SUMMARY REPORT

ON THE

GOZ CREEK PROPERTY

Mayo Mining District
Yukon Territory

N.T.S. 106-C-7 & 8
64°25'N; 130°30'W

FOR

BARRIER REEF RESOURCES LTD. (N.P.L.)
VANCOUVER, B.C.

BY

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DECEMBER, 1974

→ VOLUME III - DIAMOND DRILLING
(NOTES AND LOGS)

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OPERATIONAL NOTES

ON DIAMOND DRILLING

From July 3rd to September 16th, 6,643 feet of diamond drilling was completed in 20 inclined and vertical holes. These holes were confined to an area 1,100 by 750 feet covering most of the "A-B-H" mineralized outcrop trend. This drilling was directed toward determining the geological character of the "A, B and H" showings.

One diesel-powered BBS 12-A drill contracted from Canadian Longyear was operated in two twelve-hour shifts. The average footage per operating shift was 48 feet, maximum footage was 145 feet in a 12-hour shift. An average of 13 feet of overburden was penetrated and 78.7% of the core was recovered. Low core recovery is attributed to poor ground conditions encountered in the soft, crumbly altered or leached dolostone. Silicified sections, combined with poor ground conditions, accounted for the rate of penetration being lower than normal for carbonate rocks.

Improved core recovery in the blocky ground near the surface was obtained after the 10th hole by using BQ for the first 100 feet instead of AQ equipment. In any future drilling programme BQ Wireline should be used more extensively.

OPERATIONAL NOTES ON DIAMOND DRILLING (cont'd)

Drill core was transported in plastic core trays (AX-BQ) packed with polyester foam to ensure core stability. These trays were unsuitable for BQ core and the BQ-NQ size is recommended for future drilling.

All drill moves and servicing were by a Bell 47G-3B2 helicopter. Moving time was reduced to a minimum by the use of two drill platforms. Drill moves were completed in three hours when changing from an angle to a vertical hole or 8 to 12 hours, depending on flying conditions, when moving to a new location.

Holes #18 and 20 were lost due to caving before reaching their objectives resulting in the loss of 80 and 140 feet of rods plus core barrels.

Permafrost was encountered only in Hole #2 at a depth of 300 feet.

CORE LOGGING

PROCEDURE

A detailed log, combining written description and graphic representation on a scale of 1 inch equals 10 feet, was used for core logging. This method emphasized description rather than interpretation and allowed associations between lithology, structure and mineralization to be recognized more readily.

Particular attention was paid to the following features:

a) Mode of occurrence, colour, type and relative abundance of mineralization.

b) Estimated per cent sulphide and carbonate zinc by weight.

c) Estimated per cent sphalerite, smithsonite and pyrite by volume.

d) Alteration (leaching) and silicification.

e) Location and orientation of various structural features.

f) Lithologic features.

In the descriptive geology section recognizable units are identified and their general characteristics are described. To the left of this, observations applying to one location or over short intervals are noted. A drill log legend containing the columns, geographic symbols and abbreviations appears immediately preceeding the logs.

CORE LOGGING - Procedure (cont'd)

Core recovery was computed by measuring the length of core between footage blocks and calculating the percentage this represented of the footage drilled. Where assays were taken the per cent core recovery was recalculated for the sample interval.

A rough log of each hole was prepared on a daily basis. This gave a generalized lithologic breakdown of the hole, estimated quantities of zinc mineralization and sample intersections.

DESCRIPTION OF LITHOLOGIES AND TEXTURES

The only rock type represented in the core is fine-to medium-crystalline, light-to medium-grey dolostone. It was subdivided into recognizable units on the basis of major textural features.

Subdivisions having primary depositional features are:

ARENACEOUS DOLOSTONE

This subdivision occurs in the lowermost part of the stratigraphic section penetrated by the drill only in Hole #12. Very fine-to coarse-grained, subangular-to well-rounded and poorly sorted sand grains are set in a matrix of slightly mottled micritic dolostone. Sand content is patchy and varies locally from a few per cent to over 40 per cent.

CORE LOGGING
Description of Lithologies and Textures (cont'd)

MICRITIC DOLOSTONE

Micritic dolostone occurs above the arenaceous dolostone. It is composed of light-to medium-grey, fine crystalline, homogeneous dolostone and is generally conspicuous in its lack of any definite textural feature. Locally it may be mottled with irregular dolostone patches having a slightly darker hue.

PISOLITIC DOLOSTONE

Pisolotic dolostone is composed of well rounded, spherical to enlongated, very light grey pisolites 3 to 10 millimeters in diameter. These may be set in a matrix of micritic, speckled or pervasively silicified dolostone. Some or all of these pisolites may actually be oncolites, however, the distinction between the two has been obscured by secondary dolomitization.

SPECKLED AND WISPY BANDED DOLOSTONE

This is the uppermost unit intersected in all holes. It contains evenly distributed disseminated black specks and blebs and/or speckled blotches. Frequently these specks are preferentially oriented forming thin, undulatory, wispy bands.

INTRACLASTIC DOLOSTONE

Intraclastic dolostone consists of angular to subangular, frequently speckled, medium-to dark-grey dolostone fragments within a matrix of light grey dolostone. The fragments are very widely spaced. Very little of this unit was intersected.

Locally these subdivisions have been overprinted or obliterated by secondary textures resulting from the dolomitization process. These subdivisions so formed are:

CORE LOGGING
Description of Lithologies and Textures (cont'd)

INCLUSION DOLOSTONE

Inclusion dolostone is composed of irregular blebs of light-to medium-grey dolostone surrounded by white sparry dolomite. Boundaries of these blebs are usually indistinct, sometimes blending into white sparry dolomite. This subdivision occurs frequently and is mainly a modification of vuggy micritic dolostone.

PSEUDOBRECCIA

Pseudobreccia is the extreme case of inclusion dolostone in which white sparry dolomite and vug content are greater than 50 per cent. Commonly the remaining dolostone resembles coroded ghost like fragments. Pseudobreccia only occasionally occurs within inclusion dolostone sections.

The above subdivisions may have been subjected to further modification by tectonism or collapse. Subdivisions arising from these changes are:

DOLOSTONE BRECCIA

Dolostone breccia occurs in size ranges of fine, medium and coarse. The fragments are composed of light-to medium-grey, fine-to medium-crystalline dolostone and are frequently silicified and mineralized. The matrix is composed of sparry dolomite, white quartz and of sphalerite and smithsonite in mineralized sections. In the best mineralized zones the matrix is completely composed of sphalerite or smithsonite.

CRACKLE BRECCIA

This is a breccia in which the individual fragments can be visually fitted back together. The matrix consists of coarse crystalline, white sparry dolomite, white quartz, clear silica and frequently contain sphalerite and smithsonite.

CORE LOGGING
Description of Lithologies and Textures (cont'd)

INTRAFORMATIONAL BRECCIA

A primary breccia composed of angular fragments with rounded edges and a medium-to dark-grey dolostone matrix. The fragments locally appear to have been deformed and are composed of fine-to medium-crystalline, light-to dark-grey dolostone. Intraformational breccia occurs locally in any unit.

The entire sequence penetrated by the drill is, to varying degrees, silicified. For purposes of logging, dolostone was determined to be either partially silicified or pervasively silicified.

PARTIAL SILICIFICATION

This was determined by the presence of discrete blebs, streaks and fracture fillings of clear silica or by blebs and fracture fillings of a later white quartz.

PERVASIVE SILICIFICATION

This was determined by the presence of continuous sections of dolostone which could not be scratched by a steel blade. Pervasive silicification was generally associated with substantial amounts of sphalerite mineralization.

The last subdivision contains any of the above which were further modified by leaching.

ALTERED DOLOSTONE

This is a very soft, crumbly, yellow-to light-yellowish grey, very permeable dolostone resulting from leaching by percolating ground water. Altered dolostone is most commonly found in sections of fault breccia and sections which are heavily fractured.

CORE LOGGING
Description of Lithologies and Textures (cont'd)



FIGURE #1: Dolostone Textures.

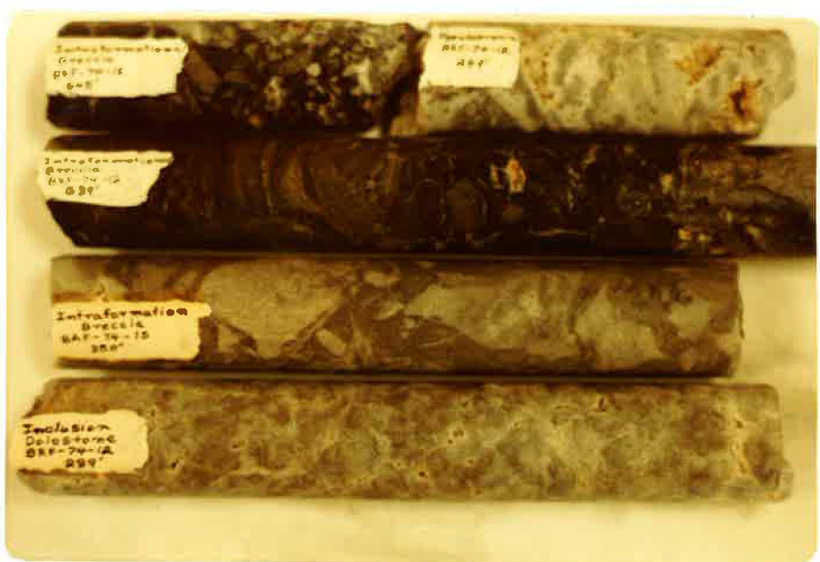


FIGURE #2: Intraformational Breccia, Pseudobreccia and Inclusion Dolostone.

CORE LOGGING
Description of Lithologies and Textures (cont'd)



Intraclastic Dolostone

Intraformational Breccia

FIGURE #3: Intraclastic Dolostone and Intraformational Breccia.



FIGURE #4: Altered Dolostone.

CORE LOGGING (cont'd)

Mineralogical Observations

The strongest sphalerite mineralization occurs within sections of pervasively silicified dolostone and dolostone breccia.

In the silicified dolostone sections sphalerite occurs mainly as fracture fillings, disseminated specks and blebs, and as coarse crystalline, massive aggregates. Locally the sphalerite is bedded. Some sections are so completely mineralized that original textures have been obliterated and it is therefore possible that many of these sections are actually breccias.

Sphalerite in pervasively silicified dolostone breccia sections is contained within the matrix associated with white sparry dolomite, white quartz and clear silica and frequently forms the complete matrix. In some breccia sections the fragments are also mineralized, usually with disseminated red sphalerite.

The lower grade mineralized sections most commonly contain sphalerite as fracture fillings usually accompanied with white quartz. Sphalerite also occurs as vug fillings or as disseminated specks and blebs associated with white quartz. Minor amounts of sphalerite occur within stylolites with pyrite and as specks within clear silica-filled fractures.

With a few minor exceptions silicified zones were always accompanied by sphalerite mineralization.

CORE LOGGING - Mineralogical Observations (cont'd)

The colour of sphalerite varies from yellow through green to red and occasionally to purple. Yellow and green sphalerite tend to occur mainly in the highest grade intersections without any specific associations. Red sphalerite which is the most abundant type occurs in association with creamy white quartz both in the higher and lower grade intersections.

The strongest smithsonite mineralization tends to occur in altered or partially altered zones within or near silicified sections which are also strongly mineralized with sphalerite. High grade smithsonite mineralization also occurs within weathered dolostone sections having a close proximity to heavily fractured zones, particularly those containing fault breccia. The colour of altered dolostone bears a general relationship to the amount of smithsonite it contains becoming increasingly more yellowish as the amount of soluble zinc increases.

Minor amounts of smithsonite also occur in open and closed fractures, particularly in highly fractured zones near the surface and surrounding zones of major sphalerite mineralization.

In general it appears that the more pervasively silicified the host unit, the greater the chance of finding sphalerite.

Galena and boulangerite were observed in only a few locations. Boulangerite occurs as long, thin, acicular crystals within well mineralized silicified sections. Galena occurs as local massive blebs.

CORE LOGGING - Mineralogical Observations (cont'd)

Only minor amounts of pyrite occur, mainly in stylolites, fractures and occasionally disseminated in the host rock. Although pyrite was locally associated with yellow sphalerite, it usually does not occur near the larger mineralized zones and does not appear to have any significant bearing on mineralization.

The major gangue mineral is coarse crystalline, white sparry dolomite. Calcite was not observed in the core.

MINERALIZATION TEXTURES

The mineralization textures found in the core were:

1) Massive crystalline sphalerite.

2) Disseminated sphalerite, smithsonite, boulangerite, galena and pyrite.

3) Euhedral crystalline sphalerite in vugs.

4) Sphalerite, smithsonite, pyrite and zinc oxide fracture fillings.

5) Bedded sphalerite.

6) Botryoidal and colloform sphalerite.

7) "Snow-on-roof" texture - sphalerite and pyrite lying on top of breccia fragments.

8) Pyrite stylolite fillings.

9) Acicular boulangerite crystals.

CORE LOGGING - Mineralization Textures (cont'd)



FIGURE 5: Altered speckled and wispy banded dolostone and smithsonite. DDH #1.



FIGURE 6: Pervasively silicified dolostone and sphalerite. DDH #6.

CORE LOGGING - Mineralization Textures (cont'd)



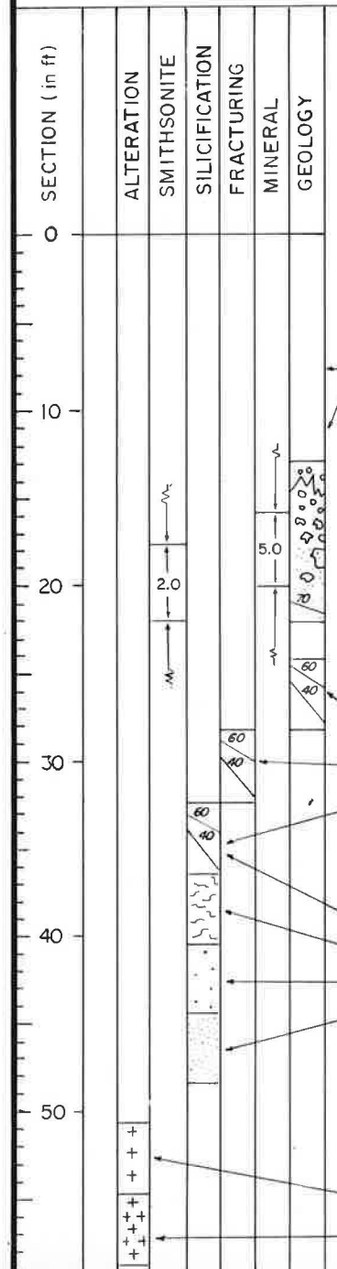
FIGURE 7: Silicified dolostone, sphalerite, smithsonite and post-ore quartz. DDH #20.



FIGURE #8: Silicified dolostone breccia with sphalerite matrix, silicified dolostone and disseminated sphalerite, and partially silicified dolostone.

CORDILLERAN ENGINEERING LIMITED — DRILL LOG LEGEND — 1974

SCALE 1" = 10'



COLUMNS

DESCRIPTIVE GEOLOGY

At the beginning of each recognizable unit whose lithologic name reflects the predominant textural feature of the unit a general description is given of lithologic, textural, structural and mineralogical features.

Minor changes in geology or changes in core condition occuring over considerable lengths of the unit are noted as subunits.

Notes with arrows immediately to the right of the geology column indicate local features or associations.

GEOLOGY

Graphically shows lithologic, structural and textural features as well as type, extent and association of minerals.

MINERAL + SMITHSONITE

Gives estimated percent Sphalerite and Smithsonite by volume.

FRACTURING

Fractures are shown in three columns depending upon their infillings:

- mineralized fractures.
- white sparry dolomite healed fractures.
- clear silica or creamy white quartz healed fractures.

SILICIFICATION

Partial silicification: discrete clear silica or creamy white quartz:

- fracture fillings
- streaks
- specks and blebs
- Pervasive silicification

ALTERATION

Light yellowish grey to yellow, soft, crumbly and extremely porous leached dolostone caused by percolating ground water.

- partial or local alteration
- total alteration

GRAPHIC SYMBOLS

MINERALIZATION

SPHALERITE

- Massive
- Disseminated
- vug fillings
- fracture fillings

SMITHSONITE

- Disseminated
- fracture fillings

GALENA, BOULANGERITE and ZINC OXIDE

Noted beside geology column

PYRITE

Noted by grade in estimated percent Fe sulphides column.

STRUCTURE:

- planar laminations
- convolute laminations
- closed fracture
- open fracture
- fracture network
- Stylolites

LITHOLOGY

BRECCIA

- Fine breccia fragments < 1/2"
- Medium breccia fragments 1/2 – 3"

LITHOLOGY (cont)

BRECCIA (cont.)

- Coarse breccia fragments > 3"
- Crackle breccia
- Breccia with:
  - pisolitic fragments
  - laminated fragments
  - mineralized fragments
- Intraformational breccia
- Dolostone
- Arenaceous Dolostone

TEXTURE:

- Pisolitic
- Speckled and wispy banded, intraclastic, inclusion and micritic textures are indicated by arrows.

MISCELLANEOUS:

- Overburden
- Description applies to one location only
- Description applies to full length of core between arrows unless otherwise indicated by symbols.

ABBREVIATIONS

COLOR

r	red
y	yellow
gy	grey
wh	white
bk	black
br	brown

HUE

v lt	very light
lt	light
med	medium
dr	dark

CRYSTALLINITY and GRAIN SIZE

xtal	crystal
xtalline	crystalline
gn	grain
fn	fine
med	medium
co	coarse
v co	very coarse

BEDDING

thinly laminated	< 2 mm thick
laminated	2 mm – 1 cm thick
very thinly bedded	1 cm – 5 cm thick
thinly bedded	5 cm – 60 cm thick
thickly bedded	60 cm – 120 cm thick

MINERALOGY

sph	sphalerite
gl	galena
py	pyrite

MISCELLANEOUS

dol	dolomite
dolo	dolostone
sec	secondary
frag(s)	fragment(s)
frac(s)	fracture(s)
lam(s)	lamination(s)
rx	rock
tex	texture
argil	argillaceous
qtz	quartz
diss	disseminated
w	with
min	mineral / mineralization

ESTIMATED GRADE

tr	trace
v.w.	very weak
w	weak
m	moderate
str	strong
v. str	very strong

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74 - 1 | CLAIM: DUO 4 | PROPERTY: Goz Creek | OVERBURDEN: 15.1' | PAGE No. 1 of 6

ELEVATION: 4,665.1 | SECTION: 10 + 100 | DATE STARTED: July 3, 1974 | CONTRACTOR: Longyear | LOGGED BY: G. G. Webb

NORTHING: 157,864.2 | INCLINATION: collar −45° 331' −42° | DATE FINISHED July 5, 1974 | CORE SIZE: AQ | SCALE: 1" = 10'

EASTING: 77,843.2 | AZIMUTH: 60° | TOTAL DEPTH: 331' | % CORE RECOVERY: 73% | CORE STORED AT: Camp

COMMENTS: stick up: 4.9'

Sample tag numbers: 14001 - 020, 14178 - 186

Hole Summary

20.0 - 30.0	Speckled Dolo, $ZnCO_3$ in open hairline fracs.
30.0 - 70.0	Fault Breccia, 60°? altered dolo. $ZnCO_3$
70.0 - 104.0	Speckled Dolo, $ZnCO_3$ in open hairline fracs
104.0 - 111.5	Silicified Dolo, minor diss. + frac. ZnS
111.5 - 177.0	Altered Dolo., 4135, $ZnCO_3$
177.0 - 244.5	Dolo. Brx.; Best mm, diss + matrix ZnS
244.5 - 331.0	Speckled Dolo, minor ZnS in fracs near top

DESCRIPTIVE GEOLOGY

4.9 - 20.0 Overburden

20.0 - 30.0 Speckled Dolostone

fn xtalline, lt. - med gy, open hairline fractured dolo. Local silicification and wispy bands

mineralization: smithsonite in hairline fracs. and with wh. qtz in fracs.

core quite broken up.

30.0 - 70.0 Fault Breccia

very small angular frags. < ½" frags, generally dr. gy. dolo. with a [illegible] yellow dolo. very porous and crushed

mineralization: Smithsonite in breccia matrix increasing as the color becomes more yellowish

core locally broken up into very small pieces

45-67 matrix has a yellowish brown color. very crumbly.

creamy wh. qtz button

vugs within creamy wh qtz.

creamy qtz blebs

silicified frags.

SECTION	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS/ZnCO3	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
10									
20	20.0		20.0						
		30%	178	30%	<.25 / .50	0.19	0.17	0.02	
30	30.0	75%	30.0						
		18.5%	179	24%	<.25 / 1.0	0.13	0.12	0.01	
40	37.0		37.0						
		25.5%							
	45.0	11.5%	001		<.25 / 5.0	3.32	3.32	0.00	
	48.0	26.5%		26%					
50	51.0	24%							
	55.0	36.5%							
	58.0	25%							
60									

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-1 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 2 of 6

COMMENTS:
Sample Tag Numbers : 14001 - 14006

DESCRIPTIVE GEOLOGY

30.0 - 70.0 Fault Breccia

1/2" wh. qtz bleb

70.0 - 104.0 Speckled Dolostone

slightly Fractured

med gy altered dolo

wh. creamy qtz.

fm xtalline, lt-med gy. locally siliceous dolo. black speckled texture locally becoming wispy banded speckled texture decreases past 92' and core becomes lighter gy. in color. past 98' alteration progressively increases

mineralization: ZnCO3 occurs in open hairline fracs and appears to increase past 92' as the number of open hairline fracs. and alteration increase.

Zn O vuggy wh. creamy qtz. dr. gy. 1/8" bands 45°

104.0 - 111.5 Silicified Dolostone

fm xtalline, lt-med gy, pervasively silicified dolo.

mineralization: disseminated r. sph and smithsonite. minor frdc. r. sph.

111.5 - 177.0 Altered Dolostone

Altered speckled + wispy banded tex.

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / ZnCO3	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
61.0	25%							
	26.5%	001	26%	<.25 / 5.0	3.32	3.32	0.00	
64.0	35%							
67.0	25%							
68.0								
70.0	41%			<.25 / 2.0				
		002	60%		0.85	0.85	0.00	
75.0	75%							
77.0	93.5%							
80.0	72%							
83.0								
87.0	96%	003	87%	<.25 / 4.0	1.11	1.08	0.03	
97.0	63%	004	63%	<.25 / 5.0	3.20	3.20	0.00	
98.0								
103.0								
105.0	100%							
106.0	45%							
107.0	60%	005	68%	.50 / 1.0	3.90	3.45	.45	
109.0	83.5%							
113.0								
115.0	72%	006	66%	<.25 / 5.0	3.40	3.40	0.00	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-1 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 3 of 6

COMMENTS:
Sample tag numbers: 14006 - 14011

DESCRIPTIVE GEOLOGY

111.5 - 177.0 Altered Dolostone

Altered + Wispy Banded Tex

- wispy bands 45° mineralized open hairline Frac. network.
- Fn xtallime, lt. yellowish gy. altered dolostone. generally very porous and specked to wispy banded frequently slightly silicified. 2-1' sections of unaltered silicified dolo. 1-3' sections of dolo. breccia with small (⅛"-1") frags. with a smithsomite matrix.
- mineralization: mainly $ZnCO_3$ disseminated in altered dolo. and occasionally along open hairline fracs. In breccia sections $ZnCO_3$ bearing dolo. forms the matrix. Sphalerite occurs within frac. breccia and disseminated in unaltered silicified dolo.
- 4" ZnO
- lt. gy. frags. ⅛"-1"
- mineralization in hairline frac. network
- wispy banding 55°
- wh. creamy qtz. with qtz xtals. in vugs.
- disseminated Sph.
- r. sph in frac. breccia
- y. sph disseminated in silicified dolo.
- vuggy altered dolo above + below

Note Sample 14010 was also sampled for Ca-Mg-SiO_2 ratio.

- wispy banded 60°
- wh. dolo. blebs in vuggy altered dolo.
- white creamy qtz. blebs

177.0 - 244.5 Dolostone Breccia

SECTION	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (ZnS / ZnCO3)	ASSAYS: % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
120									
	125.0	72%	006	66%	<.25 / 5.0	3.40	3.40	0	
130	128.0	44.5%							
	133.0	18.5%							
	136.0	42.5%	007	49.5%	<.25 / 3.0	1.32	1.32	0	
140	140.0	98.5%							
	143.0								
	147.0	93.5%	008	95%	<.25 / 5.0	0.74	0.62	0.12	
150	157.0								
	158.0	95%	009	94%	1.0 / 10.0	6.80	4.20	2.60	
160	167.0								
	168.0	86%	010	86.5%	.25 / 8.0	8.40	8.00	0.40	
170	177.0	90%	178.0 011	68.5%	15.0 / 1.0	22.52	2.00	20.52	
180									

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-1 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:

Sample tag numbers: 14011-14016

DESCRIPTIVE GEOLOGY

177.0-244.5 Dolostone Breccia

sphalerite matrix

silicified frags

Silicified fm xtalline, med-dr. gy dolo. frags. ¼"-6" long with a matrix of y. sph. r. sph appears to fill voids which were later completely filled with white creamy qtz.. Fragments generally show evidence of not having been displaced far from their original position. past 213 Fragments become increasingly more difficult to recognize due to greatly increased amounts of sphalerite.

Mineralization: mainly y. sph disseminated in breccia frags and forming the breccia matrix. r. sph also occurs associated with wh. creamy qtz. Bedded disseminated sph. in frag? or silicified dolo? at 233-234.5

201-205 Altered Dolostone speckled and wispy bk banding textures. Lt yellowish-gy color. disseminated $ZnCO_3$

210-213 Altered Dolostone uniformly textured. lt. yellow color.

223-244.5 Frags very difficult to recognize

233-234.5 disseminated sph. along laminations either in frag. or silicified dolo.

181.5-195.6 core badly broken up
206-210 " " " "
213-223 " " " "

bk wispy banding 35°

distinctive brn. banding in altered dolo. 70°

r. sph. in wh. creamy qtz.

mainly r. sph. ground core cover entire length

$ZnCO_3$ along fracs. 50°

Zn o.

lam frag 55° or lam dolo.? sph along lams.

$ZnCO_3$ Frac. Fillings

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE Zn_S/Zn_{CO_3}	ASSAYS % Zn Total	% Zn Soluable (Zn_{CO_3})	% Zn (Zn_S)	%
180.0								
182.0	90%							
184.0	40%	011	68.5%	15.0 / 1.0	22.52	2.00	20.52	
187.0	66.5%							
188.0								
191.0	46%							
193.5	68%			25.0 / .50				
195.5	82.5%	012	77.5%		25.68	1.60	24.08	
201.0	97.5%							
205.0		013	97.5%	1.0 / 5.0	9.40	8.40	1.00	
206.0	90%							
207.0		014	79%	5.0 / 10.0	31.50	27.60	3.40	
213.0	74.5%							
217.0								
218.0	55%	015	76%	20.0 / 1.0	32.40	4.80	27.60	
223.0	81%							
232.0	113.5%	016	107%	30.0 / 1.0	32.40	2.00	30.40	
238.0	96.5%							
		017	97.5%	40 / .25	30.00	0.82	29.18	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-1 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 5 of 6

COMMENTS:

Sample Tag Numbers: 14017 - 14020
14180 - 14183

DESCRIPTIVE GEOLOGY

177.0 - 244.5 Dolostone Breccia
sphalerite matrix
silicified frags

244.5 - 331.0 Speckled, Dolostone
Fractured, Partially Silicified

Fm xtalline, lt-med gy. partially silicified dolo. Local crackle breccia with p wh sparry dolomite matrix or o lt gy dolo. matrix. local blotchy texture probably caused by the silicification process. considerable hairline fracs healed with clear silica mineralization: mainly m. sph. fracture fillings and occasionally disseminated specks of m. sph. minor $ZnCO_3$ in fractures. Trace pyrite, occuring with sph. in fracs. or alone in stylolites.

- 1/4" frac 1-3% sph
- hairline frac py in frac.
- Zn0 in broken core
- banded dolo 55° intraclastic
- 1/4" m. sph frac.
- creamy wh. qtz with dr. gy dolo frags.
- $ZnCO_3$ in open fracs.
- 1/2" m. sph filled fracs. colliform ZnS.
- banding 50° sph along bands 3"
- Smow. on crest tex.

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (ZnS / $ZnCO_3$)	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
242.5	96.5%	017	97.5%	40.0 / .25	30.00	0.82	29.18	
245.0	99.5%							
252.5		018	99.5%	.75 / .50	3.40	0.46	2.94	
260.0	99.5%							
263.0		019	99.5%	.50 / .50	4.00	1.10	2.90	
270.0	99.5%							
271.0	50%							
274.0	45.5%							
275.0	50%							
276.0		020	69%	.20 / .25	0.40	0.32	0.08	
280.0	87%							
283.0		180	80%	0.75 / 0.25	0.71	0.11	0.60	
285.0	70%							
286.0	37.5%							
288.0		181	45.5%	0.50 / 0.25	0.39	0.07	0.32	
290.0	41%							
292.0		182	68%	6.0 / 1.5	3.56	0.62	2.94	
296.0	81%							
		183	81%	.50 / .50	0.53	0.19	0.34	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-1 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 6 of 6

COMMENTS:

Sample Tag Numbers: 14183-14186

DESCRIPTIVE GEOLOGY

244.5-331.0 Speckled Dolostone
Fractured, Partially Silicified

- qtz. xtals. in vug
- y. sph w. Py. along stylolite
- minor intraclasts
- 2" pervasively silicified band.
- r. sph in Frac w. qtz.

End of BAF-74-1

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % SULFIDES Fe	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / ZnCO3	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
300					Sph		Tr.	301.5	81%							
										183	81%	.50 / .50	0.53	0.19	0.34	
								304.0	76%							
								305.0	96.5%							
								307.0								
310										184	95.5%	<.25 / <.25	0.13	0.11	0.02	
									95%							
								312.0		185	96.5%	.50 / <.25	0.80	0.08	0.72	
320								315.0								
									95.5%							
										186	92.5%	.25 / <.25	0.19	0.07	0.12	
								327.0								
									87.5%							
331								331.0		331.0						

BARRIER REEF RESOURCES LTD. (NPL) GOZ CREEK PROPERTY NTS 106C

NADALEEN RIVER AREA, MAYO MINING DISTRICT YUKON TERRITORY

DIAMOND DRILL SUMMARY RECORD

BY

CORDILLERAN ENGINEERING LTD. - 1418 - 355 BURRARD ST. VAN. B.C.

