

ASSESSMENT REPORT

on

DIAMOND DRILLING

CAR PROPERTY Car and Zing Claims

Carroll Creek Area

FORT STEELE & NELSON MINING DIVISIONS

NTS 82 F/1 W TRIM 82F.009 & 019

Latitude 49° 91' N Longitude 116° 21' W UTM 5,438,000N 550,000E

By

PETER KLEWCHUK, P. Geo.

February, 2000 I MORICAL SURVEY BRANCH

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1.00 INTRODUCTION

This report describes a program of diamond drilling completed on the Zinger property in the Carrol Creek drainage during 1999.

1.10 Location and Access

The Car property, which includes the Car and Zing claims, is located approximately 60 kilometers southwest of Cranbrook, B.C., in the Fort Steele and Nelson Mining Divisions (Fig. 1). The claims are centered near 49° 91' N Latitude and 116° 21' W Longitude / UTM 5,438,000N, 550,000E.

Access to the property is off Highway 3 east of Creston, B.C., along the Carroll Creek logging road and access on the property is further provided by a number of old logging spur roads.

1.20 Property

The Car property is a contiguous group of 119 claim units in 54 two-post claims and 4 modified grid claims (Fig. 2), owned by Chapleau Resources Ltd. and Black Bull Resources Inc..

1.30 Physiography

The Car and Zing claims are in an area of mainly glacially rounded mountainous terrain within the Moyie Range of the Purcell Mountains. Elevations on the claim block range from about 1000 m to 1900 m. Glacial till covers most of the lower mountain slopes and the valleys are floored by thick glacio-fluvial deposits. Forest cover consists of mature and immature stands of a mixture of Pine, Fir and Larch. Some parts of the property have been recently clear-cut logged.

1.40 History of Previous Exploration

The Car property was staked in 1995 by Consolidated Ramrod Gold Corporation. Ramrod cut a grid on the property and completed a soil geochemistry survey. The claim group was optioned to Black Bull Resources Inc. in 1998; they expanded the soil geochemistry with a small survey (Pighin, 1998, A.R.25,661) and conducted a prospecting program (Kennedy, 1998, A.R. 25,701). Late in 1998 Chapleau Resources Ltd. joint ventured the property with Black Bull. Work in 1999 included geological mapping (Pighin, 1999, A.R. 26,027) and the diamond drilling which is the subject of this report.





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1.50 Scope and Purpose of Work

In 1999 a 6 hole diamond drilling program, totaling 2400.1 meters, tested a series of targets on the Car property. The holes tested for the extension of surface base metal sulfide mineralization and also tested the extensive hydrothermal vent system that is exposed at surface.

2.00 GEOLOGY

2.10 Regional Geology

Bedrock on the property is part of the Mesoproterozoic Purcell Supergroup, a thick succession of fine grained clastic and carbonate sedimentary rocks exposed in the core of the Purcell Anticlinorium in southeast British Columbia. These rocks are believed by most workers (eg. Harrison, 1972) to have been deposited in an epicratonic re-entrant of a sea that extended along the western margin of the Precambrian North American Craton.

The oldest known member of the Purcell Supergroup is the Aldridge Formation, a thick sequence of fine-grained siliciclastic rocks deposited largely by turbidity currents. Reesor (1958) has divided the Aldridge Formation in the Purcell Mountains into three informal units: rusty weathering siltstone, quartzitic wacke and argillite of the lower Aldridge Formation; grey weathering quartz wacke and siltstone of the middle Aldridge Formation; and laminated argillite of the upper Aldridge Formation.

The base of the lower Aldridge Formation is not exposed; within southeastern British Columbia this unit is about 1500 meters thick; the middle Aldridge is about 2500 meters thick and includes periodic inter-turbidite intervals of thin bedded, rusty-weathering argillites some of which form finely laminated marker beds that are time stratigraphic units and which can be correlated over great distances within the Aldridge basin and equivalent stratigraphy in the United States. The upper Aldridge Formation is about 300 meters thick. The lower and middle units of the Aldridge Formation are host to a proliferation of gabbroic to dioritic composition Moyie Intrusions, predominantly as sills. These intrusions are interpreted to be penecontemporaneous with deposition of their host sediments (Hoy, 1989).

The Aldridge Formation is gradationally overlain by shallower-water deltaic clastics of the Creston Formation. The Creston Formation is in turn overlain by predominantly dolomitic siltstones of the Kitchener Formation.

The Purcell Anticlinorium is transected by a number of steep transverse and longitudinal faults. The transverse faults appear to have been syndepositional (Lis and Price, 1976) and Hoy (1982) suggests a possible genetic link between sedex style base metal mineralization and syndepositional faulting.

Longitudinal faults which more closely parallel the direction of basin growth faults may have played a similar role. The Sullivan orebody, which occurs at the upper contact of the lower Aldridge Formation, is part of a NNE oriented structural corridor that hosts extensive evidence of disturbed sedimentation, hydrothermal vent products and the base metal sulfides themselves. This corridor is parallel to longitudinal basin growth faults and is probably related to such a structure.

2.20 Property Geology

The Car property is underlain by the middle informal member of the Aldridge Formation. Bedrock exposure is limited to about 5% of the surface area and consists of middle Aldridge Formation argillites, siltstones and quartz wackes, along with a series of gabbroic intrusions which appear to be mainly sills. Sedimentary beds generally strike north and dip moderately to the east.

A large fragmental complex is partially exposed in the southwest part of the claim block; fragmental and related rocks are found over a distance of one kilometer and over a stratigraphic thickness of at least 100 meters. The fragmental complex is composed of interfingering lenses of clast-supported siltstone fragmental, matrix-supported quartzite fragmental, quartzite, black very fine-grained silty argillite and rare lenses of dolomite. Disseminated sulfides include pyrrhotite, sphalerite, galena, pyrite and arsenopyrite. The sulfides appear to be closely related to intense silica, biotite, muscovite and talc alteration, and are most abundant in the quartzite unit (Pighin, 1999). A second fragmental with a smaller surface exposure, occurs near the central part of the claims. This fragmental is albite-altered and carries minor iron sulfides.

3.00 DIAMOND DRILLING

3.10 Introduction

In August and September of 1999, 6 diamond drill holes totaling 2400.1 meters, were drilled on the Car property. The holes were drilled in the area of two fragmental complexes which have favourable alteration and / or base metal sulfides associated with them on surface. All drill holes are NQ in size (7.3 cm in diameter); other drill hole data is provided in Table 1.

Drilling was done by Britton Bros. Diamond Drilling Ltd., P.O. Box 968, Smithers, B.C., V0J 2N0. Core was logged by D.L. Pighin, P.Geo., and core is stored at Vine Properties near the north end of Moyie Lake.

Figure 3 is a drill hole location map, drill hole cross-sections are provided in Figures 4 to 8, complete drill logs are in Appendix 1 and analytical results of core samples are provided in Appendix 2.

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Drill Hole	Collar Azimuth	Dip	Elevation	Start	End	Length	Claim
CA-99-1	023°	-45°	1934 m	Aug 19	Aug. 24	343.6 m	Zing 1
CA-99-2	290°	-45°	1930 m	Aug 24	Aug 30	371.0 m	Zing 3
CA-99-3	-	-90°	1930 m	Aug 30	Aug 31	188.1 m	Zing 3
CA-99-4	257°	-45°	1915 m	Sept. 1	Sept. 8	547.9 m	Car 3
CA-99-5	225°	-50°	1855 m	Sept. 8	Sept. 11	346.6 m	Car 3
CA-99-6	225°	-55°	1680 m	Sept 12	Sept.19	602.9 m	Car 20

Table 1. Diamond Drill Hole Data

3.20 Results

Drill hole CA-99-1 was collared on the Zing 1 claim at the south edge of the large fragmental complex and was intended to test this edge of the fragmental for associated base metal sulfides. The hole collared in sericitic and talc-altered middle Aldridge Formation rocks and drilled fairly normal middle Aldridge lithologies below that. One narrow fragmental zone was encountered from 294 to 296 meters (Figure 4). Minor concentrations of disseminated sphalerite, galena and arsenopyrite were encountered, along with more abundant, mainly disseminated, pyrite and pyrrhotite.

Drill hole CA-99-2 was collared on the Zing 3 claim about 350 meters north of hole CA-99-1 (Figure 3), above the central part of the exposed fragmental complex and drilled to the west. The main fragmental was intersected between 97 and 209 meters, where it has a massive texture with no obvious internal structure; correlation with surface geology suggests a steep-dipping, cross-cutting fragmental body (Figure 5). Minor galena, sphalerite and widespread iron sulfides are present.

Drill hole CA-99-3 is a vertical hole collared at the same site as CA-99-2 (Figure 5). A twenty meter thick band of fragmental was encountered high in the hole, with no obvious correlation to the main fragmental complex seen on surface and in drill hole CA-99-2. No further fragmental was encountered in the remainder of the hole, supporting the probable steep-trending nature of the main fragmental unit. Disseminated iron sulfides are common in the hole, with minor local disseminated base metal sulfides.







Drill hole Ca-99-4 was collared on the Car 3 claim, just over 300 meters north of CA-99-2 & 3 and drilled to the west to test the northern extension of the fragmental (Figure 3). A series of fragmental lenses were intersected, suggesting the complex fingers out into the host stratigraphy in this area (Figure 6). Widespread disseminated minor sphalerite and galena are present, along with more common pyrite and pyrrhotite.

Drill hole CA-99-5 was collared on the Car 3 claim east of the main fragmental and drilled to the west. A gabbro sill was encountered high in the hole, with one lower narrow fragmental unit as well as a massive argillaceous zone which may be a slump feature (Figure 7). No base metal sulfides were noted in the hole.

Drill hole Ca-99-6 was collared on the Car 20 claim and drilled to test for statiform sulfides in association with an albitized fragmental exposed on surface. Middle Aldridge Formation stratigraphy was encountered in the hole, including two gabbro sills (Figure 8). Two narrow lamprophyre dikes were encountered near 67 and 75 meters depth. Narrow fragmental units were intersected at 245 and 300 meters; both are massive, matrix-supported fragmentals. The upper fragmental is muscovite-altered, the lower, thicker fragmental sits directly on the thicker gabbro sill.

3.30 Core Sampling

Three grab samples of core were taken in drill hole CA-99-2 between 43 and 58 meters depth, of a strongly pyrite-sericite altered quartzite-argillite unit with very minor chalcopyrite and sphalerite noted. The samples were analyzed for a multi-element ICP package by Acme Analytical Laboratories Ltd., 852 E. Hastings St., Vancouver, B.C. Analytical results are provided in Appendix 2; all 3 grab samples have relatively low values for zinc, lead and copper, although one sample has 50 ppm Pb, which is a low anomalous value for the Aldridge Formation generally.

4.00 CONCLUSIONS

All of the rocks drilled on the Car property in 1999 are part of the middle Aldridge Formation with lithologies ranging from thin bedded argillites through mixed siltstone assemblages to thick quartzites.

Both fragmentals exposed on surface have been shown to be rather complex features by the diamond drilling. The largest complex is obviously steeply dipping and cross-cuts its host stratigraphy.

Base metal sulfides, including sphalerite, galena and chalcopyrite, occur widely through the areas of the fragmental complexes but have been encountered only in minor concentrations.

5.00 REFERENCES

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Pighin, D.L., 1999	Assessment Report, Geological mapping program, Car property, Fort Steele Mining Division, B.C. Ministry of Mines Assessment Report 25,701.
Reesor, J.E., 1958	Dewar Creek map-area with special emphasis on the White Creek Batholith, British Columbia: Geol. Surv. Canada, Memoir 292, 78 p.

