mm). Fragments are mostly grey and bleached white volcanics with occasional hematitic fragments. Matrix is very soft and light grey-green in colour. The Lapilli tuff may be a finer grained version of the basaltic breccia unit.

Hematized Lahar (Unit 5)

The Lahar was first identified by K. Hudson in 1984. Subsequently, a second exposure was discovered along a new road cut above the first outcrop. Rounded and chaotic porphyritic basalt and dacite volcanic clasts occur in a friable hematite rich mudstone. Clasts range from 5 cm to 1.5 metres across and are poorly sorted. Due to the scale of the clasts and the lack of colour contrast between clasts and matrix, the lahar can be difficult to identify unless a good road cut is available.

Cherty Tuff (Unit 4)

This unit is exposed in the central eastern section of the grid and may be equivalent to the bedded tuff unit of the 1984 mapping. The tuff is white-grey on weathered surface and light to medium olive green on fresh surface. Rocks are aphanitic, highly silicified with a cherty appearance. Occasional small (1-2mm long) feldspar laths are visible in hand sample. Thin section analysis (Lakefield Research Report, Sample 2) reveals euhedral to subhedral phenocrysts of orthoclase (35-40%) and occasional laths of chlorite (4-6%) in a very fine grained siliceous matrix. The matrix is reported to be similar to that of the pyroclastic breccia. Very rare, small rock fragments were observed.

The cherty tuffs are frequently well-bedded. Orientation varies from 100° to 140° with dips of $67^{\circ} - 84^{\circ}$ N. One measurement of $010^{\circ}/25^{\circ}$ E was taken near the contact with the pyroclastic breccia unit. Layers are very thin and frequently warped.

Pyroclastic Volcanic Flow Breccia (Unit 3)

This unit is found in the central eastern section of the grid. It is well exposed along a road cut from 650W to 625W and is bordered by cherty tuff. The breccia consists of feldspar-rich volcanic fragments and chloritic patches possibly formed by alteration of original volcanic fragments (see Lakefield Research Report, Sample 1). Fragments are 0.5 to 2 cm long and both types are partly digested in the fine grained siliceous matrix. Towards the south along the road cut, angular white chert fragments (0.5 to 4mm long) appear with trace pyrite. An exposure of pyroclastic breccia at 1000N/800W has up to 20% pyrite in places. Vague flow lines transect the fine grained matrix.

Mafic Intrusive (Diabase) Dykes (Unit 2)

Small dykes occur throughout the grid area, often at contacts or in shear zones. Dykes are fine grained, dark grey-black and are slightly to moderately magnetic.

<u>Aquagene Tuff (Unit 1)</u>

Only one outcrop of this unit was observed, although many large pieces of float were found in the vicinity. The tuff is dark grey-black

and ranges from fine to medium grained. Graded bedding was noted indicating that this unit is right side up. Disseminated euhedral pyrite (1-2%) occurs in the coarser-grained bands. Bands are oriented at 055°/17° SE.

4.2 Structure

The contact between dacite and basaltic volcanics displays a general north-south trend. The basaltic breccia, lahar, lapilli tuff and pyroclastic flow breccia also have an approximate north-south orientation.

Bedding measurements were obtained from the cherty tuff with orientations of 100° to 140° dipping $67^{\circ} - 84^{\circ}N$. Field relations indicate that the cherty tuff overlies older basalt flows.

The presence of a lahar and coarse-grained breccia suggests downslope movement of pyroclastic units during deposition. The distribution of these units was probably strongly influenced by variations in paleotopography.

Fractures and shears are common throughout the grid especially within the dacite and basalt volcanics. The most common shear orientation is 144⁰/84⁰E (K.Hudson, 1985) and is the shear set related to the main showing mineralization.

No evidence of folding was noted.

4.3 Mineralization

The best showing on the property is termed the "Main Showing". Mineralization consists of a series of wedge and block shaped zones of pyrite with lesser amounts of chalcopyrite, sphalerite and minor galena across a 28 metre road cut (see K. Hudson, 1985). The sulphides occur in a porphyritic dacite and are controlled by shears. Chlorite is commonly associated with the sulphides. Copper values in the main showing were as high as 2.3%; zinc values were up to 2.4%; gold ranged from 83 to 725 ppb; silver values were 2.1 to 14.6 ppm (1984 sampling). During the 1985 season four drill holes were completed at the main showing to test for continuity at depth.

Sheared zones with associated disseminated pyrite and occasional sphalerite are common in the dacite volcanics southwest of the main showing. Shear zones are frequently accompanied by intense silicification. One rock sample of a small limonitic vein assayed 19000 ppb Au. Subsequent detailed sampling in the area indicated that the the anomalous gold values are small, isolated occurrences (see section 5. LITHOGEOCHEMISTRY).

Minor disseminated and amygdule-filling pyrite and sphalerite occur in the basaltic volcanics.





-12-

5. LITHOGEOCHEMISTRY

Rock chip samples were taken of intensely mineralized or limonitic sections encountered during the geological mapping. Samples were analyzed for 26 element I.C.P. at ACME Analytical Labs in Vancouver. Sample locations and numbers are shown on figures 4 and 5 with gold results presented on figure 5a. A list of sample decriptions and locations is presented on Table 2 (following page). Copies of assay cerficates are in Appendix B.

One result of 19,000 ppb gold was received from sample 6667. Subsequent detailed sampling in the vicinity did not indicate any significant strike length to this zone. A resample of #6667 returned a value of >10,000 ppb Au, 12.50 g/t on fire assay. Three samples were taken within one metre of #6667 and did not show anomalous gold values.

6. GEOCHEMISTRY

6.1 Introduction

Soil samples of "B" horizon material were collected at 25 metre intervals along the grid lines. A total of 417 samples were collected. Samples were analyzed at CDN Labs in Delta for copper, zinc, lead, gold, and silver. The minus 80 mesh fraction was analyzed using nitric acid digestion with atomic absorption finish for Ag, Cu, Zn, Pb and fire assay with AA finish for Au. Results are presented in figures 6 to 9.

6.2 Results

Copper values range from 2 ppm to 1010 ppm. Results are shown on Fig.6 and contoured at 100, 200 and 400 ppm.

Zinc values range from 10 ppm to 1240 ppm. Results are shown on Fig. 7 and contoured at 100, 200 and 400 ppm. Values >400 ppm occur mainly as isolated highs.

Zinc and copper anomalies (>100 ppm) are concentrated within the dacitic volcanics. A few zinc anomalies (>100 ppm) occur within the basalts. Copper values are very low in the basalts, generally <40 ppm. Values of 250 ppm zinc and 890 ppm copper occur in the vicinity of the main showing. Unfortunately it was not possible to collect soil samples at many of the locations near the main showing due to the presence of road materials and heavy logging debris. An isolated anomaly of 1010 ppm Cu and 1240 ppm Zn occurs at 1200W/825N. Follow-up work in this area did not disclose any evidence of mineralization. Most of the soil anomalies occur as isolated highs with no discernible broad trends or zones. The soil programme did indicate that any further exploration work should be concentrated within the dacitic volcanics.

Lead values range from 1 to 440 ppm (Fig. 8). The 440 ppm result occurs at 650W/975N within the cherty tuff unit. A broad high (>50 ppm) extends south from the main showing along the dacite - basalt contact.