HOLE No.	NORTHING	EASTING	ELEVATION	SECTION	INCLINATION	AZIMUTH	OVERBURDEN	CLAIM	% RECOVERY	DATE STARTED	DATE FINISHED	REMARKS	TOTAL DEPTH	TOTAL FOOTAGE
BAF 74-1	157,864·2	77,843·2	4665·1	10+100	Collar -45° 331'-42°	60° unchecked in hole	Stickup 4·9 15·1	DUO 4	73·0	Day Shift July 3	Night Shift July 5		331'	331'
BAF 74-2	157,952·4	77,781·8	4664·7	10+000	Collar -45° 337'-46°	60° unserveyed	Stickup 6·7 13·3	DUO 4	69·5	Day Shift July 7	Day Shift July 10	Permafrost at 300'	337'	668'
BAF 74-3	158,039·7	77,735·5	4643·9	9+900	Collar -45° 305'-45°	60°	Stickup 4·5 15·5'?	DUO 4	64·5	Day Shift July 11	Day Shift July 14		305'	973'
BAF 74-4	157,795·6	77,908·3	4657·8	10+200	Collar -45° no test	60°	Stickup 4·5 15·5'?	DUO 4	78·5	Day Shift July 15	Day Shift July 18		328'	1301'
BAF 74-5	157,709·6	77,962·1	4652·4	10+300	-45°	60°	Stickup 4·5 15·5	DUO 4	83·0	Day Shift July 19	Night Shift July 20		287'	1588'
BAF 74-6	157,693·2	78,345·3	4563·7	10+500	-45°	60°	Stickup 6·5 7·5	DUO 2	75·0	Day Shift July 22	Day Shift July 23		203'	1791'
BAF 74-7	157,689·6	78,338·2	4565·2	10+500	-90°	—	Stickup 3·3 8·7	DUO 2	84·0	Day Shift July 23	Night Shift July 24		203'	1994'
BAF 74-8	157,791·6	78,522·3	4537·3	10+500	-90°	—	Stickup 2·6 12·4	DUO 2	71·5	Day Shift July 26	Day Shift July 28		145'	2139'
BAF 74-9	157,603·4	78,169·8	4624·1	10+500	-90°	—	Stickup 1·4 12·6	DUO 4	91·5	Day Shift July 29	Day Shift July 30		328'	2467'
BAF 74-10	157,645·9	78,256·3	4602·9	10+500	-90°	—	Stickup 2·6 8·4	DUO 4	83·0	Day Shift July 31	Day Shift Aug 1		206'	2673'
BAF 74-11	157,821·8	77,752·2	4679·1	10+100	Collar -45° 300' -46° 600' -45°	60°	Stickup 2·5 13·5	DUO 4	80·5	Day Shift Aug 3	Day Shift Aug 9	BQ to 107' AQ 107-675'	675'	3348'
BAF 74-12	157,820·0	77,747·8	4680·0	10+100	-90°	—	Stickup 1·5 16·5	DUO 4	79·0	Day Shift Aug 9	Day Shift Aug 15	BQ to 33' AQ 33'-712'	712'	4060'
BAF 74-13	157,775·6	77,665·9	4677·9	10+100	-90°	—	Stickup 2·5 16·5	DUO 4	90·0	Day Shift Aug 16	Day Shift Aug 18	BQ to 81·5' AQ 81·5'-335'	335'	4395'
BAF 74-14	157,588·5	78,364·6	4555·6	10+600	-45°	60°	Stickup 10·0 12·0	DUO 2		Day Shift Aug 19	Night Shift Aug 25	BQ to 68' AQ 68'-331' water line froze	331'	4726'
BAF 74-15	157,584·1	78,356·1	4558·5	10+600	-90°	—	Stickup 3·9 6·1	DUO 2	88·5	Night Shift Aug 25	Night Shift Aug 27	BQ to 48' AQ 48'-383'	383'	5109'
BAF 74-16	157,493·2	78,400·4	4538·1	10+700	-50°	60°	Stickup 6·8 3·2	DUO 2	81·5	Day Shift Aug 29	Night Shift Sept 1	BQ to 42' AQ 42'-433'	433'	5542'
BAF 74-17	157,490·2	78,393·8	4540·0	10+700	-90°	—	Stickup 3·2 4·8	DUO 2	93·0	Night Shift Sept 1	Day Shift Sept 4	BQ to 33' AQ 33'-272'	272'	5814'
BAF 74-18	158,250·9	77,498·0	4611·2	9+600	-45°	60°	Stickup 7·5 30·5	DUO 4	29·0	Day Shift Sept 6	Day Shift Sept 7	BQ to 51' AQ 51'-147' hole caved in, 4' core left in hole	147'	5961'
BAF 74-19	158,247·7	77,492·9	4613·4	9+600	-90°	—	Stickup 2·5 16·6	DUO 4	75·0	Day Shift Sept 7	Day Shift Sept 12	BQ to 75' AQ 75'-394'	394'	6355'
BAF 74-20	157,820·5	77,749·5	4679·5	10+100	-67°	60°	Stickup 1·8 20·2	DUO 4	78·0	Day Shift Sept 14	Day Shift Sept 16	BQ to 116' AQ 116'-288' hole sanded in	288'	6643'
						Average Overburden	13·2	Average % Recovery	78·7				Total Footage	6643'

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRC 74-2 | CLAIM: DUO 4 | PROPERTY: Goz Creek | OVERBURDEN: 13.3' | PAGE No. 1 of 6

ELEVATION: 4664.7 | SECTION: 10+000 | DATE STARTED: July 7, 74 | CONTRACTOR: Longyear | LOGGED BY: G.G. Webb

NORTHING: 157,952.4 | INCLINATION: -45° @ collar, -46° @ 337' | DATE FINISHED July 10, 74 | CORE SIZE: AQ | SCALE: 1" = 10'

EASTING: 77,781.8 | AZIMUTH: 60° | TOTAL DEPTH: 337' | % CORE RECOVERY: Total 69.5%, 20-140' 30%, 140-337' 94% | CORE STORED AT: Camp

COMMENTS: stick up 6.7'; permafrost 300'. Sample tag nos.: 14081-37, 69-74

Hole Summary

20.0-33.0	Altered Dolo diss. $ZnCO_3$
33.0-114.0	Fault breccia. Altered dolo. diss $ZnCO_3$
114.0-121.5	Altered Dolo. diss: $ZnCO_3$
121.5-196.0	Transitional. silicified, mainly $ZnCO_3$, good ZnS
196.0-269.0	Silicified Dolo frac. good diss ZnS
269.0-311.0	Speckled Dolo. altered from 306 Frac ZnS
311.0-328.0	Silicified Dolo, good ZnS
328.0-337.0	Speckled Dolo. minor Frac ZnS, $ZnCO_3$

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
10					Sph		6.7 - 20.0 Overburden										
20							20.0-33.0 Altered Dolostone lt. gy. with a tinge of yellow very porous altered and partially altered. core heavily broken up mineralization: Smithsonite disseminated within dolo.		20.0 22.0 27.0 30.0 32.0 33.0	32.5% 11.0% 21.5% 42.5%	20.0 069 41.0	32%	<.25 .50	0.15	0.12	0.03	
30							33.0 - 114.0 Fault Breccia Altered Dolostone yellowish gy - lt. gy. soft crumbly, extremely porous dolo. frags are generally lt. gy and frequently speckled. matrix is yellowish gy - lt. gy. Frequent open hairline fracs. 33.0-114.0 core severly broken up and crushed into small pieces. mineralization: Smithsonite disseminated throughout the matrix.		37.0 41.5 43.0 49.0 54.0 60.0	66.5% 40% 60.5% 35% 37%	070 60.0	27%	<.25 1.00	0.09	0.07	0.02	
40																	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF 74-2 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:
Sample tag numbers: 14071-14073

DESCRIPTIVE GEOLOGY

33.0 - 114.0 Fault Breccia
Altered Dolostone

33.0 - 114.0 core severely broken up and crushed into very small pieces

creamy wh qtz. blebs

114.0 - 121.5 Altered Dolo.
yellowish grey dolo with frequent blebs + hairline fracs of qtz.

¼" creamy wh qtz seam + qtz blebs.

SECTION	Alteration	Silicification	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE $ZnS/ZnCO_3$	ASSAYS % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
60							60.0		60.0						
							64.0	56%							
							67.0	31.5%							
							68.5	6.5%			<.25				
70							71.0	62%	071	31.5%		0.10	0.08	0.02	
							73.0	25%			.50				
							74.0	5%							
								12.5%							
80							82.0		82.0						
							84.0	10%							
							87.0	5%							
								5%							
90							91.0	75%	072	9%	<.25	0.76	0.72	0.04	
							93.0	26.5%							
							94.5	24%			.50				
							97.0	5%							
100							103.0		103.0						
							107.0	7.5%							
								19%			.25				
110							111.0		073	26.5%		4.96	4.72	0.24	
							114.0	10%			4.0				
							117.0	70%							
								28%							
120															

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF 74-2 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:

Sample tag numbers: 14021-14024

DESCRIPTIVE GEOLOGY

114.0-121.5 Altered Dolostone

121.5-196.0 Transition Zone

Silicified

maimly silicified fractured dolostone containing: frac. fillings of r. + yl sph, dissemimated sph and frac fillings of yellowish dolomite with smithsomite This alternates with much shorter sections of frequemly partially silicified altered dolo. containing smithsomite. Local breccia with lt. gy dolo. and med gy cherty frags in a limmed gy mimitic matrix. Silicification texture may be responsible for some of the breccia appearing core especially where rounded frags with fussy boundaries occur.

121.5-140 core broken up and ground

Mineralization:

Maimly smithsomite dissemimated in altered dolo, silicified dolo, in breccia matrix? and in fracs and frac. networks y. sph occurs as frac. fillings and dissemimated throughout the dolo. r. sph occurs maimly with wh. creamy qtz.

mineralized core ground at 140, 149, 150, 152, 154, 157, 165'

weathered honeycombed silicified dolo.

qtz. blebs

yellow alt. dolo with diss. $ZnCO_3$

r. sph in fracs w. wh. creamy qtz.

yellowish grey dolo with minor $ZnCO_3$, boulangerite? Am? ZnS ppt along stylolites sph

lams? 30° wh creamy qtz

frac 45° wh creamy qtz.

1/4" mim frac.

honeycombed rotten silicified dolo + altered dolo.

altered dolo silicified dolo frags, honeycombed qtz.

Tr.

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (ZnS / $ZnCO_3$)	ASSAYS % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
121.5	28%	073	26.5%	.45 / 1.0	4.96	4.72	0.24	
122.0								
124.0	64%							
126.0	30%			.50 / 1.0				
	23%	074	31.5%		4.92	4.16	0.76	
130.0								
	23%							
136.0								
137.0	40%							
138.0	42.5%	021	59%	.75 / 1.5	8.56	5.84	2.72	
140.0	58%							
143.0								
	101.5%							
147.0				12.0 / 1.0				
	106.9%							
150.0		022	91%		29.20	3.20	26.00	
	75%							
157.0								
158.0								
	91.5%	023	91.5%	3.0 / 3.0	14.96	4.32	10.64	
167.0								
	100%							
172.0		024	100%	0.50 / 4.0	4.80	3.52	1.28	
	105%							
177.0								
	91.5%							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-2 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 4 of 6

COMMENTS:

Sample tag numbers: 14024-14030

DESCRIPTIVE GEOLOGY

121.5-196.0 Transition Zone

Silicified

honey combed qtz. altered dolo. lams 20°?

smithsonite mainly along fracs.

pyritic stylolites

196.0-269.0 Silicfied Dolostone

Fractured

fn xtalline, med gy., locally fractured dolo. local breccia with lt. gy dolo frags. and a med. gy micritic matrix. frequent silica filled hairline fracs. fracs generally filled with wh. dolomite, locally fracs are mineralized, weak to moderate silicification texture, local bonding

mineralization:

mainly r. amdy. sph. disseminated within the dolo. r. sph also occurs as frac. fillings. smithsonite occurs locally as hairline frac. fillings.

stylolite with py

open hairline fracs with $ZnCO_3$

med gy dolo matrix

55°

1/8" sph seam 30°

bedded sph.? 35°

qtz + r. sph in vug

Tr

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn soluable ($ZnCO_3$)	% Zn (Zn S)	%
		024	100%	0.50 / 4.0	4.80	3.52	1.28	
182.0								
	91.5%							
187.0		025	91%	2.0 / 2.0	5.60	2.96	2.64	
	90.5%							
195.0								
197.0								
	81%	026	89%	3.5 / .25	5.04	0.61	4.43	
203.0								
206.0								
	100%	027	101%	.75 / .50	2.16	0.44	1.72	
213.0								
216.0								
	102%	028	102%	8.0 / .25	18.64	0.26	18.38	
223.0		283.0						
	100%	029	98%	1.5 / .25	2.40	0.27	2.13	
233.0								
	95.5%							
		238.0 030	99%	4.0 / —	5.36	0.15	5.21	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-2 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 5 of 6

COMMENTS:
Sample tag numbers: 14030-14034

DESCRIPTIVE GEOLOGY

196.0-269.0 Silicified Dolostone

Fractured

r. sph w. qtz in frac

bedding 35° thinly bedded

thinly bedded 35°

disseminated r. sph

qtz. xtals

qtz blebs.

lt. gy. dolo frags r. sph matrix

disturbed bedding 20° intraformational breccia

1" r. sph seam

269.0-306.5 Speckled Dolostone

Fractured

elongated r. sph blebs

banding 45°

r. sph w. wh creamy qtz.

vuggy

¼" r. sph frac

fn-med xtalline, lt-med gy dolo. with a speckled to wispy banded texture alternating with a uniform texture. Generally moderately fractured with a white calomite frac. filling. Frequent ½'-1' sections of silicified dolostone. The rock gradually begins to take on a more altered appearance from about 300' where the color changes from lt. gy to increasingly more yellowish gy.

Mineralization: mainly r. sph frac. fillings, minor r. sph. disseminated in unfrac dolo.

2555-2565 r. sph and Smithsonite appear to be disseminated together in lt. gy. dolo.

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / ZnCO3	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn ZnS	%
2540				50	Sph 30				95.5%							
						r. sph w. qtz in frac		243.0	100%			4.0 / -				
								245.5	135%							
		<25			1			246.5		030	99%		5.36	0.15	5.21	
								248.5	120%							
2550																
						bedding 35° thinly bedded			93.5%	254.0						
								257.0								
					10	thinly bedded 35°			101%	031	92%	8.0 / .50	10.40	1.92	8.48	
								261.0								
						disseminated r. sph		263.0	85%							
						qtz. xtals				265.0						
						qtz blebs.			80%							
						lt. gy. dolo frags r. sph matrix										
2560						disturbed bedding 20° intraformational breccia										
		-25						271.0		032	91%	2.0 / .25	6.40	1.06	5.34	
						1" r. sph seam										
					3.0				98%							
						elongated r. sph blebs										
2570						banding 45° r. sph w. wh creamy qtz.		281.0		281.0						
								283.0	90%							
					.75				96%	033	96%	.50 / -	1.40	0.46	0.94	
								287.0								
						vuggy										
2580									99.5%	291.0						
					.50					034	98%	.50 / -	1.51	0.91	0.60	
						¼" r. sph frac		297.0								
									96%							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-2 CLAIM: Duo 4 PROPERTY: Goz Creek PAGE No. 6 of 6

COMMENTS:

sample tag numbers : 14034 - 14037

DESCRIPTIVE GEOLOGY

269.0 - 306.5 **Speckled Dolostone**
Fractured
r. sph w. qtz.
60°?
mineralization: Smithsonite in open hairline fracs.

306.5 - 311.0 **Altered Dolostone**
r. sph frags
qtz + silicified dolo. frags
Yellowish gy. v. porous, weathered r. sph possible fault zone

311.0 - 322.0 **Silicified Dolostone**
white creamy qtz. w. $ZnCO_3$ r. sph badly ground.
r. + y. sph disseminated core v. broken up.
banded 60° v. thinly bedded?
fn xtalline, lt.-med gy heavily silicified dolo. banded core - bedding? 55-60°
mineralization: mainly r. + y. sph. disseminated in the dolostone and r. sph. frac. fillings.

322.0 - 337.0 **Speckled Dolostone**
Fractured
bedding? 55°
weathered r. sph.
fn-med xtalline, lt-med gy fractured dolo. with a speckled to wispy banded texture. Slight alteration from 325-334 becoming heavy locally.
mineralization: mainly smithsonite in open hairline fracs, occasionally disseminated in altered dolo

End of BAF-74-2

SECTION	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE $ZnS / ZnCO_3$	ASSAYS % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn ZnS	%
300			034 301.0						
		96%			1.0				
			035	82%	/	5.76	4.32	1.44	
	307.0				3.0				
310		65.5%	312.0						
	315.0				12.0				
		100%	036	86%	/	18.00	2.08	15.92	
	317.5				.50				
		91%							
320			322.0						
	323.5								
		100%			.25				
	327.0		037	95%	/	1.41	0.80	0.61	
		93.5%			1.0				
337			337.0						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-3 | CLAIM: DUO 4 | PROPERTY: Goz Creek | OVERBURDEN: 15.5' | PAGE No. 1 of 4

ELEVATION: 4,643.9 | SECTION: 9+900 | DATE STARTED: July 11, 74 | CONTRACTOR: Longyear | LOGGED BY: G. G. Webb

NORTHING: 158,039.7 | INCLINATION: collar: -45° 305': -45° | DATE FINISHED July 14, 74 | CORE SIZE: AQ | SCALE: 1" = 10'

EASTING: 77,735.5 | AZIMUTH: 60° | TOTAL DEPTH: 305' | % CORE RECOVERY: Total: 64.5% 0-97: 6.5% 97-305: 86.0% | CORE STORED AT: Camp

COMMENTS: Stick up: 4.5'
Core recovery in mineralized section (112'-258.5') = 89.5%
Sample tag numbers: 14038-14051

Hole Summary
97-171 Silicified Dolo strong diss. ZnS
171-184 Partially Altered Dolo weak frac $ZnCO_3$
184-207 Altered Dolo strong diss. $ZnCO_3$
207-225 Partially Altered Dolo strong ZnS, $ZnCO_3$ in fracs and diss.

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS/$ZnCO_3$	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
97							4.5-20 Overburden 20-97 Dolostone core very broken up and ground. core recovery: 6.5% 20-~70 unsilicified, fm xtalline, lt. gy. dolo. ~70-97 silicified, fm xtalline med-dk gy. dolo. altered dolo at 72' containing $ZnCO_3$		97.0		97.0						
100		0.5			1.0		97-171 Silicified Dolostone Strongly Mineralized fm xtalline, med.-dk. gy silicified dolostone. locally fractured and locally appears to be brecciated. The strong mineralization obscures the textures in the core. from 97-106 the rx. is highly weathered leaving honeycombed dolo. and a limonitic stain weathered dolo, very vuggy limonite stain + ZnO. weathered r.sph? qtz seam with weathered out r. sph. creamy wh qtz. seam clear qtz xtals with sph. seam chert frags mineralization: r+y. sph. massive, disseminated and fracture and breccia fillings. locally 1-2' sections of strong smithsonite mineralization ZnO coating on the entire length of section.		106.0	39.5%	038	56%	2.0 / .50	15.20	2.92	12.28	
110									108.0	55%							
									110.0	100%							
		1.0			5				113.0	88.5%	112.0						
										95%							
120					30				117.0	130%	039	99%	25 / .75	27.20	1.80	25.40	
									118.0								
										99%							
					5				127.0		127.0						
130										94%	040	95%	17.0 / 1.0	25.20	3.76	21.44	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-3 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:

Sample tag numbers: 14040-14045

Hole Summary (Cont.)

225-258.5 Silicified Dolo Strong diss ZnS
258.5-287 micritic Dolo. weak $ZnCO_3$, ZnS near top.
287-305 Partially Silicified Dolo. Weak r. sph.

Note - Amount of ZnO may have effect on assays

DESCRIPTIVE GEOLOGY

97-171 Silicified Dolostone
Strongly mineralized

½" qtz bleb

honeycombed dolo. containing ZnS, $ZnCO_3$

thinly bedded 35°

ZnO bleb

thinly bedded

171-184 Partially Altered Dolostone

fn xtalline, lt. gy highly fractured and partially altered dolostone. amount of alteration increases gradually until the rock is completely altered at 184.

banding 55° mineralization: mainly smithsonite, frac. filling and minor disseminated r. sph.

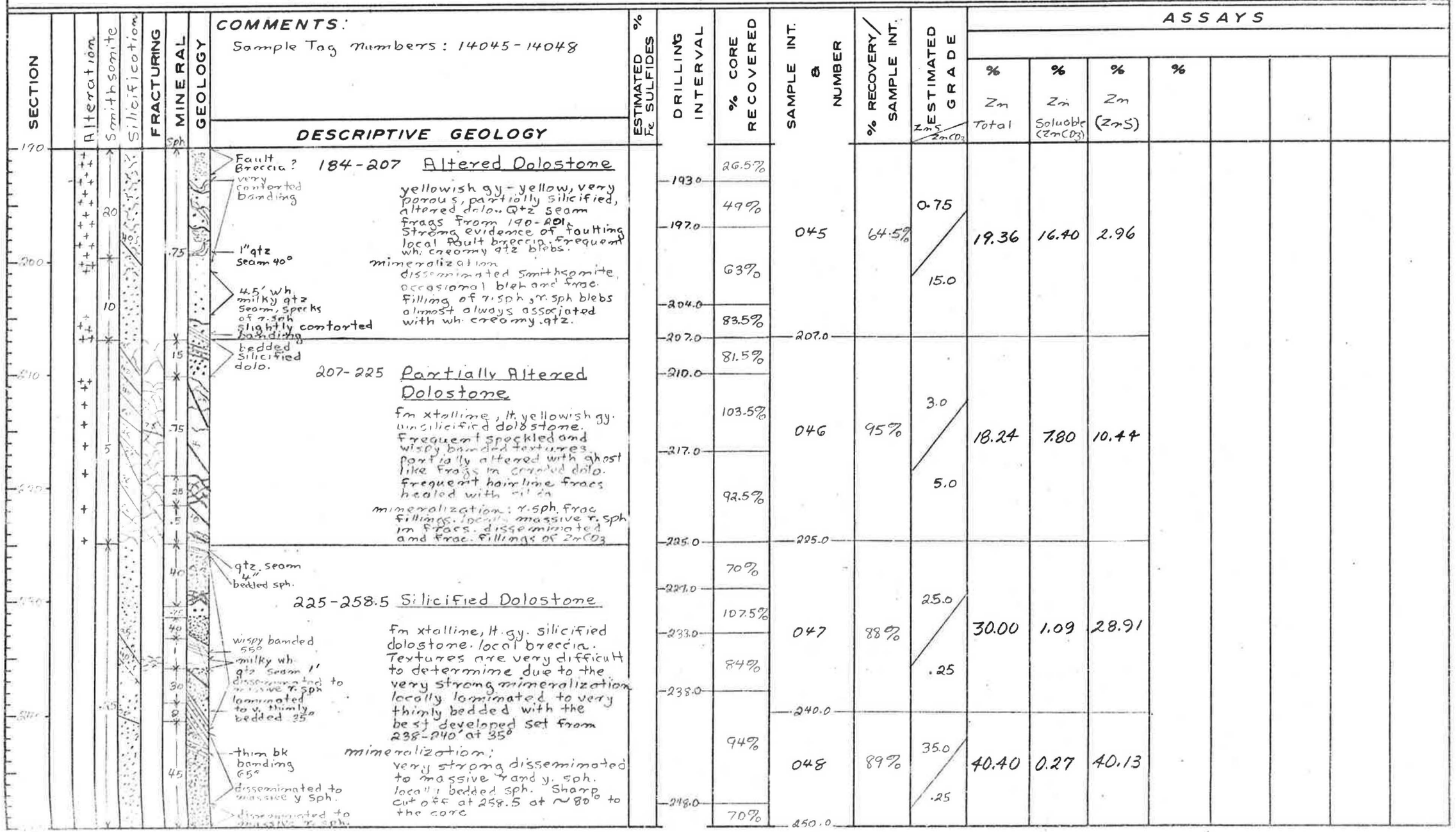
weathered out r. sph. 184-207 Altered Dolostone

wh. creamy qtz bleb

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
130								
134.0	94%							
	96.5%	040	95%	17.0 / 1.0	25.20	3.76	21.44	
140.0		140.0						
	103%	041	103%	35.0 / .25	43.60	0.60	43.00	
150.0		150.0						
154.0	101%	042	100%	20.0 / .25	21.60	0.24	21.36	
155.5	106.5%							
	91%	152.0						
160.0								
161.0	70%							
	91%	043	93%	12.0 / .50	13.20	1.76	11.44	
169.0								
	101.5%	174.0						
179.0		044	101.5%	0.75 / 1.0	1.72	1.28	0.44	
	101.5%	184.0						
185.0		045	64.5%	0.50 / 15.0	19.36	16.40	2.96	
	86%							
190.0								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-3 CLAIM: Duo 4 PROPERTY: Goz Creek PAGE No. 3 of 4



CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-3 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 4 of 4

COMMENTS:

Sample Tag Numbers: 14049-14051

DESCRIPTIVE GEOLOGY

225-258.5 Silicified Dolostone

milky wh. qtz. seam

258.5-287 micritic Dolostone

fn xtalline, lt. gy dolo. with a uniform texture minor hairline and silicified fracs.

258.5-265.0 more yellowish tham above in color. contains $ZnCO_3$ disseminated within the dolo.

partially altered.

287-305 Partially Silicified Dolostone

fn xtalline, lt-med. gy dolo. partially silicified. mottled med and lt. grey blebs - probably a silicification texture local wh creamy qtz blebs. Locally vuggy. minor r-sph occurring with qtz. and in fracs.

pisolites

minor py w. r. sph.

End of BAF 74-3

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
250.0								
254.0	70%	049	80%	25.0 / 0.25	34.00	0.54	33.46	
256.0	72.5%							
257.0	100%							
257.5	100%							
259.0								
263.0	99%	050	96%	2.5 / 3.0	2.72	1.84	0.88	
265.0								
267.5	89%							
270.0	104%			<.25 / <.25	0.28	0.14	0.14	
	82%	051	85%					
277.0								
280.0								
	74.5%							
287.0								
	73.5%							
296.0								
	100%							
300.0								
302.0	100%							
	75%							
305.0								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF 74-4 | CLAIM: DUO 4 | PROPERTY: Goz Creek | OVERBURDEN: 15.5 | PAGE No. 1 of 6

ELEVATION: 4,657.8 | SECTION: 10+200 | DATE STARTED: July 15, 1974 | CONTRACTOR: Longyear | LOGGED BY: G. G. Webb

NORTHING: 157,795.6 | INCLINATION: -45° | DATE FINISHED July 18, 1974 | CORE SIZE: AQ | SCALE: 1" = 10'

EASTING: 77,908.3 | AZIMUTH: 60° | TOTAL DEPTH: 328 | % CORE RECOVERY: 78.5% | CORE STORED AT: Camp

COMMENTS: stickup: 4.5'
Sample Tag numbers: 14051 - 64, 75-79

Hole Summary
20 - 46.5 Speckled Dolo minor $ZnCO_3$
46.5-53 Silicified Dolo. strong diss. $ZnCO_3$
53-56 Altered Dolo. strong diss. $ZnCO_3$
56-110 Speckled Dolo locally moderate $ZnCO_3$
110-124.5 Silicified Dolo weak frac.+diss $ZnS + ZnCO_3$
124.5-139.5 Altered Dolo weak frac ZnS + diss $ZnCO_3$

SECTION	Alteration	Smithsomite	Silicification	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Sduable ($ZnCO_3$)	% Zn (ZnS)	%
20							4.5 - 20.0 Overburden		20.0		20.0						
30					Sph		20.0 - 46.5 Speckled Dolostone fractured fm xtalline, lt. gy. dolo. locally fractured particularly past 36'. frac. orientation 50°. core very broken up to 46' with very low recovery. mineralization: minor smithsomite occuring with wh. dolomite in fracs. and in open fracs. altered porous + crushed.		30.0	16.5%			<.25				
40									34.0	25%	075	28.5%	.25	0.36	0.35	0.01	
									37.0	60%							
									40.0	20%							
										33.5%							
50							46.5 - 53.0 Silicified Dolostone honeycombed very vuggy, partially altered silicified dolostone		46.0	42%	46.0 076	59%	2.0 / 4.5	24.40	22.40	2.00	
							53.0 - 56.0 Altered Dolostone disseminated smithsomite		53.0	100%	56.0						
							56.0 - 110.0 Speckled Dolostone Fractured.		57.0	75%	077	85%	<.25 / 1.0	4.72	2.68	0.04	
60																	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-4 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS: Sample Tag Numbers: 14077-079, 14052

Hole Summary (cont.)

139.5-241 Silicified Dolo v. strong diss. ZnS.

241-328 Intraclastic Dolo. weak frac. ZnS + $ZnCO_3$

DESCRIPTIVE GEOLOGY

56.0-110.0 Speckled Dolostone Fractured

Fm xtalline, lt-drgy fractured dolostone with a speckled and wispy banded texture frequently the wispy bands have a quite definite orientation. Frequent dolomitization texture. fracs are healed with wh dolomite which locally contains smithsonite. minor local frac breccia. locally altered dolo. and partially altered dolo. locally silicified dolo.

mineralization:
$ZnCO_3$ occuring as frac fillings with wh dolomite and dissimimated within altered dolo.

- 7.5ph in frac.
- wispy bands 45°
- contact between lt. + dr. gy. dolo
- wispy banding
- wispy banding 55°
- lt. gy altered dolo

110.0-124.5 Silicified Dolostone

micro - Fm xtalline, lt-med gy. silicified dolo. fractured with fracs. containing silica and r. sph

mineralization: $ZnCO_3$ disseminated, ZnS in fracs

- ZnO
- py in stylolite

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
61.0	75%							
	102%							
66.0				<.25				
		077	85%		2.72	2.68	0.04	
	85%			1.0				
75.0								
	73.5%							
		80.0						
81.0								
	82%			<.25				
86.0								
	100%	078	83.5%		1.20	1.12	0.08	
90.0				1.0				
91.0	80%							
	61.5%							
94.0								
	95%							
96.0		96.0						
	97.5%							
100.0				.25				
	55%							
102.0		079	75%		6.88	6.32	0.56	
	60%			8.0				
105.5								
	74.5%							
110.0		110.0						
	29.5%	052	29.5%	.25	2.40	1.39	1.01	
120.0		120.0		1.0				

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF 74-4 CLAIM: Duo 4 PROPERTY: Goz Creek PAGE No. 3 of 6

COMMENTS:

Sample Tag Numbers: 14053-14057

DESCRIPTIVE GEOLOGY

110.0-124.5 **Silicified Dolostone**

r. sph in wh. creamy qtz and in fract. Sparks of boulangerite

110-120 very poor recovery mini core lost or ground at 120

124.5-139.5 **Altered Dolostone partially silicified**

lt. gy altered dolo

py along fracs. and stylolites and with sph.

fm xtalline, lt-med. gy fractured dolo. with a network of hairline silica healed fracs. locally partially silicified particularly toward the bottom, heavy dolomitization texture.

139.5-241.0 **Silicified Dolostone**

V. Strongly mineralized

$ZnCO_3$ blebs in qtz.

r. sph disseminated in dolo surrounded by y. sph breccia matrix

fm. xtalline, med. gy. silicified dolo. The v. strong mineralization tends to obscure textures. Locally fractured, and brecciated. Locally laminated to v. thinly bedded (199-202)

unsilicified dolo.

½" qtz seam

contact between r+y. sph.

mainly y. sph with minor r. sph.

r. sph. only y. sph diss cut by y sph frac.

mineralization: mainly red, yellow, and minor green sphalerite occuring as: massive, disseminated specks, fracture fillings and occasionally bedded. Strong smithsonite also occurs disseminated in altered dolostone which alternates with silicified dolostone in the top 18 ft. pyrite occurs in trace amts. 196-207 as disseminations within banded and brecciated dolo.