6.00 STATEMENT OF EXPENDITURES

Total Expense	\$160,158.90
Transportation 4x4 truck, 24 days @ 100/day	2,400.00
P. Klewchuk, P.Geo. 3 days @ \$330/day	990.00
Report preparation	
B. Collison 20 days @ \$175/day	3,500.00
Preparation of drill sites, mobilization of drill, transporting core	
D.L. Pighin, P.Geo. 21 days @ \$330/day	6,930.00
Program preparation, supervision, surveying drill sites, logging core	
Britton Bros. Diamond Drilling, Smithers, B.C.	\$146,338.90
Diamond Drilling; 6 holes, 2400.1 meters	

7.00 AUTHOR'S QUALIFICATIONS

As author of this report I, Peter Klewchuk, certify that:

- 1. I am an independent consulting geologist with offices at 246 Moyie Street, Kimberley, B.C.
- 2. I am a graduate geologist with a B.Sc. degree (1969) from the University of British Columbia and an M.Sc. degree (1972) from the University of Calgary.
- 3. I am a Fellow of the Geological Association of Canada and a member of the Association of Professional Engineers and Geoscientists of British Columbia.
- 4. I have been actively involved in mining and exploration geology, primarily in the province of British Columbia, for the past 25 years.
- 5. I have been employed by major mining companies and provincial government geological departments.

Dated at Kimberley, British Columbia, this 10th day of February, 2000.

\$510 PROVINCE C. P. KLEWCHUK Peter Klewchuk COLUMBIA P. Geo. OSCIEN

AUTHOR'S QUALIFICATIONS

As author of this report I, David L. Pighin, certify that:

- 1. I am a self employed consulting geologist whose office is at Hidden Valley Road, Cranbrook, B.C., mailing address is 301 - 8th St. S., Cranbrook, B.C. V1C 1P2.
- 2. I am a Member in good standing of the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
- 3. I have been actively involved in mining and exploration geology, primarily in the Province of British Columbia, for the past 33 years.
- 4. I was employed by Cominco Ltd. as a prospector, exploration technician and geologist for 24 years and later by numerous junior exploration companies.

Dated at Cranbrook, British Columbia, this 9th day of February, 2000.

NOVINCE D. L. PIGHIN David L. Pighin, P Geo. OIENÍ

APPENDIX 1

DIAMOND DRILL HOLE LOGS

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PROPERTY: CAR			HORI COMP: 265.0	HOLE #: CA99-1
LOCATION: Zing 1 Claim			VERT. COMP: 265.0	LENGTH: 343.6 m
Headwaters of Russell Creek	COMPLETED: Aug 24	, 1999	CORR. DIP: avg. dip 40°	
COMMENCED: Aug 19, 1999	(lat)		TRUE BEARING: magnetic rocks in hole	DRILL CONTRACTOR: Britton Bros.
COORDS: (long)	(N)	(EL)	% RECOVERY:	CORE SIZE: NQ
COORDS: (UTM) (E)	(N)	(EL)	LOGGED DATE: Aug 1999	CASING: 0 – 10.7 m
COORDS: (grid) (E)	COLLAR: (din) -45°	(Azi) 025°	LOGGED BY: D.L. Pighin	CORE STORAGE: Vine Property
ELEVATION: 1934.16 m	332 2 2 3 3 3 3 3 3 3 3 3 3	(*==*) *****	g	
OBJECTIVE:	Din		Turner Sherry Sun	Additional Surveys:
SURVEYS: (depth)	Dip.	~21.	Type. Sperty Suit	DepthDipAzi172.840°magnetic rocks343.638°magnetic rocks
From To LITHOLOGY: Argill	te			
10.7 17.3 COLOR: Light gray	, banded dark gray			
PRIMARY STRUCT Bedding to core: 37	URE: Thin to very thin '° at 11.0 meters	bedded, bedding sha	rp-flat, locally bedding is strongly slump struc	tured (soft sed. deformation)
TECTONIC STRUC	TURE: nil			
GENERAL ALTERA	ATION: generally serici	tized		
MINERALIZATION	& ASSOCIATED ALTE	RATIONS, HOST STI	RUCTURE: Abundant disseminated euhedra	al pyrite
ADDITIONAL OBSI	ERVATIONS:			

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From To	LITHOLOGY: Quartzite, interbedded taic
17.3-18.7	COLOR: light gray to white, band dark gray to black
	PRIMARY STRUCTURE: very thin to thin bedded, bedding sharp-flat, some thin highly disrupted beds, quartzite beds fine to medium grained
чи ца с родини с протива и на страни с полити н Н	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: talc beds alternate (interbedded) with thin intensely albitized silty beds. Quartzite generally sericitic.
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: abundant limonite along fractures and disseminated in seds
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite
18.7-22.7	COLOR: light brownish gray
	PRIMARY STRUCTURE: very thick bedded, no bedding, medium to coarse grained, unsorted and non graded
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: weakly sericitic
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: abundant disseminated limonite and limonite staining
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Siltstone, interbedded argillite
22.7-25.0	COLOR: light brownish gray, interbanded dark gray
	PRIMARY STRUCTURE: thin to very thin bedded, bedding sharp-wavy to flat, commonly disrupted, finely parallel laminated to finely cross-bedded. Bedding to core at 26.3 m = 45°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: rare thin talc beds, weak sericitic alteration
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: limonitic throughout
	ADDITIONAL OBSERVATIONS:

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25.0-34.6 COLOR: brownish light gray PRIMARY STRUCTURE: very thick bedded, bedding is rare and generally disrupted, medium to coarse grained, unsorted and ungraded, quartz grains are generally sharply angular TECTONIC STRUCTURE: nil GENERAL ALTERATION: matrix is strongly sericitic MINERALIZATION & ASSOCIATED, HOST STRUCTURE: abundant disseminated limonite in quartzite ADDITIONAL OBSERVATIONS: From To LITHOLOGY: Siltstone, minor thin talc beds (or soft argilite)(?) 34.6-43.0 COLOR: light brown with some dark green banding PRIMARY STRUCTURE: medium to thick bedded, bedding is sharp, commonly distorted, medium to coarse grained TECTONIC STRUCTURE: nil GENERAL ALTERATION: limonitic (supergene alteration), dark green talc interbeds or very soft argilite MINERALIZATION & ASSOCIATED, HOST STRUCTURE: limonite speck and bands throughout ADDITIONAL OBSERVATIONS: From To LITHOLOGY: Quartzite interbedded argilite (talc(?)) 43.0-56.0 COLOR: light brown with scattered thin dark green bands From To LITHOLOGY: Quartzite interbedded argilite (talc(?)) 43.0-56.0 COLOR: light brown with scattered thin dark green bands PRIMARY STRUCTURE: nil GENERAL ALTERATION: TO LITHOLOGY: Quartzite interbedded argilite (talc(?)) 43.0-56.0	From To	LITHOLOGY: Quartzite
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TECTONIC STRUCTURE: nil GENERAL ALTERATION: Supergene generally limonitic throughout, with dark green talcose argillite beds		PRIMARY STRUCTURE: 43.0-46.0m – very thin bedded, 46.0-49.4m – medium to thick bedded, 49.4-50.3m – very thin bedded, 50.3-56.0m – medium to thick bedded, bedding planes generally sharp-flat and commonly distorted (soft sed. slumping)
GENERAL ALTERATION: Supergene generally limonitic throughout, with dark green talcose argillite beds		TECTONIC STRUCTURE: nil
		GENERAL ALTERATION: Supergene generally limonitic throughout, with dark green talcose argillite beds
MINERALIZATION & ASSOCIATED, HOST STRUCTURE: limonite disseminated throughout		MINERALIZATION & ASSOCIATED, HOST STRUCTURE: limonite disseminated throughout
ADDITIONAL OBSERVATIONS:		ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Argillite (talcose)
56.0-57.3	COLOR: light brown, banded dark green
	PRIMARY STRUCTURE: thin to very thin bedded, bedding sharp and flat
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: as previously described
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: widely scattered bands of intense limonitization
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite, minor argillite interbeds
57.3-73.5	COLOR: light brownish gray
	PRIMARY STRUCTURE: thick to very thick bedded, bedding rare but distinct, homogeneous medium grained sediments, no sorting or grading.
	At 59.0m bedding to core = 40°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: matrix strongly sericitic and weakly limonitic throughout
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: some disseminated limonite and locally pyrite, less than 1%
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Siltstone interbedded silty argillite and argillite
73.5-80.0	COLOR: light brown with light greenish gray
	PRIMARY STRUCTURE: medium to thin bedded, bedding sharp, generally distorted.
	Bedding to core at 77.0m = 40°
	GENERAL ALTERATION: as previously described
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: 78.8-79.3m – very limonitic quartzite
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Quartzite
80.0-84.0	COLOR: light greenish gray
	PRIMARY STRUCTURE: thick to very thick bedded, bedding very rare, medium to coarse grained, unsorted and graded
	TECTONIC STRUCTURE: nil
······································	GENERAL ALTERATION: matrix strongly sericitic
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: some disseminated pyrite and limonite
· · · · · · · · · · · · · · · · · · ·	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Siltstone interbedded guartzite and argillite
84.0-92.6	COLOR: light gray to light brownish gray. Some light greenish gray banding.
	PRIMARY STRUCTURE: medium to thick bedded with minor thin beds, bedding sharp and generally distorted. Siltstones and quartzites generally medium grained, this section is strongly deformed by soft sediment deformation. Ball and Pillow structures very common.
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: Siltstones and quartzite sericitic matrixes.
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: Limonite occurs as widely scattered round spheres (2mm) in circumference. Py occurs in the same manor as above limonite (limonite after py)
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Argillite interbedded siltstone and quartzite
92.6-107.7	COLOR: light gray, banded by dark gray and greenish gray
	PRIMARY STRUCTURE: thin to very thin bedded, rare medium beds, bedding sharp and commonly distorted. In general seds are moderately to strongly slump structured, ball and pillow structures common
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: as previously described
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: widely scattered py spheres (2mm circum), rare thin bedding parallel massive py lenses
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Argillite
107.7-112.8	COLOR: gray with light gray banding
	PRIMARY STRUCTURE: thin to very thin bedded, bedding sharp-flat, finely parallel laminated
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: nil
·	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: relatively abundant disseminated euhedral py, rare disseminated ZnS and aspy
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite interbedded siltstone, rare argillite
112.8-144.7	COLOR: light gray and light brownish gray
	PRIMARY STRUCTURE: medium to thick bedded, rare thin beds, bedding sharp, generally disrupted by soft sediment deformation, generally fine grained, rarely medium or coarse grained.
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: Siltstone and quartzite, strongly sericitic, locally silicified
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: small spheres (2-4mm circum.) are widely scattered throughout seds, thin argillite beds host rare bedding parallel small massive py lenses (20 x 5mm). Argillite contain abundant dendritic po.
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Argillite
144.7-147.3	COLOR: banded gray and light gray
	PRIMARY STRUCTURE: thin to very thin bedded, bedding sharp-flat
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: Regional
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: Po is relatively abundant as thin disseminated layers parallel to bedding, also disseminated in argillite
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOCY: Siltstone interhedded argillite and silty argillite
147.0.450.5	COLOGI. Unite provide and any her diag
147.3-100.0	COLOR: light gray with lesser dark gray banding
	PRIMARY STRUCTURE: medium to thick bedded lesser thin to very thin beds bedding sharp and distorted (soft sed deformation). Ball and pillow
	structures common
	GENERAL ALTERATION: regional
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: limonite stained in part, limonite lined fractures. Po dendrites common
	ADDITIONAL OBSERVATIONS.
From To	LITHOLOGY: Quartzite
156.0-160.5	COLOR: light gray with white mottling
	PRIMARY STRUCTURE: very thick bedded, bedding is rare but distinct, commonly distorted, medium grained to coarse grained, mainly mature sand,
	not graded or sorted
	TECTONIC STRUCTURE: nil
	GENERAL ALIERATION: silicitied, locally intensely silicitied, finely sericitic, over printed by whitish circular calcareous concretions, from one to two cm
	in size
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: rare disseminated po
· · · · · · · · · · · · · · · · · · ·	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite interbedded argillite.
160.5-177.2	COLOR: light gray, gray and dark gray banding
	PRIMARY STRUCTURE: medium to thin bedded, some very thin bedded, bedding is sharp and generally distorted
	Padding to core at 160 5m = 52° and at 177 0m = 40°
	bedding to core at 100.5m - 52 and at 177.5m - 40
	TECTONIC STRUCTURE: broken rubble ground from 165.0-1/1.0m
	1/3.2-1/3.5m – fault zone consisting of brecciated seds and gouge cuts core axis at 65°
	GENERAL ALTERATION: quartzites are silicified and sericitic
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: abundant fine po as dendrites