TABLE 2 - LITHOGEOCHEMISTRY

SMPL #ROCK TYPESAMPLE DESCRIPTIONLOC/6660Vol. BrecciaGrab smpl. Abdt chert frags800W/ Highly sil. Tr. py.6661Cherty TuffChip smpl0.30m limonitic760W/ zone6662Mafic DykeChip smpl-12m. Magnetic intr.655W/ chlorite alt.6663Mafic DykeChip smpl-1m. Limonitic shear650W/ chlorite alt.6664Dacite Vol.Chip smpl-1m. Shear zone.960W/0 highly sil. py:20%6665Dacite Vol.Grab smple of boulder on road1070W. cut. Chiorite, py:15%6666Dacite Vol.Chip smpl-0.5m. Highly sil.1010W. Tr. Py6666Dacite Vol.Chip smpl-0.5m. Highly sil.980W/ for smpl-0.5m. Highly sil.1070W. Py:2%6668Dacite Vol.Chip smpl-0.5m. Mod. sil.1070W. Py:20%6670Dacite Vol.Chip smpl-0.5m. Mod. sil.1250W. Py:10%6671Dacite Vol.Chip smpl-0.3m. Mod. sil.1250W. Py:10%6673Dacite Vol.Chip smpl-0.3m. Mod. sil.1250W. Py:10%6673Dacite Vol.Channel-0.25m. Old. sil.1009N. J3J1Dacite Vol.Channel-0.25m. Mod. Sil.930W/3 J3J4Dacite Vol.Chip smpl-0.25m. Mod. Sil.94W/3J5Dacite Vol.Channel-0.25m. Mod. Sil.94W/3J6Dacite Vol.Channel-0.25m. Py:5%1007W. Sil. zone. FeOXJ4Dacite Vol.Channel-0.25m. Mod. Sil.105W. J3J5Dacite Vol.Channel-0.70M Sil															
6660Vol. BrecciaGrab smpl. Abdt chert frags800W/ Highly sil. Tr. py.6661Cherty TuffChip smpl0.30m limonitic760W/ zone6662Mafic DykeChip smpl-2m. Magnetic intr.655W/ chlorite alt.6663Mafic DykeChip smpl-1m. Limonitic shear650W/ zone6664Dacite Vol.Chip smpl-1m. Shear zone.960W/ yode6665Dacite Vol.Grab smple of boulder on road1070W. cut. Chlorite, py:15%6666Dacite Vol.Grab smple.of.sm. Highly sil.1010W. Py:2%6667Dacite Vol.Chip smpl-0.5m. Highly sil.980W/ folder6668Dacite Vol.Chip smpl-0.5m. Highly sil.980W/ folder6667Dacite Vol.Chip smpl-0.5m. Mod. sil.1250W Py:20%6670Dacite Vol.Chip smpl-0.5m. Mod. sil.1250W Py:10%6671Dacite Vol.Chip smpl-0.5m. Mod. sil.1250W Py:10%6673Dacite Vol.Chip smpl-0.5m. Mod. sil.1250W Py:10%6673Dacite Vol.Chip smpl-0.25m. Qlz stockwork1009N. J2J1Dacite Vol.Channel-0.25m. Qlz stockwork1009N. J3J4Dacite Vol.Channel-0.25m. Py:5%1007W. J4J4Dacite Vol.Channel-0.25m. Py:5%1007W. J5J5Dacite Vol.Channel-0.25m. Qlz stockwork1098W/ J6J4Dacite Vol.Channel-0.25m. Py:5%1007W. J6J5Dacite Vol.Channel-0.25m. Py:5%1007W. J6J	יר	#	ROCK	TYPE		SAM	PLED	ESCRI	PTION			LOC	CATION		Au
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6661Cherty TuffChip smpl0.30m limonitic760W/ zone6662Mafic DykeChip smpl-2m. Magnetic intr.655W/ chlorite alt.6663Mafic DykeChip smpl-1m. Limonitic shear650W/ zone6664Dacite Vol.Chip smpl-1m. Shear zone.960W/ highly sil. py:20%6665Dacite Vol.Grab smple of boulder on road1070W. cut. Chlorite, py:15% Cu-19411 ppm6666Dacite Vol.Chip smpl-0.5m. Highly sil.1010W. Py:20%6667Dacite Vol.Chip smpl-0.5m. Highly sil.980W/6668Dacite Vol.Chip smpl-0.5m. Mod. sil.1070W. Py:20%6670Dacite Vol.Chip smpl-0.5m. Mod. sil.1250W Py:10%6671Dacite Vol.Chip smpl-0.3m. Mod. sil.1250W Py:10%6672Dacite Vol.Chip smpl-0.3m. Mod. sil.1250W Py:10%6673Dacite Vol.Chip smpl-0.5m. Mod. sil.1300W Py:10%6673Dacite Vol.Chip smpl-0.5m. Mod. sil.100W/ Py:10%6673Dacite Vol.Chip smpl-0.25m. Limonite alt.1008N. Max. width 9 cmJ4Dacite Vol.Chip smpl-0.25m. Limonite alt.1008N. Max.J4Dacite Vol.Chip smpl-0.25m. Limonite alt.1004W. Stockwork in alt. daciteJ9Dacite Vol.Channel-0.25m Py:3%996W/ Joexite Vol.Channel-0.25m Limonite alt.J10Dacite Vol.Chip smpl-0.7m Sil. zone, FeOX 1043W. Stockwork in alt. daciteJ9Dacite Vol.Channel-0.70 Sil. zone, FeOX 1043W. 						Hig	hly s	i I.: T	r. py	•					
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$\begin{array}{c} {\rm cut. Chlorite, py:15\%}\\ {\rm Cu-19411 ppm, Ag-11.1 ppm}\\ 6666 \\ {\rm Dacite Vol.}\\ {\rm Chip smpl-0.5m. Highly sil. 1010W,}\\ {\rm Py:2\%}\\ 6667 \\ {\rm Dacite Vol.}\\ {\rm Chip smpl-5cm. Limonite zone 1000W,}\\ {\rm Tr. Py}\\ 6668 \\ {\rm Dacite Vol.}\\ {\rm Chip smpl-0.5m. Highly sil. 980W/}\\ 6669 \\ {\rm Dacite Vol.}\\ {\rm Chip smpl-0.5m. Mod. sil. 1070W,}\\ {\rm Py:20\%}\\ 6670 \\ {\rm Dacite Vol.}\\ {\rm Chip smpl-0.5m. Mod. sil. 1250W,}\\ {\rm Py:10\%}\\ 6671 \\ {\rm Dacite Vol.}\\ {\rm Chip smpl-0.5m. Mod. sil. 1250W,}\\ {\rm Py:10\%}\\ 6672 \\ {\rm Dacite Vol.}\\ {\rm Chip smpl-0.3m. Mod. sil. 1250W,}\\ {\rm Py:10\%}\\ 6673 \\ {\rm Dacite Vol.}\\ {\rm Chip smpl-0.3m. Highly sil. 1300W,}\\ {\rm Py:10\%}\\ 6673 \\ {\rm Dacite Vol.}\\ {\rm Chip smpl-0.5m. Mod. Sil. 930W/}\\ {\rm Py:10\%}\\ 6673 \\ {\rm Dacite Vol.}\\ {\rm Channel-0.45m. Py:5\% 1009N,}\\ {\rm J2 Dacite Vol.}\\ {\rm Chip smpl-0.45m. Py:5\% 1009N,}\\ {\rm J4 Dacite Vol.}\\ {\rm Channel-0.70m Sil., alt. wallrx 994W/}\\ {\rm J5 Dacite Vol.}\\ {\rm Channel-0.70m Sil., alt. wallrx 994W/}\\ {\rm J8 Dacite Vol.}\\ {\rm Channel-0.70m Sil. zone, FeOx 1043W,}\\ {\rm J10 Dacite Vol.}\\ {\rm Channel-0.70m Sil. zone, FeOx 1043W,}\\ {\rm J11 Dacite Vol.}\\ {\rm Channel-0.70m Sil. zone, FeOx 1043W,}\\ {\rm J11 Dacite Vol.}\\ {\rm Channel-0.70m Sil. zone, FeOx 1043W,}\\ {\rm J10 Dacite Vol.}\\ {\rm Channel-0.70m Sil. zone, FeOx 1043W,}\\ {\rm J11 Dacite Vol.}\\ {\rm Chip smpl-3.5m. Highly sil. 1051W,}\\ {\rm J11 Dacite Vol.}\\ {\rm Chip smpl-3.5m. Highly sil. 1051W,}\\ {\rm J11 Dacite Vol.}\\ {\rm Chip smpl-3.5m. Highly sil. 1051W,}\\ {\rm J11 Dacite Vol.}\\ {\rm Chip smpl-3.5m. Highly sil. 1051W,}\\ {\rm J11 Dacite Vol.}\\ {\rm Chip smpl-3.5m. Highly sil. 1051W,}\\ {\rm J12 Dacite Vol.}\\ {\rm Chip smpl-2m. Otz stockwork. 1066W,}\\ {\rm J15 Dacite Vol.}\\ {\rm Chip smpl-2m. Otz stockwork. 1066W,}\\ {\rm J16 Dacite Vol.}\\ {\rm Chip smpl-2m. At m. Jighly sil. 1066W,}\\ {\rm J16 Dacite Vol.}\\ {\rm Chip smpl-2m. Otz stockwork. 1066W,}\\ {\rm J16 Dacite Vol.}\\ {\rm Chip smpl-2m. Otz stockwork. 1066W,}\\ {\rm J16 Dacite Vol.}\\ {\rm Chip smpl-2m. Otz stockwork. 1066W,}\\ {\rm J16 Dacite Vol.}\\ {\rm Chip smpl-2m. Net stockwork. 1066W,}\\ {\rm J16 Dacite Vol.}\\ {\rm Chi$	6 E	D	acite	Vol.		Grab	smple	of b	oulde	er on	road	1070	W/1135N	1	ND
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						cut	Chi	orite	, py:	15%					
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Tr. Py6668Dacite Vol.Chip smpl-0.5m. Highly sil.980W/6669Dacite Vol.Chip smpl-0.5m. Mod. sil.1070W.6670Dacite Vol.Chip smpl-0.5m. Mod. sil.1250W6671Dacite Vol.Chip smpl-0.5m. Mod. sil.1250W6671Dacite Vol.Chip smpl-0.3m. Mod. sil.1250W6672Dacite Vol.Chip smpl-0.3m. Mod. sil.1250W6673Dacite Vol.Chip smpl-0.5m. Mod. Sil.930W/6673Dacite Vol.Chip smpl-0.5m. Mod. Sil.930W/7Dacite Vol.Chip smpl-0.5m. Mod. Sil.930W/91Dacite Vol.Chip smpl-0.5m. Mod. Sil.930W/91Dacite Vol.Chip smpl-0.25m. Limonite alt.1009N.12Dacite Vol.Chip smpl-0.45m. Py:5%1007W.13Dacite Vol.Channel-0.25m Py:3%996W/14Dacite Vol.Channel-0.25m Py:3%996W/15Dacite Vol.Channel-0.70m Sil.,alt. wallrx 994W/16Dacite Vol.Channel-0.70m Sil. zone, Fe0x1043W.17Dacite Vol.Channel-1.65m. Mod. sil.1047W.18Dacite Vol.Chip smpl-3.5m. Highly sil.1047W.19Dacite Vol.Chip smpl-4m. Highly sil.1051W.113Dacite Vol.Chip smpl-2m. Qtz stockwork.1058W.114Dacite Vol.Chip smpl-2m. Qtz stockwork.1066W.115Dacite Vol.Chip smpl-2m. Gtz stockwork.1066W.116Dacite Vo	57	Da	acite	Vol		Chip	≤ 70 smp I	5 cm.	Limon	ite	zone	1000	W/780N	1 !	5 n n m
6668 Dacite Vol. Chip smpl-0.5m. Highly sil. 980W/ 6669 Dacite Vol. Chip smpl-0.5m. Mod. sil. 1070W. 9807 Py:20% Chip smpl-0.5m. Mod. sil. 1250W 6670 Dacite Vol. Chip smpl-0.5m. Mod. sil. 1250W 6671 Dacite Vol. Chip smpl-0.3m. Mod. sil. 1250W 6672 Dacite Vol. Chip smpl-0.3m. Mod. sil. 1250W 6673 Dacite Vol. Chip smpl-0.3m. Mod. sil. 930W/ 6673 Dacite Vol. Chip smpl-0.5m. Mod. Sil. 930W/ 70% Chip smpl-0.5m. Mod. Sil. 930W/ 90% Py:10% Chip smpl-0.25m. Limonite alt. 1009N. 10 Dacite Vol. Channel-0.25m. Limonite alt. 1009N. 11 Dacite Vol. Chip smpl-0.45m Py:5% 1007W. 12 Dacite Vol. Chip smpl-0.25m. Limonite alt. 1008N. 13 Dacite Vol. Chip smpl-0.25m. Py:5% 1007W. 14 Dacite Vol. Channel-0.25m Py:3% 996W/ 15 Dacite Vol. Channel-0.70m Sil.alt. wallrx 994W/ 16 <td></td> <td></td> <td></td> <td></td> <td></td> <td>Tr.</td> <td>Py</td> <td></td> <td></td> <td></td> <td>20110</td> <td></td> <td></td> <td></td> <td>5 P P</td>						Tr.	Py				20110				5 P P
6669Dacite Vol.Chip smpl-0.5m. Mod. sil.1070W. Py:20%6670Dacite Vol.Chip smpl-0.5m. Mod. sil.1250W Py:10%6671Dacite Vol.Chip smpl-0.5m. Mod. sil.1250W Py:10%6672Dacite Vol.Chip smpl-0.3m. Mod. sil.1250W 	58	De	acite	Vol.		Chip	smpl-	0.5m.	High	ily s	il.	980W	/750N		ND
6670Dacite Vol.Chip smpl-0.5m.Mod. sil.1250W6671Dacite Vol.Chip smpl-0.3m.Mod. sil.1250W6671Dacite Vol.Chip smpl-0.3m.Mod. sil.1250W6672Dacite Vol.Chip smpl-0.3m.Highly sil.1300W6673Dacite Vol.Chip smpl-0.5m.Mod. Sil.930W/s6673Dacite Vol.Channel-0.25m.Mod. Sil.930W/s7Dacite Vol.Channel-0.25m.Qtz stockwork1009N.7Dacite Vol.Channel-0.45m.Py:5%1009N.7Dacite Vol.Channel-0.25m.Limonite alt.1008N.7Max.width 9 cmMax.width 9 cm7Dacite Vol.Channel-0.25m Py:3%996W/7Dacite Vol.Channel-0.70m Sil., alt.wallrx 994W/7Dacite Vol.Channel-0.70m Sil., alt.wallrx 994W/7Dacite Vol.Chip smpl-3.5m.Highly sil.1047W.7Dacite Vol.Chip smpl-3.5m.Highly sil.1047W.7Dacite Vol.Chip smpl-3.5m.Highly sil.1047W.7Dacite Vol.Chip smpl-3.5m.Highly sil.1047W.7Dacite Vol.Chip smpl-4m.Highly sil.1051W.7Dacite Vol.Chip smpl-2m.Qtz stockwork.1058W.7Dacite Vol.Chip smpl-2m.Qtz stockwork.1058W.7Dacite Vol.Chip smpl-2m.Qtz stockwork.1058W.7Dacit	5 9	Dá	acite	Vol.		Chip	smpl-	0.5m.	Mod.	sil	•	1070	W/750N		ND
6671Dacite Vol.Chip smpl-0.3m. Mod. sil.12506671Dacite Vol.Chip smpl-0.3m. Mod. sil.1250W6672Dacite Vol.Chip smpl-0.3m. Highly sil.1300W6673Dacite Vol.Chip smpl-0.5m. Mod. Sil.930W/s6673Dacite Vol.Chip smpl-0.5m. Mod. Sil.930W/s79:10%Channel-0.25m. Otz stockwork1009N.71Dacite Vol.Channel-0.25m. Otz stockwork1009N.72Dacite Vol.Channel-0.25m. Limonite alt.1008N.73Dacite Vol.Chip smpl-0.45m Py:5%1007W.74Dacite Vol.Chip smpl-0.45m Py:5%1007W.75Dacite Vol.Channel-0.25m Py:3%996W/76Dacite Vol.Channel-0.70m Sil., alt. wallrx994W/77Dacite Vol.Channel-0.70m Sil. zone, FeOX1043W.78Dacite Vol.Chip smpl-3.5m. Highly sil.1047W.79Dacite Vol.Chip smpl-4m. Highly sil.1052W.71Dacite Vol.Chip smpl-4m. Highly sil.1052W.73Dacite Vol.Chip smpl-2m. Qtz stockwork.1058W.74Dacite Vol.Chip smpl-2m. Qtz stockwork.1058W.75Tr. Py.116Dacite Vol.Chip smpl-2m. Qtz stockwork.1066W.	7 7	n	acite	Vol		Chin	20% smpl-	() 5m	Mod	l e i	1	1250	W/1190		ND
6671Dacite Vol.Chip smpl-0.3m. Mod. sil.1250W6672Dacite Vol.Chip smpl-0.3m. Highly sil.1300W6673Dacite Vol.Chip smpl-0.5m. Mod. Sil.930W/96673Dacite Vol.Chip smpl-0.5m. Mod. Sil.930W/9911Dacite Vol.Channel-0.25m. Otz stockwork1009M92Dacite Vol.Channel-0.25m. Otz stockwork1009M93Dacite Vol.Channel-0.45m. Py:5%1009M94Dacite Vol.Chip smpl-0.45m Py:5%1007W95Dacite Vol.Chip smpl-0.25m Py:3%996W/96J4Dacite Vol.Chip smpl-0.45m Py:5%1007W95Dacite Vol.Chip smpl-0.45m Py:5%1007W95Dacite Vol.Channel-0.25m Py:3%996W/96J5Dacite Vol.Channel-0.70m Sil., alt. wallrx 994W/97Dacite Vol.Channel-0.70m Sil., alt. wallrx 994W/98Dacite Vol.Channel-0.70m Sil. zone, FeOx 1043W99Dacite Vol.Chip smpl-3.5m. Highly sil.1047W910Dacite Vol.Chip smpl-3.5m. Highly sil.1047W911Dacite Vol.Chip smpl-4m. Highly sil.1051W913Dacite Vol.Chip smpl-2m. Gtz stockwork.1066W914Dacite Vol.Chip smpl-2m. Gtz stockwork.1066W915Dacite Vol.Chip smpl-2m. Gtz stockwork.1066W916Dacite Vol.Chip smpl-1.5m. Highly sil.1065W917Dacite Vol.Chip smpl-1.5m. Highly sil. <td< td=""><td></td><td></td><td></td><td>, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</td><td></td><td>Py:</td><td>10%</td><td>0.011.</td><td>1000</td><td></td><td></td><td>1200</td><td></td><td>•</td><td></td></td<>				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Py:	10%	0.011.	1000			1200		•	