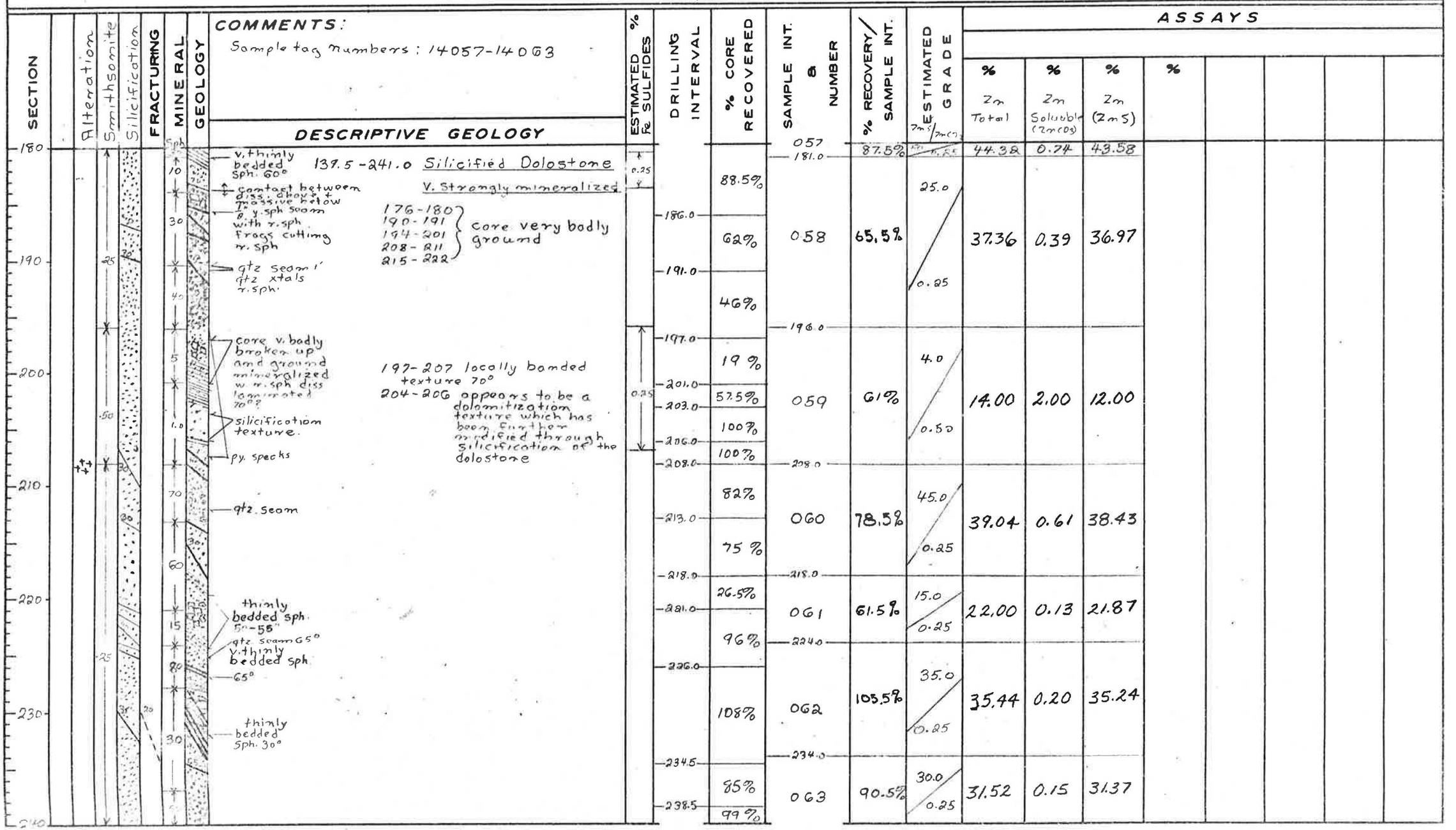
151- silicified dolo. brx. frags containing disseminated r. sph. matrix is y. sph also minor mineralized areas within the silicified dolo. frags. Sharp contact with breccia with smithsonite matrix 70°

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (ZnS / ZnCO3)	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
120.0								
122.5	80%							
	98%	053	94.5%	1.0 / 5.0	4.05	1.10	2.95	
133.0		134.0						
	95%	054	94.5%	0.50 / 2.0	2.24	1.80	0.44	
141.0		143.0						
	93.5%							
144.0	87.5%							
146.0	87.5%							
148.0	100%							
150.0	70%							
151.0		055	84%	25.0 / 8.0	32.00	7.60	24.40	
	69%							
156.5								
	100%	159.0						
161.0	70%							
163.0		056	83%	40.0 / 0.25	45.28	1.10	44.18	
	81.5%							
169.0		169.0						
	86.5%							
		057	87.5%	50.0 / 0.25	44.32	0.74	43.58	
176.0								
	88.5%							

ESTIMATED %FeSULFIDES: TR

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-4 CLAIM: DUO 4 PROPERTY: Goz Creek



CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-4 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:

Sample Tag numbers: 14063-14064
14187-14194

DESCRIPTIVE GEOLOGY

241.0 - 328.0 Intraclastic Dolostone

Fractured

Fn - med xtalline, lt and med gy. fractured dolostone. Frags of med. gy speckled and wispy banded dolostone within lt. gy dolomite matrix alternating with fractured med gy speckled and wispy banded dolostone. Fracturing with white sparry dolomite which is occasionally accompanied with white qtz overprints the entire section. It appears that in some cases med. gy frags brecciated by wave action were deposited in a lt. gy limy matrix and in other cases that an earlier episode of fracturing was accompanied by a fracture filling of lt. gy. dolomite

Stylolites occur frequently in the section and generally contain pyrite

mineralization:

minor fracture fillings of r. and occasionally y. sph. These frac. fillings occur with wh. sparry dolomite and qtz. and are locally strongly mineralized over lengths of a few inches.

bxx or dolomitization
py filled hairline frac.
py. filled stylolite
qtz xtals in vugs
py filled hairline frac.
py. filled stylolites
intense hairline fracturing
½" fracs 40°
py. filled stylolites
py. filled.
py. frac.
py. stylolite fillings r. sph with fillings surrounds wh. sparry dolo
py stylolite fillings weathered r. sph.

SECTION	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (Zn / ZnCO3)	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
				063 241.0	90.5%	.75	31.52	0.15	31.37	
		248.0	95%			0.75				
	Tr.			064	100%	1.0	2.20	0.70	1.50	
		257.0	103.5%	257.0						
			99%	187	99%	.25 / .50	0.41	0.32	0.09	
		267.0		265.0						
				188	98.5%	2.0 / .75	1.68	0.19	1.49	
			98%	270.0						
				189	98%	4.0 / 1.0	4.72	2.40	2.32	
		277.0		275.0						
				190	99%	2.5 / .50	1.36	0.35	1.01	
			100%	280.0						
				191	100%	1.0 / .25	0.62	0.22	0.40	
	3	287.0		285.0						
				192	98%	.25 / .50	0.77	0.67	0.10	
				290.0						
			97%	193	97%	1.0 / .50	1.92	0.94	0.98	
		297.0		295.0						
			94%	194	94.5%	<.25 / .25	0.27	0.22	0.05	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-4 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:

Sample Tag Numbers: 14194-14199

DESCRIPTIVE GEOLOGY

241.0-328.0 Intraclastic Dolostone

Fractured mineralization cont.: Pyrite occurs within stylolites and less frequently within fracs.

- py. frac filling
- py + sph frac. filling
- py frac fillings
- r. sph in fracs exits off r. sph.
- y. sph with minor py in wh calc + qtz filled fracs.

End of BAF-74-4

SECTION	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (ZnS / ZnCO3)	ASSAYS: % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
300										
			94%	194	94.5%	.25 / .25	0.27	0.22	0.05	
		305.0		305.0						
		307.0	80%	195	93%	.50 / .25	0.31	0.14	0.17	
310		308.0		310.0						
			99%	196	99%	2.5 / .50	2.92	0.19	2.73	
		315.0		315.0						
		317.0		197	93%	.25 / .50	0.20	0.08	0.12	
320			89%	320.0						
				198	89%	.50 / .50	0.37	0.29	0.08	
		325.0		325.0						
			78%	199	78%	1.0 / .25	1.36	0.10	1.26	
328		328.0		328.0						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-5 | CLAIM: DUO 4 | PROPERTY: Goz Creek | OVERBURDEN: 15.5 | PAGE No. 1 of 5

ELEVATION: 4652.4 | SECTION: 10+300 | DATE STARTED: July 19, 1974 | CONTRACTOR: Longyear | LOGGED BY: G G Webb

NORTHING: 157,709.6 | INCLINATION: -45° | DATE FINISHED July 20, 1974 | CORE SIZE: AQ | SCALE: 1" = 10'

EASTING: 77,962.1 | AZIMUTH: 60° | TOTAL DEPTH: 287 | % CORE RECOVERY: 83% | CORE STORED AT: Camp

COMMENTS: Stickup: 4.5'
Sample Tag Numbers: 14080-87, 65-68, 14200-211

Hole Summary
20-91 Speckled Dolo. weak frac ZnS + $ZnCO_3$
91-136 Speckled Dolo - partially altered, mod. diss $ZnCO_3$, weak frac. ZnS.
136-158 Speckled Dolo - Fractured mod ZnS at base, mod $ZnCO_3$ near top
158-165 Silicified Dolo. - Strong diss + frac. ZnS

DESCRIPTIVE GEOLOGY

4.5-20.0 Overburden

20.0-91.0 Speckled Dolostone

fn xtalline, med. gy dolo. with a speckled and wispy banded texture. locally contains intraclastic dolostone. Strong dolomitization texture. locally fractured mineralization: minor specks and frac. fillings of r. sph. v. minor smithsonite along fracs.

r. sph + qtz frac fillings sph quite weathered. intraclastic

intraclastic

$ZnCO_3$ open fracs.

SECTION	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (ZnS / $ZnCO_3$)	ASSAYS % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
20.0	20.0		20.0						
	33.0	32.3%	080	41%	.25 /	1.68	0.90	0.78	
	41.0	41.2%			/ .25				
	42.0	65%							
	44.0	32.5%							
	47.0	88.3%							
	50.0	50%	50.0						
	51.0	60%							
	55.0	35%	081	28.5%	.25 / .25	0.75	0.49	0.26	
		97%							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-5 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 2 of 5

COMMENTS:

Hole Summary (cont.)

165-238.5 Speckled Dolo. - Fractured, mod frac. ZnS near top, minor $ZnCO_3$

238.5-252 Intraclastic Dolo. - minor frac ZnS + $ZnCO_3$

252-287 Speckled Dolo - Fractured, weak ZnS + $ZnCO_3$

DESCRIPTIVE GEOLOGY

20.0-91.0 Speckled Dolostone

wispy banding 50°

lt. buff gy. intraclastic?

py filled stylolite

intraclastic brx with a lt. gy. matrix.

intraclastic?

wispy banding 50°

25° silicified frac displacing a 40° wk sec dol frac.

intraclastic weathered out sph?

py.

91.0-136.0 Speckled Dolostone

Altered and Partially Altered

fn xtalline lt. yellowish gy. altered and partially altered dolostone with a wispy banded texture. Frequent 1-3' sections of interclastic dolo (or sections of strongly dolomitized dolo.) also 1-3' sections of essentially unaltered wispy banded dolo. considerable fracturing

intraclastic

intraclastic

intraclastic

intraclastic

r. sph in 3" alz seam

intraclastic

⅛" weathered r. sph rich core intensely crushed

mineralization: mainly disseminated and frac filled smithsomite which appears to increase as the amount of alteration increases

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (ZnS / ZnCO3)	ASSAYS % Zn Total	% Zn Soluable	% Zn (ZnS)	%
64.0	97%							
	081	28.5%	.25 / .25	0.75	0.49	0.26		
	52%							
69.0		69.0						
	94%							
77.0								
79.0	98%	082	89%	.50 / .25	1.28	0.80	0.48	
82.5	73%							
	82%							
87.0								
	96%							
92.0		91.0						
	15.5%							
97.0								
98.0	101%							
	83.5%			.25 / 1.5				
101.0								
	96.5%	083	77.5%		3.32	2.90	0.42	
102.0								
	92%							
111.5								
		115.0		.50 / 2.5				
	98.5%	084	92.5%		8.44	7.06	1.38	

ESTIMATED % Fe SULFIDES

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-5 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 3 of 5

COMMENTS:
Sample Tag Numbers: 14084-14085
14065-14068
Stevenson 0989-0992
Stevenson Samples - resample of 065-068
General Testing Laboratories, Vancouver.
Zn Total and Soluable, Composite 149-182 Cd, Ag, Pb, Zn Total and Soluable, Composite 149-182 Cd, Ag, Pb, Cu, Au.

DESCRIPTIVE GEOLOGY

120
- py. in stylolites and around fracs
- py
- r. sph blebs in qtz frac
- py. filled

130
91.0-136.0 **Speckled Dolostone**
Altered + Partially Altered
116-121 Possible Fault. crushed dolostone

131.5

136.0
- py with sph in blebs + stylolites
- intraclastic?
- py.

140
136.0-158.0 **Speckled Dolostone**
Fractured
Fn xtalline, lt. gy. dolo. which has been strongly hairline fractured. Fracs have been healed with dolomite and displace earlier hairline fracs filled with silica. The rock has a speckled and wispy banded texture and locally contains 2'-3' sections of intraclastic dolo or breccia with a lt. gy matrix.
mineralization: mainly r. sph in fracs, particularly past 149 py occurs frequently in stylolites to 149 diss. Smithsonite

142.0

149.0
- qtz seam
- py
- intraclastic
- bar or intraclastic?
- r. y sph blebs in frac

150

152.0

158.0
- py stylolite filling

160
158.0-165.0 **Silicified Dolostone**
Fn xtalline, micd. gy. silicified dolo. strongly mineralized
mineralization: 158-161 mainly r. sph fracs filling 161-165 diss. y. sph.

162.5

165.0
- r. sph along hairline SiO_2 fracs

170
165.0-238.5 **Speckled Dolostone**
Slightly Fractured
Fn xtalline, med. gy. dolo with a speckled texture local wispy banding oriented at approximately 60°. locally strong dolomitization texture. locally strongly fractured.

173.0

180
- wispy banding 55-60°

190

ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE Zn_S / Zn_{CO_3}	ASSAYS: % Zn Total	% Zn Soluable (Zn_{CO_3})	% Zn (Zn_S)	% Zn Total (Stevenson)	Zn Soluable (Zn_{CO_3}) (Stevenson)	Zn (Zn_S) (Stevenson)	
2	131.5	98.5%	084	97.5%	0.50 / 2.5	8.44	7.06	1.38				
	136.0	94.5%										
5	142.0	103%	085	99%	0.75 / .50	4.80	3.96	0.84				
	149.0											
Tr	152.0	93.5%	065 Stevenson 0989	96.5%	1.50 / 0.25	7.68	1.66	6.02	8.19	1.41	6.78	
	158.0											
	162.5	95%	066 Stevenson 0990	95%	.80 / 0.25	30.32	0.92	29.40	26.43	1.79	24.64	
	165.0	97%	067 Stevenson 0991	97%	0.50 / 0.25	3.60	1.94	1.66	4.00	1.77	2.23	
Tr	173.0	103%	068 Stevenson 0992	103%	2.0 / 0.50	16.00	8.90	7.10	16.78	10.10	6.68	

Composite
Au trace
Ag 0.40
Cu 0.10
Pb 0.02
Cd 0.03
Total Zn 13.57
Soluable Zn 3.94
$Zn_{(ZnS)}$ 9.63
0984 1 part
90 7 "
91 8 "
92 9 "

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-5 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 4 of 5

COMMENTS:
Sample Tag Numbers: 14068
14086-14087
14200-14202
Stevenson 0992

DESCRIPTIVE GEOLOGY

165.0-238.5 Speckled Dolostone
Slightly Fractured

There is a general overprint of hairline silica fracs and a later set of dolomite healed and open fracs. local altered and crushed dolo. indicating possible frac zones.

mineralization:
mainly r. sph frac fillings which decreases downward to 203'. Trace py occurs mainly in fracs with sph. Very minor smithsonite disseminated and occurring along fracs and open hairline fracs.

py boarders

r. sph in fracs w. qtz. wh. qtz frac.

creamy wh qtz. frac. filling

partially altered crushed

wispy banding @ 0°

intensely crushed

pisolites

3" wh qtz seam 45°
qtz xtal in yug.
Fault breccia?

238.5-252.0 Intraclastic Dolostone

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE Zn / Zn(CO3)	ASSAYS % Zn Total	% Zn Soluble (Zn(CO3))	% Zn (ZnS)	% Zn Total (Stevenson)	Zn Soluble (Zn(CO3)) (Stevenson)	Zn (ZnS) (Stevenson)
180.0		0G8 Stevenson 0992		2.0 / .50	16.00	8.90	7.10	16.78	10.10	6.68
	103%	182.0	103%							
183.0										
	97%			0.75						
		086	97%		3.40	2.08	1.32			
193.5				.25						
	96.5%									
204.0		2030								
	94.5%			<.25						
		087	91%		0.98	0.92	0.06			
214.5				<.25						
	95.5%									
223.0										
225.0		200	99.5%	<.25 / 1.50	1.04	1.04	0.00			
	101%	230.0								
		201	101%	<.25 / 1.0	0.65	0.61	0.04			
235.0		235.0								
	88.5%	20R	88.5%	<.25 / .75	0.32	0.32	0.00			
240.0										

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-5 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:

Sample Tag Numbers : 14203-14211

DESCRIPTIVE GEOLOGY

238.5-252.0 Intraclastic Dolostone

fm. xtalline, med.-dk. gy speckled dolostone intraclasts in a fm xtalline lt.gy micritic matrix. This is overprinted by slight fracturing

Py

252.0-287.0 Speckled Dolostone

Fractured

Fm xtalline, lt. gy speckled dolostone. Local <1'-3' sections of homogeneous slightly fractured micritic dolostone. Fractured with frac. intensity decreasing towards the bottom of the section.

intraclastic

Py

intraclastic

mineralization: very weak r.sph occuring in fracs. and within wh. sparry dolomite of inclusion tex. very weak smithsonite frac fillings locally.

wispy banding 50°

intraclastic

local inclusion tex.

vert. frac filled w. sparry dolo. containing r. sph. xtals.

End of BAF-74-5

SECTION	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE Zn S / ZnCO3	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
				240.0						
			98.5%	203	98.5%	<.25 / .25	0.22	0.22	0.00	
		246.0		246.0						
				204	97.5%	<.25 / .50	0.26	0.10	0.16	
			97.5%	250.0						
				205	95.5%	<.25 / 1.0	0.74	0.73	0.01	
		254.0		255.0						
			86.5%							
		257.0								
		258.0	100%	206	89%	.25 / .50	0.58	0.31	0.27	
				260.0						
			86.5%	207	86.5%	.50 / .50	0.61	0.27	0.34	
		266.0		266.0						
		268.5	104%	208	102.5%	<.25 / .25	0.15	0.09	0.06	
		271.0	100%	270.0						
			93.5%	209	95%	<.25 / .25	0.06	0.05	0.01	
		277.0		275.0						
				210	91.5%	<.25 / .25	0.07	0.07	0.00	
				280.0						
			90%	211	90%	.50 / .25	0.74	0.02	0.72	
		287.0		287.0						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-6 | CLAIM: DUO 2 | PROPERTY: Goz Creek | OVERBURDEN: 7.5' | PAGE No. 1 of 4

ELEVATION: 4,563.7 | SECTION: 10+500 | DATE STARTED: July 22, 1974 | CONTRACTOR: Longyear | LOGGED BY: G.G. Webb

NORTHING: 157,693.2 | INCLINATION: -45 | DATE FINISHED July 23, 1974 | CORE SIZE: BQ | SCALE: 1" = 10'

EASTING: 78,345.3 | AZIMUTH: 60 | TOTAL DEPTH: 203 | % CORE RECOVERY: 75% | CORE STORED AT: Camp

COMMENTS: Stickup = 6.5
Sample Tag Numbers: 14058-093, 14812-223

Hole Summary

140-960 Altered Dolostone diss. $ZnCO_3$ - mod.
96.0-119.5 Silicified Dolostone - mod bedded sph.
119.5-203.0 Speckled Dolostone - local sph frac filling.

DESCRIPTIVE GEOLOGY

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % Fe_2 SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (ZnS / $ZnCO_3$)	ASSAYS: % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
0																
10																
14								14.0		140						
20								16.0	87.5%							
30								23.0	30.0%							
40								27.0	22.5%	088	30%	.25 / 3.0	3.56	3.23	0.33	
								36.0	22%							
								40.0	26%	40.0						
								44.0	44%	057	25%	1.5 / 3.0	9.20	7.52	1.68	

6.5-14.0 Overburden

14.0-96.0 Altered Dolostone

Fault 23-77

yellowish gy., soft, crumbly very porous altered dolo 1-3" sections of silicified honeycombed dolostone containing disseminated sph and weathered out sph. 44.5 white creamy qtz with altered dolo. the qtz appears as frags within the altered dolo - possibly the core of the fault?
Fault 83-77 1/4" - 3/4" frags of dolo in altered dolo. matrix.

mineralization: mainly Smithsonite disseminated within the altered dolo. locally weathered out sph and r.sph disseminated within silicified dolo.

40-44 fm xtalline, dk. gy dolo.
77-81

weathered out py.
intraclastic
bedding? 35°.
qtz seam partially weathered sph.
partially altered frac. dolo.
silicified dolo w/ sph

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-6 CLAIM: Duo 2 PROPERTY: Goz Creek

COMMENTS:
Sample Tag numbers: 14089 - 14092

DESCRIPTIVE GEOLOGY

18.0 - 96.0 Altered Dolostone

Fault 23-77

wh. qtz.

CaO

CaO

ZnO

Silicified mineralized dolo.

8" wh. qtz seam

altered frac dolo.

minor Frag cutoff by stylolite

stylolitic contact

96.0 - 119.5 Silicified Dolostone

Bedded mineralization

Fm xtalline, med-dr. gy, v. thinly to thinly bedded dolo. becoming more thickly bedded towards the end of the section. frequent silicified unmineralized, lt. gy blebs.
bedding generally at 50°

SECTION	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE Zn / Zn(CO3)	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
50									
	55.0	22%							
		24%	089	25%	1.5 / 2.0	9.20	7.52	1.68	
60	60.0	14%							
	64.0		64.0						
	67.0	95%							
		78%							
70	70.0		090	74%	.25 / 8.0	3.12	2.90	0.22	
		59%							
	72.0		72.0						
	79.0	55%							
80		63%							
	85.0								
	87.0	52.5%							
	89.0	85%	091	72.5%	.50 / 3.0	9.20	7.56	1.64	
90		100%							
			96.0						
	97.0	98%							
100	100.5	98%							
	103.0		092	93%	8.0 / .50	7.80	3.30	4.50	
		91.5%							
	106.0								
		95%							
110	110.0								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-6 CLAIM: DUO 2 PROPERTY: Goz Creek

COMMENTS:
Sample Tag numbers: 14092 - 14093
14212 - 14218

DESCRIPTIVE GEOLOGY

96.0 - 119.5 Silicified Dolostone
Bedded mineralization
Locally bedding is oriented from 50° - 60°
mineralization: disseminated + y sph with minor py, and possibly smithsonite parallel to bedding
vuggy qtz

119.5 - 203.0 Speckled Dolostone
Fractured
fn xtalline, med-dk. gy. speckled and locally wispy banded dolo. The fracs are filled with white or lt. gy dolo and are generally clean. Very little inclusion texture except from 189-203 occasional hairline silica fracs.
mineralization: local and infrequent r. sph frac fillings minor pyrite occuring in stylolites from 173-203 minor smithsonite in open fracs. possibly some smithsonite from contamination

Note Assays 14092 and 14093 are probably incorrect no visible sph was noted from 118.0 - 128.0 and considerably more sph than 4.5% was noted from 96-118 The two samples were possibly mixed together during sample preparation

speckled banded altered dolo 55° 4"
intense hairline fracturing altered dolo
wispy banded tex. 60° mineralized w. r. sph displaces original frac.
intensely hairline fractured.
lt. gy micritic dolo
intraclastic.

SECTION	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (%ZnS / %ZnCO3)	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
110	.5	114.0	95%							
		115.5	73%							
		117.0	76.5%							
				092	93%	8.0 / .50	7.80	3.30	4.50	
		118.0								
120			95.5%	093	96%	<.25 / <.25	8.40	3.60	4.80	
		127.0								
		128.0								
				212	100%	.75 / .75	1.60	1.00	0.60	
			100%							
		135.0								
		137.0		213	99%	1.5 / 1.0	3.60	2.04	1.56	
		140.0								
			98.5%	214	98.5%	.25 / .50	0.57	0.51	0.06	
		145.0								
		147.0		215	99%	<.25 / .85	0.64	0.56	0.08	
150		150.0								
			99.5%	216	99.5%	<.25 / .25	0.51	0.41	0.10	
		155.0								
		157.0		217	99%	<.25 / <.25	0.06	0.06	0.00	
160		160.0								
			77%	218	94%	.25 / <.25	0.35	0.31	0.04	
		167.0								
			82.5%							
170		170.0								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-6 CLAIM: DUO 2 PROPERTY: Goz Creek

COMMENTS:
Sample Tag Numbers: 14219-14223

DESCRIPTIVE GEOLOGY

119.5-203.0 Speckled Dolostone
Fractured

pyritic stylolite

strong inclusion texture

banding 50°

very stylolitic py filled

strong inclusion texture

End of BAF-74-6

SECTION	Silicification	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / ZnCO3	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
170						170.0	82.5%	219	90.5%	<.25 / <.25	0.14	0.08	0.06	
180						180.0	96%	220	96%	<.25 / .50	0.92	0.92	0.00	
						184.0								
190					Tr.	188.0	96%	221	97%	<.25 / .75	1.80	1.80	0.00	
						192.0								
						193.0	101%	222	101%	<.25 / .50	0.45	0.42	0.03	
200						199.0								
						201.5		223	109%	<.25 / .25	0.23	0.22	0.01	
						203.0	123%							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-7 | CLAIM: DUO 2 | PROPERTY: Goz Creek | OVERBURDEN: 8.7 | PAGE No. 1 of 4

ELEVATION: 4,565.2 | SECTION: 10+500 | DATE STARTED: July 23, 1974 | CONTRACTOR: Longyear | LOGGED BY: G.G. Webb

NORTHING: 157,689.6 | INCLINATION: -90 | DATE FINISHED July 24, 1974 | CORE SIZE: AQ | SCALE: 1" = 10'

EASTING: 78,338.2 | AZIMUTH: — | TOTAL DEPTH: 203 | % CORE RECOVERY: 84% | CORE STORED AT: Camp

COMMENTS: Slickup = 3.3'

Sample Tag Numbers: 14094-099, 14224-226

Hole Summary

12.0-46.0 Altered Dolo. weak diss $ZnCO_3$

46.0-54.5 Partially Altered Dolo. minor $ZnCO_3$-ZnS

54.5-88.0 Silicified Dolo. - Oncolitic Strong ZnS

88.0-203.0 micritic Dolo local inclusion tex. minor frac ZnS near top

DESCRIPTIVE GEOLOGY

3.3-12.0 Overburden

12.0-54.0 Altered Dolostone

lt gy to slightly yellowish gy. soft, very porous altered dolo. Original texture appears to be a fine to coarse wispy banded dolo which is locally fractured. local evidence of a fault breccia.

Mineralization: disseminated Smithsonite in altered dolo.

banding 65°

wavy banding 75°

altered fractured dolo.

partially altered speckled dolo.

altered frac dolo.

intraclastic

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
12.0		12.0						
	87%							
18.0								
		094	88.5%	<.25 / 1.5	0.52	0.52	0.0	
	87%							
27.0								
		30.0						
	95%							
32.0								
		095	88.5%	<.25 / 3.0	1.80	1.76	0.04	
	83%							
46.0		46.0						
	60%			.50 / 1.0	.27	1.40	0.42	
48.0	100.5%	096	90.5%					

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BGF-74-7 CLAIM: DUO 2 PROPERTY: Goz Creek

COMMENTS:

Sample Tag Numbers: 14096-14099
14224-14225

DESCRIPTIVE GEOLOGY

12.0-54.0 Altered Dolostone

¼" sph ¼ frac.

54.5-88.0 Silicified Dolostone

Pisolitic

wh qtz seam 35°

1" wh dolo. seam cy im bottom stylolitic contact

r. sph im wh qt.

banding 60°

diss r. sph

sph blebs im qtz. seam

extremely pisolitic.

wh qtz within med gy. dolo.

micrxtalline, med gy. silicified dolo. locally very pisolitic

60 GU unsilicified dolo and altered dolo. with silicified fracs. upper and lower contacts are stylolites filled with py.

mineralization:

Mainly y sph generally with r. sph rims. Sphalerite occurs as frac fillings, disseminated specks, blebs within qtz. and as massive 1-4" sections.
Lead (boulangerite or galena?) occurs as disseminated specks throughout the section

88.0-203.0 Micritic Dolostone

lt. gy. micritic

hairline fracs.

y. sph im pyritic stylolite

Local Inclusion Tex.

Fm xtalline, lt gy micritic dolostone with a mottled or homogeneous texture alternating with 1-10' sections of inclusion texture. The inclusion texture varies from a slight overprint of the micritic dolo. to a strong dominating texture. Locally quite vuggy with vugs occurring in wh. sparry dolomite. Vugs frequently have drusy dolomite and qtz.

SECTION	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	% Pb	% Sb
50			096	90.5%	.50 / 1.0	1.88	1.40	0.48		
	54.0	100.5%								
	58.0									
	59.5	103%								
60		100%	097	96%	10.0 / .50 Pb .50	18.34	1.85	16.49	0.20	0.08
	62.0									
70	71.0	80%								
	74.0									
		77%	098	96%	12.0 / .25 Pb 1.00	18.14	0.35	17.79	0.76	0.28
80	84.0									
	87.0	101%								
	88.0									
		100.5%	099	99%	1.0 / .50	2.40	0.83	1.57		
90	97.0									
		95%								
	100.0									
100		91%	224	91%	<.25 / .25	0.16	0.14	0.02		
	105.0									
	107.0	76%	225	82%	<.25 / .25	0.17	0.15	0.02		
110	110.0									

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-7 CLAIM: DUO 2 PROPERTY: Goz Creek PAGE No. 3 of 4

COMMENTS:
Sample Tag Numbers: 14826

DESCRIPTIVE GEOLOGY

88.0-203.0 micritic Dolostone

Local inclusion texture

Locally the inclusions appear to be fuzzy boundaried breccia frags

mineralization: minor sph. frac. fillings and diss. smithsonite near the top of the section. Trace py occurs in stylolites.

- py stylolites
- micritic
- speckled dolo.
- micritic
- intraclastic
- micritic
- pisolites.
- micritic
- banding 45°

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE Zn_S / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
110								110.0								
								112.0	96%	226	92.5%	<.25 / <.25	0.09	0.09	0.00	
								118.0								
120								120.0								
									98.5%							
								128.0								
130									97%							
								133.0								
									102%							
								139.0								
140									76%							
								144.0								
									101.5%							
150																
								153.5								
									100%							
								158.5								
160									101%							
								168.0								
									98%							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-7 CLAIM: DUO 2 PROPERTY: Goz Creek PAGE No. 4 of 4

COMMENTS:

DESCRIPTIVE GEOLOGY

88.0-203.0 Micritic Dolostone
Local inclusion texture

homogeneous micritic dolo. minor recrystallization

End of BRF-74-7

SECTION	Alteration	Smithsomite	Silicification	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS %	%	%	%				
170				10	5ph															
									99%											
				45				177.0												
180									100.5%											
							Tr.	187.0												
				40					100%											
190								199.0												
									99.5%											
200																				
203								203.0												

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-8 | CLAIM: DUO 2 | PROPERTY: Goz Creek | OVERBURDEN: 12.4 | PAGE No. 1 of 3

ELEVATION: 4537.3 | SECTION: 10+500 | DATE STARTED: July 26, 74 | CONTRACTOR: Longyear | LOGGED BY: G.G. Webb

NORTHING: 157,791.6 | INCLINATION: -90 | DATE FINISHED July 28, 74 | CORE SIZE: AQ | SCALE: 1" = 10'

EASTING: 78,522.3 | AZIMUTH: — | TOTAL DEPTH: 145 | % CORE RECOVERY: 71.5 % | CORE STORED AT: Comp

COMMENTS: Stickup: 2.6'
Sample Tag Numbers: 14100-14101, 14227-14234

Hole Summary

15.0-145.0 Speckled Dolostone minor $ZnCO_3$ in fracs to 66, intermittant and scattered ZnS in fracs.

SECTION	Alteration	Sphalerite	Silicification	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
0							2.6-15.0 Overburden										
15									15.0		15.0						
							15.0-145.0 Speckled Dolostone Fractured fn xtalline, med-dk gy fractured speckled dolo. locally fractured micro-fn xtalline, lt gy micritic dolo. fracturing is usually strong and consists of wh. dolo filled major fracs and open and healed hairline fracs. locally sections of slight to strong inclusion texture and sections of intraclastic dolo. Inclusion texture increases to base of section		18.0	33%						
									25.0	9%							
20									26.0	15%			.25				
										6%	100	15.5%		2.00	1.48	0.52	
30							Fault breccia? very intensely frac. hairline fracs, crushed frags		31.0				.50				
										9%							
							Smithsonite crusted and very thinly laminated vuggy 1"		38.0	60%							
40							mineralization: mainly open and minor closed hairline frac fillings of Smithsonite. minor r. sph frac fillings		40.0		40.0						
										82%			.25				
							15.0-40.0 Core very ground and broken up		45.0		101	88.5%		1.88	1.48	0.40	
							40.0-48.0 core intensily broken up.			60%			150				
							sph along fracs		48.0	99%							
50																	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-8 CLAIM: DUQ 2 PROPERTY: Goz Creek

COMMENTS: Sample Tag Numbers: 14101, 14227-14231

DESCRIPTIVE GEOLOGY

15.0 - 145.0 Speckled Dolostone Fractured

partially altered

lt. gy micritic dolo.

r.sph with qtz in fracs. recrystallized dolo.