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From To	LITHOLOGY: Quartzite, rare argillite interbeds
177.2-194.6	COLOR: mainly light gray with some white mottling
	PRIMARY STRUCTURE: very thick bedded, rare thick beds, very rare thin beds. Bedding is rare but sharp typically distorted (flame structure, ball and pillow). Quartzites are medium to fine grained, no grading evident.
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: quartzite generally silicified, locally intensely silicified, generally sericitic throughout. Calcium carb. over prints silicification as round concretion and irregular wisps and lenses.
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: weakly disseminated po throughout
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Argillite
194.6-196.4	COLOR: banded light and dark gray
	PRIMARY STRUCTURE: thin bedded
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: nil
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: rare py
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite, very rare thin argillite interbeds
196.4-234.9	COLOR: light gray to whitish gray, some white mottling near top of interval
	PRIMARY STRUCTURE: generally very thick bedded, very rare thin beds. Bedding is rare but distinct, generally very distorted, (soft sed. deformation). Quartzites composed of mainly coarse-grained mature quartz sand, not sorted or graded. Bedding to core at 222.0m = 40°.
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: matrix composed of mainly white sericite, locally can be strongly silicified. Late calcite is speckled throughout, locally forming rounded concretions up to 20mm in circum. (calcite flooding). Some widely scattered crystals of green muscovite.
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: Po is relatively abundant throughout. Quartzites as fine disseminated specks and as dendrites, pyrolusite occurs throughout the quartzite unit as widely scattered tiny black specks. Rare ZnS was noted throughout unit.

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From To	LITHOLOGY: Argillite, minor quartzite
234.9-238.4	COLOR: light gray, thin gray lineation
	PRIMARY STRUCTURE: thin to very thin bedded, bedding sharp-flat to distorted (slump structured). Quartzite beds mainly coarse grained
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: strongly sericitic, rare crystals of green muscovite, unit is magnetic.
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: abundant disseminated po, abundant disseminated pyrolusite
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite
238.4-247.6	COLOR: Light gray
	PRIMARY STRUCTURE: medium to thick bedded, bedding sharp, generally distorted, medium grained, no obvious grading.
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: quartzite generally silicified, matrix strongly sericitic, very widely scattered muscovite (green) crystals.
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: weakly disseminated po throughout. Some disseminated aspy, locally weakly disseminated ZnS and PbS
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Argillite, very rare quartzite interbeds
247.6-249.5	COLOR: gray banded dark gray
	PRIMARY STRUCTURE: thin to very thin bedded, bedding sharp flat, but locally extremely distorted (soft sed. slumping).
	Bedding to core at 249.5m = 45°
	GENERAL ALTERATION: widely scattered circular blebs of green muscovite, thin quartzite interbeds, generally very limy, mainly in soft sed. deformed
	MINERALIZATION & ASSOCIATED HOST STRUCTURE: ZoS is weakly disseminated mainly in deformed calcareous quartrite. Reds generally
	associated with green muscovite. Po occurs in thin disseminated lavers throughout unit.
	ADDITIONAL OBSERVATIONS:

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From To.	LITHOLOGY: Quartzite, minor thin argillite interbeds
249.5-259.1	COLOR: light gray with some dark gray thin beds
	PRIMARY STRUCTURE: medium to thick bedded, rare thin argillite beds, bedding sharp and distorted, generally slump structured
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: quartzites generally silicified, weakly calcareous throughout, generally silicified and sericitic
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: weakly disseminated po throughout, locally weakly disseminated ZnS
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Siltstone, interbedded argillite, rare guartzite
259.1-263.0	COLOR: light gray with dark gray interbeds
	PRIMARY STRUCTURE: medium to thin bedded, bedding sharp and distorted, soft sediment slumping, medium grained. Graded turbidite beds.
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: finely biotitic, some siltstones are weakly calcareous
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: minor disseminated po
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite, very rare thin argillite beds
263.0-280.2	COLOR: light gray
	PRIMARY STRUCTURE: thick to very thick bedded, bedding rare but is sharp and strongly contorted (soft sed. deformation). Generally medium to fine grained guartzite. Some graded beds.
<u> </u>	
	GENERAL ALTERATION: in general strongly silicified with intense sericitization of matrix, generally weakly limy with local patches of intense calcium carb. Alteration.
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: Po is weakly disseminated and as dendrites, locally ZnS and PbS occur as weak disseminations. Best between 271 4-274 1m. Unit is weakly magnetic throughout due to weakly disseminated magnetite
 	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Quartzite
280.2-287.1	COLOR: light gray
	PRIMARY STRUCTURE: very thick bedded, no bedding, coarse grained
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: intensely silicified with sericite and CaCo2 rich matrix
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: disseminated py and po throughout. Abundant dendritic po along fractures and in seds. Weakly disseminated black specks throughout probably pyrolusite(?) Rare disseminated ZnS.
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite, rare thin argillite interbed 294.0-296.0m – matrix supported fragmental, clasts are rare and generally contorted.
287.1-308.0	COLOR: light gray
	PRIMARY STRUCTURE: thick to very thick bedded, rare thin or very thin argillite beds. Bedding is sharp, commonly flat or distorted, medium to coarse grained.
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: intensely silicified and sericitized with patchy fine biotitization. Matrix is weakly limy throughout, with local concretion of intense carbonitization.
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: Po weakly disseminated throughout unit. Locally ZnS rims some of the disseminated blebs of
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Argillite
308.0-312.0	COLOR: dark gray with darker gray banding
	PRIMARY STRUCTURE: thin to very thin bedded
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: finely biotitic throughout
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: relatively abundant disseminated po with rare specks of ZnS.

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From To	LITHOLOGY: Quartzite, minor interbeds of argillite
312.0-343.6	COLOR: gray with minor dark gray to black beds
	PRIMARY STRUCTURE: generally medium to thick bedded, with widely scattered thin to very thin argillite beds. Contacts are sharp, generally distorted, rarely flat. Argillite beds are generally black and finely laminated and commonly slump structured. Quartzite medium and coarse grained. Bedding to core at 341.9m = 38°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: quartzite strongly silicified and sericitized and generally weakly limy. Fine disseminated biotite throughout. Black argillite hosts scattered subhedral white garnets.
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: Locally aspy forms finely disseminated patches. Po and py is generally disseminated throughout quartzite and argillite. Small patches of fine disseminated PbS and ZnS occur in quartzite beds. ZnS and calcite form thin layers parallel to bedding in black argillite units. The thickest layer at 298.0m is 1cm thick
	ADDITIONAL OBSERVATIONS:
From To	End of hole
343.6	
	•

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PROPERTY: CAR			HORI COMP: 266.1m	HOLE #: CA99-2	
LOCATION: Zing 3 Claim			VERT. COMP: 266.1m	LENGTH: 370.0 m	
	COMPLETED: Aug 30, 1999		CORR. DIP: avg. dip 44°		
COMMENCED: Aug 24, 1999	(lat)		TRUE BEARING:	DRILL CONTRACTOR: Britton Bros.	
	(N)	(EL)	% RECOVERY:	CORE SIZE: NQ	
	(N)	(EL)	LOGGED DATE: Aug 1999	CASING: 0 – 3.1 m	
COORDS: (gnd) (E)	COLLAR: (dip) -45°	(Azi) 293°	LOGGED BY: D.L. Pighin	CORE STORAGE: Vine Property	
ELEVATION: 1930.16					
	Dip: -40°	Azi: 300°	Type: Sperry Sun	Additional Surveys:	
SURVEYS: (depth) 152.4m				Depth Dip Azi 353.6 43° 301°	
From To LITHOLOGY: Lim	onite (weathered seds)	siltstones(?)			
3.1-20.4 COLOR: brown	COLOR: brown				
PRIMARY STRUCT	PRIMARY STRUCTURE: (?)				
TECTONIC STRUC	TECTONIC STRUCTURE: badly broken ground				
GENERAL ALTER	GENERAL ALTERATION: oxidized – super gene				
MINERALIZATION	MINERALIZATION & ASSOCIATED ALTERATIONS, HOST STRUCTURE:				
ADDITIONAL OBS	ADDITIONAL OBSERVATIONS:				

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From To	LITHOLOGY: Argillite							
20.4-21.3	COLOR: banded light gray and gray							
	PRIMARY STRUC	TURE: thin bedde	d	***********				
	Bedding to core 72	2°						
	TECTONIC STRU	CTURE: nil						
	GENERAL ALTER	RATION: regional(?	?)					
	MINERALIZATION	N & ASSOCIATED,	HOST STRUCTUR	RE: nil				
From To	LITHOLOGY: Silt	stone				*****		
21.3-40.2	COLOR: brown ar	nd gray						
	PRIMARY STRUC	TURE: very thick t	bedded, no bedding	. Some wispy-disru	pted beds.			
	TECTONIC STRU	CTURE: badly brol	ken ground					
	GENERAL ALTER	RATION: generally	limonitic super gen	e alterations				
	MINERALIZATION	N & ASSOCIATED,	HOST STRUCTUR	RE:				
From To	LITHOLOGY: Sericitic quartzite and argillite. Some scattered thin bands or beds of fragmental							
40.2-62.7 COLOR: white with green lineation and green blebs, metallic blebs and lineation								
	PRIMARY STRUCTURE: highly altered sediments, bedding obscured by alteration. Bedding to core at 55.8m = 60°							
	TECTONIC STRUCTURE: nil							
	GENERAL ALTERATION: sediments are nearly completely altered to fine white sericite, some remnant silicified patches, green muscovite occurs							
	throughout as small round spheres, irregular lineation, wisps and lenses.							
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: Py is very abundant, as thin beds, up to 5 – 10mm thick and as abundant rounded spheres.							
0	Overall py content		5% by volume. Lo		olume. Rare cpy n	oteo, some rare spe	ECKS OF ZINS.	
Sample #	From	10	Length	FU				1
4259 Grab	43.0m							
4260 Grab	55.0m							
4261 Grab	58.0m							