Py:10%6672Dacite Vol.Chip smpl-0.3m. Highly sil.1300W Py:10%6673Dacite Vol.Chip smpl-0.5m. Mod. Sil.930W/ Py:15%. Tr. CpyJ1Dacite Vol.Channel-0.25m. Otz stockwork1009N. J2J2Dacite Vol.Channel-0.45m. Py:5%1009N. 	7 1	Da	acite	Vol.		Chip	smpl-	0.3m.	Mod.	sil	-	1250	W/1045M	J	ND
6672Dacite Vol.Chip smpl-0.3m. Highly sil.1300W Py:10%6673Dacite Vol.Chip smpl-0.5m. Mod. Sil.930W/: Py:15%. Tr. CpyJ1Dacite Vol.Channel-0.25m. Otz stockwork1009N.J2Dacite Vol.Channel-0.25m. Limonite alt.1008N. Max. width 9 cmJ4Dacite Vol.Chip smpl-0.45m Py:5%1007W.J5Dacite Vol.Channel-0.25m Py:3%996W/J6Dacite Vol.Channel-0.60m Highly sil. FeOX995W/J7Dacite Vol.Channel-0.70m Sil., alt. wallrx994W/J8Dacite Vol.Channel-0.70m Sil. zone, FeOX1044W. stockwork in alt. daciteJ9Dacite Vol.Chip smpl-3.5m. Highly sil.1047W.J11Dacite Vol.Chip smpl-4m. Highly sil.1051W.J12Dacite Vol.Chip smpl-2m. Qtz stockwork.106W. Tr Py.J14Dacite Vol.Chip smpl-1.5m. Highly sil.106W. Tr Py.J14Dacite Vol.Chip smpl-1.5m. Highly sil.1047W. 1052W.		_				Py:	10%								
6673Dacite Vol.Chip smpl-0.5m. Mod. Sil.930W/191Dacite Vol.Py:15%. Tr. Cpy92Dacite Vol.Channel-0.25m. Qtz stockwork1009N93Dacite Vol.Chip smpl-0.25m. Limonite alt.1008N93Dacite Vol.Chip smpl-0.25m. Limonite alt.1008N94Dacite Vol.Chip smpl-0.45m Py:5%1007W95Dacite Vol.Chip smpl-0.45m Py:5%1007W96Dacite Vol.Channel-0.25m Py:3%996W/97Dacite Vol.Channel-0.60m Highly sil. FeOX 995W/98Dacite Vol.Channel-0.70m Sil., alt. wallrx 994W/98Dacite Vol.Channel-0.70m Sil., alt. wallrx 994W/99Dacite Vol.Channel-0.70m Sil. zone, FeOX 1043W99Dacite Vol.Chip smpl-3.5m. Highly sil.1047W91Dacite Vol.Chip smpl-4m. Highly sil.1051W91Dacite Vol.Chip smpl-2m. Qtz stockwork.106W91Dacite Vol.Chip smpl-2m. Qtz stockwork.106W91Dacite Vol.Chip smpl-1.5m. Highly sil.106W91Dacite Vol.Chip smpl-1.5m. Highly sil.106W	7 2	D	acite	Vol.		Chip	smpl-	0.3m.	High	nly s	il.	1300	W/915N		ND
J1Dacite Vol.Py:15%. Tr. CpyJ1Dacite Vol.Channel-0.25m. Qtz stockwork1009NJ2Dacite Vol.Channel-0.45m. Py:5%1009NJ3Dacite Vol.Chip smpl-0.25m. Limonite alt.1008NJ4Dacite Vol.Chip smpl-0.45m Py:5%1007WJ5Dacite Vol.Channel-0.25m Py:3%996W/J6Dacite Vol.Channel-0.60m Highly sil. FeOx 995W/J7Dacite Vol.Channel-0.70m Sil., alt. wallrx 994W/J8Dacite Vol.Channel-1.65m Intense Qtz1044WJ10Dacite Vol.Channel-0.70m Sil. zone, FeOx 1043WJ11Dacite Vol.Chip smpl-3.5m. Highly sil.1047WJ12Dacite Vol.Chip smpl-4m. Highly sil.1051WJ13Dacite Vol.Chip smpl-2m. Qtz stockwork.1066WJ14Dacite Vol.Chip smpl-2m. Qtz stockwork.1066WJ15Dacite Vol.Chip smpl-1.5m. Highly sil.1065WJ16Dacite Vol.Chip smpl-1.5m. Highly sil.1065W	73	Da	acite	Vol		Chip	smpl-	0 5m	Mod	Sil		930W	/950N		ND
J1Dacite Vol.Channel-0.25m. Qtz stockwork1009NJ2Dacite Vol.Channel-0.45m. Py:5%1009NJ3Dacite Vol.Chip smpl-0.25m. Limonite alt.1008NJ4Dacite Vol.Chip smpl-0.45m Py:5%1007WJ5Dacite Vol.Chip smpl-0.45m Py:5%1007WJ6Dacite Vol.Channel-0.25m Py:3%996W/J6Dacite Vol.Channel-0.60m Highly sil. FeOx 995W/J7Dacite Vol.Channel-0.70m Sil., alt. wallrx 994W/J8Dacite Vol.Channel-1.65m Intense Qtz1044WJ9Dacite Vol.Chip smpl-3.5m. Highly sil.1047W.J10Dacite Vol.Chip smpl-3.5m. Highly sil.1052W.J11Dacite Vol.Chip smpl-4m. Highly sil.1051W.J12Dacite Vol.Chip smpl-2m. Qtz stockwork.1058W.J13Dacite Vol.Chip smpl-2m. Qtz stockwork.1066W.J14Dacite Vol.Chip smpl-1.5m. Highly sil.1051W.J15Dacite Vol.Chip smpl-2m. Qtz stockwork.1066W.J16Dacite Vol.Chip smpl-2m. Qtz stockwork.1066W.J16Dacite Vol.Chip smpl-1.5m. Highly sil.1065W.						Py:	15%	Tr. C	ру		•				110
J2Dacite Vol.Channel-0.45m. Py:5%1009N.J3Dacite Vol.Chip smpl-0.25m. Limonite alt.1008NJ4Dacite Vol.Chip smpl-0.45m Py:5%1007W.J5Dacite Vol.Chip smpl-0.45m Py:3%996W/J6Dacite Vol.Channel-0.25m Py:3%996W/J7Dacite Vol.Channel-0.60m Highly sil. FeOx 995W/J7Dacite Vol.Channel-0.70m Sil., alt. wallrx 994W/J8Dacite Vol.Channel-1.65m Intense Qtz1044Wstockwork in alt. dacite1047W.J10Dacite Vol.Channel-1.65m. Mod. sil. FeOx1042W.J11Dacite Vol.Chip smpl-3.5m. Highly sil.1051W.J12Dacite Vol.Chip smpl-4m. Highly sil.1051W.J13Dacite Vol.Chip smpl-2m. Qtz stockwork.1066W.J14Dacite Vol.Chip smpl-2m. Qtz stockwork.1066W.J15Dacite Vol.Chip smpl-1.5m. Highly sil.1065W.Tr. Py116Dacite Vol.Chip smpl-1.4m. Otz stockwork.1062W.		Da	acite	Vol.		Chann	e I - 0 .	25m.	Qtz s	tock	work	1009	N/797N	25	00ppb
J3Dacite Vol.Chip smpl-0.25m. Limonite alt. 1008N Max. width 9 cmJ4Dacite Vol.Chip smpl-0.45m Py:5%1007WJ5Dacite Vol.Channel-0.25m Py:3%996W/J6Dacite Vol.Channel-0.60m Highly sil. FeOX 995W/J7Dacite Vol.Channel-0.70m Sil., alt. wallrx 994W/J8Dacite Vol.Channel-1.65m Intense Qtz1044WJ9Dacite Vol.Channel-0.70m Sil. zone, FeOX 1043WJ10Dacite Vol.Channel-1.65m. Mod. sil. FeOX 1042WJ11Dacite Vol.Chip smpl-3.5m. Highly sil.1047W.J12Dacite Vol.Chip smpl-4m. Highly sil.1051W.J13Dacite Vol.Chip smpl-2m. Qtz stockwork.1058W.J14Dacite Vol.Chip smpl-2m. Qtz stockwork.1066W.J15Dacite Vol.Chip smpl-1.5m. Highly sil.1065W.J16Dacite Vol.Chip smpl-1.5m. Highly sil.1062W.		Da	acite	Vol		Chann	el-0.	45m.	Py:5%	ó		1009	N/795N		35ppb
J4Dacite Vol.Chip smpl-0.45m Py:5%1007WJ5Dacite Vol.Channel-0.25m Py:3%996W/J6Dacite Vol.Channel-0.60m Highly sil. FeOx 995W/J7Dacite Vol.Channel-0.70m Sil., alt. wallrx 994W/J8Dacite Vol.Channel-1.65m Intense Qtz1044WJ9Dacite Vol.Channel-0.70m Sil. zone, FeOx 1043WJ10Dacite Vol.Chip smpl-3.5m. Highly sil.1047WJ11Dacite Vol.Chip smpl-3.5m. Highly sil.1052WJ12Dacite Vol.Chip smpl-4m. Highly sil.1051WJ13Dacite Vol.Chip smpl-2m. Qtz stockwork.1066WJ14Dacite Vol.Chip smpl-1.5m. Highly sil.1066WJ15Dacite Vol.Chip smpl-1.5m. Highly sil.1065WJ16Dacite Vol.Chip smpl-1.5m. Highly sil.1062W		Da	acite	Vol.		Chip	smpl-	0.25m	n. Lim	nonit	e alt.	1008	N/795N	12	.5g/t
J5Dacite Vol.Channel-0.25m Py:3%996W/J6Dacite Vol.Channel-0.60m Highly sil. FeOx 995W/J7Dacite Vol.Channel-0.70m Sil., alt. wallrx 994W/J8Dacite Vol.Channel-1.65m Intense Qtz1044WJ9Dacite Vol.Channel-0.70m Sil. zone, FeOx 1043WJ10Dacite Vol.Channel-1.65m. Highly sil.1047WJ11Dacite Vol.Chip smpl-3.5m. Highly sil.1047WJ12Dacite Vol.Chip smpl-4m. Highly sil.1051WJ13Dacite Vol.Chip smpl-4m. Highly sil.1051WJ14Dacite Vol.Chip smpl-2m. Qtz stockwork.1066WJ15Dacite Vol.Chip smpl-1.5m. Highly sil.1065WJ16Dacite Vol.Chip smpl-1.5m. Highly sil.1065W		D	acite	Vol		Chip	smpl-	0.45m	• Pv:5	5%		1007	W/795N	2	80000
J6Dacite Vol.Channel-0.60m Highly sil. FeOx 995W/J7Dacite Vol.Channel-0.70m Sil., alt. wallrx 994W/J8Dacite Vol.Channel-1.65m Intense Qtz1044WJ9Dacite Vol.Channel-0.70m Sil. zone, FeOx 1043WJ10Dacite Vol.Chip smpl-3.5m. Highly sil.1047WJ11Dacite Vol.Chip smpl-3.5m. Highly sil.1047WJ12Dacite Vol.Chip smpl-4m. Highly sil.1052W.J13Dacite Vol.Chip smpl-4m. Highly sil.1051W.J14Dacite Vol.Chip smpl-2m. Qtz stockwork.1066W.J15Dacite Vol.Chip smpl-1.5m. Highly sil.1065W.J16Dacite Vol.Chip smpl-1.5m. Highly sil.1062W.		Da	acite	Vol.		Chann	e1-0.	25m P	y:3%			996W	/785N		40ppb
J7Dacite Vol.Channel-0.70m Sil.,alt. wallrx 994W/J8Dacite Vol.Channel-1.65m Intense Qtz1044WJ9Dacite Vol.Channel-0.70m Sil. zone, FeOx1043WJ10Dacite Vol.Chip smpl-3.5m. Highly sil.1047WJ11Dacite Vol.Chip smpl-3.5m. Highly sil.1047WJ12Dacite Vol.Chip smpl-4m. Highly sil.1051WJ13Dacite Vol.Chip smpl-2m. Qtz stockwork.1058WJ14Dacite Vol.Chip smpl-2m. Qtz stockwork.1066WJ15Dacite Vol.Chip smpl-1.5m. Highly sil.1065WJ16Dacite Vol.Chip smpl-1.5m. Highly sil.1062W		D	acite	Vol.		Chann	el-0.	60m H	lighly	/ sil	. FeOx	995W	/785N	5	20ppb
J8Dacite Vol.Channel-1.65mIntense Qtz1044WJ9Dacite Vol.Channel-0.70mSil.zone, FeOx1043WJ10Dacite Vol.Chip smpl-3.5m.Highly sil.1047WJ11Dacite Vol.Chip smpl-4m.Highly sil.1047WJ12Dacite Vol.Chip smpl-4m.Highly sil.1052WJ13Dacite Vol.Chip smpl-2m.Qtzstockwork.1058WJ14Dacite Vol.Chip smpl-2m.Qtzstockwork.1066WJ15Dacite Vol.Chip smpl-1.5m.Highly sil.1065WJ16Dacite Vol.Chip smpl-1.5m.Highly sil.1062W		D	acite	Vol.		Chann	el-0.	70m S	5il.,a	itt.	wallrx	994W	/785N	2	00ppb
J9Dacite Vol.Stockwork in alt. daciteJ9Dacite Vol.Channel-0.70m Sil. zone, FeOx 1043WJ10Dacite Vol.Chip smpl-3.5m. Highly sil.1047WJ11Dacite Vol.Chip smpl-4m. Highly sil.1052WJ12Dacite Vol.Chip smpl-4m. Highly sil.1051WJ13Dacite Vol.Chip smpl-2m. Qtz stockwork.1058WJ14Dacite Vol.Chip smpl-2m. Qtz stockwork.1066WJ15Dacite Vol.Chip smpl-1.5m. Highly sil.1065WJ16Dacite Vol.Chip smpl-1.5m. Highly sil.1062W		D	acite	Vol.		Chann	e - 1.	65m	Inter	nse G	tz	1044	W/734N		25ppb
J9Dacite Vol.Channel-0.70m Sil. zone, FeOx1043WJ10Dacite Vol.Chip smpl-3.5m. Highly sil.1047WJ11Dacite Vol.Chip smpl-3.5m. Highly sil.1047WJ12Dacite Vol.Channel-1.65m. Mod. sil. FeOx1052WJ13Dacite Vol.Chip smpl-4m. Highly sil.1051WJ14Dacite Vol.Chip smpl-2m. Qtz stockwork.1066WJ15Dacite Vol.Chip smpl-1.5m. Highly sil.1065WJ16Dacite Vol.Chip smpl-1.5m. Highly sil.1062W	•					sto	ckwor	k in	alt.	daci	te				
J10Dacite Vol.Chip smpl-3.5m. Highly sil.1047WJ11Dacite Vol.Channel-1.65m. Mod. sil. FeOx1052WJ12Dacite Vol.Chip smpl-4m. Highly sil.1051WJ13Dacite Vol.Chip smpl-2m. Qtz stockwork.1058WJ14Dacite Vol.Chip smpl-2m. Qtz stockwork.1066WJ15Dacite Vol.Chip smpl-1.5m. Highly sil.1065WJ16Dacite Vol.Chip smpl-1.5m. Highly sil.1062W		D	acite	Vol.		Chann	el-0.	70m 5	Sil.z	zone,	FeOx	1043	W/733N	: 3	20ppb
J11Dacite Vol.Channel-1.65m. Mod. sil. FeOx1052WJ12Dacite Vol.Chip smpl-4m. Highly sil.1051W.J13Dacite Vol.Chip smpl-2m. Qtz stockwork.1058W.J14Dacite Vol.Chip smpl-2m. Qtz stockwork.1066W.J15Dacite Vol.Chip smpl-1.5m. Highly sil.1065W.J16Dacite Vol.Chip smpl-1.5m. Highly sil.1062W.	0	D	acite	Vol.		Chip	smpl-	3.5m.	High	nly s	il.	1047	W/715N		15ppb
J12Dacite Vol.Chip smpl-4m. Highly sil.1051WJ13Dacite Vol.Chip smpl-2m. Qtz stockwork.1058W.J14Dacite Vol.Chip smpl-2m. Qtz stockwork.1066W.J15Dacite Vol.Chip smpl-1.5m. Highly sil.1065W.J16Dacite Vol.Chip smpl-1.5m. Highly sil.1062W.	1	D	acite	Vol.		Chann	el-1.	65m.	Mod.	sil.	FeOx	1052	W/713N		35ppb
J13Dacite Vol.Chip smpl-2m. Qtz stockwork.1058WJ14Dacite Vol.Chip smpl-2m. Qtz stockwork.1066W.J15Dacite Vol.Chip smpl-1.5m. Highly sil.1065W.Tr. PyChip smpl-1.5m. Highly sil.1062W.	2	Da	acite	Vol.		Chip	smpl-	4m. H	lighly	∕, sil	-	1051	W/713N		10ppb
J14 Dacite Vol. J15 Dacite Vol. L16 Dacite Vol. Chip smpl-2m. Qtz stockwork. Chip smpl-1.5m. Highly sil. Tr. Py L16 Dacite Vol. Chip smpl-1.4m. Otz stockwork. L1002W	3	Da	acite	Vol.		Chip	smpl-	2m. C)tzst	ockw	ork.	1058	W/691N		10ppb
J15 Dacite Vol. L16 Dacite Vol. Chip smpl=1.4m Otz stockwork. 1000W Tr. Py L16 Dacite Vol.	4	D	acite	Vol		Chin	⊧y. smnl–	2m () † 7 e †	0.0 4 10	ork	1066	MIGOON		Snnh
Tr. Py	5	D	acite	Vol		Chip	smpl-	1.5m	Hiah	IV S	il.	1065	W/672N		15ppb
116 Decite Vol Chinemplet Am Otz staskwark 1000W						Tr.	Ру			., .					
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and the second