60-145 The speckled dolo. has an increasing overprint of inclusion texture. Locally inclusion texture becomes quite dominant. particularly near the bottom of the section

½" bleb in frac.

intraclastic

intraclastic

intraclastic

103-145 Core locally very broken up. probably along hairline fracs. intensely hairline fractured.

py along stylolites

SECTION	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS: % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
50									
		99%			.25 / .50				
	58.0		101	88.5%		1.88	1.48	0.40	
60		97%							
	65.5		66.0						
		95%	227	95%	<.25 / 1.0	0.28	0.13	0.15	
70	76.0		76.0						
		85%			.50 / .75				
80	80.0		228	89%		0.34	0.09	0.25	
		96%							
	85.0		86.0						
	87.5	72%			<.25 / 1.5				
90			229	87.5%		0.28	0.10	0.18	
		90%							
			96.0						
	98.0				.25 / .50				
100		100%	230	93%		0.19	0.08	0.11	
	105.0		106.0						
	107.0	47.5%			<.25 / <.25				
		82%	231	82.5%		0.06	0.04	0.02	
110	110.0								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-8 CLAIM: DUO 2 PROPERTY: Goz Creek PAGE No. 3 of 3

COMMENTS:
Sample Tag Numbers: 14231-14234

DESCRIPTIVE GEOLOGY

15.0-145.0 Speckled Dolostone
fractured

- 110 — inclusion tex.
- qtz seam
- Vuggy; py. stylolites
- 120 — inclusion tex.
- py + r. sph.
- micritic
- py froc.
- 130 — inclusion tex
- 140
- 145 — End of BAF-74-8

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS % Zn Total	% Zn Soluable (ZnSO4)	% Zn (ZnS)	%
								110.0								
								114.0	85%	231	82.5%	<.25 / <.25	0.06	0.04	0.02	
								116.0								
									95.5%	232	93.5%	<.25 / <.25	0.07	0.02	0.05	
								123.0								
									88.5%							
								126.0								
								130.0		233	83.5%	<.25 / .25	0.03	0.02	0.01	
									73%							
								133.0	95%							
								134.0		134.0						
									15%							
								138.0		234	43%	<.25 / .25	0.03	0.01	0.02	
									53.5%							
								141.0								
									62.5%							
								145.0		145.0						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-9 | CLAIM: DUO 4 | PROPERTY: Gaz Creek | OVERBURDEN: 12.6 | PAGE No. 1 of 6

ELEVATION: 4624.1 | SECTION: 10+500 | DATE STARTED: July 29, 74 | CONTRACTOR: Longyear | LOGGED BY: G.G. Webb

NORTHING: 157,603.4 | INCLINATION: -90° | DATE FINISHED July 30, 74 | CORE SIZE: AQ | SCALE: 1" = 10'

EASTING: 78,169.8 | AZIMUTH: - | TOTAL DEPTH: 328 | % CORE RECOVERY: 91.5% | CORE STORED AT: Camp

COMMENTS: Stickup = 1.4
Sample tag numbers: 14102 - 14110

Hole Summary

14.0 - 78.5 Speckled Dolostone - minor ZnS + $ZnCO_3$ frac fillings

88.5 - 97.5 Transition Zone - best mineralization in fracs

97.5 - 235 Inclusion Dolostone - minor r.sph.

235 - 328 micritic Dolostone - no mineralization

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn total	% Zn (soluble $ZnCO_3$)	% Zn (ZnS)	%				
0					sph		1.4 - 14.0 Overburden														
14							14.0 - 78.5 Speckled Dolostone		14.0	94%	14.0										
20					.25		Fine-med xtalline, H. - med gy dolo. with a general speckled and wispy banded texture. wispy banding at 40° to CA locally intraclastic texture and locally recrystallized coarse xtalline weathered dolo. locally vuggy in recrystallized sections		18.0	75%											
						micritic			20.0	50%											
30		5			.50	weathered py			25.0	80%	102	79.5%	.25 / .50	0.64	0.37	0.27					
						weathered sph, py ? + dolomite in vert. fracs	mineralization: minor r.sph and smithsonite frac fillings, weathered py. & sph frac fillings? minor sph vug fillings.	5	30.0	98%										
						intraclastic			34.5	57%											
40									38.0		39.0										
		1.5			(.25)	intraclastic		Tr.		47%	103	69%	.25 / 1.5	0.82	0.70	0.12					
						fault breccia w. smithsonite			47.0	66%											
50																					

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-9 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 2 of 6

COMMENTS:
Sample Tag numbers: 14103-14106

DESCRIPTIVE GEOLOGY

14.0-78.5 Speckled Dolostone

Fracs + stylolites filled with weathered py + sph? intraclastic

sph specks in wh. qtz frac intraclastic

sph specks in partially filled vug with qtz xtals vuggy stylolite displacing frac.

78.5-97.5 Transition Zone

argillaceous + pyritic stylolite

banding 60°

Transition between predominantly speckled and wispy banded dolo. above and inclusion or co. xtalline recrystalized dolo below. Both textures are intermixed and alternate throughout the section, quite stylolitic. yellowish brown dolo. frac. filling

Mineralization: mainly r.sph occuring as hairline and major frac. fillings. Sph also occurs as vug fillings along with qtz. Frequent py filled stylolites, py also occurs with sph minor smithsonite frac fillings?

97.5-235 Inclusion Dolostone

Recrystalized Dolo.

Co. xtalline, lt. gy recrystalized dolostone containing irregular blebs of med. gy dolo. these blebs probably resulted from the concentration of impurities during

SECTION	ESTIMATED % fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / ZnCO3	ASSAYS % Zn Total	% Zn Soluable (ZnSO4)	% Zn (ZnS)	%
50	Tr.	52.0	66%							
			81%			.50				
		56.5		103	69%		0.82	0.70	0.12	
		58.0	103%			1.5				
60	5		88%							
		63.0								
			64%							
		66.5		64.0						
70	Tr.		90%	104	94%	.50	0.80	0.38	0.42	
		77.0				1.0				
80			111%							
		84.0								
	5	86.0								
90			96.5%	105	99.5%	5.0	3.28	0.23	3.05	
		96.0				.50				
			100.5%							
100	1	102.0								
		106.0		106	97.5%	.75	0.69	0.06	0.63	
			92%			<.25				
110										

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-9 CLAIM: Duo 4 PROPERTY: Goz Creek PAGE No. 3 of 6

COMMENTS:
Sample Tag Numbers: 14106-14109

DESCRIPTIVE GEOLOGY

97.5-235.0 Inclusion Dolostone

Recrystalized Dolo.

micritic

qtz banding

micritic banded inclusions 50°

qtz + sph xtals.

speckled dolo.

micritic

micritic

pyritic stylolites

recrystalization. Locally the blebs are elongated, orientated at 50-60° to form crude banding within the core. Frac fillings, blebs and crude bands of silica. local micritic dolo sections. locally vuggy to very vuggy. Towards end of section the inclusion blebs tend to become lighter in color and seem to gradually grade into micritic dolostone. vugs tend to increase to the base of the section

mineralization:
n sph occurring in vugs and disseminated in the dolo with qtz.. minor n sph. frac fillings. Trace to 5% py. locally occurring within stylolites and with sph

silica banding 50°

speckled dolo.

micritic

speckled and wispy banded

vuggy sph with py in stylolites and vugs

SECTION	ESTIMATED % FeS SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / ZnCO3	ASSAYS % Zn Total	% Zn Soluble (ZnCO3)	% Zn (ZnS)	%
110			92%							
		116.0		106	97.5%	.75 / <.25	0.69	0.06	0.63	
120	1		102.5%							
		125.0								
		126.0	113%							
		129.0				1.0 / <.25				
130			103%	107	104%		2.92	0.13	2.79	
	5%									
		138.0								
140		140.0								
			97.5%							
		148.0				.50 / <.25				
150	Tr.		97.5%	108	97.5%		0.51	0.10	0.41	
		158.0								
160			95%							
		164.0								
	2	167.0		109	95.5%	1.5 / <.25	2.00	0.10	1.90	
			95.5%							
		170.0								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-9 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:
Sample Tag Numbers: 14110

DESCRIPTIVE GEOLOGY

97.5-235.0 Inclusion Dolostone
Recrystalized Dolo

- pisolites?
- y. sph specks disc in dolo
- micritic
- wispy banded dolo
- speckled dolo.
- very vuggy

195-235 The dolo. gradually looses its inclusion texture and becomes increasingly more micritic

200-210 speckled and wispy banded dolo. The wispy bands have a higher concentration of black opaque material out quite clearly in the speckled dolo

SECTION	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
	Tr	170.0								
			95.5%							
		176.0				1.25				
				110	98%	/	0.11	0.04	0.07	
			99.5%			<.25				
	Tr	186.0								
			99%							
		190.0								
		195.5								
			121.5%							
		202.0								
	Tr		97%							
		212.0								
			95%							
		222.5								
			71%							
		226.0	83%							
		236.5								
			99%							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-9 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 5 of 6

SECTION | Alteration | Brecciation | Silicification | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | ESTIMATED % Fe SULFIDES | DRILLING INTERVAL | % CORE RECOVERED | SAMPLE INT. & NUMBER | % RECOVERY / SAMPLE INT. | ESTIMATED GRADE | ASSAYS

DESCRIPTIVE GEOLOGY

97.5-235.0 Inclusion Dolostone

Recrystalized Dolo

Tr

234.0 — 99%

235.0-328.0 micritic Dolostone

banded, v. uniform tex

240.0 — 45.5%

242.0 — 70%

fm-med xtalline, locally med-co. xtalline, lt. gy micritic dolo. with a very uniform texture. Generally vuggy with local very vuggy sections frequently has a very slight banded texture with wisps of slightly darker dolo. oriented at about 60°-80° frequent stylolites very slight hairline fract. uring

246.0 — 61%

248.0 — 70%

251.0 — 75%

96%

dark wispy banding

261.5 —

107%

271.0 —

100%

280-328 micro-v. fm xtalline, very lt. gy with slightly darker gy. banding generally oriented at 70°-80°

281.0 —

97.5%

284.0 — 92%

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-9 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 6 of 6

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS %	%	%	%				
290							235.0-238.0 Micritic Dolostone banded, v. uniform tex.			93%											
							banding 80°														
300							297-307 Banded texture very prominent bands 1/16"-1/2" wide oriented at 75°-80°		291.0	92%											
							banding 75-80°		308.0	95%											
310																					
							banding 30-60°		318.0	95.5%											
320							banding 80°														
328							End of BRF-74-9		328.0												

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-10 | CLAIM: DUO 4 | PROPERTY: Goz Creek | OVERBURDEN: 8.4 | PAGE No. 1 of 4

ELEVATION: 4,602.9 | SECTION: 10+500 | DATE STARTED: July 31, 74 | CONTRACTOR: Longyear | LOGGED BY: G.G. Webb

NORTHING: 157,645.9 | INCLINATION: -90 | DATE FINISHED Aug 1, 74 | CORE SIZE: AQ | SCALE: 1" = 10'

EASTING: 78,256.3 | AZIMUTH: — | TOTAL DEPTH: 206 | % CORE RECOVERY: 83% | CORE STORED AT: Camp

COMMENTS: Stickup = 2.6'
Sample Tag Numbers 14111-14118

Hole Summary
11.0-78.0 Speckled Dolo. minor $ZnCO_3$ + ZnS
78.0-172.0 Intraclastic Dolo. minor $ZnCO_3$ in fracs
172.0-188.0 Speckled Dolo. minor diss ZnS.
182.0-206.0 micritic Dolo. siliceous blebs. no mineralization

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	ESTIMATED % SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
0					Sph		2.6-11.0 Overburden										
11							11.0-78.0 Speckled Dolostone Fractured fm. xtalline, med gy. speckled dolo. locally intraclastic and blotchy black texture. moderately fractured with mainly hairline fracs and open fracs. "coal" fracs appear to be filled with fm. xtalline, M gy, dolomite. weathered 1" zone frac micritic seam micritic frac filling? intraclastic weathered smithsonite py + sph? in fracs wh creamy Qtz. ZnO intraclastic dolo. ½" x 3" well fractured Qtz vein weathered py + sph within wh qtz. ZnO mineralization: Smithsonite frac fillings - mainly open fracs. Weathered py and sph locally occupy fracs + stylolites. ZnO also occurs along fracs 11-50 core locally quite broken up probably along hairline fracs.		11.0		11.0						
20									13.0	70%							
									16.0	67%			.25				
									18.0	78%							
									23.0	65%	111	77.5%		0.63	0.40	0.23	
									25.0	95%			.50				
30									26.5	64%							
									29.5	78%							
									31.0	60%	31.0						
									33.0	80%			.25				
									37.0	36.5%							
40									40.0	18%	112	48.5%		1.84	1.20	0.64	
									42.5	80%			1.0				
									44.0	27.5%							
50									50.0		50.0						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-10 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS: Sample Tag Numbers: 14113-14115

DESCRIPTIVE GEOLOGY

11.0 - 78.0 Speckled Dolostone

Fractured

- breccia lt. gy dolo matrix.
- 2" qtz filled cavity
- very intensely frac + crushed dolo.
- intrackastic
- 1/8" silicified seam.
- pisolites?

78.0 - 172.0 Intraclastic Dolostone

Fn xtalline, med-dr. gy subangular dolo. intraclasts within a matrix of fn xtalline lt. gy. dolostone. Another term which could be used is primary breccia. The indistinct boundaries of the frags suggests that dolomitization was post depositional.

- Fault breccia very intensely fractured and crushed dolo.
- discontinuous silica bands 3"
- Fault breccia 6" crushed dolo siliceous blebs pisolites?

mineralization: minim frac. fillings of Smithsonite and disseminations within fault breccia.

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE Zn / ZnCO3	ASSAYS % Zn Total	% Zn Soluble (ZnCO3)	% Zn (ZnS)	%
50.0		50.0						
	92.5%							
54.0								
	69%							
58.0								
	70.5%	113	80.5%	<.25 / 2.0	0.21	0.17	0.04	
66.0								
	88.5%							
73.0		73.0						
75.0	40%							
	97%	114	81.5%	<.25 / 1.0	0.39	0.34	0.05	
85.0								
	70%							
91.0		91.0						
	92.5%							
97.0								
	66%	115	88%	<.25 / .50	0.49	0.45	0.04	
101.0								
	100%							
107.0								
	60%							
109.0	47.5							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-10 CLAIM: Duo 4 PROPERTY: Goz Creek PAGE No. 3 of 4

COMMENTS:
Sample Tag Numbers: 14115-14118

DESCRIPTIVE GEOLOGY

78.0-172.0 Intraclastic Dolostone

109-172 The intraclastic texture becomes more obscure and is replaced locally by an inclusion texture, local qtz blebs and locally pisolitic. minor local wispy banded dolo.

Intraclastic dolo. matrix appears to be increasingly more microcrystalline

r. sph within qtz matrix of frac brx. pisolites?

pisolites

qtz Frac

pisolitic

y. sph with py.

SECTION	ESTIMATED % SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / ZnCO3	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
110		113.0	47.5%	115	80%	<.25 / .80	0.49	0.45	0.04	
		117.0	40%							
120			94%	116	76.5%	<.25 / .25	0.28	0.26	0.02	
		122.0								
		125.0								
			95%	117	95%	1.0 / .25	0.94	0.21	0.73	
130		130.0								
		132.0								
			93.5%	118	93.5%	<.25 / <.25	0.09	0.08	0.01	
140		143.0								
			87.5%							
		147.0								
150		150.0								
			100%							
		157.0								
			94%							
160		167.0								
		168.5	80%							
170			99%							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-10 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 4 of 4

SECTION | Alteration | Smithsonite | Silicification | FRACTURING | MINERAL | GEOLOGY | COMMENTS | ESTIMATED % Fe SULFIDES | DRILLING INTERVAL | % CORE RECOVERED | SAMPLE INT. & NUMBER | % RECOVERY / SAMPLE INT. | ESTIMATED GRADE | ASSAYS

DESCRIPTIVE GEOLOGY

170

78.0 - 172.0 Intraclastic Dolostone

99%

172.0 - 188.0 Speckled Dolostone

Fm xtalline, med. gy. speckled and wispy banded dolostone, slightly fractured. qtz. blebs and specks locally

178.0

180

pisolites?

Tr.

101%

188.0

170

188.0 - 206.0 Micritic Dolostone

r. sph. specks in milky wh. qtz.

Siliceous blebs

98%

micro-fm. xtalline, lt. gy. homogeneous micritic dolostone. Small blebs and streaks of clear silica. The silica blebs appear to be fillings of pre-existing vugs The blebs may also be pisolite replacements.

198.0

200

94%

206

206.0

End of BAF-74-10

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-11 | CLAIM: DUO 4 | PROPERTY: Goz Creek | OVERBURDEN: 13.5 | PAGE No. 1 of 12

ELEVATION: 4,679.1 | SECTION: 10+100 | DATE STARTED: Aug 3, 1974 | CONTRACTOR: Longyear | LOGGED BY: G.G Webb

NORTHING: 157,821.8 | INCLINATION: collar -45°, 300' -46°, 600' -45° | DATE FINISHED Aug 9, 1974 | CORE SIZE: BQ 16'-107', AQ 107'-675' | SCALE: 1"=10'

EASTING: 77,752.2 | AZIMUTH: 60° | TOTAL DEPTH: 675 | % CORE RECOVERY: 80.5% | CORE STORED AT: Camp

COMMENTS: stickup = 2.5'

Sample Tag Numbers: 14119-177, 14324-347

Hole Summary

16.0 - 62.0 Speckled Dolo. - Fractured, minor $ZnCO_3$
62.0 - 113.0 Altered Dolo. - fault. 60-121, diss. $ZnCO_3$
113.0 - 173.0 Speckled Dolo - Fractured, minor $ZnCO_3$ in fracs. + diss., minor ZnS in fracs.
173.0 - 214.0 Altered Dolo - Strong diss $ZnCO_3$, weak-mod. ZnS
214.0 - 284.0 - Silicified Dolo. - oolitic, Strong ZnS

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS: % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
0																
10																
16								16.0	27.5%	16.0						
20	+							18.0	9%	119	13%	<.25 / .25	0.05	0.04	0.01	
30					<.25			26.0	52.5%	26.0						
								33.0	30%	120	40%	<.25 / .25	0.06	0.04	0.02	
40								35.0	50%	35.0						
								37.0	40%	121	30%	<.25 / .25	0.06	0.04	0.02	
								37.0		99.0						
									56%	122	56%	<.25 / .25	0.06	0.05	0.01	
								46.0		46.0						
									35%	123	35%	<.25 / .25	0.06	0.05	0.01	

DESCRIPTIVE GEOLOGY

Note: BQ core 0-107'
AQ core 107'-675'

2.5-16.0 Overburden

16.0-62.0 Speckled Dolostone
Fractured

fn xtalline, med-dk. gy speckled dolostone. Core is very easily very broken up in rounded fractured with many slivers of white dolomite. Locally very intensely fractured and crushed - fault.

intensely fractured and crushed

qtz bleb

mineralization: minor smithsonite along fracs.

16-40 Core very broken up and ground
48-62

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-11 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 2 of 12

COMMENTS Sample Numbers: 14123-133

Hole Summary (cont.)

224.0-267.0 Speckled Dolo - minor frac. ZnS, $ZnCO_3$
267.0-293.0 Altered Dolo. - disseminated $ZnCO_3$
293.0-344.0 Silicified Dolo. Breccia - best min. disseminated ZnS in frags + matrix
344.0-404.0 Intraclastic Dolo - minor ZnS + $ZnCO_3$ fracs + vug fillings

DESCRIPTIVE GEOLOGY

16.0-62.0 Speckled Dolostone

Fractured

62.0-113.0 Altered Dolostone

Fault Zone 60-121

Fault gouge

qtz bleb in partially alt. dolo

Fm xtalline, lt. gy-lt. yellowish gy altered and partially altered dolostone. Core very broken up local fault breccia

partially altered dolo appears to have been protected from complete alteration by hairline silica fracs.

qtz blebs and hairline silica fracs

weathered sph? py in qtz frac + vug fillings

mineralization: Smithsonite disseminated within altered dolostone and minor amounts along fracs.

weathered sph? py in frac and vugs w. qtz

81-83, 86-91, 92-95, 104-106: vugs and fracs? containing qtz. and very weathered pyrite and sphalerite. Strong Smithsonite occurs in the adjacent altered dolostone.

arenaceous dolo 6' v.fm-v.co sand well rounded

BQ core

weathered py + sph? in qtz frac + vug fillings

HQ Core

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (Zn / $ZnCO_3$)	ASSAYS % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
54.0	35%	123	35%	<.25 / .50	0.06	0.05	0.01	
60.0	35%	124	38%	<.25 / .50	0.07	0.06	0.01	
62.0								
70.0	47.5%	125	47.5%	.25 / 6.0	0.11	0.08	0.03	
75.0	38%	126	38%	.25 / 6.0	0.10	0.07	0.03	
78.0	87%	127	84%	.25 / 5.0	0.08	0.06	0.02	
80.0	80%	128	80%	.50 / 5.0	5.72	5.36	0.36	
84.0	66%	129	66%	.50 / 2.0	2.00	0.90	1.10	
88.0	64%	130	64%	.50 / 2.0	3.84	3.56	0.28	
92.0	64%	95.0						
97.0	43%	131	68.5%	<.25 / .75	0.24	0.23	0.01	
98.5	100%							
100.0	72%	132	95%	.25 / 1.75	2.72	2.32	0.40	
103.0	100%	105.0						
107.0	34%	133	50.5%	<.25 / 2.0	0.87	0.80	0.07	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 85-DDH-11 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 3 of 12

COMMENTS: Sample Numbers: 14133-142

Hole Summary (cont.)

404.0 - 474.0 Inclusion Dolo. minor ZnS + $ZnCO_3$ frac. fillings

474.0 - 511.0 Speckled Dolo. v. minor frac $ZnCO_3$

511.0 - 675.0 micritic Dolo. v. minor and wide-spaced ZnS & $ZnCO_3$ in fracs.

DESCRIPTIVE GEOLOGY

62.0 - 113.0 Altered Dolostone
Fault Zone 50-120

113.0 - 173.0 Speckled Dolostone

Fractured

Fn xtalline, med-dr. gy speckled and wispy banded fractured dolo. From 159 the dolo. becomes increasingly more altered and lighter gy in color. The contact between this section and the next is very gradational. Frac filling is wh to cream dolomite.

mineralization: Smithsomite frac filling and minor disseminated smithsomite. Smithsomite increases in content from 159 to 123. V. minor frac fillings of sph with qtz.

113.0 - 136.0 Core very broken up and ground

qtz bleb

py

vertical frac.

6" lt. gy dolo seam and brx matrix

½" qtz frac with sph.

$ZnCO_3$ in hairline fracs.

3" qtz seam w. sph

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (ZnS / $ZnCO_3$)	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
113	34%	133	50.5%	<.25 / 2.0	0.87	0.80	0.07	
		113.0						
	14%	134	14%	<.25 / .50	0.37	0.37	0.00	
121.0		121.0						
123.0	15%							
124	20%	135	14.5%	<.25 / .25	0.15	0.14	0.01	
	12.5%							
127.0		127.0						
	27.5%							
131.0		136	23.5%	<.25 / .25	0.05	0.03	0.02	
133.0	22.5%							
	12.5%							
135.0		135.0						
137.0	52.5%	137	62%	<.25 / .50	0.09	0.05	0.04	
	64%							
141.0		141.0						
	89%	138	89%	<.25 / .25	0.07	0.06	0.01	
146.0		146.0						
148.0	80%	139	84%	<.25 / .25	0.21	0.18	0.03	
	87%							
151.0		151.0						
	57%	140	66%	<.25 / .50	0.18	0.17	0.01	
157.0								
		159.0						
	94%	141	94%	.50 / .75	1.36	1.00	0.36	
165.0		165.0						
	93%	142	92%	.50 / 1.0	0.38	0.27	0.11	
		170.0						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-11 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:

Sample Tag Numbers: 14143-14155

DESCRIPTIVE GEOLOGY

113.0-173.0 Speckled Dolostone
Fractured

173.0-214.0 Altered Dolostone

Altered + Partially altered

py frac. 2 sets of hairline fracs one at ~50° and the other at 90°

Siliceous fracs in fractured and corroded dolo

1/2" r sph

1" irregular r. sph blebs

brx and partially weathered dolo with frequent creamy wh qtz blebs silicified dolo frags

4" pisolites or oncolites?

mainly silicified with wh. qtz.

silicified dolo. r + y. sph. discontinuous silicification and wh creamy qtz

pisolitic

blebs and vug fillings of r sph in sil. dolo + wh. qtz.

pisolitic

pisolitic

pisolitic?

lt gy - lt yellowish gy altered and partially altered dolo. The parent rx appears to be fractured speckled and wispy banded dolo. and locally dolo. brx. Alteration appears to have proceded fracturing. Local continuous and discontinuous silicification increasing towards base of section. Frequent blebs and fracs of white creamy qtz again increasing to base of section. hairline silica fracs within partially altered dolo appear to have protected it from complete alteration.

mineralization: smithsonite disseminated within altered and partially altered dolo. and minor amounts along fracs r. sph frac. fillings and blebs, generally closely associated with wh. creamy qtz.

Note Sample 14153 was also assayed for ca:mg:SiO2 ratio.

214.0-224.0 Silicified Dolostone
pisolitic

micro-fn xtalline, lt-med gy. silicified dolostone, locally pisolitic. Fracs and blebs of r sph vugs and disseminations of smithsonite

224.0-267.0 Speckled Dolostone
Locally Altered or Slightly Altered

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE 2m Sphalerite	ASSAYS % Zn Total	% Zn Soluable (ZnSO4)	% Zn (ZnS)	%
170.0								
	92%	143	92%	.50 / 1.5	0.74	0.23	0.51	
175.0		175.0						
		144	102%	.50 / 5.0	2.20	2.04	0.16	
	102%	180.0						
		145	102%	1.50 / 25.0	6.56	4.76	1.80	
185.0		185.0						
		146	102.5%	.50 / 5.0	1.46	1.24	0.22	
		188.0						
	102.5%	147	102.5%	5.0 / 3.0	5.40	0.80	4.60	
		192.0						
195.0		148	93%	1.0 / 2.0	2.48	1.12	1.36	
		197.0						
		149	78.5%	.50 / 8.0	0.64	0.59	0.05	
	78.5%	200.0						
		150	78.5%	1.0 / 6.0	1.64	1.15	0.49	
205.0		205.0						
207.0	72.5%	151	78%	8.0 / 8.0	12.96	2.40	10.56	
		209.0						
	84%	152	84%	1.0 / 20.0	3.80	3.28	0.52	
		214.0						
215.0		153	97%	10.0 / 8.0	10.08	1.60	8.48	
	100%	219.0						
220.0		154	81.5%	12.0 / .50	11.48	1.20	10.28	
	73%	223.0						
		224.0						
	88%	155	88%	.25 / 2.0	2.20	2.00	0.20	
230.0								

ESTIMATED % Fe SULFIDES: .25

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-11 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:

Sample Tag Numbers: 14156-14167

DESCRIPTIVE GEOLOGY

224.0-267.0 Speckled Dolostone

Locally Altered or Slightly Altered

fn xtalline, med. gy. speckled and wispy banded dolo. which is locally altered or slightly altered. Weak fracturing frequent open fracs. and frequent silicified fracs.

mineralization:

Mainly very weak Smithsomite along open fracs. few specks of r.sph. with qtz. in fracs. 245-255 r.sph with wh creamy qtz and silica im fracs., frequent specks or stringers with im hairline silica fracs.

Note Samples 14165-171 were also assayed for Ca:Mg:SiO2 ratios.

267.0-293.0 Altered Dolostone

lt. gy - slightly yellowish gy. altered dolo. parent tx. appears to be wispy banded dolo. 283-293 The mx appears to be an altered dolo brx. with silicified frags and an earthy dolo. matrix. Color changes from lt. yellow from 253-287 to a lt. brown from 287-293

mineralization: disseminated Smithsomite in altered dolo.

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS % Zn Total	% Zn Soluble (2N HCl)	% Zn (Zn-S)	%
230.0								
233.5	86%	156	78%	.50 / .50	1.24	0.58	0.66	
235.0	60%							
237.0	89.5%	157	85.5%	<.25 / .25	0.68	0.56	0.12	
240.0	98.5%	158	88.5%	<.25 / .50	0.31	0.28	0.03	
242.0	82%	245.0						
247.0		159	89%	2.0 / .50	2.12	0.43	1.69	
250.0	94%	160	94%	2.0 / .50	2.00	0.35	1.65	
255.0		161	100%	.50 / .50	0.37	0.29	0.08	
261.0	103%	162	103%	.75 / .75	0.27	0.20	0.07	
267.0		267.0						
		163	101.5%	<.25 / 1.5	1.54	1.54	0.00	
272.0	101.5%	164	101.5%	<.25 / 1.0	0.72	0.65	0.07	
277.0		277.0						
		165	101%	<.25 / .75	0.83	0.83	0.00	
283.0	101%	166	101%	.50 / 4.0	2.80	2.68	0.12	
287.0		287.0						
	55%	167	55%	1.0 / 10.0	5.52	4.64	0.88	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-11 CLAIM: Duo 4 PROPERTY: Goz Creek

COMMENTS:

Sample Tag Numbers: 14167-14176

DESCRIPTIVE GEOLOGY

267.0-293.0 Altered Dolostone

pisolitic?

293.0-344.0 Silicified Dolostone Breccia

brx?

1'/ft. brn sil dolo vl. med gy sil. dolo frac.

micro-fn xtalline, lt gy micritic dolo. frags in a med-dk. gy, fn xtalline dolo. matrix. locally the matrix appears to be partially or completely composed of sph. fragments become less distinguishable within areas of very heavy mineralization and towards the bottom of the section. frequently sph. is disseminated quite heavily within the fragments as well as within the matrix. frequent lt. gy qtz blebs - pisolites?

colloform sph

v. well defined brx. frac in vuggy dolo frag

pisolitic?

predominantly y. sph

pisolitic?

predominantly r. sph

pisolites?

mineralization: yellow and red sphalerite both disseminated within matrix and fragments and as massive sections y. sph predominates from 293-315, r. sph from 315-344. smithsonite disseminated locally along with the sphalerite

banding 45-60° creamy wh qtz sedim. 2"

pisolites?

pisolites?

344.0-404.0 Intraclastic Dolostone

Fractured

ESTIMATED Fe SULFIDES %	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE zns / zncos	ASSAYS % Zn Total	% Zn Soluble (Zn(SO4))	% Zn (ZnS)	%
	293.0	55%	167 293.0	55%	1.0 / 10.0	5.52	4.64	0.88	
			168 297.0	67%	2.5 / 5.0	4.10	1.32	2.78	
		67%	169 301.0	67%	4.5 / 2.0	8.24	0.62	7.62	
	302.0	100%							
	304.5		170 308.0	96%	20.0 / 3.0	18.80	1.15	17.65	
		101%							
	318.0		171 318.0	99%	30.0 / 5.0	28.00	0.19	27.81	
		97%							
	322.0								
Tr		29%	172 330.0	62%	25.0 / .25	19.60	0.14	19.46	
	328.0								
2		92%							
	333.0		173 336.0	94.5%	10.0 / .25	14.64	0.15	14.49	
		97%							
	339.0		174 344.0	100%	30.0 / .50	28.15	1.08	27.07	
Tr		102%							
			175 349.0	102%	.75 / .50	0.67	0.20	0.47	
	349.0	99%	176	90%					

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-11 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 7 of 12

COMMENTS:

Sample Tag Numbers: 14176-14177
14324-14331

DESCRIPTIVE GEOLOGY

344.0-404.0 Intraclastic Dolostone

Fractured

Fm xtalline, lt gy dolo with speckled and wispy banded fm xtalline, med. gy dolo. intraclasts; generally the intraclasts have fuzzy boundaries. Frequent fracs. with a wh dolo filling. locally the frac. margins are fuzzy. locally hairline silica fracs some containing specks of streaks of r. sph. occasional silica blebs.

mineralization: very weak r. to y sph. generally associated with pyrite along stylolites or within silica filled hairline fracs. minor smithsonite within fracs and vugs. Trace to .5% py mainly in stylolites.

Note Sample 14177 was also assayed for Ca:mg:SiO_2 ratios.

hairline silica fracs offset by recent hairline fracturing

Qtz xtals.

r. sph xtal in vuggy Qtz.

r. sph specks in silica frac.

r. sph blebs within silica bleb

r. sph xtal within drusy qtz vug

387-404 The texture changes gradually to include a significant amount of inclusion dolostone.

inclusion dolo. with wh. qtz accompaning the wh. dolo. locally drusy qtz.

404.0-474.0 Inclusion Dolostone

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
		176	99%	.50 / .50	0.67	0.09	0.58	
355.0	99%							
359.0		177	95.5%	<.25 / <.25	0.15	0.05	0.10	
365.0	93%							
368.0		324	93%	1.50 / .25	1.60	0.21	1.39	
370.0		325	92%	<.25 / .25	0.08	0.05	0.03	
378.0	92%							
		326	94%	.50 / .25	0.44	0.07	0.37	
382.0	94%	327	94%	1.0 / .25	0.24	0.06	0.18	
387.0								
Tr.	80%	328	78%	.75 / .50	0.68	0.10	0.58	
391.0								
393.0	71%	329	74%	<.25 / 1.0	0.16	0.07	0.09	
397.0								
398.0	90%	330	90%	<.25 / .25	0.17	0.11	0.06	
405.0								
407.0	94%	331	93%	1.50 / .25	0.88	0.10	0.77	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-11 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 8 of 12

COMMENTS:
Sample Tag Numbers: 14331-14340

DESCRIPTIVE GEOLOGY

404.0-474.0 Enclusion Dolostone
Fractured

- r.sph in hairline Silica fracs.
- intraclastic
- wispy banded dolo
- pyrite filled stylolites
- speckled dolo
- Fractured micritic
- Strongly mineralized over short intervals
- intra clastic
- v fn brx. very intense hairline fracturing crushed rx minor $ZnCO_3$ in open fracs
- intraclastic
- mainly micritic with irregular 1/16" blebs + streaks of silica highly hairline fractured very intensily crushed? ppt sph.