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From To	LITHOLOGY: Quartzite
62.7-87.8	COLOR: light gray to white, abundant dark gray dendrites
	PRIMARY STRUCTURE: massive to very thick bedded, bedding is not evident, coarse to medium grained, no sorting, no grading
	GENERAL ALTERATION: quartzite matrix completely altered to sericite, matrix is weakly limy with local small lenses and patches which are strongly calcareous. Thin bands of buff disseminated dolomite are scattered throughout interval.
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: py is relatively abundant throughout unit as circular blebs up to 10mm in diameter. Po is abundant as scattered dendritic structures.
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite
87.8-97.0	COLOR: light buffish gray
	PRIMARY STRUCTURE: very thick bedded, bedding is indistinct, some fine parallel lineation, no sorting, no grading. Quartzite composed of mixed coarse, medium to fine guartz sand. Bedding to core at 88.0m = 54°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: intensely silicified with strongly sericitized matrix, generally limy to dolomitic throughout, locally very limy.
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: abundant po as scattered dendrites
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Fragmental mainly quartzite with soft talcose argillite clasts
97.0-112.0	COLOR: light gray with waxy white clasts
	PRIMARY STRUCTURE: massive, matrix coarse mature quartz sand, mainly matrix supported with scattered zones of clasts supported by frag, clasts generally angular and are rarely more than 2 to 4mm in size
	GENERAL ALTERATION: strongly sericitic with scattered patches of intense silicification
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: widely scattered py blebs, generally circular and from 2 to 5mm in size. Rare speck of PbS noted.
annan haranna hillin an ann an an ann an ann ann ann ann a	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Quartzite
112.0-125.0	COLOR: light buffish gray
	PRIMARY STRUCTURE: very thick bedded, no bedding, but some fine parallel lineation, generally medium grained quartz sand, no grading.
	Rare bedding at base of unit 65° to core
	GENERAL ALTERATION: intensely silicified and sericitic, weakly limy and dolomitic throughout.
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: weakly disseminated py throughout and rare disseminated ZnS.
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Fragmental, quartzite matrix, waxy argillite clasts
125.0-209.0	COLOR: gray
	PRIMARY STRUCTURE: massive, no bedding, coarse grained, unsorted quartz sand matrix, clasts are widely scattered, sharply angular, rarely more
	than 5mm in size, thin 1.0 to 1.5m intervals of clasts supported fragment
	GENERAL ALTERATION: generally silicified and strongly sericitic, becoming more biotitic towards base of unit.
нур <u>, , , , , , , , , , , , , , , , , , ,</u>	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: fine disseminated po throughout. Rare specks of ZnS throughout. ZnS is common in thin bairline calcite filled fractures, these fractures are commonly subparallel to core axis
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite, interbedded argillite
209.0-220.2	COLOR: mainly light gray with gray to dark gray banding
	PRIMARY STRUCTURE: medium to thin bedded and some very thin bedded, bedding sharp and very distorted. Abundant ball and pillow structures (soft
	sed. deformation). Bedding to core at 209.0 = 48°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: quartzites are silicified and sericitic
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: Po is weakly disseminated throughout sed., both quartzite and argiilite. Very abundant ZnS
	and aspy
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Quartzite, rare thin argillite interbeds
220.2-242.3	COLOR: light gray
	PRIMARY STRUCTURE: medium to thick bedded, rare thin beds, bedding is distinct and highly distorted. Bedding to core at 226.5 = 50°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: quartzite beds are generally silicified and highly sericitized
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: weak disseminated po throughout, rare specks and blebs of ZnS and PbS
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite interbedded argillite
242.3-255.2	COLOR: light gray with gray and dark gray interbeds
	PRIMARY STRUCTURE: medium to thin bedded, bedding distorted and sharp, very rarely flat-sharp (soft sed. deformation). Quartzites mainly medium to fine grained. Bedding to core at 250.0m = 74°
<u></u>	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: quartzite silicified and sericitic with late carbonate rich concretions, widely scattered blebs of light green muscovite
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: weakly disseminated po throughout. Weakly disseminated small patches of ZnS are widely scattered throughout unit, generally occurs in association with carbonate concretions.
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite, rare argillite interbeds
255.2-268.8	COLOR: light gray
	PRIMARY STRUCTURE: medium to thick bedded, bedding is distinct but rare, generally sharp and strongly distorted, generally medium grained.
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: as previously described
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: weakly disseminated po throughout. Weakly disseminated patches of ZnS occur with carbonate rich concretions.
	ADDITIONAL OBSERVATIONS:
CA99-2 DRILL HOLE RECORD CHAPLEAU RESOURCES LTD.

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From To	LITHOLOGY: Argillite, interbedded siltstone
268.8-286.3	COLOR: light gray with dark gray to black interbeds
	PRIMARY STRUCTURE: mainly thin to medium beds, some very thin beds, and very rare thick beds. Bedding generally sharp-distorted, (ball and pillow
	structure). Siltstones generally medium grained. Bedding to core at 272.0m = 60°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: 273.2-275.6m - affinitic black tourmalinite. Siltstone generally sericitic. Argillite hosts abundant small (2mm) white carbonate
	spheres.
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: Po and rare ZnS weakly disseminated throughout. Po with rare ZnS often replace small
	carbonate spheres
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Siltstone
286.3-292.9	COLOR: light gray
	PRIMARY STRUCTURE: thick to very thick bedded, bedding indistinct and rare, generally medium grained.
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: strongly sericitic
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: rare disseminated po
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Argillite, interbedded siltstone
292.9-299.0	COLOR: gray to dark gray
	PRIMARY STRUCTURE: thin to very thin bedded, bedding mainly sharp-flat, rarely distorted. Siltstones generally medium grained.
	Bedding to core at 298.0m = 66°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: siltstone beds strongly sericitic, small carbonate rich spheres common in argillite units.
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: some weakly disseminated po, very rare specks of ZnS.
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Quartzite
299.0-308.0	COLOR: light gray
	PRIMARY STRUCTURE: thick to very thick bedded, bedding is rare but distinct, generally distorted by soft sed, deformation, generally medium grained
	to fine grained, commonly graded, (turbidites)
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: generally silicified and sericitic
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: widely scattered po disseminations
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Argillite
308.0-309.0	COLOR: light gray banded dark gray
	PRIMARY STRUCTURE: very thin bedded, bedding sharp and strongly distorted by soft sed. deformation, abundant ball and pillow structures
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: small (2mm) calcite spheres scattered throughout argillite
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: Po with lesser ZnS in part replaces calcium carbonate spheres.
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Siltstone, interbedded argillite
309.0-328.6	COLOR: light gray with dark gray and gray interbeds
	PRIMARY STRUCTURE: mainly medium to thin bedded, rare thick bed, bedding distinct and strongly distorted (soft sed. deformation), widely scattered
	clasts in siltstone beds from 325.0-328.0m Bedding to core at 321.0m = 71°
	TECTONIC STRUCTURE: badly broken ground up core. 318.3-318.7m – fault(?) Contacts destroyed.
	GENERAL ALTERATION: argilite beds contain abundant calcite spheres, siltstone beds strongly sericitized
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: weakly disseminated po with rare ZnS throughout. Po and rare ZnS replacing in part
	calcium spheres in argillite beds
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Quartzite, rare argillite interbeds
328.6-335.6	COLOR: light gray with rare dark gray band
	PRIMARY STRUCTURE: thick to very thick bedded, rare thin beds, bedding indistinct, medium grained quartzite
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: strongly silicified and sericitized
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: widely scattered small (2 to 5mm) of po with ZnS throughout the quartzite units. Thin
	irregular veinlets (2 to 5mm) of calcite cut core at angles of 30° and 55°, host weak ZnS mineralization
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Siltstone, Interbedded argillite
335.6-341.9	COLOR: light gray to gray
	PRIMARY STRUCTURE: medium to thin bedded, bedding planes are distinct and strongly distorted (soft sed. deformation). Generally medium to fine grained seds.
	GENERAL ALTERATION: siltstone beds strongly sericitic and rarely weakly limy
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: weakly disseminated po and lesser ZnS throughout, rare bedding parallel (5mm thick) layer of calcite with minor ZnS. Rare calcite veinlets with ZnS at 337.5m (2mm) thin irregular calcite veins host cpy, po, PbS and ZnS. Very rare ZnS is disseminated in argillite beds and in calcite spheres.
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite, minor interbedded argillite
341.9-348.9	COLOR: light gray with dark gray interbeds
	PRIMARY STRUCTURE: medium to very thick bedded, bedding is rare and generally distorted. Quartzites are medium to fine grained.
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: quartzite strongly silicified and sericitized
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: 242.4-343.4m – thin quartz-calcite-muscovite (2mm to 10mm) host ZnS, PbS and po veins cut core at 10°, ZnS is disseminated in quartzite adjacent to thin veinlets. Weakly disseminated ZnS occurs in some argillite beds.
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Siltstone, interbedded argillite
348.9-357.5	COLOR: light gray with dark gray interbeds
	PRIMARY STRUCTURE: medium to thin bedded, bedding is distinct, mainly flat to slightly wavy, fine to medium grained siltstone, some graded beds.
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: siltstone beds generally sericitic and weakly biotitic. Argillite bedded continue to host calcium carb spheres
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: rare disseminated po and ZnS in siltstone beds
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite
357.5-371.0	COLOR: light gray
	PRIMARY STRUCTURE: medium to thick bedded, bedding sharp, generally distorted, medium grained quartzite
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: strongly sericitized matrix
***************************************	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: weakly disseminated po throughout
	ADDITIONAL OBSERVATIONS:
From To	End of hole
371.0	

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PROPERTY: CAR				HORI COMP:	HOLE #: CA99-3	
LOCATION: Zing 3 Cli Headwaters of Russell	aim Creek			VERT. COMP: 188.1 m	LENGTH: 188.1 m	
	0.1000	COMPLETED: Aug 31	, 1999	CORR. DIP:		
COMMENCED: AUG 30, 1999		(lat)		TRUE BEARING:	DRILL CONTRACTOR: Britton Bros.	
COORDS: (long)		(N)	(EL)	% RECOVERY:	CORE SIZE: NQ	
COORDS: (UTM) (E)		(N)	(EL)	LOGGED DATE: Sept 1999	CASING: 3.1 m	
COORDS: (grid) (E)		COLLAR: (dip) -90°	(Azi)	LOGGED BY: D.L. Piahin	CORE STORAGE: Vine Property	
ELEVATION: 188			()			
OBJECTIVE:		Din: -90°	A -i-	Type: Sperry Sun	Additional Surveys:	
SURVEYS: (depth) 18	38.1m	D·p · U	~ <u>~</u> .		Depth Dip Azi	
From To	LITHOLOGY: Siltstor	ne				
3.1-21.6	1.6 COLOR: vellowish brown					
	PRIMARY STRUCTURE: (?)					
	TECTONIC STRUCTURE: very broken and rubbly oxidized ground					
	GENERAL ALTERA	TION: nil				
	MINERALIZATION & ASSOCIATED ALTERATIONS, HOST STRUCTURE: nil					
	ADDITIONAL OBSER	RVATIONS:				

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From To	LITHOLOGY: Fragmental, Argillite clasts with silty argillite matrix
21.6-41.0	COLOR: gray with dark gray and light gray clasts
	PRIMARY STRUCTURE: massive, matrix supported fragmental, clasts 2mm to 10mm, angular to subangular, no preferred clast orientation
	TECTONIC STRUCTURE: nil
<u> </u>	GENERAL ALTERATION: sericitic throughout
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: abundant py as fine disseminations and massive small spheres, 4 to 5% py by volume. Rare po spheres and disseminations
From To	LITHOLOGY: Argillite, guartzite
41.0-98.6	COLOR: white with light green, buff and metallic specklings
	PRIMARY STRUCTURE: (?) destroyed by alteration.
	Bedding to core at 41.0m = 51°, at 87.5m = 87°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: very strongly sericitized sediments with scattered small spheres of green muscovite. Abundant disseminated and small
	calcareous concretions
	49.7-51.2m – abundant calcium carbonate pellets set in a light green muscovitic matrix
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: Py as disseminations (euhedral) and in thin ov layers. Parallel to bedding is abundant
	throughout sericitic unit
	497-512 m = orange Z ₀ S and fine PbS occurs with calcium rich zones. Dendritic po abundant throughout unit locally up to 50% by volume.
	59.5-60.5m, weak disseminated PbS – $7nS$
	79.0.815m - yuggy limonitic quartz ven cuts core at 5°
.	17.5-0-1.5m - Vdggy minoritide quartz vein outo core at o
From To	
98.6-104.3	COLOR: Light gray
	PRIMARY STRUCTURE: very thick bedded, no bedding planes evident, medium to coarse grained, no grading or sorting
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: generally silicified with a sericitic matrix, over printed by small lens shaped calcium carb. patches.
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: weakly disseminated po and py