extends south from the main showing along the dacite – basalt contact. Other isolated highs (>50 ppm) are scattered throughout the dacite volcanics with a few highs in the basaltic units.

Gold and silver values are generally low. One isolated value of 1200 ppb gold and 1.1 ppm silver was reported. Follow-up in the vicinity did not reveal any unusual rocks or alteration.

7. GEOPHYSICS

7.1 VLF-EM 16 Survey

VLF readings were taken at 25 metre intervals along cut lines. A Ronka EM-16 instrument was used and the Seattle Transmission station (18.6 kHz) was monitored. Both inphase field dip readings and quadrature readings were recorded (Fig. 10). Readings were taken facing south. Fraser filtered and contoured data is shown in Fig. 11.

Inphase values are highest in the northeast sector. A strong conductor (>60 Fraser Filter value) runs from Line 800w/1150N to Line 550W/1200N approximately parallel to the contact between the cherty tuff and the basalt flows. Several springs were noted on the road cut north of this conductor. The VLF anomaly may be due to a sharp change in resistivity between the two units at the contact with possible faulting/or shearing influences. This anomaly is not supported by any enhanced geochemical values. No other strong conductors were indicated. The main showing and the dacite - basalt contact do not appear to be VLF-EM conductors.

7.2 Magnetometer Survey

A ground magnetometer survey was conducted on the grid using a Barringer Geophysics GM 122 proton magnetometer. Contoured data are presented in Fig. 12. Readings were taken every 25 meters along cut lines. A magnetic storm occurred during the survey and magnetometer work was postponed until the storm abated. Readings were corrected using a straight line plot. A base station was established and readings were taken there twice a day to enable correlation with the previous days' work.

Corrected readings range from 55324 to 56577 gammas. The basaltic volcanics have generally higher values than the dacite volcanics reflecting the magnetic nature of the basalts. The map shows a N-S discontinuity parallel to the contact between basalt and dacite. The cherty tuff unit also shows high magnetometer values. No other trends were observed.

7.3 "GENIE" E.M. Survey

A small ground GENIE electromagnetic survey was conducted by Peter E. Walcott & Associates Limited between July 3rd and July 13th.

The survey was carried out on grid cut lines. Readings were taken at 25 metre intervals using three frequency pairs: 3037.5/112.5 Hz, 1012.5/112.5 Hz, and 337.5/112.5 Hz. A Scintrex SE 88 EM unit was utilized with a coil separation of 100 metres.

A more detailed survey was conducted over the main showing using coil separations of 25, 50, and 100 metres. No electromagnetic response was obtained over the mineralized zone.

Basic coverage over the remainder of the grid returned essentially negative results. Peter Walcott recommended that a small dipole induced polarization traverse be run across the known mineralization to determine its response, if any, to an I.P. survey. Time and budget constraints did not permit this (see APPENDIX 3).

8. DIAMOND DRILLING

Four holes were drilled from two set-ups using a "Winkie" Drill with AX size core. Total meterage was 188.37 metres. Due to the small core size, whole core samples were sent for assay rather than split sections.

DDH 1 and 2 were located on Line 1000 W/970 N approximately 30 metres south of the main showing. DDH 1 was drilled 45.72 metres on bearing 038° with a dip of 45° ;DDH 2 extended 60.05 metres at 038° with a 60° dip. DDH 1 intersected three small mineralized zones totalling 14 metres drilled length. Best assay results were: 1.34 m of 1.65% Cu, 3.52% Zn, 6.0 g/t Ag and 1.69 m of 1.57% Cu, 0.11% Zn, 4.5 g/t Ag. DDH 2 encountered a few zones of disseminated pyrite with minor chalcopyrite and sphalerite. Assay results were disappointing with no significant values returned.

DDH 3 and 4 were situated on Line 1050 W at 975 N. DDH 3 was drilled for 49.07 metres at 0.38° /45° dip. DDH 4 extended 33.53 metres on the same bearing with a dip of 60° . A few small zones of disseminated sulphides were encountered. DDH 4 had anomalous assay results: 0.21 m of 2.5 g/t Ag and 1.62 m of 1.67% Cu, 11.0 g/t Ag.

Gold assays in all four holes were very low, generally less than detection limits with a maximum value of 0.30 g/t. Lead was also low with a high of 0.12%.

Mineralization appears to be associated with silicified, volcanic tuffs. Surface evidence indicates that the mineralization is structurally controlled and is not syngenetic. A rough interpretation of Drill Section 1+00 W (Fig. 13) confirms this hypothesis.



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Drill H WORKING PLACE: BASED ON: SL/KH DATE OF WORK:84/85 DRAWN BY:	MAP REF. NO.:		FIG. NO.: 13A

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The results of the short drill programme indicate that the grade and continuity of the surface showing decreases at depth. Only small zones of disseminated sulphides with isolated moderate Cu, Zn and Ag assays were intersected.

9. CONCLUSIONS

The Jasper Group is underlain by the Bonanza Formation which is composed of a complex assemblage of basalts, dacites, tuffs and tuffbreccias.