Fm xtalline lime, lt gy dolo. with an inclusion texture. med-dk gy, fn xtalline dolo. intraclasts occur frequently throughout the section but are usually very widely spaced. Frequent 1-2' sections of what appears to be a mottled micritic dolostone local hairline fracs and small 1/16" blebs of silica. The entire section is interprimted by hairline fracs healed with wh dolo. minor local clotted texture.

mineralization: minor and infrequent r.sph fracs. Fillings. The sph occurs in association with wh. qtz. Py occurs locally in trace amounts. Py also occurs along with the r.sph. Smithsonite occurs in open and closed hairline fracs.

Fr.

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
414.0	94%	331 412.0	93%	1.50 / .25	0.88	0.10	0.77	
421.0	87%	332 422.0	79.5%	<.25 / .25	0.15	0.03	0.12	
431.0	101%	333 430.0	101%	2.0 / .25	1.40	0.07	1.33	
		334 485.0	94%	.25 / .50	0.42	0.19	0.23	
441.0	92%	335 440.0	92%	1.5 / 2.0	2.15	0.73	1.42	
		336 444.0	95%	.50 / 1.0	0.63	0.45	0.18	
451.0	95.5%	337 454.0	94%	<.25 / <.25	0.15	0.05	0.10	
461.0	90%	338 460.0	90%	<.25 / .50	0.09	0.05	0.04	
		339 466.0	99%	<.25 / 2.0	0.09	0.05	0.04	
	101%	340 470.0	101%	<.25 / 1.0	0.29	0.23	0.06	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BGF-74-11 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 9 of 12

COMMENTS:

Sample Tag Numbers: 14341-14344
: 14458

DESCRIPTIVE GEOLOGY

404.0 - 474.0 Inclusion Dolostone
Fractured

474.0 - 511.0 Speckled Dolostone

intraclastic

Fm xtalline, lt.-med gy. speckled dolo. with 1'-2' sections of intraclastic dolo. local inclusion dolo. scattered 1/16 - 1/4" bleb of silica. minor hairline fracturing
mineralization: very minor blebs and frac fillings of r. sph. accompanied by silica. minor smithsonite along fracs. and within stylolites.

intraclastic

stylolites w. bk argil filling
r. sph bleb

intraclastic

Note: Sample 14458 was taken primarily for Ca:mg:SiO_2 ratios

r. sph in hairline silica frac
intraclastic

511.0 - 675.0 micritic Dolostone

vug w. drusy clear qtz + bleb of gl.
micritic dolo intraformational breccia - micritic frags rimed gy matrix
r. py bleb at junction of stylolites
r. sph specks with py + silica
minor inclusion texture

micro-fm xtalline, lt. gy micritic dolo, locally very stylolitic and locally bonded with bands of dk. gy dolo oriented at 40°.
511-549. minor inclusion texture.
544-637 frequent slight to heavy inclusion and pseudo breccia tex. Sections of slightly speckled dolo.
637-675 homogeneous micritic dolo. frequent silica filled fracs

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / ZnCO3	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
471.0	101%	470.0						
		341	96%	<.25 / .50	0.11	0.10	0.01	
475.0	94.5%	475.0						
		342	94.5%	<.25 / .25	0.07	0.04	0.03	
480.0		480.0						
481.0	82.5%							
485.0		343	91.5%	<.25 / <.25	0.03	0.02	0.01	
	100%							
489.0		490.0						
	91%							
498.0		498.0						
		458	82%	<.25 / <.25	0.11	0.08	0.03	
	82%	503.0						
504.0								
	94%							
509.0								
511.0	50%							
	69%							
516.0								
	92%							
		525.0						
526.0		344	97%	<.25 / <.25	0.09	0.02	0.07	
	78%	530.0						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-11 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 10 of 12

COMMENTS:

Sample Tag Numbers: 14345-14348

DESCRIPTIVE GEOLOGY

511.0-675.0 Micritic Dolostone

- hairline y.sph frac
- dr. gy dolo banding 40°
- very stylolitic contains py.
- drusy Qtz.
- dr. gy dolo banding 40°
- intraclastic?
- speckled dolo.
- speckled dolo.
- inclusion dolo
- speckled dolo.
- pseudobreccia
- pseudobreccia
- speckled dolo.

and irregular silica blebs

mineralization:

Very minor widely spaced blebs and frac fillings of r. sph. the sph. occurs within silica hairline fracs. or with py in stylolites or with creamy wh. qtz in vugs. Smithsonite occurs in fracs and with py in stylolites

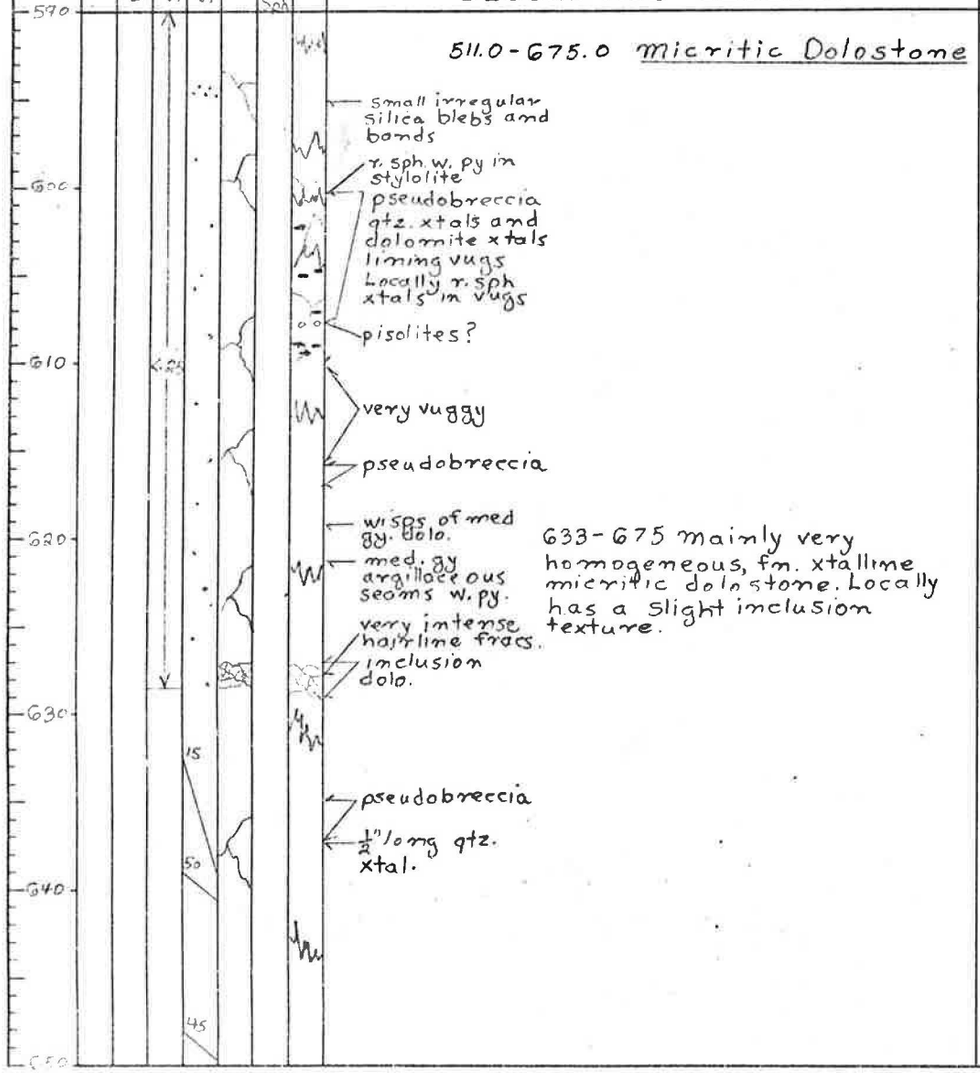
549-537 mainly micritic with frequent sections of slight to heavy inclusion texture and pseudobreccia locally speckled and wispy banded texture. slightly vuggy to locally very vuggy.

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE Zn / ZnCO3	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
530.0								
	98%	345	98%	1.0 / <.25	0.34	0.02	0.32	
536.0		536.0						
	85%	346	85%	<.25 / .25	0.03	0.02	0.02	
		540.0						
544.0		347	86%	<.25 / 1.0	0.04	0.02	0.02	
		546.0						
	88%	348	88%	<.25 / <.25	0.03	0.02	0.01	
551.0		551.0						
	74%							
557.0								
	17.5%							
561.0								
	10%							
571.0								
	75%							
582.0								
	100.5%							

ESTIMATED % SULFIDES: 1.0 / Tr

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-11 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 11 of 12



ESTIMATED % Fe. SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS							
						%	%	%	%				
Tr.	592.0	101%											
		94%											
	600.0												
		95%											
	607.0												
		59%											
	613.0												
		80%											
	617.0												
		96%											
	622.0												
		37%											
	629.0												
		82.5%											
	633.0												
		62%											
	641.0												
		95%											

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-11 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:

Sample Tag Number: 14459

DESCRIPTIVE GEOLOGY

511.0 - 675.0 Micritic Dolostone

Note Sample 14459 was taken primarily for Ca : Mg : SiO_2 ratio.

v. fn. breccia 1"

End of BAF-74-11

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % Fe_2S SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
650				60°				652.0	95%							
									91%							
								657.0		657.0						
660				15°						459	88%	<.25 / <.85	0.03	0.01	0.02	
									88%	662.0						
								667.0								
								669.0	35%							
670				60°				672.0	60%							
									32%							
675								675.0								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-12 | CLAIM: DUO 4 | PROPERTY: Goz Creek | OVERBURDEN: 16.5 | PAGE No. 1 of 12

ELEVATION: 4,680.0 | SECTION: 10+100 | DATE STARTED: Aug 9, 74 | CONTRACTOR: Longyear | LOGGED BY: G G Webb

NORTHING: 157,820.0 | INCLINATION: −90° | DATE FINISHED Aug 15, 74 | CORE SIZE: BQ 18-33, AQ 33-712 | SCALE: 1" = 10'

EASTING: 77,747.8 | AZIMUTH: — | TOTAL DEPTH: 712 | % CORE RECOVERY: 79% | CORE STORED AT: Camp

COMMENTS: Stickup = 1.5'
Sample Tag Numbers: 14235-14258

Hole Summary
18.0-140.0 Speckled Dolo.-Fractured, weak $ZnCO_3$ in fracs + diss. weak ZnS in fracs.
140.0-175.0 Inclusion Dolo.- v. minor ZnS in vugs.
175.0-197.0 Micritic Dolo.- no mineralization
197.0-344.0 Inclusion Dolo.- v. minor vug + frac. ZnS
344.0-500.0 micritic Dolo. - no mineralization
500.0-680.0 Inclusion, mottled Dolo.- no mineral

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
					Sph											
								18.0		18.0						
									47.5%	235	47.5%	<.25 / .75	0.08	0.06	0.02	
								22.0		22.0						
									39%	236	41%	<.25 / .50	0.06	0.05	0.00	
								26.0	45%							
								28.0		28.0						
									75%							
								30.0	20%	237	36%	<.25 / .25	0.06	0.04	0.02	
								33.0	10%							
								36.0		36.0						
									88%	238	28%	<.25 / 5.0	0.08	0.08	0.00	
								43.0		43.0						
									10%							
								45.0	23%	239	18%	<.25 / 1.0	0.15	0.13	0.02	
								48.0		48.0						
									25%	240	25%	.50 / 3.0	2.40	2.30	0.10	
								52.0		52.0						
									60%	241	60%	1.0 / 3.0	1.48	1.22	0.26	
								58.0		55.0						
									69%	242	69%	.25 / 2.0	0.10	0.08	0.02	

Note BQ core 0-33'
AQ core 33'-712'

1.5-18.0 Overburden

18.0-140.0 Speckled Dolostone
Fractured

Fn xtalline, lt. yellowish gy to med gy speckled and wispy banded dolostone. locally altered or partially altered. The alteration or weathering gives these sections of core the lt. yellowish gy color. The core generally is very broken up between 18 and 72'. The section is fractured with intensity decreasing towards the bottom. Amount of alteration decreases to the base of the section. local fault breccia.

mineralization: mainly smithsonite dissemminated within altered dolo. and as frac fillings. sections of r. sph. frac fillings which are strongly mineralized but very intermittent. occasionally the sph occurs as botryoidal masses within fracs. Sph is generally weathered and may occur with minor py but this lessens deeper in the section. 18-60 Core very broken up only locally can frac. orientations be taken

drusy Qtz. xtals
lt. y. gy dolo. intensely frac + crumbly fault breccia

lt. y. gy. dolo intensely frac + crumbly fault breccia?

lt. y. gy dolo. weathered r. sph in honeycombed wh. qtz. partially altered

1/2" colloform r. sph seam

weathered r. sph. + py. in fracs.

fault breccia

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-12 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 2 of 12

COMMENTS:
Sample Tag Numbers: 14242-14254

Hole Summary (cont.)
680.0-712.0 Arenaceous Dolo. no mineralization

DESCRIPTIVE GEOLOGY

18.0-140.0 Speckled Dolostone
Fractured

66-75 H. gy. fn xtalline dolo locally blotchy speckled tex. banded speckled and inclusion tex. all alternating over short distances

60-150 Core generally quite broken up - decreasing slightly towards 150.

103-105 Note very poor core recovery 3.5" mineralized piece followed by unmineralized ground core to the 105 divider

SECTION	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / ZnCO3	ASSAYS % Zn Total	% Zn Soluble (ZnCO3)	% Zn (ZnS)	%
60	64.0	69%	242	69%	.75 / 2.0	0.10	0.08	0.02	
	68.0	74%	243	74%	1.25 / .50	0.04	0.03	0.01	
70	73.0	58%	244	58%	1.25 / .75	0.05	0.05	0.00	
	76.0	88%	245	84.5%	1.25 / .50	0.04	0.03	0.01	
80	82.0	79%	246	79%	2.0 / 5.0	2.76	1.26	1.50	
	86.0	41.5%	247	51%	.50 / .50	0.25	0.19	0.06	
90	94.0	69.5%	248	69.5%	2.0 / .75	0.77	0.19	0.58	
	98.0	61%	249	64%	1.0 / .25	0.47	0.11	0.36	
100	103.0	66%	250	66%	2.0 / 1.0	2.80	1.72	1.08	
	105.0	35%	251	74%	1.5 / .75	2.08	0.32	1.76	
110	108.0	100%	252	82%	.50 / .50	0.34	0.08	0.26	
	113.0	67.5%	253	62.5%	1.0 / .75	1.32	0.24	1.08	
120	117.0	52.5%							
	119.0	65%	254						
150	120.0								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-12 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:
Sample Tag Numbers: 14254-14258

DESCRIPTIVE GEOLOGY

18.0-140.0 Speckled Dolostone

- very crumbly core, very intensely fractured core v. broken up
- smithsonite frac fillings with qtz blebs
- vertical hairline silica frac.

Fractured

140.0-175.0 Inclusion Dolostone

fm xtalline, lt. gy inclusion dolo. The inclusions are fm xtalline, lt-med gy. irregular blebs with fuzzy boundaries surrounded by med. xtalline, lt.gy.-wh. sparry dolomite. local sections of speckled and wispy banded dolo. frequent qtz blebs.
Mineralization: minor specks of r. sph in vugs and along silica fracs.

- speckled dolo.
- qtz. seam and large qtz. xtal.

175.0-197.0 Micritic Dolostone

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY/ SAMPLE INT.	ESTIMATED GRADE (ZnS / ZnCO3)	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
120.0								
121.0	50%							
123.0	52.5%	254	50%	1.0 / 8.0	0.66	0.19	0.47	
125.0	40%							
128.0	20%							
128.0	40%	255	36%	<.25 / .50	0.06	0.02	0.04	
129.5	63%							
131.0								
	92%							
134.0				<.25 /				
	82%	256	88%		0.05	0.02	0.03	
137.0				<.25				
	40%							
140.0								
	27%	257	27%	<.25 / <.25	0.02	0.02	0.00	
150.0								
	70%							
153.0				<.25 /				
155.0	17.5%	258	56%		0.04	0.01	0.03	
	53.5%			<.25				
158.0								
160.0								
	78%							
167.0								
	100%							
177.0								
	100%							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-12 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 4 of 12

COMMENTS:
Sample Tag Numbers: 14349-14355

DESCRIPTIVE GEOLOGY

175.0-197.0 Micritic Dolostone

fn xtalline, lt.gy micritic dolo. with local short sections of inclusion dolo. and wispy banded dolo.
locally quite vuggy generally slightly vuggy.

- wispy banded
- slight crackle breccia.
- inclusion dolo. minor smithsomite
- speckled dolo.
- vuggy
- co. xtalline
- speckled dolo

197.0-344.0 Inclusion Dolostone

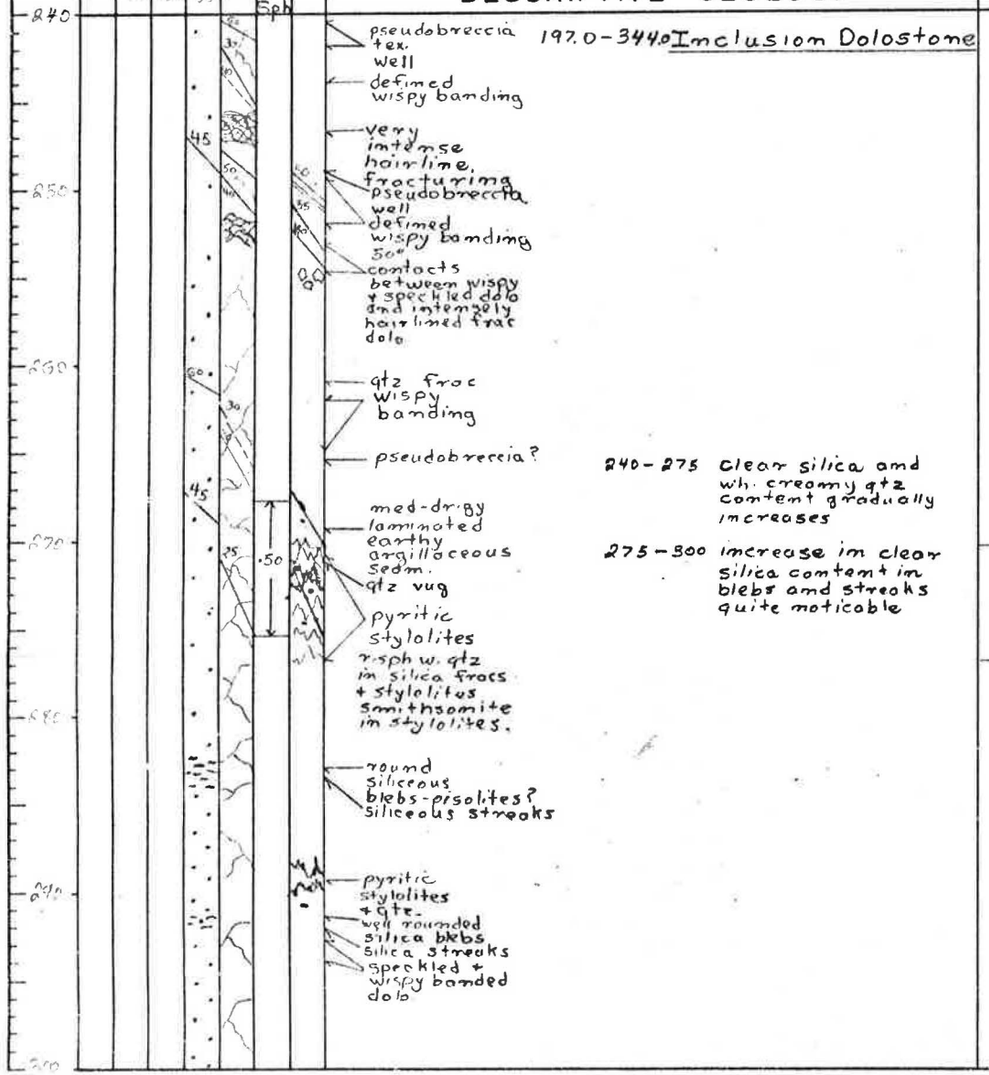
med xtalline, lt.gy inclusion dolo. The inclusions consist of fn xtalline, med gy dolo blebs with fuzzy boundaries within med xtalline lt.gy to wh. sparry dolomite. Frequent sections of slight inclusion texture and micritic dolo. The inclusion texture appears generally to be a product of recrystallized micritic dolo. and locally as a result of a dolomitized breccia.
locally the inclusion tex tends towards a pseudo-breccia texture with increased amounts of secondary dolomite and vugs.
Frequent qtz. blebs surrounded by wh. sec. dolomite.
generally slightly vuggy
Fracturing appears to consist of a slight shattering producing fairly widespaced hairline fracs.

- speckled dolo.
- crackle brx. qtz xtals in large vug
- r. sph in fracs and vugs w. minor py.
- pisolites
- wispy banded dolo with v. distinctive bands.
- pseudobreccia tex. r. sph in vugs
- wispy banded
- wh. creamy Qtz seam 1"
- qtz seams and blebs.
- pseudobreccia texture

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
182.0	100%							
	87%							
188.0								
	99%							
193.0								
195.0	92.5%							
	90%							
200.0		200.0						
	100%	349	100%	<.25 / <.25	0.02	0.01	0.01	
205.0		205.0						
		350	99.5%	.50 / <.25	0.18	0.02	0.16	
	99.5%	210.0						
		351	99.5%	5.0 / <.25	4.30	0.06	4.24	
212.0		212.0						
215.0								
	58.5%	352	76%	<.25 / <.25	0.08	0.01	0.07	
218.0								
	67.5%							
220.0		220.0						
		353	92%	1.0 / <.25	0.82	0.03	0.79	
223.0		223.0						
	92%	354	92%	.75 / <.25	0.60	0.02	0.58	
227.0		227.0						
229.0		355	87%	<.25 / <.25	0.09	0.02	0.07	
	84%	232.0						
235.0								
	89%							
239.5								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-12 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 5 of 12



CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-12 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 6 of 12

COMMENTS: Sample Tag Numbers: 14356-14359

DESCRIPTIVE GEOLOGY

micritic dolo

intraclastic speckled dolo.

197.0-344 Inclusion Dolostone

292-344 Intensity of inclusion texture decreases towards the base of the section. The rx. gradually becomes a micritic dolostone. Local discrete blebs of wh. sparry dolomite. The rx. also becomes more stylolitic. Locally

wispy banding

vertical stylolite w. py. + minor sph

wispy banded

344.0-500.0 Micritic Dolostone

crude banding and blebs of lt. gy dolo in lighter gy. rx.

inclusion tex.

micro-fm xtalline, lt. gy-very lt. gy. micritic dolo. very homogeneous tex. minor sections of speckled and wispy banded dolo, inclusion dolo. and clotted dolo. generally slightly vuggy locally tight to quite vuggy.

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY/ SAMPLE INT.	ESTIMATED GRADE Zn / ZnCO3	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)
303.0	101%						
		302.0					
	90%	356	90%	<.25 / <.25	0.04	0.02	0.02
313.5		312.0					
		357	95%	.75 / <.25	0.08	0.01	0.07
	97%	317.0					
		358	97%	1.0 / <.25	0.53	0.03	0.50
324.0		322.0					
		359	98.5%	<.25 / <.25	0.06	0.02	0.04
	99.5%	327.0					
334.0							
	100%						
344.0							
	92.5%						
354.0							
	98%						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-1A CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:

Sample Tag Number: 14460

DESCRIPTIVE GEOLOGY

344.0-500.0 Micritic Dolostone

- vuggy
- inclusion dolo
- vertical hairline silica frac.
- wispy banding

local clear silica hairline fracs. and blebs

sections of discontinuous bands and streaks of lt. gy dolo. in a lighter gy-almost white dolo. These bands and streaks are generally randomly oriented between 60-80°

- speckled and wispy banded dolo

Note: Sample 14460 was taken primarily for Ca:Mg; SiO2 ratios.

413-482 Frequent crude banding and streaks of lt. gy dolo in a lighter gy. background

- lt gy, random and discontinuous streaks

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE Zn S / Zn CO3	ASSAYS % Zn Total	% Zn Soluable (Zn CO3)	% Zn (Zn S)	%
360					Sph			364.0	98%							
370				30				379.0	94%							
380				40				380.0	100%							
								381.5	67%							
390								391.5	95.5							
400			50 / 65	45 / 65				398.0	100%							
								404.0	69%							
								406.0	23%							
								408.0	50%							
410										410.0						
									91%	460	91%	< .25 / < .25	0.02	0.01	0.01	
								415.0								
								416.0	75%							
								417.0								
420									58%							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-12 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:

DESCRIPTIVE GEOLOGY

344.0 - 500.0 Micritic Dolostone

lt. gy randomly oriented streaks and bands in a lighter gy dolo.

lt. gy random bands and streaks

intense hairline fracturing

argillaceous seam

pyritic stylolites

Tr.

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS %	%	%	%				
420								422.0	58%											
								423.0	45%											
								425.0	42.5%											
430								431.0	72%											
								436.0	97%											
440				10				441.0	100%											
								446.0	97%											
450								450.0	96%											
								460.0	84.5%											
470							Tr.	468.0	85%											
								474.0	100%											
490									40%											

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-12 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 9 of 12

SECTION | Alteration | Sericitization | Silicification | FRACTURING | MINERAL | GEOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | ESTIMATED % Fe SULFIDES | DRILLING INTERVAL | % CORE RECOVERED | SAMPLE INT. & NUMBER | % RECOVERY/ SAMPLE INT. | ESTIMATED GRADE | ASSAYS

344.0-500.0 Micritic Dolostone

- speckled dolo
- py. along fracs.
- parallel hairline fracs.
- inclusion dolo.
- intra formational breccia. micritic frags, dr. gy matrix. inclusion dolo
- r. sph in wh. dolo. assoc. with py.

500.0 -680.0 Dolostone

Inclusion, Mottled Textures

- pyritic stylolites
- micritic dolo.
- silicified frags
- micritic dolo.
- pyritic stylolites
- banding 35° bedding

fm. xtalline, med-dr. gy. dolostone. frequent sections of inclusion texture containing inclusions of med. gy dolo. with fuzzy boundaries within wh. sparry dolomite. The inclusion texture frequently tends to a pseudobreccia texture with an increase in vugs. Locally and particularly toward the end of the section the wh. sparry dolomite occurs more as clotts within dr. gy dolo. Frequent sections of mottled dolo. generally with irregular blebs of dolo. within lighter gy dolo but also occurring visa versa. Local 1-4' sections of generally homogeneous micritic dolostone. Frequent <1' laminated sections with laminations

DRILLING INTERVAL	% CORE RECOVERED
482.0	40%
488.0	78%
496.0	91%
499.0	32%
508.0	93%
517.0	96%
586.0	96%
532.0	78%
538.0	88%
	73%

ESTIMATED % Fe SULFIDES: 5.0, Tr

ASSAYS: % % % % | | | | |

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-12 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:

DESCRIPTIVE GEOLOGY

500.0-680.0 Dolostone

Inclusion, Mottled Textures

varying from 50-75°. From about 580'-680 there are frequent convolute laminations. Locally these very closely resemble Stromatolites. Locally wispy bands within micritic homogeneous dol. local sections of intraformational breccia with slightly rounded lt-gy micritic frags within a matrix of med-dk gy dolo. Generally very weakly fractured except for occasional sections of intense hairline fracturing. local sections of dolo. breccia with a wh. sparry dolomite matrix. Frequent stylolites with py and stylolitic dislocations

py with snow on roof tex laminated frag.

convolute laminations

micritic

cross bedding? 60°+70°

py with snow on roof tex.

intense hairline fracturing and frac breccia.

laminations 65°

micritic dolo.

convolute laminations

micritic

pseudobreccia tex.

v. fn breccia

pseudobreccia tex.

convolute laminations

laminations 50°-75°

Tr.

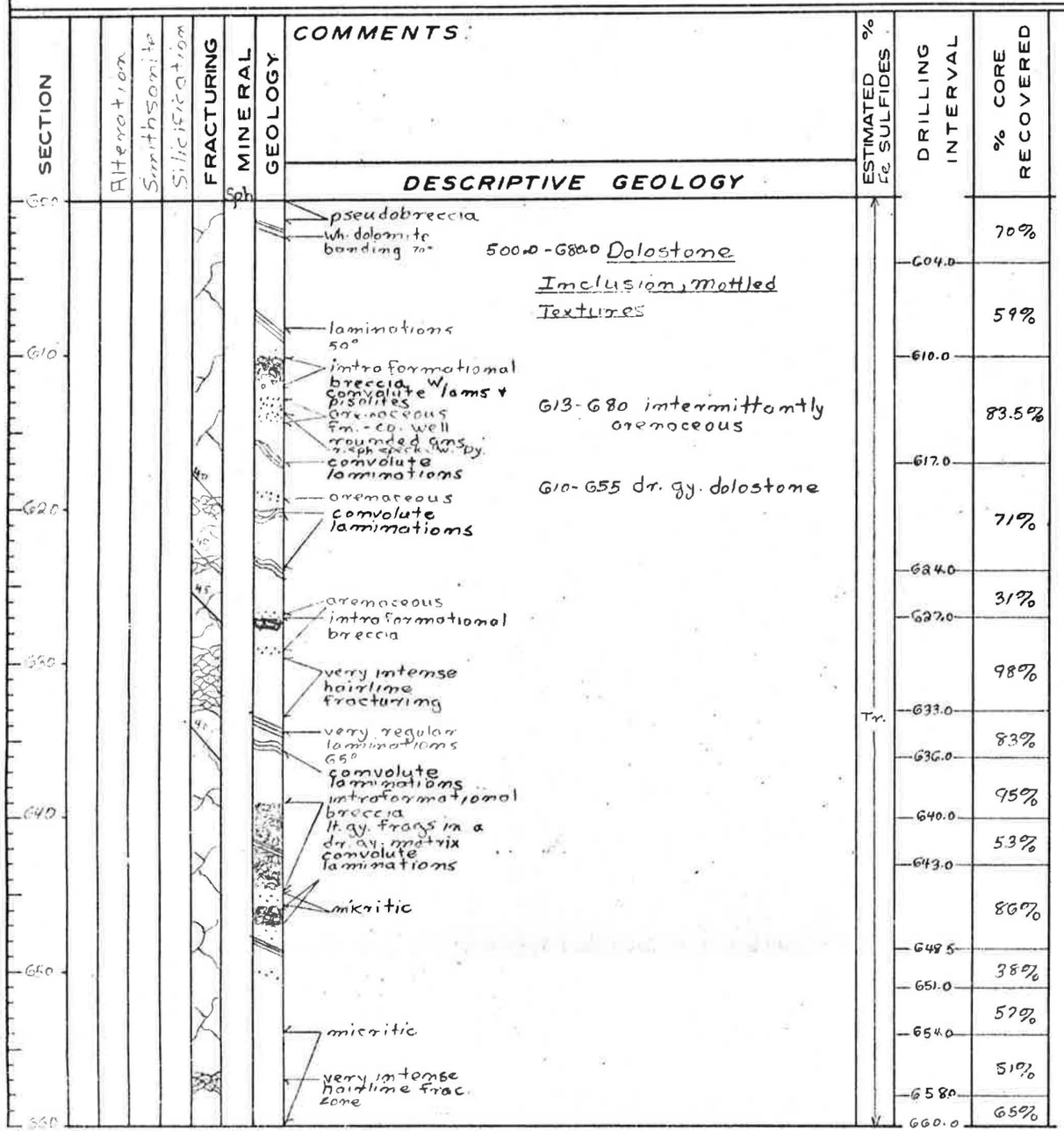
SECTION	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY/ SAMPLE INT.	ESTIMATED GRADE	ASSAYS
540	541.5	73%				
		96%				
560	551.5					
		57%				
	555.0					
		87.5%				
	559.0					
580		104%				
	563.0					
		86%				
600	571.0					
		26%				
	578.0					
		88%				
	582.0					
620		97%				
	596.0					
		70%				
640						

ESTIMATED % Fe SULFIDES

ASSAYS: % % % % % % % %

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-12 CLAIM: DUO 4 PROPERTY: Goz Creek



CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-12 CLAIM: DUO 4 PROPERTY: Goz Creek

SECTION | Alteration | Silicification | FRACTURING | MINERAL | GEOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | ESTIMATED % Fe SULFIDES | DRILLING INTERVAL | % CORE RECOVERED | SAMPLE INT. & NUMBER | % RECOVERY / SAMPLE INT. | ESTIMATED GRADE | ASSAYS (%, %, %, %, , , ,)

660

intraformational breccia arenaceous convolute laminations

500.0-680.0 Dolostone

Inclusion, Mottled Textures

670

intraformational breccia convolute laminations

intensily fractured crushed frags intraformational brx.

680

680.0-712.0 Arenaceous Dolostone

inclusion tex. show on roof py.