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From To	LITHOLOGY: Argillite, interbedded quartzite
104.3-128.5	COLOR: light gray with dark gray interbeds
	PRIMARY STRUCTURE: medium to thin bedded, some very thin beds, bedding is sharp-distorted (soft sed. deformation) locally very distorted
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: quartzites typically silicified and sericitic
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: py and po abundantly disseminated throughout unit
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Argillite
128.5-132.4	COLOR:
	PRIMARY STRUCTURE:
	TECTONIC STRUCTURE:
	GENERAL ALTERATION:
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE:
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Siltstone, interbedded argiilite, and quartzite
132.4-167.8	COLOR: light gray with gray and dark gray interbeds
	PRIMARY STRUCTURE: medium to thin bedded, bedding sharp, generally distorted, disrupted by soft sed. deformation. Bedding to core at 149.7m = 70°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: quartzites generally silicified and sericitized
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: abundant disseminated py and po with some thin 2mm layers of po and py. Commonly parallel to bedding.
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Quartzite
167.8-174.5	COLOR: light gray
	PRIMARY STRUCTURE: thick to very thick bedded, rare bedding planes, quartzites are medium to coarse grained, none graded or sorted
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: strongly silicified and sericitized
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: weakly disseminated po throughout
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Argiilite, interbedded siltstone
174.5-177.4	COLOR: light gray with dark gray interbeds
	PRIMARY STRUCTURE: medium to thin bedded, mainly flat-sharp bedding. Bedding to core at 176.0 m = 61°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: regional
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: disseminated po throughout
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite, rare argillite interbed
177.4-188.1	COLOR: light gray, rare dark gray interbeds
1 1	PRIMARY STRUCTURE: very thick bedded, bedding is rare but is flat-sharp. Quartzite is medium to coarse grained, graded beds not evident.
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: strongly silicified and sericitized
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: disseminated po throughout.
400.4	185.U-186.UM - Weakly disseminated PDS
188.1	End of noie

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PROPERTY: CAR	99			HORI COMP: 419.7 m	HOLE #: CA99-4	
LOCATION: Car 3 Cla	im			VERT. COMP: 352.2 m	LENGTH: 547.9 m	
COMMENCED: Sep 1,	, 1999	COMPLETED: Sep 8,	1999	CORR. DIP:		
COORDS: (long)		(lat)		TRUE BEARING:	DRILL CONTRACTOR: Britton Bros.	
COORDS: (UTM) (E)		(N)	(EL)	% RECOVERY:	CORE SIZE: NQ	
COORDS: (grid) (E)		(N)	(EL)	LOGGED DATE: Sep 1999	CASING: 0 – 3.1 m	
ELEVATION: 1915 m		COLLAR: (dip) -45°	(Azi) 260°	LOGGED BY: D.L. Pighin	CORE STORAGE: Vine Property	
OBJECTIVE:						
SURVEYS: (depth) 15	52.4m	Dip: -40°	Azi: 269°	Type: Sperry Sun	Additional Surveys:	
					Depth Dip Azi 408.0 -39° 289°	
From To	LITHOLOGY: Quartz	ite				
3.1-22.5	COLOR: light gray with brown staining					
	PRIMARY STRUCTURE: medium to thick bedded, bedding is rare, generally indistinct, generally medium to coarse grained, unsorted or graded quartz sand. Bedding to core at 8.9m = 58°					
	TECTONIC STRUCT	URE: nil				
	GENERAL ALTERAT	FION: generally silicifi	ed and sericitic throu	ughout, limonitic in patches and along	all fractures, weakly limy throughout, very limy small	
	MINERALIZATION &	ASSOCIATED ALTE	RATIONS, HOST S	TRUCTURE: abundant dendritic po th	roughout unit	
	ADDITIONAL OBSEI	RVATIONS:				

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From To	LITHOLOGY: talcose argillite, interbedded siltstone
22.5-26.4	COLOR: brown with greenish brown interbeds
	PRIMARY STRUCTURE: thin to very thin bedded, bedding is sharp-flat to sharp, highly distorted by ball and pillow structures.
	Bedding to core at 26.0m = 70°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: siltstone beds are sericitic and limonitic, argillite beds(?) nearly completely altered to green talc
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: abundant limonite along fractures and bedding planes
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Siltstone, interbedded argillite and quartzite
26.4-55.3	COLOR: brown with thin dark green interbeds
	PRIMARY STRUCTURE: medium to thin bedded, rare thick bed. Bedding distinct, flat-sharp to sharp and highly distorted by soft sed. deformation
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: siltstone are sericitic and generally limonitic, argillite generally altered to talc
· · · · · · · · · · · · · · · · · · ·	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: speckled by limonite throughout, limonite generally fills all fractures
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Argillite, minor thin quartzite interbeds
55.3-59.0	COLOR: gray to dark gray
	PRIMARY STRUCTURE: thin to very thin bedded, bedding is distinct and strongly distorted by strong soft sed. deformation.
	Bedding to core at 59.0m = 62°
	GENERAL ALTERATION: generally sericitic with abundant small 2mm green muscovite spheres
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: py is abundant as disseminations and commonly forms the nucleus of muscovite spheres
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Quartzite Jesser argillite
59.0-82.0	COLOR: light gray, brown and orange brown
	PRIMARY STRUCTURE: thick to very thick bedded, no visible bedding, distorted by alteration
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: 62.5-63.2m & 74.4-82.4m - strongly albitized, with local patches of massive green muscovite
	MINERALIZATION & ASSOCIATED. HOST STRUCTURE: limonite after pv is very abundant in albitized zones from 15 to 30% by volume. Some fresh
	py disseminations and small massive lenses. Py generally coarsely crystalline and euhedral.
	80.1-80.5m – bedded quartz limonite vein host massive hematite and magnetite
From To	LITHOLOGY: Argillite
82.0-97.6	COLOR: dark gray
	PRIMARY STRUCTURE: very thick bedded (massive) slump structured throughout
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: finely sericitic with abundant late small spheres (2mm) of green muscovite
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: finely disseminated po throughout
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite, interbedded argillite
97.6-103.0	COLOR: white with brown staining
	PRIMARY STRUCTURE: no bedding or primary structure due to extensive alteration
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: argillite beds completely altered to fine sericite. Quartzite matrix completely altered to sericite
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: abundant disseminated po and py dendrites
	ADDITIONAL OBSERVATIONS:

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103.0-106.5 COLOR: generally limonite brown PRIMARY STRUCTURE: massive, matrix supported, matrix consists of coarse grained quartz sand and limonite, clasts are abundant, generall angular, 4 to 50mm in size, no clast orientation. TECTONIC STRUCTURE: nil GENERAL ALTERATION: sericitic and limonitic MINERALIZATION & ASSOCIATED HOST STRUCTURE: limonite	/ sharp
PRIMARY STRUCTURE: massive, matrix supported, matrix consists of coarse grained quartz sand and limonite, clasts are abundant, generall angular, 4 to 50mm in size, no clast orientation. TECTONIC STRUCTURE: nil GENERAL ALTERATION: sericitic and limonitic MINERALIZATION & ASSOCIATED_HOST STRUCTURE: limonite	y sharp
angular, 4 to 50mm in size, no clast orientation. TECTONIC STRUCTURE: nil GENERAL ALTERATION: sericitic and limonitic MINERALIZATION & ASSOCIATED_HOST_STRUCTURE: limonite	
TECTONIC STRUCTURE: nil GENERAL ALTERATION: sericitic and limonitic MINERALIZATION & ASSOCIATED. HOST STRUCTURE: limonite	
GENERAL ALTERATION: sericitic and limonitic MINERALIZATION & ASSOCIATED_HOST_STRUCTURE: limonite	
MINERALIZATION & ASSOCIATED HOST STRUCTURE: limonite	
ADDITIONAL OBSERVATIONS:	
From To LITHOLOGY: Quartzite, intermixed with argillite	
106.5-124.0 COLOR: white with brown staining	
PRIMARY STRUCTURE: massive (no bedding evident) appears to be a massive homogenized quartzite-argillite unit. Quartzites generally me	lium
grained	
TECTONIC STRUCTURE: nil	
GENERAL ALTERATION: argillite and quartzite matrix completely altered to fine white sericite with abundant late green muscovite spheres rar	ely more
than 3mm in size	
MINERALIZATION & ASSOCIATED, HOST STRUCTURE: dendritic po is abundant throughout unit, "sulphide flooding"	
ADDITIONAL OBSERVATIONS:	
From To LITHOLOGY: Quartzite	
Fragmental 138.4-140.6m – large angular clasts consisting of 4 or more argillite clasts	
124.0-157.6 COLOR: light brown	
PRIMARY STRUCTURE: massive, "no bedding", unsorted medium to coarse grained guartz sand	
138.4-140.6m – fragmental clast-supported in part, clasts are generally angular, rarely rounded, no clast orientation	
TECTONIC STRUCTURE: nil	
GENERAL ALTERATION: matrix is completely sericitized, clasts in fragmental generally talcose, abundant late spheres of green muscovite	
MINERALIZATION & ASSOCIATED, HOST STRUCTURE: generally limonitic throughout, limonite might be after siderite(?)	
ADDITIONAL OBSERVATIONS:	