Mineralization on the property consists of pyrite, chalcopyrite sphalerite and minor galena in structurally controlled blocks within a sequence of dacitic tuffs and flows. The "Main Showing" returned interesting values on surface but drill testing did not indicate depth continuity of grade.

Soil geochemical, VLF-EM 16, "GENIE" E.M. and magnetometer surveys were completed over the cut grid. No new areas of interest were indicated other than ill-defined broad soil geochemical anomalies within the dacites. These may be indicative of other shear-related Cu/Zn mineralization similar to the main showing occurrence.

10. RECOMMENDATIONS

Sufficient work was conducted to evaluate the "Main Showing" massive sulphide occurrence. Results of the drill programme indicate that further work in this area is not warranted.

As geological, geochemical and geophysical surveys did not reveal any other zones of potential economic significance, it is recommended that Falconbridge Limited not renew the option on JASPER 1. The JASPER 2,3,4 mineral claims are wholly owned by Falconbridge and are in good standing until 1988. These claims could be offered for sale or option to another party if future interest is expressed.

11. REFERENCES

Hudson, K., S. Lear, 1985: Falconbridge Limited Summary Report on the Jasper Claim Group.

Muller, J.E., K.E. Northcote, D. Carlisle, 1974; Geology and Mineral Deposits of Albert - Cape Scott Map Area, Vancouver Island, B.C. GSC Paper 74-8 pp 19-25.

Muller, J.E., 1979; Geology of Vancouver Island GSC Open File 463.

Muller, J.E., 1980; The Paleozoic Sicker Group of Vancouver Island, B.C., GSC Paper 79-30.

Muller, J.E., 1981; Insular and Pacific Belts; Field Guides to Geology and Mineral Deposits, Calgary 81 GAC, MAC, CGU, 1981, Edited by R.I. Thompson and D.G. Cook, pp 316-334. APPENDIX 1

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Petrographic Reports

FALCONBRIDGE LIMITED

6415 - 64th Street, Delta, B.C., Canada V4K 4E2

Tel. (604) 946-0441 Telex 04-357583

August 14, 1985 Expl. 575/85

Mr. R. Buchan c/o Lakefield Research Ltd. P. O. Box 430 Lakefield, Ontario

Dear Mr. Buchan:

Enclosed are four (4) samples for petrographic (thin section) analysis. The samples are from a suite of Bonanza Formation rocks located on Vancouver Island, B.C. These rocks are thought to represent a sub-marine volcanic sequence.

SMPL	<u>#</u>	LOCATION	DESCRIPTION
l		LN 650W/950N	Breccia. Alt. Volc? fragments + minor white chert frags in highly silicified matrix.
2		LN 640W/970N	Tuffaceous chert. Small, dark green frags? Visible.
3		LN 915W/1035N	Heterolithic Flow-Breccia? Rounded Hematite + volc. frags. Pervasive F.S. phenocrysts.

Some specific questions we would like addressed are:

Smpl 1:	This sample is bounded on both sides by tuffaceous chert (smpl 2).
	-What is the composition of the fragments? Are they altered volcanics?
	-Is silicification secondary or was matrix originally
	highly silicified?
	-Have fragments been rebrecciated?
	-Comment on origin. Pyroclastic Breccia?
<u>Smp1 2</u> :	Rock is well bedded? in places. -Is this a sedimentary or volcanic rock.

-Are fragments visible? What is composition? -Does this rock represent deposition in a marine environment?

Mr. R. Buchan

Smp1 3: In contact with rocks of smpl 2 possibly older than smpl 2.

-Is hematite a later alteration, or were fragments originally hematitic.

- -Any evidence of flow structures? Is rock pyroclastic? -Were F.S. phenocryst formed during initial depostion?
- <u>Smpl 4:</u> Found within a sequence of Dacitic tuffs and Flows. -Intrusive or extrusive origin?

Please quote project No. 301608-001101.

Thank you,

Sincerely,

FALCONBRIDGE LIMITED

Shelly Lear

Shelley Lear Geologist

SL/gd





August 26, 1985

Ms. Shelley Lear Falconbridge Limited 6415-64th Street R.R. No. 5 Delta, BC V4K 4E2

Dear Shelley:

The four rock samples submitted on August 19th have been examined in pol thin section Brief descriptions of each are given on the accompanying pages and the specific questions that you posed in your letter are answered below:

Sample No. 1

The fragments are of two types - volcanics consisting mainly of lath feldspar and chloritic patches which may also be of volcanic origin. Both types appear to be partly digested in the fine grained siliceous matrix. The silicification does not appear to be secondary but probably reflects the original composition of the rock. There is no evidence of rebrecciation of the inclusions, only partial digestion. The rock is most likely a pyroclastic breccia.

Sample No. 2

The rock appears to be of volcanic rather than of sedimentary origin. Euhedral crystals of orthoclase and elongate lath pseudomorphs of chlorite are the only coarse minerals in the otherwise very fine grained rock. The mottled texture of the rock suggests that original rock fragments have been wholly digested into the rock matrix. There is no evidence to indicate that the rock was deposited in a marine environment.

Sample No. 3

Hematite is not a later alteration as some of the fragments were originally hematitic. No flow textures were observed but the rock has a pyroclastic texture. The phenocrysts appear to have formed during initial deposition.

Sample 4

On the basis of texture and mineral assemblage the rock is classified as a basalt rather than a diabase.

... Continued ...

Ms. Shelley Lear

Sample 1 LN650W/950N PTS141

LN640W/970N

55-60 % Quartz 20-25 % Feldspar 15-20 % Chlorite ~1 Sericite Tr Carbonate Tr Sphene/Leucoxene

Sample 2

A very fine grained siliceous matrix contains crystals and rock fragments. The former consist of orthoclase and chlorite, the latter of volcanic rock fragments. Vague flow lines transect the fine grained matrix and the rock is classified as a tuff or pyroclastic breccia.

PTS142

50-55 % Quartz 35-40 % Feldspar 4-6 % Chlorite <1 % Chloritoid? Tr Sericite <1 % Altered Magnetite Coarse euhedral to subhedral phenocrysts of orthoclase and laths of chlorite occur in a very fine grained siliceous matrix. The matrix resembles that of the previous sample. A mottled texture may be due to the complete digestion of rock fragments within the fine grained matrix. Euhedral laths of a mineral resembling chloritoid are scattered throughout the section and are probably the result of low temperature metamorphism.

Sample 3 LN915W/1035N
55-60 % Feldspar 4-5 % Quartz 15-18 % Chlorite 2-3 % Carbonate ∼1 % Epidote 1-2 % Titaniferous Magnetite
8-10 % Hematite
Sample 4 LN1210W/775N
55-60 % Feldspar ± An ₅₀ Andesine/ Labradorite
8-10 % Clinopyroxene
1-2 % Epidote/saussurit

PTS143

The rock consists of a variety of volcanic rock fragments ranging from vesicular lava to porphyritic volcanics with a fine grained hematitic matrix. Coarse grained phenocrysts of albite and orthoclase are abundant and some of them are partly replaced by carbonate. The breccia consists almost entirely of fragments with very little matrix material and no evidence of flow structures are evident.

PTS144

55-60 % Feldspar ± An₅₀ Andesine/ Labradorite 8-10 % Clinopyroxene 1-2 % Epidote/saussurite 15-20 % Chlorite 1-2 % Carbonate ←1 % Quartz 8-10 % Magnetite/ Hematite Coarse grained sub to euhedral phenocrysts of clinopyroxene and plagioclase are set in a fine grained matrix of clinopyroxene, feldspar and oxides. Chlorite forms pseudomorphous replacements of a lath-shaped mineral and is also present in the groundmass. The rock texture is porphyritic rather than diabasic and it is classified as a basalt rather than an intrusive diabase.

> Yours sincerely, LAKEFIELD RESEARCH

Bob Buchan

B. Buchan, P. Eng. Head, Mineralogy

BB:slk

FALCONBRIDGE LIMITED

6415 - 64th Street, Delta, B.C., Canada V4K 4E2

Tel. (604) 946-0441 Telex 04-357583

Expl. 705/85 November 5, 1985

Vancouver Petrographics Limited P.O. Box 39 8887 Nash Street Fort Langley, B.C. VOX 1JO

Dear Mr. Vinnell:

Enclosed please find one (1) diamond drill core sample, size AX, which requires thin section preparation and petrographic description. The core is from the Vancouver Island Bonanza Group. A few questions we would like addressed are:

- 1) Are the epidotized fragments all altered feldspars?
- 2) Are there any lithic fragments?
- 3) Were feldspar phenocrysts formed during original deposition?
- 4) Comment on origin. (Pyroclastic?)

Please return thin section and cut sections along with the petrographic report.

Quote project No. 301-608-001-101. Thank you.

Yours truly, FALCONBRIDGE LIMITED

JL:mm Encl. J. Lehtinen Geologist



Vancouver Petrographics Ltd.

JAMES VINNELL, Manager JOHN G. PAYNE, Ph. D. Geologist

P.O. BOX 39 8887 NASH STREET FORT LANGLEY, B.C.

PHONE (604) 888-1323

Invoice 5529

VOX 1JO

Report for: J. Lehtinen, Falconbridge Limited, 6415 - 64th Street, Delta, B.C., V4K 4E2.

November 15, 1985

Sample: One diamond drill core sample.

Project No. 310-608-001-101.

ANDESITE (TUFF), ALTERED WITH EPIDOTE.

The sample is a fine to medium grained inequigranular volcanic rock of andesitic composition. It consists largely of plagioclase phenocrysts in a very fine plagioclase matrix. The phenocrysts are altering to epidote; in places large patches have developed which overlap onto the groundmass. The epidote is associated with chlorite and quartz, occuring mainly in the groundmass.

The plagioclase phenocrysts are quite variable in size, sometimes occuring in aggregates and are irregularly distributed in the groundmass. They may contain embayments and are sometimes broken into angular pieces. All this suggests that the phenocrysts are not in equilibrium with the groundmass and that some of them, at least, have been caught up in the groundmass during eruption; ie. there is a strong pyroclastic component. There are no recognisable lithic fragments (apart from plagioclase aggregates). Minerals are:

plagioclase phenocrysts	20%
plagioclase groundmass	25
epidote	25
chlorite groundmass	20
chlorite	5
sericite	3
quartz	1
Fe-Ti oxide	1
sphene	trace

(continued)

ANDESITE (TUFF) (cont.)

Plagioclase phenocrysts mostly range in size from 1 to 5mm and are subhedral to rounded with a few rather thin elongated ones. Aggregates of a few more irregularly shaped ones sometimes occur. Embayments occur in some. There are many phenocrysts which are less than 1mm in size and most of these are angular in shape, being fragmented pieces of larger grains. They are being incorporated into the groundmass. A widely spaced, fine network of extremely fine sericite occurs in most of them, sometimes grading into small patches.

Almost all the phenocrysts have been affected by epidote alteration. It forms rounded to prismatic grains 0.1 to 0.5mm in size occuring as scattered grains or in clusters and aggregates within them. The epidote patches vary in size from 0.5mm to complete replacement of the phenocryst, sometimes overlapping onto the groundmass. In the larger patches the epidote is sometimes intergrown with fine quartz. At the edges of the epidote patches, within the groundmass, the well formed grains grade into diffuse zones of extremely fine cloudy epidote. Small shapeless patches of this material occur throughout. Fine chlorite flakes sometimes occur in a thin partial zone at the edge of some of the epidote patches. In those phenocrysts which are less altered there is sometimes small sphene grains scattered within them, along with epidote. These are up to 0.2mm in size.

Apart from the chlorite associated with epidote and in the groundmass there are several aggregates and clusters which appear to be psuedomorphs after subidiomorphic hornblende (pyroxene ?). These are 0.5 to 1.0mm in size.

The groundmass consists mainly of a fine intimate intergrowth of plagioclase and chlorite. The plagioclase forms very thin laths up to 0.1mm in length along with a few grains up to 0.5mm. These may be microphenocrysts in equilibrium with the magma. There is a crude flow texture in places. The chlorite is extremely fine grained occuring between the laths and is sometimes intimately mixed with sericite in diffuse patches. Chloritisation is patchy. In places there are small shapeless patches of fine chlorite which have a thin rim of fine quartz around them. The laths are incipiently altered with chlorite and sericite. Extremely fine Fe-Ti oxides are disseminated throughout the groundmass, often being concentrated in small aggregates and whisps.