Intraformational breccia arenaceous frags show on roof py.

mottled micritic dolo.

micro-fn xtalline, H gy. arenaceous micritic dolo. The micritic dolo. is not completely homogeneous but rather mottled with a slightly darker gy. dolo on a fine scale. The sand tends to be patchy and its content varies from a few percent locally to a sandstone over intervals of a few inches. The sand is very fine to coarse grained and subangular to fairly well rounded. local intraformational breccia and inclusion tex. The contact with the unit above is gradational and was chozen where sand seemed to be continuous.

690

2" stylolite encased bleb of H. gy dolo

strong py in 15° froc

laminated 90°

mottled micritic dolo

700

convolute laminations

intraformational breccia

710

intraformational breccia

712

Tr.

DRILLING INTERVAL	% CORE RECOVERED
660.0	
	79%
664.0	
	93%
671.0	
	92%
674.0	
	78%
680.0	
	81.5%
690.0	
	100%
700.0	
	106%
708.0	
	96%
712.0	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-13 | CLAIM: DUO 4 | PROPERTY: Goz Creek | OVERBURDEN: 16.5 | PAGE No. 1 of 6

ELEVATION: 4,677.9 | SECTION: 10+100 | DATE STARTED: Aug 16,74 | CONTRACTOR: Longyear | LOGGED BY: G.G. Webb

NORTHING: 157,775.6 | INCLINATION: -90° | DATE FINISHED Aug 18,74 | CORE SIZE: BQ 19-81.5, AQ 81.5-335 | SCALE: 1" = 10'

EASTING: 77,665.9 | AZIMUTH: — | TOTAL DEPTH: 335 | % CORE RECOVERY: 90% | CORE STORED AT: Camp

COMMENTS: Stickup = 2.5' Sample Tag Numbers: 14259-271

Hole Summary

19.0-146.0 Speckled Dolo - fractured v.w. frac ZnCO3
146.0-225.0 micritic Dolo - inclusion tex. few local r. sph specks
225.0-250.0 Speckled Dolo - no mineralization
250.0-314.0 micritic Dolo - partially silicified vuggy, no mineralization
314.0-335.0 micritic Dolo - homogeneous - no min

SECTION	Alteration	Smithsemite	Silicification	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / ZnCO3	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
10							Note BQ core 20.0-81.5 AQ core 81.5-335.0 2.5-19.0 Overburden										
19	+	.25		35	Sph		19.0-146.0 Speckled Dolostone Fractured Fn xtalline, med. gy dolo with a speckled and wispy banded texture. locally altered or partially altered particularly near top of section. Frequent intraclastic pf mod. gy speckled dolostone within it gy to lt yellowish gy only slightly speckled dolo. Section generally moderately fractured with frac intensity decreasing to base of section. local breccia and crackle breccia. Frac and breccia matrix is a yellowish white sparry dolomite. Fault - crushed and crumbly tx. 47-49. Frequent pinkish sparry dolomite. mineralization: minor smithsonite frac fillings. weathered sph and py frac fillings locally. 19-23 Core very broken up and ground 41-45 Core very broken up 47-49 ibid 51-60 ibid		19.0	67.5%	259	67.5%	<.25 / .85	0.04	0.03	0.01	
									25.0		260	71%	.25 / .50	0.04	0.03	0.01	
30		.50		35					29.0	86%	30.0						
									34.0		261	88%	.25 / .50	0.04	0.03	0.01	
										96%	35.0						
											262	96%	.25 / 1.0	0.03	0.02	0.01	
50		1.0		30	-25				41.0	81%	40.0						
											263	84%	<.25 / 1.0	0.02	0.02	0.00	
									45.0	89%	45.0						
									49.0		264	88.5%	<.25 / .50	0.02	0.01	0.01	
									51.0	87.5%	50.0						
										85%	265	85.5%	.25 / 1.0	0.04	0.02	0.02	
									56.0		55.0						
									57.0	93%							
										90%	266	90%	.25 / 1.0	0.02	0.01	0.01	
60									60.0		60.0						

bleached dolo partially altered
wh. qtz bleb weathered sph rim?
bleached dolo partially altered
crackle brx. intraclasts weathered dolo partially altered
speckled intraclasts
core crushed Fault.
weathered sph + py? intraclastic

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-13 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:
Sample Tag Numbers: 14267 - 14271

DESCRIPTIVE GEOLOGY

19.0 - 146.0 Speckled Dolostone
Fractured

83-102 Core quite brokemup

vuggy
breccia lt. gy matrix
pseudobrx.
crackle brx.
fn breccia wh. sparry matrix.
qtz. seam 40°
qtz. xtals.
qtz. filled vug
breccia qtz + wh. sparry dolo matrix.
intraclasts breccia
crackle breccia
py along frac.
py within stylolites with smithsonite.
crackle breccia
crackle breccia

Tr

SECTION	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (% Zn / % ZnCO3)	ASSAYS % Zn Total	% Zn Soluble (ZnCO3)	% Zn (ZnS)	%
60	60.0		60.0						
	67.0	100%	267	98.5%	<.25 / .25	0.02	0.01	0.01	
70	70.0								
	76.0	95%	268	96.5%	<.25 / .25	0.02	0.01	0.01	
80	80.0	99%							
	83.5	96%	269	91%	<.25 / .50	0.17	0.02	0.15	
90	88.0								
	90.0	66.5%	270	76%	<.25 / .25	0.03	0.01	0.02	
100	95.0	85%							
	100.0	74%	271	78%	<.25 / <.25	0.02	0.01	0.01	
	106.0								
110	110.0	81%							
	114.0	101%							
120									

ESTIMATED % fe SULFIDES: 3.0

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-13 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 3 of 6

COMMENTS:

DESCRIPTIVE GEOLOGY

19.0-146.0 Speckled Dolostone
Fractured

- silica streaks
- mainly clotted dolo. slightly speckled
- inclusion dolo breccia
- inclusion dolo.
- r.sph. with py along stylolites

146.0-225.0 Micritic Dolostone

Frequent inclusion tex

micro-fn xtalline, M.gy micritic dolostone. long sections of slight to moderate inclusion texture which locally become pseudobreccia texture with the addition of more vugs. local sections of speckled and wispy banded dolo. generally the micritic dolo is not homogeneous but is slightly clotted, mottled or has a very slight inclusion texture. generally vuggy locally very vuggy local sections of pervasive silicification (<1') very few fracs occur in the section

- breccia
- r. sph specks in vugs
- inclusion dolo. pseudobreccia texture
- slightly speckled micritic dolo.
- pseudobreccia tex.
- slightly speckled micritic dolo.
- silicified .5'
- inclusion dolo. intraclastic
- mottled micritic
- intraclastic micritic?
- inclusion dolo.
- r sph specks in vugs?
- pseudobrx and inclusion slightly speckled micritic
- inclusion dolo

SECTION	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS
120						% % % %
	124.0	101%				
130		100.5%				
	134.0					
		126%				
	137.0					
140		100%				
	145.0					
150		102%				
	155.0					
160		102%				
	165.0					
170		88%				
	174.0					
180		101.5%				

ESTIMATED % SULFIDES: Tr

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-13 CLAIM: Duo 4 PROPERTY: Goz Creek PAGE No. 4 of 6

SECTION | Alteration | Smithsonite | Silicification | FRACTURING | MINERAL | GEOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | ESTIMATED % Fe SULFIDES | DRILLING INTERVAL | % CORE RECOVERED | SAMPLE INT. & NUMBER | % RECOVERY / SAMPLE INT. | ESTIMATED GRADE | ASSAYS

180
170
200
210
220
230
240

146.0-225.0 micritic Dolostone

Frequent inclusions tex

speckled + wispy bonded dolostone

silicified dolostone.

193-221 Frequent <1'-2' sections of very lt.gy pervasively silicified dolostone

qtz xtals. silicified dolo

very soft creamy wh. earthy frof. filling-cerussite?

wispy bonded micritic

speckled + wispy banded micritic

disseminated py.

225.0-250.0 Speckled Dolostone

fm xtalline, lt-med gy speckled and wispy banded dolo. sections of lt.gy fm xtalline micritic dolo.. local silicified sections. concentration of bk. specks varies considerably locally. generally wispy banding is well defined and oriented 50-60°

very vuggy with qtz lining vugs + qtz xtals.

30 45 45 50 30 45 GS 50

184.0 194.0 204.0 215.0 219.0 221.0 229.0 231.0 238.0

101.5% 100.5% 102% 94.0% 89% 62.5% 94% 90% 77% 81%

% % % % ASSAYS

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-13 CLAIM: Duo 4 PROPERTY: Goz Creek PAGE No. 5 of 6

SECTION | Alteration | Silicification | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | DESCRIPTIVE GEOLOGY | ESTIMATED % Fe SULFIDES | DRILLING INTERVAL | % CORE RECOVERED | SAMPLE INT. & NUMBER | % RECOVERY / SAMPLE INT. | ESTIMATED GRADE | ASSAYS (%, %, %, %)

240

225.0 - 250.0 Speckled Dolostone

242.0 — 81%

94%

249.0

250

250.0 - 314.0 Micritic Dolostone partially silicified vuggy

very vuggy drusy dol. + qtz. xtals slight inclusion tex.

2.0

Fm xtalline, lt to very lt. gy micritic dolostone. frequent <1' sections of pervasively silicified dolostone. Generally the whole section contains scattered irregular blebs of clear silica. locally med-co. xtalline dolo. whole section has a slight inclusion texture overprint.

102%

258.0

260

92%

qtz xtals slight inclusion tex. very vuggy drusy dolo.

267.0

270

73%

274.0

55%

278.0

pervasive silicification streaks and blebs of clear silica

280

94%

286.0

speckled dolo.

210

92%

specks of r. sph + py in vugs

296.0

300

dissemminated y. sph. in wh. dolo.

83%

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-13 CLAIM: Duo 4 PROPERTY: Goz Creek PAGE No. 6 of 6

SECTION | Alteration | Smithsonite | Silicification | FRACTURING | MINERAL | GEOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | ESTIMATED % Fe SULFIDES | DRILLING INTERVAL | % CORE RECOVERED | SAMPLE INT. & NUMBER | % RECOVERY / SAMPLE INT. | ESTIMATED GRADE | ASSAYS

300

very porous wh. dolostone

250.0 - 314.0 micritic Dolostone partially silicified vuggy

speckled dolostone

slight inclusion dolostone

305.0 — 83%

307.0 — 72%

73%

310

314.0 — 40%

314.0 - 335.0 micritic Dolostone

v. homogeneous tex.

318.0 — 75%

320

fm xtalline, lt. gy micritic dolo. with a very homogeneous texture. The section is generally very tight and massive with very little silicification

322.0 — 80%

326.0 — 85%

330

330.0 — 102%

335.0

End of BAF 74-13

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-14 | CLAIM: DUO 2 | PROPERTY: Goz Creek | OVERBURDEN: 12.0 | PAGE No. 1 of 6

ELEVATION: 4,555.6 | SECTION: 10+600 | DATE STARTED: Aug 19, 1974 | CONTRACTOR: Longyear | LOGGED BY: G.G. Webb

NORTHING: 157,588.5 | INCLINATION: −45° | DATE FINISHED Aug 25, 1974 | CORE SIZE: BQ 22-68, AQ 68-331 | SCALE: 1" = 10'

EASTING: 78,364.6 | AZIMUTH: 60° | TOTAL DEPTH: 331 | % CORE RECOVERY: 73.5% (mineralized 51.5%) | CORE STORED AT: Camp

COMMENTS: Stickup 10.0
Sample Tag Numbers: 14272-14323

Hole Summary
22.0-50.0 Speckled Dolo - fractured, weak $ZnCO_3$
50.0-60.0 Altered Dolo - strong $ZnCO_3$
60.0-130.0 Silicified Dolo - locally pisolitic - strong ZnS
130.0-331.0 Inclusion Dolo.: weak ZnS, local sections of strong ZnS.

DESCRIPTIVE GEOLOGY

Note: BQ core 22.0-68.0
AQ core 68.0-331.0

10.0-22.0 Overburden

22.0-50.0 Speckled Dolostone

Fractured

Fm xtalline, med gy speckled dolo. Fractured mainly with open fracs. core is very broken up and ground 22-48. hairline silica fracs 42-50. Increasing alteration to base of section.

mineralization: mainly disseminated and frac smithsonite. Local frac. fillings of r.sph. and ZnO.

ZnO and r.sph in fracs

50.0-60.0 Altered Dolostone

yellow-lt. yellowish gy, extremely porous altered dolostone, contains small blebs and chips of wh. qtz. and hairline silica fracs. locally. Grades into next unit.

very strong disseminated smithsonite and minor ZnO wispy altered dolo.

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
22.0		22.0						
		272	17%	<.25 / 1.0	0.07	0.06	0.01	
	17%	29.0						
		273	17%	<.25 / 1.0	0.36	0.35	0.01	
36.0		36.0						
	21%	274	21%	<.25 / 1.5	0.24	0.23	0.01	
40.0		40.0						
	50%	275	50%	1.0 / 1.0	1.95	1.75	0.20	
44.0		44.0						
46.0	75%							
	62.5%	276	66.5%	.75 / 1.0	0.90	0.80	0.10	
50.0		50.0						
	62%	277	62%	<.25 / 30.0	2.75	2.70	0.05	
		55.0						
58.0		278	60.5%	<.25 / .25.0	4.50	4.45	0.05	
	57%	60.0						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-14 CLAIM: DUO 2 PROPERTY: Goz Creek

COMMENTS:
Sample Tag Numbers: 14279-14288

DESCRIPTIVE GEOLOGY

60.0 - 130.0 **Silicified Dolostone**

locally pisolitic

Fn xtalline, lt-dk gy pervasively silicified dolo. locally pisolitic. The core is generally very broken up and ground. Grodational contact with altered dolostone above. 60-70 honeycombed silicified dolostone with a high proportion of smithsonite. Frequent breccia sections locally with a sph matrix more breccia may be present however mineralization obscures textures.

mineralization: mainly red + yellow sph. locally occuring with a colloform texture with r. sph bands alternating with y. sph. sph occurs as disseminated specks but more commonly as large massive blebs and as breccia matrix. Smithsonite occurs disseminated and as frac. fillings and infrequently as a breccia matrix. minor amounts of pbs (probably boulangerite) occur as very small specks, as acicular crystals and occasionally as small blebs. Smithsonite also occurs as a replacement mineral in pisolites.

honeycombed silicified dolo.

45' of core honeycombed silicified dolo. with disseminated smithsonite and r. sph.

breccia?

pisolites

pbs

boulangerite?

no core

pisolites

pbs specks

large r. sph blebs in wh. qtz.

sph in wh. creamy qtz.

r.y. sph forms matrix. partially honeycombed.

large sph blebs in wh. creamy qtz

pbs specks boulangerite?

qtz. xtals

large sph blebs

Note Locally extremely poor core recovery. mineralized core ground or lost
64.0 - 80.0 core not recovered due to pushing casing
85.0 - 89.0 core ground or lost - no sample taken
Recovery for mineralized section is 51% (80-130')

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE % Zn Sulfides	% Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	% Pb	% Sb
60.0									
63.0	57%	279	55%	.50 / 20.0	5.60	5.30	0.30		
64.0	50%	64.0							
	25%	280	2.5%	1.0 / 8.0	5.40	4.40	1.00		
80.0		80.0							
82.0	55%	281	74%	2.0 / 4.0 / .50	3.35	0.38	2.97	0.55	0.17
	87%								
85.0		85.0							
	2.5%								
89.0		89.0							
	60%	282	61%	15.0 / 1.5 / 2.0	10.95	0.15	10.80	2.50	1.05
91.5	67%								
93.0		93.0							
	42.5%	283	52.5%	8.0 / 1.0 / 1.50	8.85	0.75	8.10	1.55	0.53
95.0	62.5%								
97.0		97.0							
	23%	284	23%	10.0 / 2.0 / .25	16.05	2.60	13.45	0.50	0.17
102.0		102.0							
	47%	285	47%	20.0 / 1.0 / 1.50	25.20	1.45	23.75	1.85	0.80
107.0		107.0							
	82%	286	76%	35.0 / 2.0 / .50	38.60	2.45	36.15	0.70	0.22
110.0	67.5%								
112.0		112.0							
	15%	287	35.5%	8.0 / 1.0 / .50	12.80	0.50	12.30	1.00	0.37
116.0	63%								
119.0	17%	119.0							
		288							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-14 CLAIM: DUO 2 PROPERTY: Goz Creek

COMMENTS:

Sample Tag Numbers: 14288-14298

DESCRIPTIVE GEOLOGY

60.0 - 130.0 **Silicified Dolostone**
Locally pisolitic

wh creamy qtz. with r.sph. blebs
pisolites?
PbS

130.0 - 331.0 **Inclusion Dolostone**

pisolites?

Frequently siliceous fracs are displaced by more recent fracs.

r.sph along silica frac.

very stylolitic py and argillite along stylolites
smithsonite along stylolites and surrounding larger blebs in stylolites.
r.sph in closed vugs.

Fm xtalline, lt.gy micritic dolostone with a slight inclusion texture alternating with relatively short sections of homogeneous micritic dolostone. Locally quite stylolitic containing pyrite and argillite. Frequent large blebs of this material locally along stylolites. minor fracturing fracs appear to have been quite obscured by dolomitization. Locally quite vuggy. usually vugs contain drusy dolomite locally vugs contain large well formed r.sph xtals locally the inclusion tex is strong.

Mineralization: smithsonite frac. fillings and local disseminations. Weak r.sph mainly as vug fillings and minor frac fillings. 171-174 weak disseminated minute y.sph. specks

py along network of stylolites enclosing dolostone or intraformational breccia?

v. fn disseminated y. sph.

fuzzy intraclasts
homogeneous micritic dolo.

SECTION	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (Zn / Zn CO3)	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	% Pb	% Sb
120		17%								
	122.0									
	123.0	50%								
	124.0	20%	288	34%	G.0 / .50 / .25	10.05	0.36	9.69	0.35	0.15
		100%								
	127.0		289	100.5%	15.0 / 5.0 / .75	15.00	0.50	14.50	0.45	0.18
130	130.0									
		95%	290	95%	.25 / .50	1.30	0.70	0.60		
	135.0									
	137.0		291	99%	.25 / 1.0	3.80	3.65	0.15		
140	140.0									
		102%	292	102%	<.25 / .50	0.75	0.45	0.30		
	145.0									
	147.0		293	98.5%	<.25 / .50	0.15	0.11	0.04		
150	151.0									
		97%	294	97%	.75 / 1.0	1.55	0.95	0.60		
	157.0									
		88.5%	295	88.5%	.50 / .50	0.30	0.11	0.19		
160	163.0									
	164.0		296	100%	<.25 / <.25	0.08	0.05	0.03		
		102%								
170	170.0									
	174.0		297	98%	2.0 / .25	0.75	0.07	0.68		
		93%								
	177.0		298	92.5	.25 / .25	0.48	0.21	0.27		
180										

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-14 CLAIM: DUO 2 PROPERTY: Goz Creek

COMMENTS:

Sample Tag Numbers: 14298-14307

DESCRIPTIVE GEOLOGY

130.0 - 331.0 Inclusion Dolostone

210-216 sph in crackle brx and within stylolites associated w. py. y. sph is rimmed with r. sph in larger blebs

SECTION	DESCRIPTIVE GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / ZnCO3	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
180	homogeneous micritic dolo ½" frac filling 5% of r. sph.	1.0	183.0	93%	298	92.5%	.25 / .25	0.48	0.21	0.27	
	locally banded and mottled homogeneous micritic dolo.		187.0	92%							
190	1.5' open vug. crackle breccia wispy banded frags. inclusion dolo. slightly fractured homogeneous micritic dolo.		193.0		299	92%	.25 / .25	.23	0.09	0.14	
			195.0	92.5%							
			197.0								
200	crackle breccia wispy banded frags.	Tr		92%	300	92%	<.25 / .25	0.41	0.40	0.01	
			205.0								
	homogeneous micritic dolo. minor r. sph xtals w. qtz. crackle breccia. speckled frags.				301	98%	.50 / .25	0.59	0.27	0.32	
210				98%	210.0						
	smithsmite in open fracs 6" crackle breccia slightly speckled frags.	1.5	214.0		302	97%	4.0 / .25	1.95	0.26	1.69	
				95%	216.0						
			218.0		303	95.5%	1.5 / .25	0.66	0.07	0.59	
220	r. sph in vugs and stylolites speckled dolo.	.50		96%	222.0						
					304	96%	8.0 / .25	3.80	.0.06	3.74	
			226.0								
	r. sph in wh dolomite of inclusion dolo.	2.0	228.0		305	96%	4.0 / .25	1.60	0.04	1.56	
230			230.0	96%							
					306	94.5%	1.0 / .25	0.41	0.04	0.37	
	qtz xtals.		234.0								
			235.0								
	r. sph. fracs. showing coloform texture y. sph. rimmed by r. sph.	.50		88%	307	89%	5.0 / .25	2.95	0.07	2.88	
240			240.0								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-14 CLAIM: DUO 2 PROPERTY: Goz Creek

COMMENTS:

Sample Tag Numbers: 14307-14318

DESCRIPTIVE GEOLOGY

130.0-331.0 Inclusion Dolostone

244-252 partially silicified with irregular qtz. blebs.

267-272 sph forming matrix of crackle brx and in fracs, brown sph surrounds yellowish r. sph which is in turn surrounded by py rim. py also in stylolites

vug with large r. sph. xtals & qtz. xtals

weak r. sph in hairline silica fracs.

intensily fractured with hairline fracs crushed fracs

crackle brx sph. matrix sph enclosing wh dol. colloform texture.

silica frac. displaced by recent fracs

pisolites?

pisolites?

wispy banded

crackle breccia r. sph matrix

SECTION	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE Zn / Zn CO3	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
240		240.0		307	89%	5.0 / .25	2.95	0.07	2.88	
			92%	242.0						
				308	92%	.75 / .25	0.49	0.10	0.39	
				247.0						
250		250.0		309	83.5%	.50 / .25	0.33	0.06	0.27	
				252.0						
	Tr.		70.5%	310	70.5%	.75 / .25	0.90	0.10	0.80	
		258.0		257.0						
260			90%	311	86%	.50 / .25	0.17	0.06	0.11	
		263.0		262.0						
				312	82%	.50 / <.25	0.20	0.03	0.17	
				267.0						
			80%	313	80%	15.0 / <.25	14.10	0.16	13.94	
270	1.0			272.0						
		274.0		314	77%	25 / <.25	0.39	0.04	0.35	
			75%	277.0						
		277.0								
			72.5%	315	80%	.50 / <.25	1.00	0.04	0.96	
280		281.0	55%							
	Tr.	283.0		283.0						
			65%	316	65%	.75 / .25	0.90	0.04	0.86	
				289.0						
		289.5								
290			85%	317	84%	<.25 / <.25	0.11	0.02	0.09	
				298.0						
	3.0	298.0	104%	318	104%	15.0 / <.25	13.05	0.07	12.98	
300										

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-14 CLAIM: DUO 2 PROPERTY: Goz Creek

COMMENTS:
Sample Tag Numbers: 14318-14323

DESCRIPTIVE GEOLOGY

130.0-331.0 Inclusion Dolostone

- crackle breccia y. sph. matrix.
- wispy banding
- qtz. bleb rimmed by wh. dolomite.
- y.r. sph in silica hairline frac
- y. sph with py. in stylolite
- sph. in silica hairline fracs.
- large sph. xtals + qtz in large open vug.
- pisolites? speckled dolo.
- breccia, speckled frags. in gy banded dolo matrix.

End of BRF-74-14

SECTION	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (ZnS / ZnCO3)	ASSAYS: % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
			318						
300	301.0			104%	15.0 / <.25	13.05	0.07	12.98	
		104%	319	104%	<.25 / <.25	0.24	0.03	0.21	
	307.0		302.0						
310			320	98%	.25 / <.25	0.10	0.02	0.08	
		98%	313.0						
	317.0		321	94%	1.50 / <.25	1.00	0.03	0.97	
320			319.0						
		86%	322	86%	.50 / <.25	0.39	0.02	0.37	
	323.5		323.0						
		96%	323	95.5%	<.25 / <.25	0.03	0.01	0.02	
331	331.0		331.0						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-15 | CLAIM: DUO 2 | PROPERTY: Goz Creek | OVERBURDEN: 6.1 | PAGE No. 1 of 7

ELEVATION: 4,558.5 | SECTION: 10+600 | DATE STARTED: Aug 25, 1974 | CONTRACTOR: Longyear | LOGGED BY: G. G Webb

NORTHING: 157,584.1 | INCLINATION: -90° | DATE FINISHED Aug 27, 1974 | CORE SIZE: BQ - 10-48, RQ - 48-383 | SCALE: 1" = 10'

EASTING: 78,356.1 | AZIMUTH: — | TOTAL DEPTH: 383 | % CORE RECOVERY: 88.5% | CORE STORED AT: Camp

COMMENTS: stickup = 3.9'
Sample Tag Numbers: 14360 14369

Hole Summary
10.0-60.0 Speckled Dolo. - fractured, weak ZnS, $ZnCO_3$
60.0-120.0 Pisolitic Dolo. - very weak ZnS, $ZnCO_3$
120.0-174.0 micritic Dolo. - inclusion and mottled textures. Specks of ZnS, $ZnCO_3$
174.0-383.0 micritic Dolo - homogeneous, mottled v. weak $ZnCO_3$

DESCRIPTIVE GEOLOGY

Note: BQ core 10.0-48.0
RQ core 48.0-383.0

3.9-10.0 Overburden

10.0-60.0 **Speckled Dolostone**

Fractured

Fm xtalline, med. gy speckled and wispy banded dolostone. Locally weathered and bleached particularly near the top of the section. Frequent short sections of well defined wispy banding. 10-50 overall texture is not homogeneous but blotchy with clots of speckled dolo. with fuzzy boundaries in a gy slightly speckled background. locally these clots are angular to subrounded and are in a matrix of slightly speckled dolo. or a micritic matrix - rock breccia matrix? The section is fractured or shattered with intensity decreasing significantly past 50'. minor hairline fracs of clear silica

mineralization: mainly frac. fillings of Smithsonite and zinc oxide. minor frac. fillings of weathered py and sph. Sph also occurs within wh. qtz. fr pcs. 42-46 weak sph in stylolites and gl. bleb.

10.0-30.0 Core is generally quite broken up.

SECTION	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	% Pb	% Sb
0														
10			Zn0 + Smithsonite in fracs. w. weathered py.		10.0		10.0							
			weathered r.sph in frac?			64%	360	64%	<.25 / 4.0	0.20	0.16	0.04		
			r. sph with wh creamy qtz. sph in fracs		18.0		15.0							
20			Zn0 dr. gy speckled frags or blebs in earthy matrix				361	64%	.50 / 3.0	0.10	0.08	0.02		
			Zn0 in fracs		22.0	64%	20.0							
			well defined wispy banding				362	71%	.75 / 3.0	0.68	0.41	0.27		
			¼" fuzzy bordered wh creamy qtz. Seam			76%	25.0							
			fuzzy rounded and minor angular fracs within c. ft. gy speckled matrix.	Tr.	28.0		363	68.5%	<.25 / 2.0	0.17	0.14	0.03		
30			r. sph + py in wh creamy qtz frac.				30.0							
			large 1" gl. bleb r. sph specks minor py assoc w. wh. qtz.			57%	364	57%	<.25 / .50	0.05	0.04	0.01		
			well defined wispy banding				35.0							
					38.0		365	79%	.25 / .25	0.07	0.06	0.01		
40						96%	42.0							
				3.0			366	96%	1.0 / .50 Pb=.5%	0.71	0.09	0.62	0.05	0.01
					46.0		46.0							
				Tr.	48.0	55% / 82%	367	74%	<.25 / .25	0.10	0.04	0.06	<0.05	0.01
50														

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-15 CLAIM: DUO 2 PROPERTY: GOZ CREEK

COMMENTS:
Sample Tag Numbers: 14367-369

DESCRIPTIVE GEOLOGY

10.0 - 60.0 Speckled Dolostone

r. sph in fracs and stylolites with py. occurs with wh. creamy qtz.

pisolites ?

60.0-120.0 Pisolitic Dolostone

bedding 60-65°? Speckled and micritic

intense hairline fracturing. crushed core.

r.y. sph in stylolites w. py.

pisolites irregular banding appears to be a breccia with a med gy speckled matrix lt. gy fragg. wispy banded dob mi.gy rsph. in qtz frac frac $ZnCO_3$

pisolites replaced by qtz.

1/4" wh. qtz. frac.

pisolites

speckled fragg.

r. sph. specks in wh. qtz matrix

pisolites

3" of 10% r.y. sph with smear on roof tex. y.sph with cap of r.sph which in turn cups frag.

speckled dr. gy intraclast y.sph along stylolites

pisolites

Fm - med xtalline, med gy. pisolitic dolostone. 60 - ~87 the rx appears to be a pisolitic speckled dolostone and 87-120 appears to be a pisolitic fractured micritic dolostone. In some sections the rx appears to be a breccia with fm xtalline, lt. gy and speckled dr. gy fragments in a matrix of slightly speckled med gy dolostone. The frags are rounded with slightly to very fuzzy boundaries. In other sections however fragments cannot be distinguished from matrix and the rock appears to be a lt. and med. gy. mottled micritic dolostone. The entire section is partially silicified with silicified pisolites, irregular siliceous blebs and clear and milky wh. frac fillings. most frac. fillings consist of wh. sparry dolomite. The core also has a clotted texture with the creamy wh. pisolites and qtz. blebs.

Mineralization:
Mainly specks of r. sph occurring with creamy wh. qtz. within short breccia sections and along fracs. y. sph occurs with py in stylolites. very minor smithsonite occurs within fracs.

SECTION	DRILLING INTERVAL	% CORE RECOVERED	ESTIMATED % SULFIDES	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (ZnS / $ZnCO_3$)	ASSAYS % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	% Pb	% Sb
50			Tr.	367	74%	<.25 / .25	0.10	0.04	0.06	<0.05	0.01
		82%		53.0							
			.50	368	82%	.25 / .25	0.29	0.05	0.24		
60	58.0			58.0							
				369	99%	<.25 / <.25	0.04	0.03	0.01		
		99%		63.0							
	67.0										
70		100%									
	77.0										
80		102%	Tr.								
	87.0										
90		101.5									
	97.0										
		94%									
100	101.0										
		96%	.50								
	108.0										
110		97.5%									

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-15 CLAIM: DUO 2 PROPERTY: GOZ CREEK PAGE No. 3 of 7

SECTION | Alteration | Smithsonite | Silicification | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | DESCRIPTIVE GEOLOGY | ESTIMATED % SULFIDES | DRILLING INTERVAL | % CORE RECOVERED | SAMPLE INT. & NUMBER | % RECOVERY / SAMPLE INT. | ESTIMATED GRADE | ASSAYS (%, %, %, %)

110
120
130
140
150
160
170

pisolites

y. sph w. py in stylolites and frac

60.0 - 180.0 Pisolitic Dolostone

speckled and micritic

pisolites

str. inclusion tex.

frac with intense hairline fracturing

speckled intraclasts

120.0 - 194.0 Micritic Dolostone

inclusion and mottled textures

pisolites

speckled + wispy banded.

Fm xtalline, lt.-med. gy. mottled micritic dolostone with a local inclusion texture. The mottling consists of irregular patches of lt. and med gy. fm xtalline dolo. intermmingled with one another. The patches have irregular boundaries and tend to grade into one another. Locally however the boundaries appear to be sharp. Intermittant and widely spaced silicified pisolites <1' - 1.5' sections of speckled and wispy banded dolostone generally slightly vuggy. locally quite vuggy

speckled and wispy banded

6"

silicified pisolites

specks of y. sph with py specks in wh. spotty dolomite matrix

dr.-gy speckled intraclasts

speckled + wispy banded.

minute y. sph specks along stylolites.

pisolites ?

few specks of y. sph w. py.

mineralization: few specks of r. sph and r. sph. in breccia and with py. in stylolites

pisolites ?

indistinct banding bedding? 50°

pisolites

ESTIMATED % SULFIDES	DRILLING INTERVAL	% CORE RECOVERED
.50		97.5%
Tr.	118.0	
		104.5%
	128.0	
		97.5%
	138.0	97%
	139.5	
		89%
	145.0	
1.0		92.5%
	155.0	87.5%
	157.0	
Tr.		101%
	169.5	
		99.5%

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-15 CLAIM: DUO 2 PROPERTY: GOZ CREEK PAGE No. 4 of 7

COMMENTS:

DESCRIPTIVE GEOLOGY

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	ESTIMATED % SULFIDES Fe	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS %	%	%	%				
170				70			½"qtz bleb clear rimmed by wh sparry dolo.			99.5%											
							120.0-194 Micritic Dolostone														
							Inclusion and mottled textures		174.75												
							pisolites?			88.0%											
							v. intense hairline fracturing bordered by 20° fracs & minor $ZnCO_3$														
180				60			wispy banded ~60° orientation Local crackle breccia		181.0	100%											
							quite vuggy clotted + inclusion textures		187.0												
							smithsonite in frac. assoc. w. py.			93%											
190							1" vug with drusy dolo. y sph + py along bottom		193.0												
							speckled dolo.			100%											
							speckled dolo.		196.0												
							194.0-383.0 Micritic Dolostone														
							Homogeneous and mottled textures														
200				40			speckled dolo crackle brx minor $ZnCO_3$			92%											
							fm-med xtalline, lt-med gy. micritic dolostone. Much more homogeneously textured than above with a corresponding significant reduction in the amount of wh sparry dolomite. Wh. sparry dolomite when present tends to occur as discrete blebs usually within or enclosing vugs and as occasional frac. fillings. The mottling takes the form of slightly darker gy blebs, streaks and bands within lt. gy dolostone and occasionally visa versa. Vugs tend to be large and elongated. Very minor fracturing 288→ increasing amounts of intraclasts and intraformational breccia.														
			<.25																		
210				80			$ZnCO_3$ in vugs		204.0	86.5%											
									214.0												
220				40						95.5%											
									224.0												
							py + minor $ZnCO_3$ in vug			88%											
							mineralization - occasional pyritic stylolites and Smithsonite in vugs.														
230									230.0												

Tr.