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From To	LITHOLOGY: fragmental, siltstone matrix, argillite clasts consisting of 4 different argillite lithologies
157.6-190.4	COLOR: gray to light gray with brown staining
	PRIMARY STRUCTURE: massive, matrix supported, clasts are generally sharp angular, range between 2 and 5mm in size, show no preferred orientation, matrix consist of medium grained quartz sand
	GENERAL ALTERATION: matrix strongly sericitic with scattered bleb, lenses and small spheres of green muscovite, matrix weakly limy with scattered patches, very strong calcium carb. alteration
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: po generally disseminated throughout unit. Rare disseminated ZnS noted throughout unit, rare small massive po clasts. ZnS is more abundant 185.0-190.4m
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Fragmental, quartz sand matrix, clasts consist of various argillite lithologies and siltstone types
190.4-219.8	COLOR: light gray with dark gray to white clasts
	PRIMARY STRUCTURE: massive, clasts are generally larger and more abundant than the unit above, clasts generally 10 to 30mm in size, commonly sharply angular to well rounded. Matrix consists mainly of medium to very coarse quartz, unsorted mature sand
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: matrix strongly sericitic with scattered limy patches
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: Po is weakly to moderately disseminated throughout, some rare massive po clasts. Disseminated ZnS occurs weakly throughout unit
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Siltstone, interbedded argillite and quartzite
219.8-256.4	COLOR: dark gray, brown and light gray mixed
	PRIMARY STRUCTURE: medium to thin bedded, section is strongly deformed by soft sediment slumping, beds pulled apart and intermixed by slumping
	TECTONIC STRUCTURE: 230.8-239.6m – fault zone cuts core at 2° to 3°
	GENERAL ALTERATION: only regional
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: abundant limonite on all fractures and as stains in seds
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Quartzite, interbedded argillite
256.4-273.4	COLOR: light gray with gray and dark gray argillite interbeds
	PRIMARY STRUCTORE: medium to thin bedded, some very thin bedded units. Bedding sharp-flat to sharp-wavy, some soft sed. deformation but as
	severe as above, quartizite generally medium to fine grained. Bedding to core at 265.5m = 47°, at 271.0m = 60°
	GENERAL ALTERATION: quartzites are silicified and sericitized, argillite contains abundant tiny spheres, consist of po cores rimmed by sericite
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: Po weakly disseminated throughout section.
	258.0-260.0m – weakly disseminated ZnS and as weak disseminated thin quartz-calcite veinlets which cut at angles of 40° and 15°.
	At 259.2m – 20cm zone of calcite-green muscovite hosts po, ZnS and PbS
From To	LITHOLOGY: Fragmental – quartzite matrix, argillite clasts at 3 different lithologies
273.4-279.6	COLOR: light gray with light gray and gray clasts
	PRIMARY STRUCTURE: massive, matrix consists of unsorted mature medium to coarse grained quartz sand. Clasts are matrix supported, sharply
	angular, range in size from 2 to 60mm.
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: generally silicified and sericitic, weakly limy throughout
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: Po weakly disseminated throughout. ZnS occurs as weak disseminations locally
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Mixed argiliite and Siltstone
	304.8-305.3m – fragmental
279.6-305.3	COLOR: mainly greenish gray
	PRIMARY STRUCTURE: medium to thin bedded(?) Seds strongly slump structured – beds pulled apart, fragmented and folded
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: generally talcose throughout
9/10/1999.	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: abundant limonite specks, some po specks.
	292.0-295.0m - high oxidized crackle breccia zone
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Quartzite
305.3-308.8	COLOR: light gray
	PRIMARY STRUCTURE: very thick bedded, no bedding
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: generally silicified and sericitic
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: rare disseminated po
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite, interbedded siltstone and argillite
308.8-313.5	COLOR: light gray with very light gray and dark gray argillite interbeds
	PRIMARY STRUCTURE: medium to thin bedded, bedding sharp-flat to extremely disrupted by soft sed. deformation, thin argillite beds commonly parallel laminated
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: quartzite beds are silicified and sericitic, dark argillite bed typically contain abundant sericite spheres
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: weak po disseminations
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite, rare thin argillite beds
313.5-322.6	COLOR: light gray
	PRIMARY STRUCTURE: thick to very thick bedded, rare bedding is distinct and highly disrupted (soft sed. deformation)
	At 317.0m – bedding to core is 43°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: intensely silicified and sericitic
	320.0-320.5m – Intensely albitized mottled by green muscovite
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: 314.0m – 10cm thick quartz limonite vein cuts core at 30°, weakly disseminated po as
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Argiilite					
322.6-325.4	COLOR: dark gray					
	PRIMARY STRUCTURE: medium bedded and very finely parallel laminated					
	TECTONIC STRUCTURE:					
	GENERAL ALTERATION:					
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE:					
	ADDITIONAL OBSERVATIONS:					
From To	LITHOLOGY: Quartzite, rare thin beds of argillite					
325.4-338.0	COLOR: light gray					
	PRIMARY STRUCTURE: thick to very thick bedded, bedding is rare, generally sharp and high distorted. Thin argillite beds generally strongly slump structured. Bedding at 327.0m = 60°					
	GENERAL ALTERATION: intensely silicified and sericitized					
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: scattered 2 to 4mm calcite veinlets host rare ZnS cut core at 26° and 40°					
	ADDITIONAL OBSERVATIONS:					
From To	LITHOLOGY: Argillite, rare quartzite					
338.0-341.5	COLOR: banded light gray and dark gray					
	PRIMARY STRUCTURE: thin to very thin bedded, bedding sharp-flat. Bedding to core at 340.0m = 62°					
	TECTONIC STRUCTURE: nil					
	GENERAL ALTERATION: sericitic with abundant sericite spheres					
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: very rare disseminated po					
	ADDITIONAL OBSERVATIONS:					

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From To	LITHOLOGY: Quartzite
341.5-348.7	COLOR: light gray
	PRIMARY STRUCTURE: thick to very thick bedded, bedding is rare and indistinct, medium to coarse grained, some beds graded
	TECTONIC STRUCTURE: nil
en e	GENERAL ALTERATION: generally silicified and sericitic
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: at 348.0m – thin 2 to 3mm thick veinlet subparallel to core hosts abundant PbS and ZnS. Scattered thin 2 to 3mm thick calcite veinlets host weak disseminated ZnS
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Argillite, interbedded silty argillite
348.7-351.2	COLOR: light gray with wavy gray and dark gray banding
	PRIMARY STRUCTURE: thin to very thin bedded, bedding sharp and distorted, ball and pillow structures
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: sericitic with weak green muscovitization
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: rare weakly disseminated po and very rare specks of ZnS
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite, lesser interbedded siltstone and argillite
351.2-379.4	COLOR: light gray – light greenish gray
	PRIMARY STRUCTURE: medium to thin bedded, rarely thin bedded, bedding sharp, very distorted, abundant ball and pillow structures, scattered rip-up clasts, quartzite generally fine grained, some beds are graded fining upwards
	TECTONIC STRUCTURE: 373.5-374.1m – fault zone cuts core at 90°, consists of soft fault gouge and brecciated seds.
	GENERAL ALTERATION: quartzite are generally strongly silicified, with a matrix consisting of fine sericite and greenish muscovite
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: at 357.4m – 4cm thick quartz-calcite vein cuts core at 25°, hosts abundant po, lesser ZnS and PbS. At 352.0m – thin calcite-muscovite veinlet hosts ZnS
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Quartzite, interbedded siltstone and argillite
379.4-384.3	COLOR: light gray with gray and dark gray interbeds
	PRIMARY STRUCTURE: medium to thin bedded, some very thin beds, bedding sharp and distorted
	TECTONIC STRUCTURE: 383.3-383.7m – fault zone cuts core at 26°
	GENERAL ALTERATION: quartzite silicified and sericitic
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: rare disseminated po
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite
384.3-390.5	COLOR: light gray
-	PRIMARY STRUCTURE: medium to very thick bedded, bedding rare and indistinct, medium to coarse grained
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: strongly silicified and sericitic
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: rare disseminated po, widely scattered quartz-calcite-muscovite veins (1cm to 4cm thick) cut core at 5° and 30°
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite, interbedded argillite
390.5-394.8	COLOR:
wate 10 a 1 a 2 a 2 a 2 a 2 a 2 a 2 a 2 a 2 a 2	PRIMARY STRUCTURE: medium to thin bedded, bedding sharp and highly distorted (soft sed. slumping(?)) scattered rip-up clasts.
······	
	GENERAL ALTERATION: as previously described
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: rare disseminated po
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Quartzite. rare interbeds of argillite					
	401.6-403.4m - very thin bedded black argillite					
394.8-434.6	COLOR: light gray with rare black argillite units					
	PRIMARY STRUCTURE: thick to very thick bedded, rare thin argillite interbeds, guartzite medium to coarse grained.					
	Bedding to core at 419.0m = 68°, at 431.0m = 68°					
	TECTONIC STRUCTURE: nil					
	GENERAL ALTERATION: quartzite intensely silicified and sericitic, with some fine green muscovite, black arguilite contain abundant small 2mm					
	of fine sericite with calcite nucleus					
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: rare disseminated po					
	ADDITIONAL OBSERVATIONS:					
From To	LITHOLOGY: Quartzite, minor interbedded argillite from 436.8-437.2m					
434.6-445.6	COLOR: light gray, gray interbeds					
	PRIMARY STRUCTURE: medium to thick bedded, bedding is rare, usually distinct and distorted, medium to coarse grained					
	TECTONIC STRUCTURE: nil					
	GENERAL ALTERATION: generally sericitic and weakly muscovitic (green) some weakly limy beds, quartzite generally silicified					
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: rare disseminated po					
	ADDITIONAL OBSERVATIONS:					
From To	LITHOLOGY: argillite, minor interbedded quartzite					
445.6-450.5	COLOR: gray to dark gray with light gray interbedded					
	PRIMARY STRUCTURE: thin to very thin bedded, bedding sharp-flat to wavy, some disrupted argillite beds.					
	Bedding to core at 450.5m = 71°					
	TECTONIC STRUCTURE: nil					
	GENERAL ALTERATION: weakly greenish due to fine muscovitization					
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: abundant and widely scattered thin irregular calcite-quartz veinlets host minor po					
	ADDITIONAL OBSERVATIONS:					

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From To	LITHOLOGY: Quartzite, very thin argillite beds					
450.5-488.0	COLOR: light gray					
	PRIMARY STRUCTURE: thick to very thick bedded, bedding is very rare and indistinct, guartzite is mainly coarse grained unsorted not graded mature					
	quartz sand					
	TECTONIC STRUCTURE: nil					
	GENERAL ALTERATION: intensely silicified with a sericite matrix, thin argillite beds commonly light greenish gray due to fine muscovite, guartzite also					
	contains scattered small blebs and spheres of green muscovite throughout section					
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: 450.5-465.2m – weakly crackle brecciated, healed by calcite and green muscovite					
	At 452.0m - 10cm thick zone of calcite and muscovite alteration host abundant ZnS and po. Small calcite-muscovitic vein are generally widely scattered					
	throughout the section, some of these veinlets host minor ZnS					
	ADDITIONAL OBSERVATIONS:					
From To	LITHOLOGY: Siltstone, interbedded quartzite and argillite					
488.0-490.1	COLOR: light gray to light greenish gray with gray interbeds					
	PRIMARY STRUCTURE: medium to thin bedded bedding sham-flat					
	Radding to core at 488 0m = 70°					
······································						
	GENERAL ALTERATION: scattered thin beds of green muscovite, beds are generally sericitic - lesser fine greenick muscovite, come elliptication					
M						
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: scattered 2 to 5mm thick, bedding parallel guartz-calcite veins, contain minor ZnS and po					
	ADDITIONAL OBSERVATIONS:					
From To	LITHOLOGY: Quartzite rare thin amilite interheds					
490.1-501.7	COLOR: light greenish gray					
	PRIMARY STRUCTURE: medium to thick bedded, bedding rare and indistinct, generally wavy, generally medium to fine grained					
	TECTONIC STRUCTURE: nil					
	GENERAL ALTERATION: intensely silicified, with fine sericite and greenish muscovite					
****	MINERALIZATION & ASSOCIATED HOST STRUCTURE: scattered this improvement of much calculate beat and a link					
	and concerned a According to the other officer and intervention of quartz-calcite nosis rare zno and rarer cpy					
	ADDITIONAL OBSERVATIONS:					

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From To	LITHOLOGY: Argillite minor interhedded quartrite
501 7-504 5	
	PRIMARY STRUCTURE: thin to very thin bedded
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: regional
	mineralization a ASSOCIATED, HOST STRUCTURE: rare disseminated po
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite with minor argillite interbeds
504.5-537.3	COLOR:
	PRIMARY STRUCTURE: medium to thick bedded, lesser thin beds, bedding generally disrupted to flat-sharp. Quartzites generally medium to fine
	grained.
	Bedding at 515.5m = 80°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: quartzite generally silicified with fine sericite and greenish muscovite. Mainly argillite beds are altered to green muscovite
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: widely scattered thin irregular guartz-calcite veinlets host rare ZnS and no and very rare cov
	Scattered bedding parallel quartz-calcite veins generally in argillite unit, contain rare ZnS
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Argillite, rare quartzite interbeds
537.3-540.0	COLOR: light greenish gray
,	PRIMARY STRUCTURE: thin to very thin beds, bedding generally flat-sharp
Hite	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: finely muscovitic throughout, with some thin beds completely altered to fine greenish muscovite
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: rare disseminated po
	ADDITIONAL OBSERVATIONS:

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LITHOLOGY: Quartzite interbedded amillite				
COLOR: light gray to light greenish gray				
occord light gray to light greenish gray				
PRIMARY STRUCTURE: medium to thin bedded, rare thick beds, bedding is sharp-flat to wave				
Bedding to core at 546.0m = 85°				
GENERAL ALTERATION: quartzite generally silicified and sericitic, argillite muscovitic (greenish)				
MINERALIZATION & ASSOCIATED HOST STRUCTURE: mrs discominated as				
The disseminated po				
ADDITIONAL OBSERVATIONS:				
End of Hole				

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PROPERTY: CAR				HORI COMP:	HOLE #: CA99-5
LOCATION: Car 3 Claim				VERT. COMP:	LENGTH: 346.6 m
		COMPLETED: Sep 11, 1999		CORR. DIP:	
COMMENCED: Sep 8, 198	99 (la	(lat)		TRUE BEARING:	DRILL CONTRACTOR: Britton Bros.
COORDS: (long)	(N)) ((EL)	% RECOVERY:	CORE SIZE: NQ
COORDS: (UTM) (E)	(N) ((EL)	LOGGED DATE: Sep 1999	CASING: 0 – 3.1 m
COORDS: (grid) (E)	co	OLLAR: (dip) -50°	(Azi) 270°	LOGGED BY: D.L. Pighin	CORE STORAGE: Vine Property
ELEVATION:					
OBJECTIVE:	Di	p: 38°	Azi: 284°	Type: Sperry Sun	Additional Surveys:
SURVEYS: (depth) 166.76	6m	-			Depth Dip Azi
From To LIT	THOLOGY: Quartzite	9			
3.1-12.3 CO	OLOR: tannish white				
PR	PRIMARY STRUCTURE: very thick bedded, fine grained, no bedding, no grading				
TE	TECTONIC STRUCTURE: nil				
GE	GENERAL ALTERATION: strongly silicified and sericitized				
Mil	MINERALIZATION & ASSOCIATED ALTERATIONS, HOST STRUCTURE: none				
AD	DDITIONAL OBSERV	ATIONS:	***		

RECORD

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OLOGY: Gabbro Sill(?) Contacts very gradational DR:

IARY TEXTURE: medium crystalline, very vuggy

51.5m - becomes very dense and fine grained

TONIC STRUCTURE: nil

ERAL ALTERATION: (?) feldspar appears to be argillitized and mafic minerals altered to sericite(?) Or fine muscovite(?)