A. K. Kittlijohn

A. L. Littlejohn, M.Sc.

APPENDIX 2

Rock Chip Sample Assays

ACME ANALYTICAL LABORATORIES LTD.

852 E.HASTINGS ST.VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

ASSAY CERTIFICATE

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HN03-H20 AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.JR.CE.SM.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: ROCK CHIPS AG& ANALYSIS BY AA BACKGROUND CORRECTED. AU*+ BY FIRE ASSAY

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ACME ANALYTICAL LABORATORIES LTD. 852 E.HASTINGS ST.VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HN03-H20 AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.MB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: ROCK CHIPS AU++ ANALYSIS BY FA+AA FROM 20 GRAM SAMPLE

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ACME ANALYTICAL LABORATORIES LTD.

852 E.HASTINGS ST.VANCOUVER B.C. V6A 1R6 PHONE 253-3158

B DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PFM. - SAMPLE TYPE: ROCK CHIPS AU** ANALYSIS BY FA+AA FROM 20 GRAM SAMPLE.

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CDN RESOURCE LABORATORIES LTD. *8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL (604) 946-4448

GEOCHEMICAL REPORT

TO: Falconbridge Ltd. 6415 - 64th Street Delta, B.C. V4K 4E2 FILE NO.: 85-195 DATE: October 8, 1985

ATTENTION: J. Gammon

cc. T. Chandler

PROJECT: 301 608 101

Sample Description	Au ppb	Ag ppm	
J101 3-16605/1092	5	.6	
515 672/1065	15	.4	
514 672/1066	5	.3	
J13 691/1058	10	.6	
512713/1051	10	.4	
J // 713/1052	35	.2	
JIO 715/1047	15	.3	
J9 733/1043	20	.4	
J8 734/1044	25	.2	
J7 785/994	200	.6	
56 785/995	520	and a second	
J5 785/996	40	.4	
J4 795/1007	280	.9	
53 795/1008	>10,000	8.3	
52 795/1009	35	.5	
797/1009	2,500	1.4	
JL 031085-1	5	.1	
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Results of file Au: fire assay Ag: aqua regia	85-195 are y, AA. a digestion,	geochemica AA.	al determinations:
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ASSAY REPORT

то:	Falconbridge 6415 - 64th	Ltd. Street			FIL	E NO.:	85-1	95A		
	Delta, B.C. V4K 4E2					DATE:	Octo	ber	8, 1	985
TTENTION:	J. Gammon	сс. Т.	Chandler	•	PRO	JECT:	301	608	101	
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Duncan Sanders Certified Assayer of British Columbia

APPENDIX 3

"GENIE" EM Survey Report

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A REPORT

ON

AN ELECTROMAGNETIC SURVEY

Nitinat Lake Area, British Columbia

48°51'N., 124°35'W. N.T.S. 92-C-15E

Survey Dates: July 3rd - 13th, 1985

FOR

FALCONBRIDGE LIMITED

Vancouver, B.C.

BY

PETER E. WALCOTT AND ASSOCIATES LIMITED

Vancouver, B.C.

AUGUST 1985

GEOPHYSICAL SERVICES

TABLE OF CONTENTS

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INTRODUCTION				1
LOCATION AND ACCESS				2
PREVIOUS WORK				3
PURPOSE				4
GEOLOGY				5
SURVEY SPECIFICATIONS				6
DISCUSSION OF RESULTS				7
SUMMARY, CONCLUSIONS AN	ND RECOMMEND	ATIONS		8
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APPENDIX

COST OF SURVEY

PERSONNEL EMPLOYED ON SURVEY

ACCOMPANYING MAPS - Scale 1:2500

ELECTROMAGNETIC PROFILES a - 100 m a - 25, 50, 100 m (detail) MAP POCKET

W-368-1 W-368-2

Page

INTRODUCTION

Between July 3rd and 13th, 1985, Peter E. Walcott & Associates Limited carried out a small Genie electromagnetic survey programme over a property located in the Nitinat Lake area, Vancouver Island, British Columbia for Falconbridge Limited.

- 1 -

The survey was carried out over N38° E lines established by the personnel of Falconbridge Limited.

Readings at three frequency pairs, 3037.5/112.5, 1012.5/112.5 and 337.5/112.5, were taken at 25 metre intervals along the lines using a Scintrex SE 88 electromagnetic unit with a coil separation of 100 metres. Initially 25 and 50 metre separation work was carried out on lines 9+50 and 10+100 W respectively in the vicinity of the showing.

The data are presented in profile form on plan maps on the line grid that accompany this report.

The progress of the survey was hampered by the steepness of the terrain and the malfunction of the transmitter.

LOCATION AND ACCESS

The grid - the Jasper grid - is located in the Victoria Mining Division of British Columbia. It is situated some 7 kilometres north east of Nitinat Lake.

- 2 -

Access was obtained from Youbou by four wheel drive vehicle along the logging roads that cross the area.

- 3 -

PREVIOUS WORK

Previous work on the property, to the best of the writer's knowledge, consisted of geological prospecting and geochemical soil sampling by the staff of Falconbridge Limited. This is documented in reports prepared and/or held by the same.

PURPOSE

The purpose of the survey was to (1) determine the electromagnetic response of the narrow showing approximately located around 10+00 N on or L 10+00W and thence to outline its strike length, and (2) detect if possible similar occurrences of the same on the grid.

- 4 -

GEOLOGY

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The reader is referred to forementioned reports by the staff of Falconbridge Limited.

- 5 -

- 6 -

SURVEY SPECIFICATIONS

The basic principle of any electromagnetic survey is that when conductors are subjected to primary alternating fields secondary magnetic fields are induced in them. Measurements of these secondary fields give indications as to the size, shape and conductivity of conductors. In the absence of conductors no secondary fields are obtained.

The electromagnetic survey was carried out using a SE 88 Genie-electromagnetic system manufactured by Scintrex Limited of Metropolitan Toronto, Ontario. The operation of this system is based on the simultaneous transmission of two preselected, well-separated frequencies from the transmitter, and the simultaneous reception and amplitude comparison of the resultant signals by that single receiver. There is no cable or radio link between the coils, and since there are effectively no coil geometry errors, the instrument is very effective in rugged topography and heavily forested areas. In the absence of atmospheric noise useful amplitude ratio changes may be made up to a transmitter-receiver separation of 200 metres.

On this survey measurements were made at three frequency pairs at a 100 metre coil separation. In addition, some initial surveying was carried out on Lines 9+50 and 10+00 W. respectively with 25 and 50 metre coil separation.

In all some 13 kilometres of electromagnetic surveying were carried out.

DISCUSSION OF RESULTS

As can be readily discernible from the respective profiles - Map W-368-2 - on the 25, 50 and 100 metre coil separation work in the area of the mineralized showing no electromagnetic response was found to be associated with the mineralization.

- 7 -

Basic coverage was then provided with a 100 metre coil separation over the rest of the survey grid, and with the exception of a narrow conductor on or L-10+50 W. gave essentially negative results.

The response of L-10+50 W. is characteristic of that of a narrow conductor dipping some 60° to the north and exhibiting moderate to good conductivity burried at a depth of some 25 to 30 metres. However, as the response profile varies somewhat with strike direction and profile offset, additional coverage on lines at 10+25 and 10+75 W respectively would be necessary to properly determine its characteristics, not considered economic here in view of its limited strike length.

- 8 -

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

Between July 3rd and 13th, 1985, Peter E. Walcott & Associates Limited undertook a small Genie electromagnetic survey over a grid in the Nitinat Lake area, Vancouver Island, British Columbia for Falconbridge Limited.

The survey produced essentially negative results with the exception of a narrow conductor of limited strike length as discussed in the previous section.

Although the writer would have like to have run a small dipole induced polarization traverse across the known mineralization to determine its characteristics before investigation by drilling, such was not allowed by budgetary considerations. He, therefore, recommends that no additional work be carried out on the basis of the above electromagnetic survey.

> Respectfully submitted, Peter E₄ Walcott & Associates Limited

Peter E. Walcott, P. Eng. Geophysicist

Vancouver, B.C. August, 1985

GEOPHYSICAL SERVICES

APPENDIX

COST OF SURVEY

7

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Peter E. Walcott & Associates Limited undertook the survey on a daily basis. Reporting costs were extra so that the total cost of services provided was \$6,994.12.

- i -

- ii -

PERSONNEL EMPLOYED ON SURVEY

NAME	OCCUPATION	ADDRESS	DATES
Peter E. Walcott	Geophysicist	Peter E. Walcott & Assoc. 605 Rutland Court	August 8, 1985
		Coquitlam, B.C. V3J 3T8	
R. Summerfield	Geophysical		July 3-13, 1985
	Operator		
D. Jensen	Geophysical Operator		July 3-13, 1985
G. MacMillan	Draughting	11	August 2-4, 1985
S. Vese	Typing	n an	August 16, 1985

APPENDIX 4

Diamond Drill Logs

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DRILL HOLE RECORD			Hor.	Comp	1	Vert Co	mp		Sheet_	3	of	3			
	Elevation		Beo	ring.					00000	by					
FALCONBRIDGE LIMITED	Coordinates	. N	Ben			Complete	d		Samoleo	1 54					· · · · ·
		ε	Cor	e size	1	Recover	¥	%	Driller						
DESCRIPTION	Intersectio	n s	AMPLES		o/top	ASSAYS		-							
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13.50 30.60 33 23.77-25.30 Frank and Chale	goyate	106001	<u>, , , , , , , , , , , , , , , , , , , </u>				1 1								
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chalcopyrite estimated 20.5				1.7/		(kaai	0.07							
26.51-28.04 - Fore of epidetiza	d toldsper	1028/ 22	26 3.04	40.76	<u></u>	10.00	F	0.05							
giving parphyritic oppearance	e			0.44		e 0 / 7	Lau	0.03		1					
30.02 · 30.33 / yritized Zons	e - miner	10282 3	0.02 30.98	0.76		5 0 00	1000	0.07							
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30.18 - Quertz-pyrite Ver		+					$f \rightarrow f$		_					L	
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30.57-30.69 Fortielly Scherte	ed_zone.	╶╂╼╼┼╸		┼──┼─	-+		++		1						
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		107842	19 97.3	11.62	0.511	01.67	601	0.04							
30.69 52.31 25 Mineralized tone - hear		102012	21 22.92	0.61	ka ask	150.03	50.01	0.02					,		
mineralization - lyrite, cholo	opyrite	102030	2.3/3476			1	1								
Silicified and pyritized	nessive	+		+			+					-			
Sections Pominantly pyrit	e bu Jonie		<u> </u>	++-		1	1								
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5 1/2 T 11						1	1								
32.3/ 33.5 57 Dec/Le(.) / 17			-				+ 1								
Light green grey to medicin	- greengag	++													
Clasts and phenocrysts up to		1-1-													
Set in medium to derte		1-1-				-									
All Matrix. Jonne epidorie		1									-				
teldspars.						1					<u>↓</u>			<u> </u>	
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LINE 9+50-W



Internet and a second s 100 METRE SEPARATION

50 METRE SEPARATION

25 METRE SEPARATION

FALCONBRIDGE LIMITED

JASPER PROPERTY ; VICTORIA M.D. ; B.C.

S.E. 88 GENIE SYSTEM ELECTROMAGNETIC PROFILES

SCALE 1: 2,500

MAP No. W-368-2 TO ACCOMPANY A REPORT BY PETER E. WALCOTT, P. Eng.