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-15 CLAIM: DUO 2 PROPERTY: GOZ CREEK PAGE No. 5 of 7

COMMENTS:

DESCRIPTIVE GEOLOGY

1940 - 3830 Micritic Dolostone

Homogeneous and Mottled Textures

- Smithsonite and py in vugs.
- speckled dolo intraformational breccia?
- smithsonite in vugs
- ¼" qtz xtals in vug.
- med Sy banding
- pyrite and Smithsonite in breccia wh. sparry dolomite matrix; well formed qtz. xtal.
- y. sph with py in imclusion dolo.
- intraformational breccia?
- close spaced hairline fracs.
- speckled dolo.
- intensily hairline fractured frac. Smithsonite pyritic stylolites.
- intraformational breccia?

DRILLING INTERVAL	% CORE RECOVERED	ESTIMATED % SULFIDES
2300		
	96%	
2360		
	94%	
2440		
	87%	
2490		
	91%	
2570		
	89%	
2640		
	100%	
2660		
	47%	
2720		
	62.5%	
2740		Tr
	37.1%	
2810		3.0
	81.5%	
2875		Tr
	96%	

SECTION | Alteration | Smithsonite | Silicification | FRACTURING | MINERAL | GEOLOGY | SAMPLE INT. & NUMBER | % RECOVERY / SAMPLE INT. | ESTIMATED GRADE | ASSAYS (%, %, %, %)

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-15 CLAIM: DUO 2 PROPERTY: GOZ CREEK PAGE No. 6 of 7

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS %	%	%	%				
290							intraformational breccia?			96%											
				40			194.0-383.0 micritic Dolostone homogeneous and mottled textures		297.5												
300						aa	speckled dolo brecciated			97%											
							286-353 The dolo. contains increasing amounts of intraclasts and intraformational breccia. The intraclasts consist of widely spaced frags of speckled dolostone in a matrix of lt. gy micritic dolostone. The intraformational breccia consists of angular to subangular fragments of lt. gy dolostone in a matrix of med. gy. dolostone.		305.0	77%									
							minor smithsonite in vugs		308.0	73%											
310									311.0	77%											
							speckled dolostone		314.5	90%											
							intraclastic	Tr.	319.0												
320							intraclastic														
							intraformational breccia			107%											
									328.0												
330						aa				97.5%											
							speckled intraclasts		338.0												
340				50						94.5%											
							intraformational breccia		338.0	103%											
350																					

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-15 CLAIM: DUO 2 PROPERTY: GOZ CREEK PAGE No. 7 of 7

COMMENTS:

DESCRIPTIVE GEOLOGY

194.0 - 383.0 micritic Dolostone
intraformational breccia.
homogeneous and mottled textures

353 - 383 homogeneous micritic dolostone.

breccia wh. sparry dolo. matrix and py.

inclusion dolo.

END OF BAF 74-15

SECTION	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS							
						%	%	%	%				
350	354.0	103%											
360	364.0	48.5%											
370	374.0	91.0%											
380	378.0	60%											
383	383.0	5%											

Alteration: Smithsonite, Silicification

FRACTURING: 40, 40, 35, 40

MINERAL: Sph

ESTIMATED % Fe SULFIDES: Tr.

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-16 | CLAIM: DUO 2 | PROPERTY: Goz Creek | OVERBURDEN: 3.2 | PAGE No. 1 of 8

ELEVATION: 4538.1 | SECTION: 10+700 | DATE STARTED: Aug. 29, 1974 | CONTRACTOR: Longyear | LOGGED BY: G.G. Webb

NORTHING: 157,493.2 | INCLINATION: −50° | DATE FINISHED Sept. 1, 1974 | CORE SIZE: BQ 10-42, AQ 42-433 | SCALE: 1" = 10'

EASTING: 78,400.4 | AZIMUTH: 60° | TOTAL DEPTH: 433 | % CORE RECOVERY: 81.5% | CORE STORED AT: Camp

COMMENTS: Stickup: 6.8
Sample Tag Numbers: 14370-14422

Hole Summary
10.0-54.0 Speckled Dolo.: $ZnCO_3$ frac fillings
54.0-170.0 Partially Silicified Inclusion Dolo: best mineralization - ZnS frac. fillings
170.0-211.5 Inclusion Dolo: $ZnCO_3$ frac, minor ZnS
211.5-225 Fault Breccia - strong $ZnCO_3$ diss + frac
225-247 Inclusion Dolo - weak ZnS + $ZnCO_3$
247-355 Partially Silicified micritic Dolo - str ZnS

DESCRIPTIVE GEOLOGY

Note: BQ core 10.0-42.0
AQ core 42.0-433.0

6.8-10.0 Overburden

10.0-54.0 Speckled Dolostone

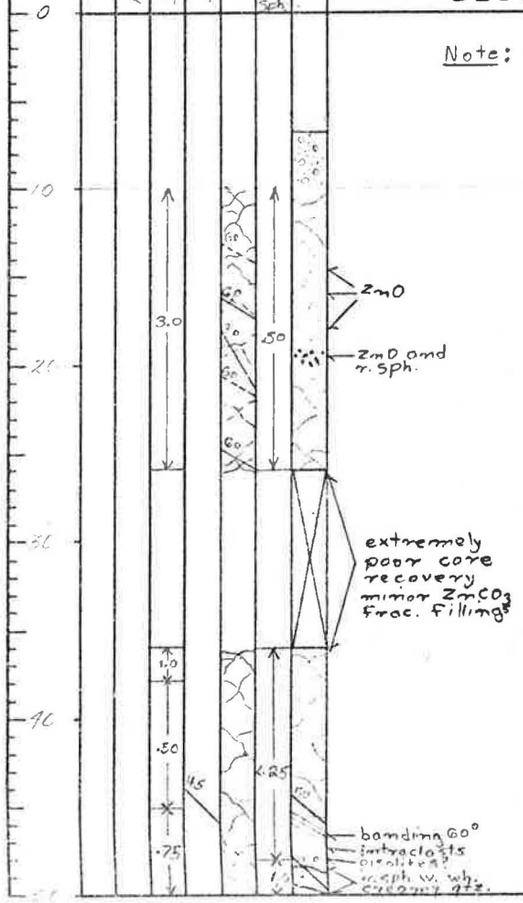
Fractured

fm xtalline, med. gy speckled and wispy banded dolostone. Generally slightly weathered. Grades downward into locally pisolitic well dolomitized inclusion dolo.

Mineralization: mainly smithsonite filling fracs. Local sph. blebs and frac. fillings associated with wh. creamy qtz.

10-42 Core quite broken up

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%	ESTIMATED % SULFIDES
10.0		10.0							
	30%	370	30%	<.25 / 2.0	0.19	0.15	0.04		
15.0		15.0							
	57%								
18.0	42.5%	371	51%	1.0 / 4.0	1.35	0.57	0.78		
20.0		20.0							
	42.5%	372	36%	<.25 / 3.0	0.25	0.20	0.05		
24.0	22.5%								
26.0		26.0							
	5%	373	5%	<.25 / .50	0.06	0.05	0.01		
36.0		36.0							
	30%								
38.0	21%	374	24%	<.25 / 1.0	0.05	0.04	0.01		
42.0		42.0							
	53%			<.25 / .50					
45.0	67%	375	57.5%		0.08	0.05	0.03		
46.5		42.0							Tr.
	54%	376	54%	1.0 / 1.0	1.25	0.22	1.03		



CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-16 CLAIM: Duo 2 PROPERTY: Goz Creek PAGE No. 2 of 8

COMMENTS:
Sample Tag Numbers: 14376 - 14385

Hole Summary (cont.)

355.0-438.0 micritic Dolo-argillaceous seams no mineralization

DESCRIPTIVE GEOLOGY

10.0 - 54.0 Speckled Dolostone
Fractured

pisolites?

54.0 - 170.0 Partially Silicified Inclusion Dolostone

Locally Pisolitic

Fm xtalline, med gy multi-textured dolostone partially silicified with: irregularly shaped, well rounded blebs of clear silica + irregular blebs of silicified dolostone; spherical blebs of silicified dolostone, frequently containing nuclei and frequently intermingled with the above irregular siliceous blebs - pisolites?; and siliceous fracture fillings.

General overall inclusion texture which locally appears to be more of a breccia with fuzzy indefinite fragments in a matrix of wh dolomite or lt. gy dolostone.

Local recrystallization texture with med-co xtalline wh - lt. gy dolo.

Local intraclasts of dolostone or speckled dolostone.

Frequent sections of speckled and wispy banded dolostone which are generally fractured.

Frequent sections of slightly weathered dolostone

Short local sections of partially silicified micritic dolostone.

pisolites
pisolites
r. sph. bleb, colloform tex. intensely hairline fractured + crushed
Strongly hairline frac. partially altered speckled dolo weathered
1/4" r. sph. frac rimmed by darker red sph + py. along both blebs of r.f. along wh qtz. frac speckled dolo.
speckled dolo
r. sph with smow am roof tex. in creamy wh qtz. frac.
speckled dolo.
1/4" silica frac
pisolites?
speckled dolo.
very poor core recovery. quite silicified, irregular qtz blebs + pisolites? mn min.

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE % ZnCO3 / % Zn	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
52.0	54%	376 52.0	54%	1.0 / 1.0	1.25	0.22	1.03	
54.0	70%							
56.0	85%	377	81.5%	.75 / .50	0.46	0.10	0.36	
58.0	90%							
60.0	87%	378	90%	1.0 / .50	1.00	0.36	0.64	
63.5		64.0						
	109%	379	109%	2.5 / 1.0	3.05	0.39	2.66	
		68.0						
70.0		380	103%	3.0 / .75	3.95	0.84	3.11	
		72.0						
	97%							
77.0		381	98%	.25 / .50	0.41	0.22	0.19	
	99%							
		82.0						
84.5		382	77%	.50 / .25	0.34	0.20	0.14	
	65%							
		89.0						
91.0								
	91%	383	86.5%	<.25 / <.25	0.14	0.05	0.09	
98.0		99.0						
	75%	384	78%	.25 / 1.0	0.80	0.53	0.27	
103.0	90%	104.0						
104.0								
	7.7%	385	7.7%	<.25 / .25	0.18	0.15	0.03	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-16 CLAIM: DUO 2 PROPERTY: Goz Creek

COMMENTS:

Sample Tag Numbers: 14385-14397

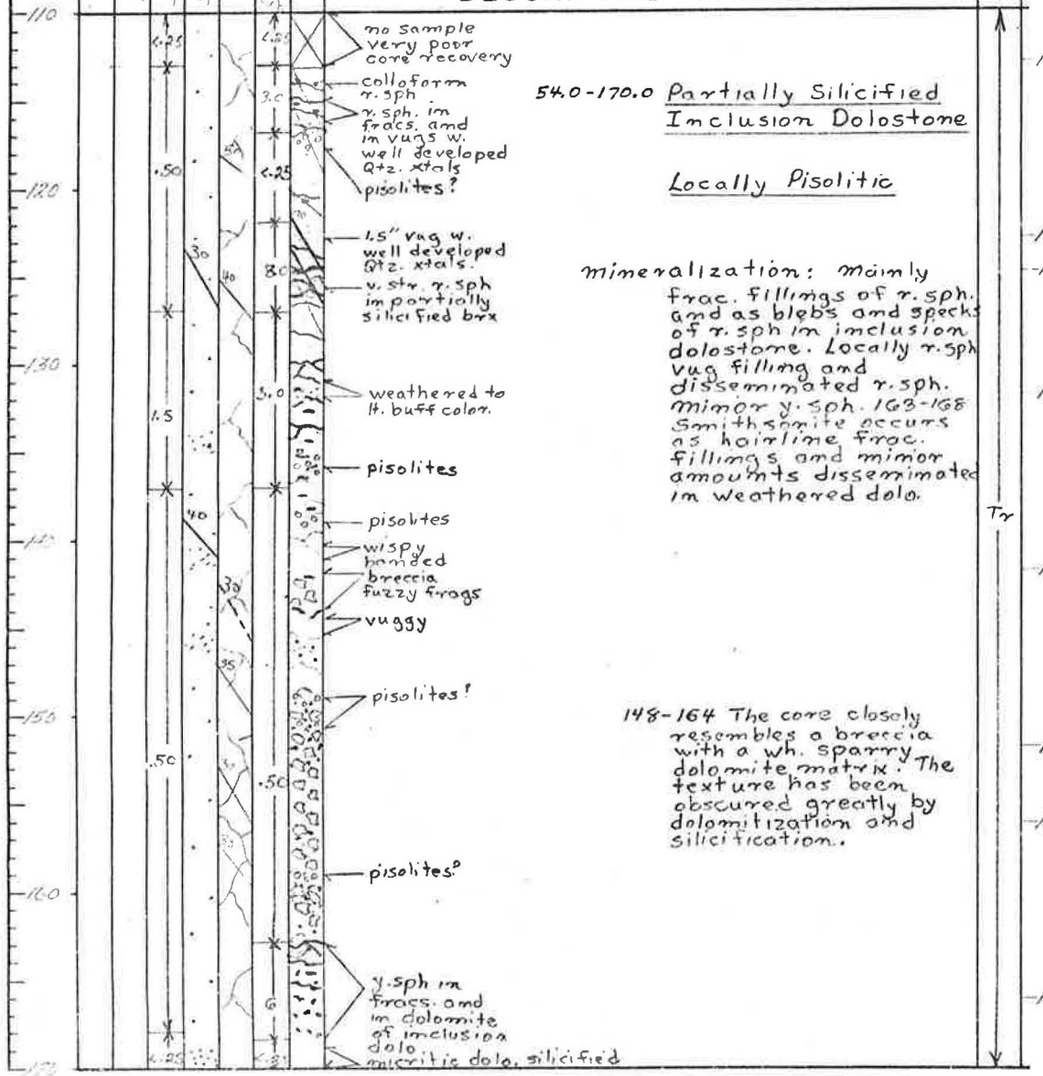
DESCRIPTIVE GEOLOGY

54.0-170.0 Partially Silicified Inclusion Dolostone

Locally Pisolitic

mineralization: mainly frac. fillings of r. sph. and as blebs and specks of r. sph in inclusion dolostone. Locally r. sph vug filling and disseminated r. sph. minor y. sph. 163-168 Smithsonite occurs as hairline frac. fillings and minor amounts disseminated in weathered dolo.

148-164 The core closely resembles a breccia with a wh. sparry dolomite matrix. The texture has been obscured greatly by dolomitization and silicification.



ESTIMATED % SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE Zn / ZnCO3	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
		7.7%	385	7.7%	<.25 / .25	0.18	0.15	0.03	
	113.0		113.0						
		88%	386	88%	3.0 / .50	3.10	0.75	2.35	
			117.0						
			387	88%	<.25 / .25	0.59	0.49	0.10	
	123.0		122.0						
		90%	388	96%	6.0 / .50	4.25	0.74	3.51	
	125.0		127.0						
		106%	389	106%	2.0 / 2.0	2.05	0.73	1.32	
	132.0		132.0						
			390	101.5%	1.0 / 1.0	0.66	0.28	0.38	
Tr		101.5%	137.0						
			391	101.5%	.50 / .50	0.42	0.20	0.22	
	142.0		142.0						
			392	98%	.75 / .50	0.55	0.33	0.22	
		98%	147.0						
			393	98%	.50 / .25	0.53	0.15	0.38	
	152.0		150.0						
		96%	394	97%	.25 / .25	0.19	0.04	0.15	
	156.5		157.0						
			395	103%	.25 / .50	0.19	0.06	0.13	
		103%	163.0						
			396	101%	6.0 / .50	2.95	0.06	2.89	
	166.5		168.0						
		97%	397	96.5%	<.25 / .25	0.21	0.10	0.11	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-16 CLAIM: DUO 2 PROPERTY: Goz Creek

COMMENTS:

Sample Tag Numbers: 14397-14407

DESCRIPTIVE GEOLOGY

170.0-211.5 Inclusion Dolostone

med xtalline, lt. gy inclusion dolostone. locally appears to be a breccia which has been obscured by dolomitization. Sections of speckled, and wispy banded dolo. Slightly fractured with intensity increasing to the base.

mineralization: mainly specks of y. sph in wh. sparry dolomite and wh. qtz. of inclusion dolo. Smithsonite occurs within hairline fracs mainly. minor amounts also occur within vugs.

- speckled dolo.
- pisolites
- y. sph in wh dolo. + qtz of inclusion dolo. ZnCO3 in fracs.
- speckled dolo inclusions
- speckled dolo.
- crackle brx.
- 2" wh. creamy qtz. frac.
- wispy banded dolo.
- intensily fractured w. hairline fracs.
- crackle brx.

211.5-225.0 Fault Breccia

fn xtalline, lt. gy dolo. frags. frags are 1/8-1/2" angular to subrounded and are within a matrix of finer breccia. The frags are also hairline fractured. The matrix also contains a very high proportion of smithsonite.

- speckled dolo intraclasts

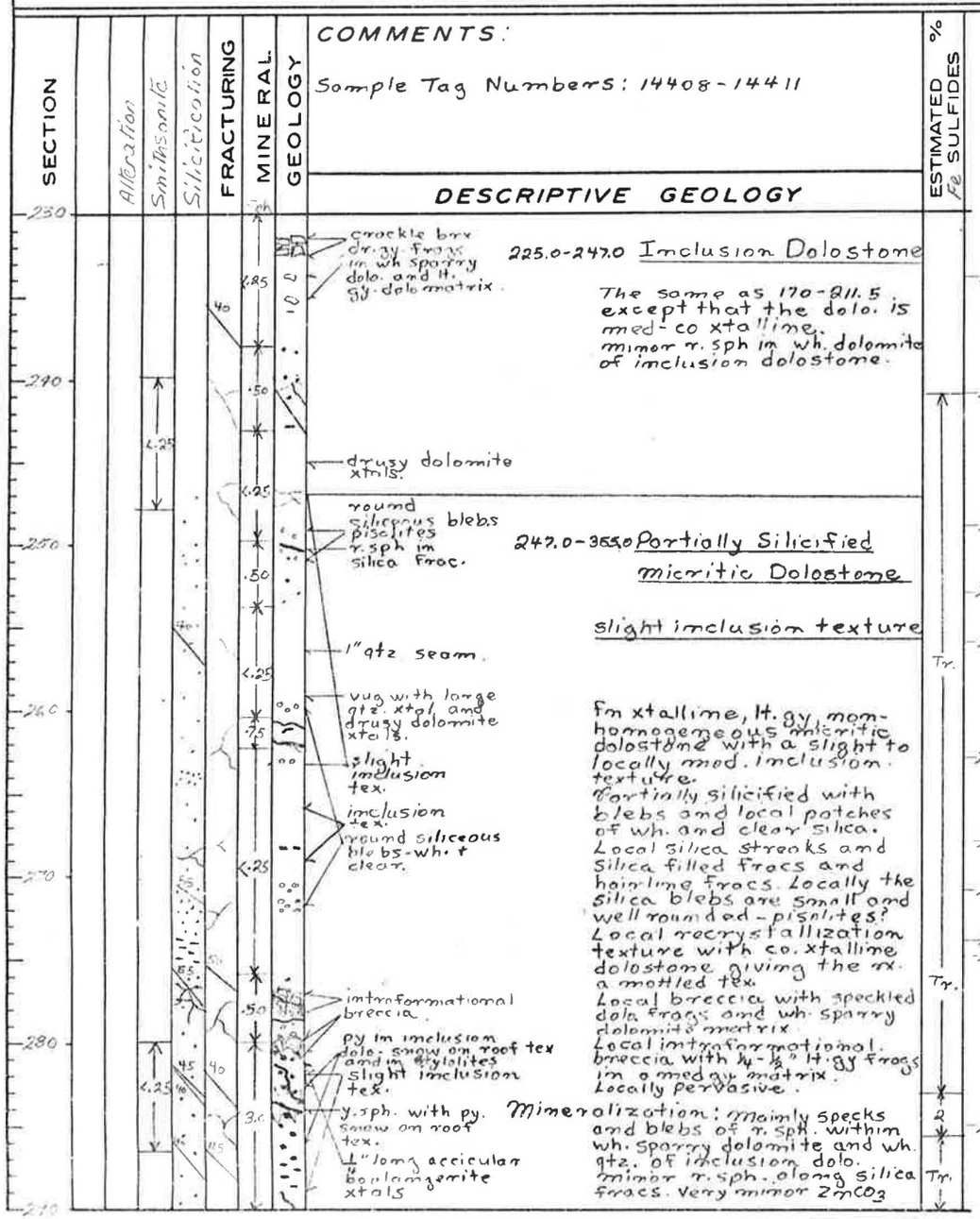
285.0-847.0 Inclusion Dolostone

- speckled dolo intraclasts? or frags

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / ZnCO3	ASSAYS % Zn Total	% Zn Soluble (ZnCO3)	% Zn (ZnS)	%
171.0	97%	397	96.5%	<.25 / .25	0.21	0.10	0.11	
		172.0						
	94.5%	398	94.5%	.25 / .50	0.47	0.29	0.18	
		179.0						
181.0		399	91%	1.0 / 1.0	1.20	0.38	0.82	
	89%	185.0						
189.0		400	65.5%	<.25 / .25	0.30	0.24	0.06	
191.0	275%							
	60%	194.0						
194.0	92%	401	78%	<.25 / .25	0.08	0.04	0.04	
197.0	69%							
201.0	74%	202.0						
203.5		402	78%	.50 / 1.0	0.29	0.10	0.19	
	80%	206.0						
208.0		403	53.5%	1.0 / .50	0.39	0.07	0.32	
	38.5%	211.5						
211.5	10%	404	10%	<.25 / 2.0	0.45	0.25	0.20	
217.0		217.0						
	73%	405	73%	<.25 / 4.0	0.66	0.53	0.13	
		221.0						
		406	73%	<.25 / 8.0	0.65	0.60	0.05	
225.0		225.0						
	96%	407	96%	<.25 / .25	0.07	0.06	0.01	
		230.0						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-16 CLAIM: DUO 2 PROPERTY: Gox Creek PAGE No. 5 of 8



CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-16 | CLAIM: DUO 2 | PROPERTY: Goz Creek | PAGE No. 6 of 8

COMMENTS:

Sample Tag Numbers: 14412 - 14421

DESCRIPTIVE GEOLOGY

247.0-355.0 Partially Silicified Micritic Dolostone

slight inclusion tex

inclusion tex
pisolites ?
specks of r.sph in silica frac. within dolomite frac.

pisolites?

r.sph in silica fracs.
breccia with wh. sparry dolomite matrix with qtz cement

r. sph. in stylolites w. py.

slight to moderate inclusion tex.

inclusion dolo.
r.sph in silica frac.
well developed r. sph. xtals in vug.

inclusion tex.

en echelon open fracs 6" med gy
argillaceous seam.

inclusion tex.

313-335 Silicification decreases quite sharply silicified blebs of dolo are all but absent. Silicification is confined to wh. and minor clear silica forming the centers of wh. sparry dolomite matrix and as clear silica fracture fillings.

mineralization: pyrite content increases sharply from 319 and is contained within stylolites. r. sph. also increases sharply and is contained within stylolites with the pyrite, hairline silica fracs, within wh. sparry dolomite fracs, within inclusion texture or breccia and as coarse crystalline masses within wh. qtz and wh. sparry dolomite

343-410 Local argillaceous and pyritic seams cutting the core similar to stylolites

SECTION	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
290							290.0						
					295.0	100.5%	412	95%	<.25 / <.25	0.13	0.02	0.11	
300						90%	300.0						
					305.0		413	95%	<.25 / <.25	0.04	0.01	0.03	
310						98%	313.0						
					315.0		414	98%	1.00 / <.25	0.29	0.01	0.28	
320						98%	318.0						
							415	98%	.75 / <.25	0.25	0.01	0.24	
					324.5		324.0						
							416	106%	.25 / <.25	0.15	0.01	0.14	
330						107%	329.0						
							417	107%	2.0 / <.25	2.20	0.04	2.16	
					334.0		334.0						
						100%	418	101.5%	2.0 / <.25	2.50	0.06	2.44	
					337.5		340.0						
340						103%	419	103%	3.0 / <.25	2.05	0.04	2.01	
							346.0						
					347.0		420	96%	.25 / <.25	0.08	0.02	0.06	
						92.5%	349.0 421						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-16 CLAIM: DUO 2 PROPERTY: Goz Creek PAGE No. 7 of 8

COMMENTS:

Sample Tag Numbers: 14421-14422

DESCRIPTIVE GEOLOGY

247.0 - 355.0 Partially Silicified micritic Dolostone
Slight Inclusion Texture

laminated fissile argil. seam
wh + dr gy banding in recrystallized dolo 45°

355.0 - 433.0 micritic Dolostone

greenish gy argil seams

Argilaceous Seams

Fn xtalline, lt-med gy generally homogemeous micritic dolostone. local sections of inclusion dolo and sections of co. xtalline recrystallized dolostone. The micritic dolo is locally mottled v. lt. and med gy. The dolostone becomes more siliceous towards the bottom. Frequent greenish gy. argillaceous seams which generally have wavy laminations and generally cut the core at low angles (10-15°) generally slightly vuggy.

2"-6" speckled dolo. intraclasts

greenish gy. argil seams specks of wh dolo with minor $ZnCO_3$

co. xtalline lt.gy dolo. inclusion dolo. locally pseudobreccia

speckled dolo.

inclusion dolo. r. sph. xtals. in vugs with qtz. xtals

well developed qtz xtals in vug.

laminated argillaceous seam cutting core at low angle.

laminated (45°) argil seam inclusion dolo

laminated argillaceous dolostone 35-40°

creamy white qtz. seams forming on inclusion dolo

banded dolo 50° recrystallized dolo. argil seams

SECTION	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE Zn / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
350									
		92.5%	421	92.5%	1.0 / <.25	1.20	0.03	1.17	
	357.0		355.0						
360		100%	422	97%	<.25 / <.25	0.07	0.01	0.06	
			360.0						
	364.0	40%							
370	370.0	125%							
	371.0	65%							
	372.0	70%							
	373.0	106%							
	377.0	106%							
380	383.0	102.5%							
	385.0	90%							
	388.0	93%							
390	397.0	92%							
400	403.0	93%							
410									

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-16 CLAIM: DUO 2 PROPERTY: Goz Creek PAGE No. 8 of 8

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	ESTIMATED % SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS %	%	%	%				
410							355.0-433.0 Micritic Dolostone	Tr.	412.0	93%											
							Argillaceous Seams		413.5	72%											
			40°				← inclusion tex.			94%											
420									420.0	57.5%											
									422.0	8%											
									429.0	55%											
430						40°	← contact between dm. gy + lt. gy dolo	Tr.	431.0	30%											
									431.5	77%											
433							End of BAF 74-16		433.0												

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-17 | CLAIM: DUO 2 | PROPERTY: Goz Creek | OVERBURDEN: 4.8' | PAGE No. 1 of 5

ELEVATION: 4,540.0 | SECTION: 10+700 | DATE STARTED: Sept. 1, 1974 | CONTRACTOR: Longyear | LOGGED BY: G.G. Webb

NORTHING: 157,490.2 | INCLINATION: -90° | DATE FINISHED Sept 4, 1974 | CORE SIZE: BQ 8-33, AQ 33-272 | SCALE: 1"=10'

EASTING: 78,393.8 | AZIMUTH: — | TOTAL DEPTH: 272 | % CORE RECOVERY: 93% | CORE STORED AT: Camp

COMMENTS: Stickup: 3.2'
Sample Tag Numbers: 14423 - 14440

Hole Summary
8.0-41.5 Speckled Dolo. - fractured, minor $ZnCO_3$ frac. fillings and diss. ZnS.
41.5-71.0 micritic Dolo. - partially silicified no mineralization
71.0-100.0 Inclusion Dolo partially silicified, vuggy, weak n.sph vug fillings.
100.0-272.0 micritic Dolo. homo. vuggy, no mins.

DESCRIPTIVE GEOLOGY

note BQ core 8.0-33.0
AQ core 33.0-272.0

3.2-8.0 Overburden

8.0-41.5 Speckled Dolostone
Fractured

Fn xtalline, med. gy speckled and wispy banded dolostone. Appears to be mottled with indistinct blebs and patches of heavily speckled dolostone within lightly speckled dolostone. Fractured with wh. dolomite and smithsonite filling fracs. Intensity of fracturing decreases towards base of section.

mineralization: mainly smithsonite frac fillings and minor disseminated smithsonite specks of n.sph occurring with py in recrystallized dolostone.

- ZnO locally on fracs
- y. sph in frac.
- weathered py + sph.
- ZnO locally on fracs
- ZnO w. qtz. xtals.
- wh. creamy qtz.
- clear well formed qtz. xtals
- creamy wh. qtz. stringers, well developed qtz. xtals 2" wide
- dk. gy siliceous frags or intraclasts + frac fillings

41.5-71.0 micritic Dolostone
Partially Silicified

Fr.

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS: % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)
8.0		8.0					
	47.5%	423	47.5%	<.25 / .75	0.31	0.26	0.05
14.0		14.0					
	90%	424	90%	<.25 / .50	0.08	0.07	0.01
18.0		18.0					
20.0		425	72.5%	<.25 / 1.0	0.55	0.38	0.17
	61%	23.0					
		426	69%	.50 / 1.0	1.20	0.36	0.84
28.0		30.0					
	90%	427	89.5%	<.25 / .25	0.09	0.06	0.03
33.0							
34.0	80%						
	94%	428	94%	1.5 / .25	1.55	0.08	1.47
		40.0					
42.0		429	93%	<.25 / <.25	0.04	0.03	0.01
	92%	45.0					

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-17 CLAIM: DUO 2 PROPERTY: Goz Creek PAGE No. 2 of 5

COMMENTS:

Sample Tag Numbers: 14430-14438

DESCRIPTIVE GEOLOGY

41.5-71.0 Micritic Dolostone

Partially Silicified

Fm-med. xtalline, lt. gy micritic dolostone. The whole section is slightly speckled. The contact with the above unit is gradational. Minor 2' sections of heavily speckled and wispy banded dolostone. Partially silicified with dk. gy cherty blebs, and blebs and specks of clear silica. Rounded silica blebs may be silicified pisolites? Local co xtalline, recrystallized dolo. micritic dolo slightly mottled

Silicified pisolites?
speckled dolo
r.sph specks in wh qtz.
silicified pisolites?
speckled dolo.
speckled + wispy banded
clear qtz in vug

71.0-100.0 Inclusion Dolostone

Partially Silicified, vuggy

med-co xtalline, lt-med gy inclusion dolostone. The inclusion is probably due to recrystallization. Generally vuggy; locally very vuggy. Silicified with blebs, streaks, and frac. fillings of clear silica. Locally wh. qtz. blebs and clear qtz. xtals. lining vugs.

Mineralization - mainly r.sph. vug fillings and occasionaly within stylolites. sph. generally occurs with py. but not always. No smithsonite.

specks of r.sph in vugs + disseminated
clear qtz xtals
drusy dolomite xtals
pisolites?
clear qtz xtals.
Quite Vuggy

100.0-272.0 Micritic Dolostone

Homogeneous, vuggy

Very Vuggy.