RALIZATION & ASSOCIATED, HOST STRUCTURE: none, limonite stained throughout

TIONAL OBSERVATIONS:

OLOGY: Siltstone, lesser interbedded argillite

DR: light brownish gray

IARY STRUCTURE: medium to thick bedded, bedding distinct, generally flat to wavy (load clasts, flame structures). Generally graded turbidite beds ing to core at 54.0m = 65°

CONIC STRUCTURE: nil

ERAL ALTERATION: generally sericitic

RALIZATION & ASSOCIATED, HOST STRUCTURE: weakly limonitic

TIONAL OBSERVATIONS:

OLOGY: Fragmental, siltstone matrix, scattered small argillite clasts

DR: brownish gray

ARY STRUCTURE: massive, matrix support fragmental, no preferred clast orientation

FONIC STRUCTURE: nil

ERAL ALTERATION: limy and sericitic

RALIZATION & ASSOCIATED, HOST STRUCTURE: weakly disseminated po

TIONAL OBSERVATIONS:

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From To	LITHOLOGY: Siltstone, interbedded quartzite and argillite				
85.0-102.7	COLOR: light brownish gray with gray interbeds				
	DDIMADY STRUCTURE: madium to this hadded hadding mainly flat share				
	Padding to serve at 400 cm = 640				
	Bedding to core at 100.0m = 64°				
	TECTONIC STRUCTURE: 96.9-98.0m – fault zone cuts core at 30°				
	GENERAL ALTERATION: quartzite generally silicified argillite weakly muscovitic				
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: abundant limonite after Fe carbonate (?)				
	ADDITIONAL OBSERVATIONS:				
From To	LITHOLOGY: Quartzite				
102 7-112 0	COLOR: light gray				
	PRIMARY STRUCTURE: thick to very thick bedded, bedding very rare but distinct, medium grained				
	GENERAL ALTERATION: generally silicified with weak sericite and biotite				
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: locally abundant disseminated limonite after Fe carbonate				
· · · · · · · · · · · · · · · · · · ·					
	ADDITIONAL ODDERVATIONS.				
From To	LITHOLOGY: Siltstone, interbedded guartzite				
112.0-135.0	COLOR: light gray with dark gray interbeds				
	DDIMARY STRUCTURE: modium to thick hadded hadding sham distanted (ask and defermation) widely as the state				
	Padding at 1970 5m c 208				
	Bedding at 130.5m = 62°				
	GENERAL ALTERATION: quartzite-sitistone generally silicified some weak groupich muscovitization				
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: scattered patches of intense limonitization				
					
	ADDITIONAL OBSERVATIONS:				

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From To	LITHOLOGY: Quartzite
135.0-138.4	COLOR: light gray
	PRIMARY STRUCTURE: very thick bedded, bedding very rare, medium grained, some rip-up clasts
	TECTONIC STRUCTURE: nil
· ·	GENERAL ALTERATION: generally silicified and limonitic
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: nil
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Siltstone, interbedded argillite
138.4-141.6	COLOR:
	PRIMARY STRUCTURE: medium to thin bedded, bedding sharp and distorted, scattered rip-up clasts
	Bedding to core at 157.0m - 65°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: regional
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: some disseminated limonite
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Mainly quartzite with interbedded argillite and siltstone
141.6-159.5	COLOR: light gray band, gray and dark gray
	PRIMARY STRUCTURE: medium to thick bedded, bedding sharp-distorted
	GENERAL ALTERATION: regional
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: rare disseminated po
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Quartzite
159.5-178.5	COLOR: light gray
	PRIMARY STRUCTURE: thick to very thick bedded, bedding is sharp and distorted, some argillite interbeds strongly slump structured, medium grained quartzite
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: generally silicified and weakly sericitic and biotitic
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: widely scattered po blebs
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Argillite "limy"
178.5-197.9	COLOR: gray with white wisps and lenses
	PRIMARY STRUCTURE: massive, no bedding, slump structured throughout, with abundant wispy layers and small lenses of very limy argillite
	TECTONIC STRUCTURE: nil
<u>, , , , , , , , , , , , , , , , , , , </u>	GENERAL ALTERATION: very finely biotitic throughout
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: po is abundantly disseminated within limy argillite lens etc.
- <u> </u>	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Argiilite
197.9-200.0	COLOR: dark gray band light gray
	PRIMARY STRUCTURE: thin to very thin bedded, bedding sharp-flat to strongly distorted.
	Bedding to core at 180.0m = 65°
	TECTONIC STRUCTURE: nii
	GENERAL ALTERATION: regional
····	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: scattered small massive po lenses and thin beds
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Siltstone, interbedded guartzite and argillite
200.0-213.0	COLOR: light gray with dark gray argillite interbeds
	PRIMARY STRUCTURE: medium to thick hedded, some very thin hedded units, hedding share-distorted to wayay most hade are streagly always
	structured, generally medium to fine grained siltstone and quartities
	Bedding to core at 212.0m = 74°
	GENERAL ALTERATION: siltstone and quartzite are silicified with weak light green muscovitization
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: po is relatively abundant, as thin bedding planes parallel thin layer (2-5mm thick) and as disseminations and massive blebs
From To	LITHOLOGY: Quartzite
213.0-217.5	COLOR: light gray
	PRIMARY STRUCTURE: thick to very thick bedded, bedding planes sharp-wavy, medium grained, some graded beds fining upwards
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: generally silicified with weak sericitization and weak greenish muscovitization
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: blebs and disseminated po throughout
From To	LITHOLOGY: Quartzite, interbedded argillite
217.5-346.6	COLOR: light gray to light greenish gray with gray and dark gray interbeds
	PRIMARY STRUCTURE: mainly medium to thick bedded, with scattered thin beds of argillite, contacts are sharp and commonly wavy (flame structured).
	Quartzite generally medium grained, some soft sed. deformation rip-up clasts are common.
	Bedding to core at 256.0m = 70°, at 282.5m = 75°, at 311.5m = 75°, at 346.0m = 74°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: quartzite beds generally silicified and sericitized with weak greenish muscovitization
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: disseminated po common throughout section
· · · · · · · · · · · · · · · · · · ·	ADDITIONAL OBSERVATIONS:

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From	То	nd of Hole
	346.6	

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PAGE 1 OF 7

PROPERTY: CAR			HORI COMP:	HOLE #: CA99-6
LOCATION: Car 20 Claim, Little Moyie			VERT. COMP:	LENGTH: 602.9 m
COMMENCED: Sep 12, 1999	COMPLETED:		CORR. DIP:	
COORDS: (long)	(lat)		TRUE BEARING:	DRILL CONTRACTOR: Britton Bros.
COORDS: (UTM) (E)	(N)	(EL)	% RECOVERY:	CORE SIZE: NQ
COORDS: (grid) (E)	(N)	(EL)	LOGGED DATE: Sep 1999	CASING: 0 – 12.0 m
ELEVATION: 1680 m	COLLAR: (dip) -55°	(Azi) 224°	LOGGED BY: D.L. Pighin	CORE STORAGE: Vine Property
OBJECTIVE:				
SURVEYS: (depth) 426.8m	Dip: -34°	Azi: 224°	Type: Sperry Sun	Additional Surveys:
				Depth Dip Azi
From To LITHOLOGY: Sil	tstone oxidized			
12.0-21.0 COLOR: wide ar	nd brown			
PRIMARY STRU	CTURE: (?)			
TECTONIC STRU	JCTURE: rubbly broken	core		
GENERAL ALTERATION: oxidized				
MINERALIZATIO	MINERALIZATION & ASSOCIATED ALTERATIONS, HOST STRUCTURE: abundant limonite			
ADDITIONAL OF	SERVATIONS:			

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From To	LITHOLOGY: Siltstone, interbedded quartzite and argillite
21.0-51.7	COLOR:
	PRIMARY STRUCTURE: medium to thin bedded, bedding distinct, generally disrupted, generally fine grained sediments
	TECTONIC STRUCTURE: weakly crackle breastated throughout with rare this zones of intense breastation outling care at 10%
	TECTORIC STRUCTORE. Weakly crackle brecciated throughout, with rare thin zones of intense brecciation cutting core at 10°
	GENERAL ALTERATION: quartzites and siltstones generally silicified, sericitized with weak light green muscovitization, some scattered patches of albitization
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: calcite with minor py and po heal the crackle breccia structures, rare specks of zinc
From To	LITHOLOGY: Quartzite, minor argillite interbeds
51.7-66.5	COLOR: light greenish gray to dark greenish gray
	PRIMARY STRUCTURE: medium to thick bedded, bedding distinct-flat, locally wavy. Quartzite beds are mainly medium grained, locally coarse grained.
	No evidence of grading.
	Bedding to core at 62.0m = 72°
	TECTONIC STRUCTURE: lightly fractured throughout
	GENERAL ALTERATION: quartzites are intensely silicified with minor sericitic and greenish muscovite.
,	66.0-66.5m – intense albitization with disseminated green muscovite, seems to be related to the adjacent lamprophyre. Argillite beds are strongly muscovitic (green)
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: abundant thin quartz and calcite fractures (2 to 5mm thick) host po and py very rare cpy cut
	core at 8°. Po occurs throughout as weak disseminations and widely scattered blebs.
From To	LITHOLOGY: Quartzite
	66.5-69.0m – lamprophyre dyke, dark green, very finely crystalline, weakly calcareous
	74.7-77.8m – lamprophyre dyke, light green, very finely crystalline, strongly calcareous
66.5-86.6	COLOR:
	PRIMARY STRUCTURE: thick to very thick bedded, bedding very rare, quartzite generally fine to medium grained
	TECTONIC STRUCTURE: 77.8-86.6m - crackle brecciated throughout, intense white silicification in seds, adjacent to fractures
	GENERAL ALTERATION: intensely silicified throughout
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: thin irregular quartz-calcite veinlets host py, po and rare cpy. Veinlets in lamprophyres
	contain some magnetite. Locally finely disseminated py is abundant