PETER E. WALCOTT & ASSOC. LTD. JULY - 1985






LEGEND

	Aquagene Tuff
120	Mafic Dyke
3	Pyroclastic Flow Breccia
4	Cherty Tuff
- 5-	Hematitic Lahar
6	Lapilli Tuff
7	Basaltic Breccia
8	Basalt Flows
6	Dacite Tuffs and Flows
X	Quartz stockwork
	road
6661 O	Rock sample location
1	bedding
2	shear
15	fracture
	coologie contact

---- geologic contact \sim \sim fault → spring w swamp K creek \bigcirc



GEOLOGY

ORKING PLACE:		
ASED ON: SL		
ATE OF WORK: 07/85	MAP REF. ND.:	FIG. NO.
RAWN BY: SL		4
ATE:	N.T.S. ND.: 92C/15E	

_ 1400 N

_ 1300

_ 1200

_ 1100

_ 1000

900

__ 800

_ 700

_ 600 N



-

	0	0	0	0	0	M C		
	8	-80	- 75	- 650	_550	-450		
_20	-48	T ⁴⁰	- ¹⁴	TNS			-1400N	
_32	_20	N.S.		N.S.	22 22	_ 20		
_28	6	20		42	32	16	_1350	
_32	22	_14	N.S.	28	_40	_ 20		
N.S.	40		22	_14	_44	22	_1300	
N.S.	N. S.	N.S.	-16	+ в	_28	18		
-	18	58	24	_42	18	34	_1250	
20	_16	_24	28	_22	_42	_28		
42	64	-16	56	N.S.	58	_4	_1200	LEGE
.34	_26	32	_N.S.	N.S.	22	_8		
.10	34	N.S.	32	4	14	_20	_1150	<i>></i> 1
N.S.	+	4	_10	4	8	+-8		
28	-10	_ 20	_10	+-34	N.S.	-8	_1100	>2
8	-14	38	_ 26	16	NS	_12		>4
.56	26	8	+- 30	N.S.	N.S.	-8	_1050	
18	14	16	N.S.	18	10	_4		
102	12	N.S	N.S.	16	10	12 → ¹²⁸	BL _1000	
13	63	N.S.	_12	-42	_16	NS.		
12	- NS	-10	_12	-6	-6	-NS	_950	
20	NS	_60	36	26	-10	-10		
105	N.S	N.S.	_14	N.S.	_20	-20	_ 900	
NS.	123	N.S.	_16	NS.	-10	- N.S.		-4
135	-140	-14	_42	- 34	24	-10	_ 850	
N.S.	- 180	40	-16	-12	NS.	30		
50	-61-	-87	_20	26	NS.	_26	_800	0 50
33	85	34	- 18	_22	_20	-12		
v.s.	- 190	N.S.	-16	-18	-60	42	_750	Scal
5	N.S.	N.S.	- 34	-6	_14	12		FALCONBRIDGE
21	N.S.	37	54	36	-6	-32	_700	JASPER
20	- 70	N. S.	32	-12	_20	N.S		
5	-40	-46	- 86	-16	-16	N.S.	_ 650	TYPE OF HUMI
0	33	-72	74	-16	22	- 14		Soil Geo
I.S.	LN.S.	18	160	16	38	LNS	_600N	BASED ON:
								DATE OF WORK: 07-8
								DATE:



				19475									and the second second second second second second second second second second second second second second second
	1500W	1300	1200	1050	950	- 850	-800	_750			450W		
1400N-	N.S 50 64	- N.S 39 - N.S N.S.		$ \begin{array}{cccc} & -65 \\ & -64 \\ & -8.5 \end{array} $			$\begin{array}{ccc} 78 & - 86 \\ 32 & - N.S. \\ \end{array}$		NS. N.S.	48 42	++70 90	_1400N	
- 1300 -	- 62 - N.S. - 125 - 112	$-\frac{66}{-N.S}$ $-\frac{N.S}{-74}$ $-\frac{N.S}{-N.S}$	N.5. $N.5.$ $-62-96$ -56	-58 $-78-44$ $+75-63$ -56	4958 4354	_54 _4 _68	52 <u>64</u> 72 <u>58</u> 80 <u>66</u>		_ 96 _ 50 _44	76 72 62	-72 -60 -66	1350 1300	
	N.S. 120 300 100 60 64 56				_48N.S _47N.S.	N.S	N.SN.S. 5076	36 76	+-36 68	52 40	54 68	_1250	
1200 —	93 -72 -72 -72 -72 -72 -72 -72 -72 -72 -72		320 N.S. 71 N.S.	-135 -135 -50 -N.S81	- 56 - 130 4 - 22 - 10	$\begin{array}{c} +42 \\ -76 \\ -86 \\ +5 \end{array}$	46 - 46 00 - 34 54 - 58	80 86 N.S.	60 N.S. N.S.	50 76 94	56 	_1200	
-	+84 $+84$ -67 -67 -73	-57 -N.S -93 -80 -67 -74	N.S. 200 310 N.S. 310 N.S. 310	N.S. 68	46 3932 N.S40	-34 -6 -N.S 	52	_48 _54 _20	48 38 54			_ 1150	
an providente	-550 0 -120 -470 -98		-N.S310 -72	N.S125	NS 32 250 250 26		4 52		34 N.S.	N.S. N.S.	54 42	_ 1050	
BL .1000 —	NS 200 120	160 125	48 105	115 115	N.S. 60	-48 -4 78 2	4 _48 8 _NS	N.S	-52 78	-54 -30	-38 $-36 \rightarrow 128^{\circ} BL$	1000	
_	+ 140 N.S. N.S.	- 180 - 140 - 83 - 180 - 165 - 54	-N.S320 -38 _95_ NS _74		97 _ 42 N.S NS	_22 _4 _22 _N	9N.S. I.S19	30 42	-70	38 20	N.S.	_950	
900 —	N.S. 155	200 520 120 85	- 360 -78 - 43		-N.S84 -85 -N.S.	100 NS	1.S56 1.SN.S. 9N.S	28 52	N.S100 N.S.	44 46 27	- 40 - 52 - N.S.	_ 900	
- 800 -	-190 NS 43	800 -120 -NS: -215 -230 - 290	1240 70 10 10 70 74		-77 ¹⁰⁹ -120 -67 -210	420 N.S. 22	-115	-50 -44	- 62 	50 N.S.	_40 _42	_ 850	
_	-68 -59	420 _290 200 _48~	+14 +165 +54 +98 -52	_57 _43 _N.S _N.S.	N.S. H2 26 -70	47 5 N.S. 94	2 = 63 4	-44 76 86	-120 -122 -92	46 44	60 34 70	800 750	0
700 —	53 29 41	- 53 - 67 - N.S - 44	6382 N.S69 N.SNS		N.S.	-16 _N	I.S	68 94	30 66		54 52	_ 700	FALC MODEATI
_	50 N.S.	6737 64N.S.	5480 47N.S.	40N.S.			7 _43 50 _92		40 36	52 36	– N.S. – N.S. – 28	_ 650	TYPE OF MARI
600 —	Ln.s.	⊥n.s. ⊥n.s.	47N.S.	LN:5 00 + 740	LN.S. 18	⊥n.s. ⊥n.	s ⊥31	⊥92	38	150	Ln.s.	_ 600N	WORKING PL BASED ON: DATE OF WI
													DRAWN BY: DATE:



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	1500 h	0041	1300	1250	1200	0511	1100	1050	1000	350	100	850	800	750	650	0	50		450 V			
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1400 N	T 55694	T 55622	T 5548	55668	T 55817	₽ 56016	T 55889	T	T 55681	J 55854	Traco	55802	T 55 907	T 55941	1-	55719) -	55071	T 55649		_ 1400 N	1
	- 55694	- 55640	- 5603	3 - 55 588	- 55726	- 55881	3 5663	- 55830		- 55762	- 55874	55482	55885	- 55953		- 55795	-5800-	- 55860	- 55736			1
1350	- 55667	- 55688	- 5569	3 - 55675	- 55949	- 55909	- 55866	- 55953	55829	- 55678	- 55 789	- 55705	- 55753	- 55 836		- 55662		- 55677	55829		_1350	See. Sec.
	- 55661	- 55604	- 5568	C 55804	- 55708	- 55890	- 55 768	- 55966	- 55997	000-56110	- 55 830	- 55766	- 55 782	- 55998	5800	- 55720	-	- 55596	- 55906			
1300	- 55 739	-55861	- 5565	59 - 55 702	- 55834	- 65943	65798	- 55934	- 55901	- 55 785	- 55942	- 55750 (- 55 493	- 55730	-	- 55625	5900	- 55870	- 55823		_1300	
	- 55669	- 55718	- 5556	2) - 55662	- 95873	- 55691	- 55714	- 55614	56021	- 55820	- 55867	- 55859	56 003	55813	1	- 55871	-	- 55896	- 55991			
1250	- 55610	- 55677	5580	2 _ 55745	- 55 756	- 55852	- 55953	-55950	\$ 56243	- 55 926	- 55892	- 55862	55801	- 55520	-6000	56515	-	- 56154	- 56292		_1250	Same and States
	- 55741	- 55 694	- 55 75	4 - 55 772	- 55866	- 55793	0 = 55763	=55761	- 56577	56003	- 55 894	= 56187	- 56083_	- \$5973		56234	-6200 -	- 56111	- 56409			A CONTRACTOR
1200	- 55643	- 55 708	- 5571	7 - 55776	55806	- 55722	- 55926	- 55979	55835	- 56204	- 56279	- 56170	- 56131	- 56120	-	- 56117		- 56050	- 56 197		_1200	
	E22800	- 55773	6.5580	03 - 55767	- 55771	- 55 731	- 55803	- 55974	- 55978	- 55084	- 56398	- 56217	56462	56201		- 56063		56495	- 56042			
1150	- 55 798	- 55 749	- 55 72	8 - 55767	- 55783	- 55 778	- 55 795	55931	- 55842	- 53851	56236	- 56239	- 56298	- 56253	0200	56213		- 56299	- 56130		_1150	
	- 55651	- 55746	- 5578	3 - 55769	- 55760	- 55795	- 55784	- 55819	- 55942	55993	+ 56074	- 56317	- 56005	+ 56302		56206		= 56185	- 56168			O
1100	- 55 746	- 55 680	5580	2 - 55796	955805	- 55 794	-55 810	- 55695	- 56198	- 561481	-55940	56229	- 56167	- 56028		56218	-	- 56138	- 56214		_1100	
	- 55 752	5800 - 55817	- 55780	55 800	- 55 749	- 55 751	- 55 778	- 55900	- 56/08	- 56057	- 55839	- 56051	£56228	- 56145).	56213		- 56075	- 56199			1917 2018
1050	- 55704	55 828	- 5576	8 - 55747	- 55 768	- 55 757	55897	- 55757	= 55891	- 56162	\$-56106	55 974	- 56109 (- 56238		56337	-	- 56136	- 56173		_1050	
at at le	- 55641	- 55674	-55011	- 55735	- 55777	- 55763	- 55 764	- 55883	- 55871	- 56173	-56251	- 55930	- 56052	- 56114	6200	- 56163	Caller	56535	- 56179			Cor
1000	55621	55728	55828	55799	55739	55776	55.777	55841	55829	55867	56260	55 971	56126	56047		56123	·6100	56377	56089	→ 128°	BL _1000	0
	- 55617		56 0 89	- 55782	- 55770	- 55 760	- 55814	- 55819	55809	- 55641	+ 56228	- 56160	- 56111	- 56103		56067		- 56088	€ 56204			0
950	- 553 82	-	- 55 820	-55 750	- 55766	- 55 754	- 55827	- 55814	- 55811	- 55 748	56210	- 56264	-56169	- 56047		- 56042		- 5604B	- 56046		_950	. 0
	- 55710		- 55745	5) - 35837	- 55760	- 55767	- 55800	-55820	- 55859	- 55745	55956	56226	- 56082	- 56036		- 56024		- 56035	55973			
900	- 55607	-	- 55752	2 55851	- 55733	- 55747/	-55856	- 55808	- 55841	- 55757	- 55827	= 55960	- 55979	55890	6000	- 55999-	Jacob Contraction	- 55985	- 55994		_900	
	- 55720		-55790	6 - 55861)	- 55 733	- 55744	- 55904	- 55836	- 55815	- 55 324	55815	- 55 812	- 56100	- 56031	> -	55970	- Aller	- 55962	- 55948		1	
850	- 55 6 97	+	- 55879	-55774	- 55745	- 55893	- 55856	- 55851	55809	- 55713	- 55 739	- 55 869	- 55943	- 55965		- 55869		- 55878	- 55 856		850	Reading
	- 55692		- 55 724	- 55 720	- 55698	- 55 960	- 55 918	- 55828	- 55787	- 55680	- 55735	55800	- 55817	- 56116		- 55840	-	-55797-5800-	- 55759			
800	55641	+	-55775	- 55722	- 55743	- 55906	- 55920	- 55983	- 55043	- 55 7 32	- 55 709	- 55736	55797	- 56024	-	- 55966		- 55757	- 55765		800	0 50
	- 55693		- 55 758	8 - 55709	- 55675	6000	- 55916	- 55942	- 55 960	- 55 762	- 55701	- 55 728	- 55745	- 55942	and the second	55992	M. Caller	- 55926 6000	- 56037			Scal
750	- 55792	+	- 55 722	- 55630	- 55905	-55867	- 55861	56029	- 55879	- 55768	- 55 741	- 55859	- 55 750	- 55982	- 1. A. A	55966		- 56159 (200	- 56147		750	FALCONBRIDGE
	- 55710		5400-55835	- 55 763	- 55801	- 55940	- 55883	- 55885	- 55053	- 55 787	- 55 753	- 55715	- 55763	- 55759		- 55 881	(.	256452	- 56036			JASPER C
700	-55783	+	-55520	56014	- 55915	- 55898	- 55909	- 55958	- 55847	-55813	-55787	- 55696	- 55678	- 55785	G	- 56094	-	- 56/48	- 55608		_700	LDGATION
	- 55862		- 55625	- 56121	- 55898	- 55993	- 55902	- 55833	- 55862	- 55852 (- 56157	- 55910	- 55692	- 55717	Sing man	- 55895	5	- 56050	- 56041	•		TYPE OF HAPS
650	-55876	+	56038	- 55875	- 55673)	- 55946	- 55846	- 55849	55833	- 55894	- 55 913	- 55967	- 55 786	- 55 727		- 55923		- 56347	- 55897		_650	MAGNETO
	- 55712	St.	8 55997	- 55956-	- 56144	- 55974	- 55873	- 55851	55844	- 55892	- 55956	- 55720	- 55833	- 55 747	-900	- 55946	-	- 55891	- 56068			WORKING PLACE: BASED ON: OP
600N	55595	+ /	- 55992	000 L 56030	- 56027	-55860	55893	55844	55866	55869.	-55866	155830	55792	55715	1	- 55856	and a	- 56021	56444		_600N	DATE OF WORK: 07/85
																					100	DATE:



1400 1200 1300 1250 - 1150 1050 1000 1100 950 906 1400 N_ ____N.S. TNS + N.S. N.S. 15 _ N.S. N.S. N.S. N.S. .19 .12 1350 __ 31 16 13 N.S. I_N.S _NS. N.S. N.S. N.S. / - 95 # 33 N.S. _32 _ 34 1300 __ 17 24 N.S. 10 -16 _ 7 NS. N.S._ LNS. N.S. _14 NS. N.S. 15 1250 __ _12 ______40 N.S. 10 N.S. .15 N.S. 13 43 N.S. NS _6 -125) -N.S. 1200 _ _15 _____30 ____25 _30 _24 _27 N.S. N.S. -13 10 14 1150 _ _25 L N.S N.S. N.S. NS. 9 15 . 29 58 50. 82) N.S. N.S. N.S. _____ 20 1100 _ _37 __NS. 179) NS. 24 N.S. 13 _13 _____28 N.S. _N.S. _____28 1050 _ 122 10 _15 __35 -21 _____39 120 4 N.S. 15 40 N.S. - 25,10 ___NS _88 LNSI -6 1000_ N.S. 20 NSI 50 15 __22 20 85 LNS. 11 16 950 _ N.S. 22 XNS. -121 LN.S. 10 INS 15 N.S. -12 260 SNS. 20 -14 900 _ N.S. _165 53 __21 -NS. 23-_ 39 152 NS. ___19 _15 _19 _ _ N.S. -NS. 850 _ _36 +12 10) 15 _45 -_164 1_NS NS 800 _ ____25 ____60 P 15 020 _____39 N.S. 19 750 _ 18 16 ED _13 15 -12 -NS. _ 27 NS. _NS _ 20 19 NS. _12 _29 __NS -12 700 _ _15 _15 _14 LNS. N.S. 20 28 -30 10 N.S. NS. N.S. 13 35 30 LNS! 650 _ 10 N.S. 16 _13 14 LNS. ____28 ____33 -12 NS _15 N.S. _12 N.S. NS. LNS. _24 20 600 N N.S. N.S. LNS. NS N.S. N.S. 10





		0041-		_1250	_1200	_1150	0011-	1050	- (000	-950	900	850
1400N-	T+2H \	T+28 (T + 34/	\	1+38/	\ T+42		T+351	\	T+401	+3p	\ T † ²⁴ 1
1350	-+37) -+39 (-+42	++4	+56 /		++50}	++54	++34	+54	+	-++195 ++58	+ ft2 1 1+ 18
1300_	-++11) -+(39	-+48 -+50	++57 ++62 /	- + equ - + equ	+++7 +++54	+ 55	+40 / -+24)	55	401 1	-+5		+++++++++++++++++++++++++++++++++++++++
1250	-+38) / -+(36	-+467 -+40 -+40	-+5\$3 +\$\$7 	-(+64 499 	- ++60	-+93	-++++	- 578	-455 -455		NR	-+\$4
1200_	-+3+ +32	-+44 -+44	++58 ++\$6	-++=== -+====	-++#3 -++\$98	+57	- #63 - #58	- 459		+449 +45	+ = +	
1/50	-+==	-+	-+55 ++19	1	-+59	-+#8	-+60	-++++	- 442	149	4+48	455
1100	- 1/21 	-+\$2. -+\$30	-+++47	47	-+ \$8 # 55	- 152	+51	-+84		-439 	1 1 1 1+29	+30
1050	25	-+31	-+44 1 -+47	(++46 ++44	4+33 +t34	- 140 ++20	+32	-++47 / -++31	436	+32	+28 ++24	+25
1000_	439	++87	++41	-+39 	+ 28 (1 +35	+15	+20	+130	434	+27 +23	+20	++10
950	-++46		-++43 -++38	++======	-+3\$ -+3\$	- +20 -+19	_+2\$	-+433 1 ++28	- 419 - (+ 22	+15	+ 17	4+49
900	-+64 1 -+65		1 ++42 1 ++52	++47	+==++++++++++++++++++++++++++++++++++++	-++15 ++17	+ 2 ² - ⁺ 2 ⁴	- 124 1 - 125	424	+++++++++++++++++++++++++++++++++++++++	4	+5 -1
850_	+\$7 +\$8		-+58 - NR	-+45)	-+37 ++29	$- + \frac{1}{4}$	+28 ++19	+ 24	4+18	11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(8 4
800_	+41		-+56 -+57	-++5	-+12 -+13	- + + + + + + + + + + + + + + + + + + +	++# ++#	++1	40	1-3		4 -4
750_	-+54 -+55		-+51 -+42	+34	-+t ¹ ++t ²	-+k7) ++15	+14) // //18		+0	12		1
700	+ 51		-+35/ / +23	-418	-++1/7 -++(8)	+ 191	1 ++12 ++8	++2		 	1 -14	-19 1 1-13
650	++++++39		+20		-+18 	-+ #1 -++#	1-15	1-2	-22	/27		-н
600_	1+41		1	+)7)		 	1 -8	24) 23 / 30	 22 28	 25 33	/







MAIN SHOWING

DDHI E.O.H.= 45.72 m

E.O.H.= 60.05 m

1

× .

	FROM	TO	LENGTH	SHPL	Cu	Pb	Zn	Au	AS
	n	n	8	NO .	7.	7.	74 	s/to	nne
1		4 07	7	11/24		-		4.05	2.3
	1.83	4.83	3	11020				1.05	1
	4.83	6.28	1.45	11027		0.07	7 50	0.17	3.
	6.28	7.62	1.34	11628	1.65	0.03	3.52	0.17	0.
	7.62	9.5	1.88	11629	0.12	<+01	0,34	1.05	0.
	9.5	12.5	3	11630	-	-		<,05	1.54
	12.5	15.5	3	11631	177		-	5,05	1.0
	15.5	16.6	1.1	11632	0.941	14	-	<,05	54
	16.6	18.29	1.69	11633	1.57	0.01	0.11	0.05	4.
	18.29	19,51	1.22	11634	0.11	<.01	0.17	<.05	0.
	DDH 85	- 2							
	FROM	TO	LENGTH	SMPL	Cu	Pb	Zn	Au	As
			n :	ND.	Z	%	%	g/ton	ie.

-	3.43	3+70	0.51	10272	0.03	0.01	0.03 .03	1.4.4
	6.71	7.01	0.03	10293	0.01	0.01	0.04 4.05	4.5
	7.01	8,23	1,22	10294	0.08	0.01	0.25 0.10	4.5
	8.84	9.91	1.07	10295	0.29	0.12	0.89 0.30	3.5
	9.91	10.36	0.45	10296	0.01	0.01	0.12 <.05	1.0
	10.97	11.46	0.49	10297	0.59	<.01	0.02 0.10	<.5
	11.89	13.11	1.22	10298	0.01	0.10	0.2305	<.5
	13.72	14.33	0.61	10299	0.01	<.01	0.09 (.05	0.5
	15.77	16.31	0.54	10300	<.01	0.09	0.02 <.05	5.5
	17.07	17.53	0.46	10326	.01	0.03	0.04 4.05	1.5
	17.53	18.44	0.91	10327	6.01	0.01	0.02 <.05	<.5
	18.44	18.99	0.55	10328	<.01	0.01	0.04 <.05	\$.5
	22.25	22.56	0.31	10329	0.02	0.01	0.0205	6.5
	22.56	22.86	0.30	10330	0.02	0.01	0.02 <.05	<.5
	22.86	23.41	0.55	10331	<.01	0.01	0.02 (.05	<.5

.

1050 N

1

1

1100 N 1 _ + 30 m LEGEND _ + 20 P Feldspar - Epidote Porphyry **T** Volcanic Tuff/Tuff - Breccia Mafic - Intermediate Volcanic Jasper &/or Silicified Zone _ +10 Sulphides - Py, Cpy, Sphal,Gn ---- Geological Contact Mineralized Zones _ 0 m ASSAYS Cu Zn **|**<1 % □ < 1 % 1 - 1.99 % 1 - 1.99 % 2 - 2.49 % **]** > 2.5 % Ag * 1.0 - 7.0 g/t ** > 7.0 g/t Section drawn facing WEST 1 1100 N 0 5 10 15 20 m SCALE: 1:250 FALCONBRIDGE LTD. OPERTY **JASPER PN 101** DCATION: VANCOUVER IS. TYPE OF MAP: DRILL SECTION 1+00 W DDH 1, DDH 2 WORKING PLACE: BASED ON: JL/SL DATE OF WORK: OCT/85 MAP REF. NO.: FIG. NO .: DRAWN BY: SL 13 N.T.S. NO.:92C/15E DATE:



DDH 3 E.O.H. = 49.**0**7 m

P5

1

1

 FRDH
 TO
 LENGTH
 SHFL
 Cu
 Fb
 Zn
 Au
 As

 m
 m
 m
 m
 m
 NO.
 Z
 Z
 Z
 s/tonne

 **
 3.05
 3.96
 0.91
 10286
 0.03
 0.02
 0.06
 <.05</td>
 1.0

 8.84
 10.06
 1.22
 10287
 0.03
 0.02
 0.06
 <.05</td>
 <.5</td>

 21.34
 22.86
 1.52
 10289
 <.01</td>
 <.01</td>
 0.03
 <.05</td>
 <.5</td>

 22.86
 24.38
 1.52
 10289
 <.01</td>
 <.01</td>
 0.02
 0.05
 <.5</td>

 24.38
 25.30
 0.92
 10291
 0.01
 0.01
 0.02
 0.05
 <.5</td>

 25.30
 26.82
 1.52
 10291
 0.01
 0.01
 0.03
 0.05
 <.5</td>

 7.01
 7.92
 0.91
 10276
 <.01</td>
 <.01</td>
 0.02
 <.05</td>
 <.5</td>

 8.99
 9.75
 0.76
 10278
 <.01</td>
 <.01</td>
 0.01
 <.05</td>
 <.5</td>

 23.77

....

DDH 85 - 3

1050 N

1

1

1050 N

1



LINE 9+50-W



FALCONBRIDGE LIMITED JASPER PROPERTY ; VICTORIA M.D. ; B.C.

S.E. 88 GENIE SYSTEM ELECTROMAGNETIC PROFILES

SCALE 1: 2,500

MAP No. W-368-2 TO ACCOMPANY A REPORT BY PETER E. WALCOTT, P. Eng.

PETER E. WALCOTT & ASSOC. LTD. JULY - 1985