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From To	LITHOLOGY: Gabbro
86.6-119.7	COLOR: green
	PRIMARY TEXTURE: medium crystalline with finely crystalline boundaries
	GENERAL ALTERATION: nil
······································	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: widely scattered calcite veins throughout, gabbro - 2mm to 10mm thick, host rare cpy
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite
119.7-126.9	COLOR: white, tannish white when wet
	PRIMARY STRUCTURE: massive, grain size not evident due to intense silicification
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: intensely silicified with weakly calcareous matrix, some buff dolomitization
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: very disseminated py
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Siltstone, interbedded argillite
126.9-147.6	COLOR: gray with dark gray interbeds
	PRIMARY STRUCTURE: medium to thick bedded, bedding is distinct, commonly wavy, rarely flat
	GENERAL ALTERATION: regional, most of the siltstone beds are dotted by calcareous spheres and wispy lenses
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: po is relatively abundant throughout, it occurs as small blebs (2 to 3mm) and as scattered thin nearly (2mm to 4mm thick) beds, and in thin bedding parallel quartz-calcite veins. Po blebs commonly rimmed by calcite ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Argilite, rare sutstone interbeds
147.6-161.4	COLOR: gray to dark gray, some light gray interbeds
	PRIMARY STRUCTURE: medium to thin bedded, bedding generally sharp-flat, argillites commonly finely parallel laminated
	Bedding to core at 153.0m - 72°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: regional, some weakly limy argillite beds
****	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: po relatively abundant as scattered blebs and fine disseminations and in thin bedding plane
	parallel quartz-calcite vein – generally from 2 to 5mm thick.
	156.7-157.1m – bedding parallel quartz-calcite vein, minor po.
	158.2-158.7m – vein as above
	Rare ZnS and PbS noted in thin bedding parallel veins
From To	LITHOLOGY: Siltstone, rare argiilite interbeds
161.4-174.6	COLOR: gray
	PRIMARY STRUCTURE: medium to thick bedded, bedding indistinct, generally fine grained seds
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: regional
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: po deposited as described previously
From To	LITHOLOGY: Quartzite with very minor argillite and siltstone interbeds
174.6-213.4	COLOR: mainly light gray to light greenish gray
	PRIMARY STRUCTURE: mainly thick to very thick bedded, with minor meter thick sequences of medium to thin bedded siltstone and argillite. Bedding
	is rare in quartzite units but is sharp-flat in thin bedded units.
	Bedding to core at 183.0m = 74°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: Quartzite, generally intensely silicified, weakly sericitic and muscovitic. Lens shaped calcite concretions are relatively
	abundant, rarely more thin and dime in size. Argillite beds are commonly strongly muscovitic. In some beds late biotite forms spheres (spotted hornfels(?))
	In some beds light green muscovite also forms spotted hornfels(?)
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: very widely scattered thin 2mm to 10cm thick guartz-calcite veins host minor po veins cut
	core at 5° and are commonly parallel to bedding

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From To	LITHOLOGY: Quartzite, interbedded argillite
213.4-235.9	COLOR: light gray with light green interbeds, white specks and patches scattered throughout
	PRIMARY STRUCTURE: medium to thin bedded, some thin to very thin bedded sequences. Bedding is distinct generally wavy (flame structured) generally medium grained, grading not evident due to alteration. Bedding to core at 231.0m = 72°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: quartzite-silicified and calcareous generally in lenses and patches. Thin argillite beds altered green muscovite. At 230.8m altered to thin talc beds, some bed altered to spotted hornfels – generally green muscovite spheres in a silicified to partly albitized matrix.
·	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: rare disseminated po
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite Fragmental 244.5-247.0m matrix supported, all clasts altered to green muscovite
235.9-247.0	COLOR: light greenish gray
	PRIMARY STRUCTURE: very thick bedded, bedding not evident, medium to coarse grained, with scattered wispy argillite clasts
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: silicified, sericitized and weakly muscovitized, some clasts totally altered to green muscovite
· · · · · · · · · · · · · · · · · · ·	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: some weak disseminated po
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Quartzite, interbedded argillite and minor siltstone
247.0-294.8	COLOR: light greenish gray with green and gray interbeds
	PRIMARY STRUCTURE: generally medium to thick bedded, with some thin to very thin bedded sequences. Bedding is sharp-flat, to sharp-wavy, mainly medium grained quartzite, rarely coarse grained. Bedding to core at 291.0m = 75°
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: as previously described (235.9-247.0m)
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: some po in thin fractures and as weak disseminations
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Fragmental
294.8-307.0	COLOR: light greenish gray
	PRIMARY STRUCTURE: massive, matrix supported, clasts generally large and distorted, unit appears slump structured in part. Matrix mainly medium grained sand
	TECTONIC STRUCTURE: nil
	GENERAL ALTERATION: generally silicified, sericitic, biotitic in part and generally weakly muscovite throughout. Weakly calcareous locally. 302.9-307.0m – strongly muscovitic matrix producing a granofevic texture widely scattered clasts completely altered to green muscovite – weakly calcareous throughout – grades into a gabbro sill at 307.0m
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE:
	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Gabbro Sill
307.0-477.8	COLOR: green
	PRIMARY STRUCTURE:
	TECTONIC STRUCTURE:
	GENERAL ALTERATION:
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE:
<u> </u>	ADDITIONAL OBSERVATIONS:
From To	LITHOLOGY: Siltstone, interbedded quartzite, minor interbedded argillite, rare thin zone of fragmental
477.8-512.0	COLOR: light gray to light greenish gray
	PRIMARY STRUCTURE: medium to thick bedded, bedding indistinct wavy, generally medium grained to fine grained.
	Bedding to core 79°
	TECTONIC STRUCTURE: weakly crackle brecciated, healed by calcite
	GENERAL ALTERATION: intensely silicified and muscovitized, minor biotite
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: rare specks of ZnS
	ADDITIONAL OBSERVATIONS:

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From To	LITHOLOGY: Gabbro																													
512.0-512.8	COLOR:																													
	PRIMARY STRUCTURE:																													
	TECTONIC STRUCTURE:																													
	GENERAL ALTERATION:																													
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE:																													
	ADDITIONAL OBSERVATIONS:																													
From To	LITHOLOGY: Siltstone, interbedded quartzite and argillite																													
512.8-602.9	COLOR: gray																													
	PRIMARY STRUCTURE: medium to thick bedded, rare very thick beds, bedding generally distinct wavy. Quartzite and siltstone generally medium grained, grade beds common, typical turbidites At 603.0m – bedding to core 78°																													
	TECTONIC STRUCTURE: nil																													
	GENERAL ALTERATION: siltstone and quartzite beds are generally silicified, sericitic with some weak muscovitization																													
	MINERALIZATION & ASSOCIATED, HOST STRUCTURE: rare thin calcite-quartz veinlets with minor po and py																													
	ADDITIONAL OBSERVATIONS:																													
From To	End of Hole																													
602.9																														
<u></u>																														
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	GROU UPPE ASS/ - S/	UP 1D ER LII AY REG AMPLE	- 0. HITS COMNE TYPE	50 GN - AG, NDED : COR	SAMPL AU, H FOR RC E	E LE∦ G, ₩ CK ÅI AU* (ached ≏ 10 ND CO GROUP	O PPM RE SAI 3A	J HL MO, MPLES 10.0	. 2-2- . CO, : [F C :0 GM	Z HCL CD, S CU PB SAMPL	-HNO3 B, BI Zn As E, Aq	1-H2O 1, JH 3 > 19 WA-RE	AT 95 08 , U & B = K, AG > 3 Egia,Mibb	G. C F 2,000 0 PPM = Extra	DR ONE PPN; & AU > C1, AI	E HOUR CU, P > 1000 NALYSI	, Din 18, Zi 1 PPB 1 S BY	GF/A	ТО 10 , МН, А.	IML, AS, V	ANALY ', LA,	SED B CR =	₩ [CF • 10,0	9-E\$. 100 PP	И.				
DATE RECEI	GROL UPPE ASS/ - S/ Sam	UP 1D ER LII Ay Reg Ample Digs Sei	AITS COMME TYPE Degin	50 GM - AG, NDED : COR ning 1999	SAMPL AU, H FOR RC E <u>'RE' E</u> DAT	ELEJ G, W CK AI AU* (<u>re.R</u> : B R:	ACHED 10 ND CO GROUP CO CO CO CO CO CO CO CO CO CO	AT H	5 HL ; MO, MPLES 10.0 'RRE'	2-2- CO, CO, CO, CO, CO, CO, CO, CO, CO, CO,	2 HCL CD, S CU PB SAMPL Rejec	-HNO3 B, BI ZN AS E. AQ <u>t Rer</u>	1 - H20 1, TH, TH, S > 19 100 - RE 100 - RE	AT 95 DE , U & B = K, AG > 3 Egia,MTBH	G. C F 2,000 0 PPM - EXIRA GNED	DR ONE PPN; & AU > CI, AN BY.	CU, P 1000 NALYSI	, DII B, ZI PPB S BY	GF/A	TO 10, MN, MN, A.	YE, C	ANALY , LA, .LEON	SED B CR =	47 [CF - 10,0 MANG	; CER	W. TIFIEC) B.C.	. ASS	AYERS	
DATE RECEI	GROL UPPE ASS/ Sam VED:	UP 1D ER LII AY REA AMPLE plos SEI	O. AITS COMNE TYPE Degin 20	50 GH - AG, NDED : COR ning 1999	DAT	ELEJ G, W CK AL AU* (<u>re.R</u> B R	ACHED 10 10 10 10 10 10 10 10 10 10	O PPM, RE SAI 3A - and CT M	5 HL ; MO, MPLES 10.0 <u>'RRE'</u>	2-2- CO, FFC 0 GM <u>are</u>	2 HCL CD, S CU PB SAMPL Reigo	HNO3 B, BI ZN AS E. AQ <u>t Ref</u>	1 - H20 1, TH, $3 > 13104 - RE104 - RE$	AT 95 DE , U & B = K, AG > 3 EGIA,MIBK	6. C F 2,000 0 PPM EXTRA GNED	DR ONE PPN; & AU > CT, AN BY.		R	GF/A	TO 10, MN, A.	ие, с <i>РВ</i>	ANALY , LA, LEON	SED B CR = a, J.	WANG	-ES. 100 PP ; CER (ES	M.) B.C.	. ASS	AYERS	
date recei 4259	GROU UPPE ASS/ - S/ <u>Sam</u> VBD :	UP 1D ER LII AY REA AMPLE plos SEI	20	50 GH - AG, NDED : COR ning 1999	SAMPL AU, H FOR RC E <u>TRE</u> E DAT	e_{CE} g_{CK} and e_{CK} and e_{CE} e_{CK} and e_{CK} e_{CK} and e_{CK} and e_{CK} e_{CK} and e_{CK} and e_{CK} e_{CK}	AC HED 10 10 10 10 10 10 10 10 10 10	WITH O PPM RE SAI 3A · <u>and</u> RT MJ	5 HL ; MO, MPLES 10.0 <u>'RRE'</u> AILE	2-2- CO, 5 IF C 00 GM 90 G	2 HCL CD, S SU PB SAMPL Relies	HNO3 B, BI ZN AS E. AQ <u>t</u> Rer	$\frac{1}{2}$	AT 95 DE , U & B = K, AG > 3 EGIA, MIBH	G. C F(2,000 0 PPM = EXTRA GINED	DR ONE PPN; & AU > CT, AN BY.			GF/A	TO 10, MN, A.	$\frac{ML_{AS}}{AS}, V$ $\frac{VE_{AS}}{S}$	ANALY LA, LEONI	SED B CR =	WANG	-ES. 100 PP ; CER (ES	4. TIFIEC) B.C.	. ASS	AYERS	

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Date FA

Appendix 2. Analytical Data, Drill Core Samples

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P.04/04

5'99 10:55 FR ACME LABS

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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.