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE Zn / ZnCO3	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
51.0	92%							
	88%							
54.0								
	94%							
63.0								
		66.0						
	100.5	430	100.5%	<.25 / <.25	0.07	0.05	0.02	
		71.0						
73.0		431	102%	.50 / <.25	0.33	0.04	0.29	
		75.0						
	103%	432	103%	.25 / <.25	0.19	0.03	0.16	
		79.0						
		433	101.5	3.0 / <.25	2.25	0.10	2.15	
83.0		84.0						
		434	96%	1.0 / <.25	1.05	0.06	0.99	
	96%	89.0						
		435	96.5%	1.5 / <.25	1.60	0.05	1.55	
93.5		94.0						
		436	99.5%	2.0 / <.25	1.90	0.05	1.85	
	99.5%	100.0						
		437	95.5%	.50 / <.25	0.41	0.04	0.37	
103.75		105.0						
105.0	84%							
	96%	438	96%	<.25 / <.25	0.18	0.03	0.15	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-24-17 CLAIM: DUO 2 PROPERTY: Goz Creek. PAGE No. 3 of 5

COMMENTS:

Sample Tag Numbers: 14438-14440

DESCRIPTIVE GEOLOGY

100.0-272.0 Micritic Dolostone

Homogeneous, vuggy

med. xtalline, lt. gy very homogeneous micritic dolostone. Generally slightly mottled with irregular med. gy. dolo. bands. Infrequent short sections of inclusion dolostone and speckled and and wispy banded dolostone. vuggy to locally very vuggy.

mineralization: very minor frac. fillings of smithsonite

- 114 vuggy
- 120 very well formed qtz xtals; $ZnCO_3$ in fracs + vugs.
- 130 very vuggy
- 140 vuggy; slight inclusion tex.; very vuggy
- 150 inclusion + clotted tex.; well defined wispy banding 50-55°; speckled + wispy banded.
- 160 very vuggy; creamy wh. qtz. seam; very vuggy
- 170

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (ZnS / $ZnCO_3$)	ASSAYS: % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
		438	96%	<.25 / <.25	0.18	0.03	0.15	
114.5	96%	112.0						
116.5	107.5%	439	101.5%	<.25 / .50	0.25	0.08	0.17	
118.0	107%	117.0						
		440	102%	<.25 / <.25	0.03	0.02	0.01	
	101%	122.0						
127.0								
	93%							
137.0								
	103%							
146.0								
	95%							
156.5								
	88%							
162.0								
	84%							
167.0								
	78.5%							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-17 CLAIM: DUO 2 PROPERTY: Goz Creek. PAGE No. 4 of 5

COMMENTS:

DESCRIPTIVE GEOLOGY

100.0-272.0 Micritic Dolostone

Homogeneous, vuggy.

- 170 — 40 — pyritic stylolite. speckled dolo.
- 180 — 40 — large r.sph blob filling vug.
- 190 — 50
- 200 — 30
- 210 — slight imbrication texture vuggy. — 50
- 220 — 30 — wavy banding few specks of y. sph. in imclusion tex.
- 230

DRILLING INTERVAL	% CORE RECOVERED
174.0	78.5%
	92%
181.0	
	98.5%
188.0	
	98%
198.0	
	95%
208.0	
	102%
213.0	
215.0	117.5%
	93.5%
225.0	
	96%

SECTION | Alteration | Smithsonite | Silicification | FRACTURING | MINERAL | GEOLOGY | ESTIMATED % Fe SULFIDES | SAMPLE INT. & NUMBER | % RECOVERY / SAMPLE INT. | ESTIMATED GRADE | ASSAYS (%, %, %, %)

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-17 CLAIM: DUO 2 PROPERTY: Goz Creek. PAGE No. 5 of 5

SECTION	Alteration	Sericitization	Silicification	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS %	%	%	%				
230				45	Cpy		100.0-272.0 Micritic Dolostone Homogemeous, vuggy		235.0	96%											
							quite heavily mottled.														
240										102.5%											
							quite heavily mottled.		245.0												
							slight wispy banding			84%											
250									253.0												
										102%											
260							qt and dolomite xtals in vug. quite heavily mottled.		263.0												
										90%											
270																					
272							End of BAF 74-17		272.0												

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-18 | CLAIM: DUO 4 | PROPERTY: Goz Creek | OVERBURDEN: 30.5 | PAGE No. 1 of 3

ELEVATION: 4611.2 | SECTION: 9+600 | DATE STARTED: Sept 6, 1974 | CONTRACTOR: Lomayear | LOGGED BY: G.G. Webb

NORTHING: 158,250.9 | INCLINATION: -45° | DATE FINISHED Sept 7, 1974 | CORE SIZE: BQ 38-51, AQ 51-143 | SCALE: 1" = 10'

EASTING: 77,498.0 | AZIMUTH: 60° | TOTAL DEPTH: 147 | % CORE RECOVERY: 29% | CORE STORED AT: Camp

COMMENTS: Hole lost due to cave in at 143'. Stickup = 7.5. 4' of core left in hole.
Sample Tag Numbers: 14441-14457

Hole Summary

38.0-70.0 Speckled Dolo: Fractured, weak $ZnCO_3$ frac fillings, minor weathered ZnS.

70.0-143.0 Altered Dolo altered and partially altered. Weak diss. $ZnCO_3$ and weak. ZnS frac. and vug fillings.

DESCRIPTIVE GEOLOGY

Note BQ core 38.0-51.0
AQ core 51.0-143.0

7.5-38.0 Overburden.

38.0-70.0 Speckled Dolostone

Fractured, Partially Altered

Fn xtalline, med. dr. gy. speckled and wispy banded dolostone. Local breccia with distinct frags. of speckled dolo. generally with rims of wh. sparry dolomite, matrix is a lt. buff colored fn xtalline dolomite. Locally altered and partially altered. Fractured with wh. sparry dolomite and Smithsonite fillings.

mineralization: mainly Smithsonite filling hairline fracs and disseminated within altered and partially altered dolostone. minor weathered r. sph and py in fracs.

weathered r. sph + py.

well defined wispy banding ~40°

weathered r. sph + py in ½" qtz stringers

breccia w. speckled frags buff gy. matrix

breccia w. speckled frags + buff gy. fn xtalline dolo.

Tr.

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
38.0		38.0						
	70%	441	90%	2.0 / 4.0	2.45	2.40	0.05	
41.0		41.0						
	80%	442	80%	1.0 / 2.0	0.48	0.45	0.03	
46.0		46.0						
47.0								
	64%	443	67%	.25 / 1.0	0.29	0.28	0.01	
51.0		51.0						
	23%	444	23%	<.25 / .50	0.06	0.05	0.01	
54.0		54.0						
	7%	445	7%	<.25 / .50	0.05	0.05	0.00	
65.0		65.0						
67.0	15%							
	40%	446	30%	<.25 / .50	0.04	0.04	0.00	
70.0		70.0						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BRF-74-18 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 2 of 3

COMMENTS:

Sample Tag Numbers: 14447-14456

DESCRIPTIVE GEOLOGY

70.0-143.0 Altered Dolostone

Altered and Partially Altered

Lt. gy to lt. yellowish gy. altered and partially altered dolostone. Generally quite fractured in partially altered zones with mostly smithsonite filled hairline fractures. Zone of definite fault breccia 123-127 with very small frags. and a smithsonite rich matrix. There appears to be another fracture zone 108-117 however this may be little more than a shattering and alteration of the dolo. Local relics of wispy banded texture.

mineralization: mainly smithsonite along fracs and disseminated within breccias and heavily altered dolostone. minor weathered sph and py frac and vug fillings.

123-127 Fault Breccia
small ⅛-¼" med gy d

creamy wh qtz. fract vug filling

smithsonite disseminated in altered dolo.

breccia w. speckled frags and buff gy. matrix.

partially altered speckled dolo.

Silicified dolo.

indistinct breccia with smithsonite matrix and silicified frags or fractured dolo. with $ZnCO_3$ filling fracs.

very poor recovery indication of fractured, altered speckled dolo with $ZnCO_3$ fillings

very fine breccia with a smithsonite matrix.

very poor core recovery.

SECTION	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%
70		70.0		70.0						
		72.0	60%							
			20%	447	36%	1.25 / .50	0.43	0.39	0.04	
		75.0		75.0						
			44.5%	448	44.5%	1.0 / 3.0	2.70	2.60	0.10	
		80.0		80.0						
		80.5								
			11%	449	13%	1.25 / .50	0.09	0.08	0.01	
		87.0		87.0						
			20%	450	20%	1.25 / 1.0	0.04	0.04	0.00	
		91.0		91.0						
			10%	451	10%	1.25 / 1.5	0.08	0.07	0.01	
		98.0		98.0						
			34%	452	34%	1.25 / .50	0.20	0.20	0.00	
		102.0		102.0						
			7%	453	7%	1.25 / .50	0.05	0.05	0.00	
		107.0		107.0						
			41%	454	41%	1.0 / 5.0	4.40	2.95	1.45	
		111.0		111.0						
			58%	455	58%	.75 / 8.0	2.25	1.65	0.60	
		117.0		117.0						
			2%							
		123.0		123.0						
			53%	456	53%	.75 / 2.0	1.55	0.54	1.01	
		127.0		127.0						
			25%							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-18 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 3 of 3

SECTION | Alteration | Smithsonite | Silicification | FRACTURING | MINERAL | GEOLOGY

COMMENTS:
Sample Tag Number: 14457

DESCRIPTIVE GEOLOGY

ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / ZnCO3	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
	130								
		25%							
	137.0		137.0						
		54%	457	54%	2.0 / 4.0	3.70	1.12	2.58	
	143.0		143.0						
		0%							

70.0-143.0 Altered Dolostone

no sample
very poor
core recovery
indication of
continuing breccia
with a smithsonite
matrix.

dissemminated
smithsonite +
weathered r. sph.

core left at bottom
of hole in core tube

End of BAF-74-18

Hole lost due to cave in

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-19 | CLAIM: DUO 4 | PROPERTY: Goz Creek | OVERBURDEN: 16.6 | PAGE No. 1 of 7

ELEVATION: 4613.4 | SECTION: 9+600 | DATE STARTED: Sept 7, 1974 | CONTRACTOR: Longyear | LOGGED BY: G. G. Webb

NORTHING: 158,247.7 | INCLINATION: -90° | DATE FINISHED Sept 12, 1974 | CORE SIZE: BQ 19-75, AQ 75-394 | SCALE: 1" = 10'

EASTING: 77,492.9 | AZIMUTH: — | TOTAL DEPTH: 394 | % CORE RECOVERY: 75% | CORE STORED AT: Camp

COMMENTS: Stickup: 2.5

Sample Tag Numbers: 14461-14485

Hole Summary

19.0 - 83.0 Altered Dolo - Altered and partially Altered - weak diss + frac $ZnCO_3$.

83.0 - 160.0 Speckled Dolo. weak frac. ZnS, minor Frac. $ZnCO_3$

160.0 - 230.0 micritic Dolo. Inclusion + mottled tex. minor frac + vug ZnS

230.0 - 394.0 micritic Dolo. homogeneous, no min

DESCRIPTIVE GEOLOGY

Note BQ core 19.0 - 75.0
AQ core 75.0 - 394.0

2.5 - 19.0 Overburden

19.0 - 83.0 **Altered Dolostone**

Altered and Partially Altered

Fm. xtalline, lt.-med. gy. altered and partially altered dolostone. Frequent breccia with altered matrix and frags. Quite Fractured with wh. sparry dol., smithsonite and locally clear silica fracture fillings. Local clear and creamy wh. qtz. blebs

mineralization: mainly smithsonite filling fracs and dissemin ated within the altered dolostone. minor weathered r. sph and py. in fracs.

19-40 core is quite broken up

creamy wh. qtz seam 3" with altered dolo. blebs.

Fault brx? weathered sph & py in frac with wh. qtz. brx or intraclasts

extensive alteration within frac network.

dr. gy speckled intraclasts in med gy slightly speckled dolo

altered breccia

weathered r. sph in vug.

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
19.0		19.0						
	47.5%	4461	47.5%	<.25 / 1.0	1.90	1.80	0.10	
23.0		23.0						
	57%	4462	57%	<.25 / .75	0.40	0.38	0.02	
28.0		28.0						
	67.5%	4463	67.5%	<.25 / 2.0	0.10	0.10	0.00	
32.0		32.0						
	18%	4464	18%	<.25 / 1.0	0.48	0.47	0.01	
		36.0						
		4465	18%	<.25 / .75	0.06	0.06	0.00	
40.0		40.0						
	81%	4466	81%	<.25 / 5.0	0.30	0.29	0.01	
47.0		45.0						
		4467	82.5%	<.25 / 8.0	0.08	0.07	0.01	
	83%	50.0						
53.0		4468	88%	<.25 / 5.0	0.24	0.22	0.02	
	96%	55.0						
58.0		4469	92.5%	<.25 / 5.0	0.07	0.07	0.00	
	87%	60.0						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-19 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 2 of 7

COMMENTS:
Sample Tag Numbers: 14470-14480

DESCRIPTIVE GEOLOGY

19.0 - 83.0 Altered Dolostone

Altered and Partially Altered

creamy wh. qtz. seam w. well developed clear qtz. xtals. weathered r.sph.

65-83 Alteration gradually decreases.

83.0 - 160.0 Speckled Dolostone

Lightly Speckled

Fm xtalline, lt-med. gy. lightly speckled dolostone locally sections of very lightly speckled to micritic dolostone. locally appears to be a breccia and locally an intraclastic dolostone with dk. gy. speckled dolo. frags or intraclasts in a lightly speckled matrix. 1/16 - 1/4" blebs of clear silica and wh. creamy qtz particularly near top of section. Intensity of speckles decreases towards base of section. minor inclusion texture.

mineralization: frac fillings of r.sph with minor py. frequently slightly weathered. minor smithsonite occurring in slightly weathered zones. in fracs + stylolites w. py.

85-105 Core quite broken up.

r.sph. in breccia

mainly fmxtalline H.gy slightly speckled micritic

r.sph. with very slight colloform texture

r.sph in silica frac.

intraclasts

intraclasts or brx. frags.

Tr.

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / ZnCO3	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
60.0								
	87%	470	87%	.75 / 1.0	0.37	0.25	0.12	
65.0								
	80%	471	80%	<.25 / .50	0.07	0.07	0.00	
70.0								
		472	80%	<.25 / .50	0.05	0.03	0.02	
75.0								
	62.5%	473	62.5%	<.25 / .25	0.03	0.02	0.01	
80.0								
83.0		474	78%	<.25 / .25	0.08	0.05	0.03	
	90%							
87.0								
	65%	475	65%	1.0 / .50	2.00	0.16	1.84	
92.0								
93.0	70%							
	25%	476	46%	<.25 / .25	0.07	0.02	0.05	
95.0								
96.0								
	65%	477	65%	1.0 / .25	3.90	0.56	3.34	
100.0								
	32%							
102.5		478	63%	<.25 / <.25	0.08	0.02	0.06	
	85%							
106.0								
108.0		479	83%	2.5 / .25	2.80	0.22	2.58	
112.0								
	82.5%							
		480	88%	<.25 / <.25	0.12	0.02	0.10	
118.0								
	46%							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-19 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 3 of 7

COMMENTS:
Sample Tag Numbers: 14480-14485

DESCRIPTIVE GEOLOGY

83.0 – 160.0 Speckled Dolostone

Lightly Speckled

intraclasts or brx
r. sph in fmes w. qtz.
r. sph specks in stylolite w. py.
micritic lt. gy. dolo 2° gy. silicified bleb
intraformational breccia with lt. gy micritic frags and med. gy. speckled matrix.
micritic dolo fault? brx at base
intraformational breccia
r. sph with bleb of wh. creamy qtz.
micritic dolo.
slightly H gy. micritic, minor inclusion tex. and intraclasts

160.0 – 230.0 Micritic Dolostone

Slight inclusion and mottled textures

homogeneous micritic
slightly weathered to light buff color.

Fm. xtalline, lt. gy. micritic dolostone with slight inclusion, clotted and mottled textures. Slightly fractured except for local zones of quite intense hairline fracturing. local sections of slight weathering with a light buff color. Weathering usually coincident with more intense fracturing

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE Zn / ZnCO3	ASSAYS % Zn Total	% Zn Soluable (ZnCO3)	% Zn (ZnS)	%
		480	88%	<.25 / <.25	0.12	0.10	0.02	
122.0								
	96%	481	96%	.25 / <.25	0.37	0.07	0.30	
126.0								
128.0		482	79%	.75 / <.25	0.40	0.03	0.37	
	72%							
133.0		483	72%	<.25 / <.25	0.11	0.02	0.09	
138.0								
	36%	484	44%	.50 / <.25	0.71	0.05	0.66	
142.0								
	75%							
143.0								
144.0		485	72%	<.25 / <.25	0.04	0.02	0.02	
	71%							
148.0								
150.0								
	67.5%							
158.0								
	79%							
162.0								
	10%							
166.0								
	85%							
177.0								
	76%							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-19 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 4 of 7

COMMENTS:

DESCRIPTIVE GEOLOGY

160.0-230.0 Micritic Dolostone

Slight inclusion and mottled textures

230.0-394.0 Micritic Dolostone

Homogeneous

SECTION	Alteration	Silicification	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS %	%	%	%
180				Sph	heavily speckled dolo.		182.0	76%							
								53.5%							
190					weathered py. + sph?		192.0	53%							
							197.0	43%							
200					vuggy	Tr.	202.0	75%							
							204.0	58%							
					homogeneous micritic		209.0	12.5%							
							211.0	22.5%							
							215.0	17.5%							
220					very fine fault breccia	Tr.	219.0	88%							
					dr. gy argil. seams.		224.5	40%							
					Speckled dolo. minor argil. seams		228.0	86%							
230					fractured homogeneous micritic dolo r. sph along fracs. dolo. weathered to a lt. buff color. M. dr. argil seams.		238.0	81%							
240															

219-226 very fine fault breccia. Frags are lt. gy, fm x to lime dolo. 1/16-1/4" in a matrix of almost wh. dolostone. minor silicified blebs minor hairline bk argil. seams and py. stylolites.

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-19 CLAIM: DUO 4 PROPERTY: Gox Creek PAGE No. 5 of 7

COMMENTS:

DESCRIPTIVE GEOLOGY

230.0-394.0 Micritic Dolostone.

Homogeneous

- Stylolites w. blk. argil. filling
- bleb of r.sph. within stylolite.
- vuggy
- mottled banding plastic deformation?
- wispy banding
- vuggy inclusion dolo.
- very intense fracturing and fault breccia
- faint banding bedding
- mottling
- very intense hairline fracturing fault breccia

SECTION	DRILLING INTERVAL	% CORE RECOVERED	ESTIMATED % SULFIDES
240			
		81%	Tr.
	248.0		
250		84%	
	254.0		
		80.5%	
260			
	264.0	92.5%	
	266.0		
270		64%	
	273.5		
		89%	
280	281.0		
		95.5%	
290	291.0		
		68.5%	
	298.0		
		70%	
300			

SAMPLE INT. & NUMBER | % RECOVERY / SAMPLE INT. | ESTIMATED GRADE | ASSAYS (%, %, %, %)

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-19 CLAIM: DUO 4 PROPERTY: Box Creek PAGE No. 6 of 7

SECTION | Alteration | Sulphide | Silicification | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | DESCRIPTIVE GEOLOGY | ESTIMATED % SULFIDES | DRILLING INTERVAL | % CORE RECOVERED | SAMPLE INT. & NUMBER | % RECOVERY / SAMPLE INT. | ESTIMATED GRADE | ASSAYS

300

230.0-394.0 micritic Dolostone.

Homogeneous

213-221 Pyritic argillaceous dolostone.

micro-fm xtalline lt.-greenish gy argillaceous dolostone with considerable pyrite dessiminated throughout. locally py blebs: locally laminated at 45-45° between laims fm xtalline alternates with microcrystalline. lamination surfaces are very polished and smooth. occasional blebs of med-dr. gy dolo.

1/4" Py. seam 10°

lt. greenish gy pyritic argillaceous dolostone.

5

310

320

330

340

350

360

DRILLING INTERVAL	% CORE RECOVERED
301.0	70%
	92%
308.0	
	85%
318.0	
	94%
325.0	
	82%
329.5	
	72%
336.0	
	88%
344.5	
	70%
351.0	
	65%
354.0	
	67.5%

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-19 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 1 of 7

SECTION	Alteration	Silicification	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	ESTIMATED % SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS %	%	%	%				
360						230.0-394.0 Micritic Dolostone			67.5%											
						Homogeneous		364.0												
						— lams 70°			98%											
								367.0												
370									78%											
								370.0												
									20%											
								373.5												
								375.0	13%											
									62.5%											
								377.0												
						intensily fractured & fault breccia			74%											
380								381.0												
									70%											
								384.0												
									25%											
								387.0												
									50%											
390								391.0												
									10%											
394						End of BAF 74-19		394.0												

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BSF-74-20 | CLAIM: DUO 4 | PROPERTY: Goz Creek | OVERBURDEN: 20.2 | PAGE No. 1 of 5

ELEVATION: 4,679.5 | SECTION: 10+100 | DATE STARTED: Sept 14, 1974 | CONTRACTOR: Longyear | LOGGED BY: G. G. Webb

NORTHING: 157,820.5 | INCLINATION: -67° | DATE FINISHED Sept 16, 1974 | CORE SIZE: BQ 22-116.0, AQ 116.0-288.0 | SCALE: 1" = 10'

EASTING: 77,749.5 | AZIMUTH: 60° | TOTAL DEPTH: 288 | % CORE RECOVERY: 78% | CORE STORED AT: Camp

COMMENTS: Hole lost due to cave in at 288'
Stickup = 1.8'
Sample Tag Numbers: 14486 - 14538

Hole Summary
22.0-127.0 Speckled Dolo. - Locally altered, minor $ZnCO_3$ in fracs. or diss.
127.0-150.0 Altered Dolo. - fault, strong $ZnCO_3$
150.0-161.0 Dolo. Breccia - partially silicified, strong ZnS
161.0-239.0 Imelusion Dolo. " ", mod. ZnS
239.0-288.0 Micritic Dolo. " ", weak ZnS, $ZnCO_3$

DESCRIPTIVE GEOLOGY

1.8 - 22.0 Overburden

22.0 - 127.0 Speckled Dolostone

Locally Altered or Partially Altered Fractured

Fn xtalline, med. gy speckled and wispy banded dolostone. Altered or partially altered with degree of alteration decreasing towards the bottom of the section. Frequent blebs of creamy wh. qtz and minor frac fillings of qtz and qtz xtals filling vugs. Generally quite fractured with wh. dolomite and smithsonite frac. fillings.

mineralization: mainly frac fillings of Smithsonite and in the more altered sections disseminated Smithsonite.

22-119 core quite broken up.

wh creamy qtz blebs + xtals

drusy dolomite xtals

well formed qtz xtals

well defined wispy banding

1" Frac lined with wh. qtz. with dolomite rim

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / $ZnCO_3$	ASSAYS % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
22.0		22.0						
	69%	486	69%	<.25 / 1.5	1.20	1.15	0.05	
28.0		28.0						
	100%	487	100%	<.25 / 1.5	0.24	0.22	0.02	
32.0		32.0						
	75%	488	75%	<.25 / 1.5	0.10	0.08	0.02	
38.0		38.0						
40.0	60%							
	66%	489	63.5%	<.25 / 1.0	0.07	0.06	0.01	
43.0		43.0						
45.0	65%							
		490	67%	<.25 / .50	0.05	0.05	0.00	
	68%	48.0						
50.0		491	49%	<.25 / .50	0.07	0.06	0.01	
52.0	30%	52.0						
	24%	492	24%	<.25 / .50	0.05	0.05	0.00	
60.0		60.0						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-20 CLAIM: Duo 4 PROPERTY: Goz Creek PAGE No. 2 of 5

COMMENTS:

Sample Tag Numbers: 14493-14505

DESCRIPTIVE GEOLOGY

20.0-127.0 Speckled Dolostone

Locally Altered or Partially Altered Fractured

- altered breccia
- weathered py seams with wh qtz and well formed qtz. xtals.
- breccia with dr. gy speckled frags in a lt. gy slightly speckled matrix. subangular frags. wh qtz lining vug.
- breccia with wh. dolomite matrix
- weathered Sph. + py? in fracs or vugs strong $ZnCO_3$ w. wh qtz.
- med fault breccia.
- partially weathered Sph. in breccia w. qtz + $ZnCO_3$
- breccia w. wh. sparry dolomite matrix.
- crackle breccia

119-128 Core very broken up and ground.

SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	ESTIMATED % SULFIDES Fe	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / ZnCO3	ASSAYS % Zn Total	% Zn Soluable ($ZnCO_3$)	% Zn (ZnS)	%				
60	+							60.0		60.0										
	+								62.5%	493	62.5%	<.25 / .50	0.07	0.06	0.01					
	+							64.0		64.0										
70	+								96%	494	96%	<.25 / .75	0.09	0.07	0.02					
	+							69.0		69.0										
	+	.50							77.5%	495	72.5%	<.25 / 1.0	0.19	0.15	0.04					
	+							73.0		73.0										
									103%	496	96%	<.25 / .75	0.14	0.12	0.02					
								76.0		78.0										
80	+								85%											
								80.0		497	74%	<.25 / .50	0.06	0.05	0.01					
								82.0	62.5%	82.0										
									100%											
								85.0		498	98.5%	<.25 / .50	0.05	0.04	0.01					
									97%											
90								88.0		88.0										
									78%	499	78%	<.25 / .50	0.07	0.05	0.02					
								93.0		93.0										
									87.5%											
	+	1.5						95.0		500	88%	.75 / 1.5	0.91	0.72	0.19					
									88.5%											
								98.0		98.0										
								98.5												
100										501	81.5%	<.25 / .75	0.07	0.06	0.01					
	+								81%											
	+	.75								103.0										
										502	81.5%	<.25 / .50	0.10	0.08	0.02					
								106.0		107.0										
										503	82.5%	2.0 / 1.0	4.00	1.00	3.00					
									82.5%	111.0										
110	+									504	82.5%	<.25 / .50	0.36	0.22	0.14					
										116.0										
	+	.25						116.0												
								119.0	73%	505	70.5%	<.25 / .25	0.20	0.13	0.07					
120									68%											

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-20 CLAIM: DUO 4 PROPERTY: Goz Creek

COMMENTS:

Sample Tag Numbers: 14505-14518

DESCRIPTIVE GEOLOGY

120.0-127.0 Speckled Dolostone

Locally Altered or Partially Altered Fractured

core very broken up and ground weathered ch

intense hairline fracturing

127.0-150.0 Altered Dolostone

Fault Zone

very porous altered fault breccia. fragments are ¼-¼" angular to subangular crushed dolostone. matrix contains a high proportion of disseminated Smithsomite. Local short sections of relatively unbrecciated altered speckled dolo.

altered speckled dolostone

partially altered dolo.

150.0-161.0 Dolostone Breccia

Partially Silicified

Breccia containing frags of silicified dolo, unsilicified dolo and altered dolo. matrix is clear and wh. creamy qtz. Silicified frags contain disseminated sph., altered frags contain disseminated Smithsomite. frequent colloform texture in massive sph, unsilicified and altered frags frequently have Smithsomite halos.

altered dolo with diss. $ZnCO_3$ within silicified dolostone

161.0-239.0 Inclusion Dolostone

Partially Silicified

med.-co. xtalline, lt. gy inclusion dolostone. frequently fractured or shattered especially near top of section. Frequently weathered along fractures, frequent creamy white qtz blebs.

speckled + wispy banded dolostone.

r. sph speck in silica frac.

crackle brx speckled dolo.

SECTION	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (Zn_S / $ZnCO_3$)	ASSAYS: % Zn Total	% Zn Soluble ($ZnCO_3$)	% Zn (ZnS)	%
	122.0	68%	505	70.5%	<.25 / .25	0.20	0.13	0.07	
			122.0						
	124.0	57.5%	506	50%	<.25 / .50	0.62	0.48	0.14	
		45%							
	127.0		127.0						
		25%	507	25%	<.25 / 3.0	0.05	0.04	0.01	
	132.0		132.0						
			508	85.5%	<.25 / 2.0	0.26	0.25	0.01	
		85.5%	137.0						
			509	85.5%	<.25 / 4.0	0.24	0.20	0.04	
	142.0		142.0						
		71%	510	71%	.25 / 5.0	1.40	0.96	0.44	
	147.0		147.0						
		63%	511	63%	.50 / .50	0.89	0.59	0.30	
	150.0		150.0						
		94%	512	94%	15.0 / 10.0	18.30	1.55	16.75	
			155.0						
	157.0		513	95%	15.0 / 10.0	18.40	1.50	16.90	
			160.0						
		96%	514	96%	1.5 / 1.0	1.60	0.19	1.41	
			165.0						
	167.0		515	96%	<.25 / .50	0.10	0.04	0.06	
			170.0						
		96%	516	96%	6.0 / .25	5.90	0.25	5.65	
			173.0						
			517	96%	1.0 / .25	0.69	0.13	0.56	
	177.0		177.0						
		78%	518	78%	2.5 / 1.0	3.45	0.27	3.18	

ESTIMATED % Fe SULFIDES: 1.0; Tr.

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 74-20 CLAIM: DUO 4 PROPERTY: Goz Creek PAGE No. 4 of 5

COMMENTS:

Sample Tag Numbers 14518-14530

DESCRIPTIVE GEOLOGY

161.0-239.0 Inclusion Dolostone
Partially Silicified
Frequent hairline silica fracs. (some containing small specks of r.sph.), and silica blebs. Local fault breccia with angular to sub-angular frags with a partially lithified crumbly matrix usually high in disseminated smithsonite. Locally pisolitic.

speckled dolostone
sand
fault breccia crumbly
speckled dolo
fault breccia
silicified frags
py. w. Snow on roof tex. creamy wh. qtz. seam with r.sph. r.sph also w. py. in fracs in lt. gy dolo breccia?
open fracs pseudobrx. tex 6"
r.sph in silica fracs.
micritic dolo local pisolites
speckled and wispy banded
speckled and wispy banded

mineralization: short 1-2' sections of high grade r.sph. occuring in a network of fracs and in vugs. Sph occurs in association with wh. qtz or clear silica and generally with trace pyrite. Frequent smithsonite as frac. fillings or disseminated within fault breccias.

SECTION	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE ZnS / ZnCO3	ASSAYS % Zn Total	% Zn Soluble (ZnCO3)	% Zn (ZnS)	%
180	Tr.	182.0	78%	518	78%	2.5 / 1.0	3.45	0.27	3.18	
		183.0	65%	182.0						
			79%	519	76%	.75 / .50	0.85	0.07	0.78	
		187.0		187.0						
190			12.5%	520	12.5%	<.25 / .25	0.39	0.08	0.31	
		193.0		193.0						
			72%	521	72%	1.0 / 3.0	2.35	0.81	1.54	
				198.0						
200		200.0	55%	522	62%	<.25 / .50	0.33	0.22	0.11	
		203.0		203.0						
		206.0	65%	523	72.5%	.25 / 1.0	0.58	0.30	0.28	
	3.0		96%	208.0						
210		210.0		524	92.5%	<.25 / .25	0.20	0.13	0.07	
	40		98.5%	214.0						
				525	98.5%	1.0 / 1.0	1.80	0.31	1.49	
				218.0						
220		220.0		526	95%	<.25 / <.25	0.12	0.08	0.04	
				222.0						
			91%	527	91%	<.25 / <.25	0.04	0.04	0.00	
230		230.0		230.0						
				528	87%	<.25 / .25	0.21	0.08	0.13	
			87%	234.0						
	Tr.			529	87%	2.0 / <.25	2.40	0.15	2.25	
240		239.0	98%	239.0						
				530						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF 14-20 CLAIM: Duo 4 PROPERTY: Goz Creek PAGE No. 5 of 5

COMMENTS:

Sample Tag Numbers: 14530-14538

DESCRIPTIVE GEOLOGY

239.0 - 288.0 micritic Dolostone

Partially Silicified

Fn xtalline, lt. gy micritic dolostone locally with a slight inclusion or mottled texture. 1-6' sections of speckled and wispy banded dolostone. Partially silicified with irregular blebs of clear silica, occasionally blebs of wh. creamy qtz and fine fillings of clear silica. Silicification increases gradually down section to an almost pervasive silicification at the base. Local fault breccia and associated halo of hairline fracs.

mineralization: r. sph occuring with wh. qtz within inclusion textured dolo as frac and vug fillings. r. sph also occurs locally as specks in clear silica fracs. Smithsonite occurs with r. sph within inclusion textured dolo., alone as hairline frac. fillings, and within fault breccia. Trace py accompanies sph. mineralization and smaller amounts near smithsonite mineralization

inclusion texture

speckled and wispy banded dolo.

homogeneous micritic

pisolites?

r. sph. in silico frac.
slickensides
fault breccia
3/4" r. sph blebs w. qtz.

breccia with wispy banded frags & wh. qtz matrix.

pervasively silicified dolo.
fault breccia

speckled dolo. locally very silicified

inclusion texture

End of BAF-74-20

Hole lost due to cave in

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE (Zn / Fe)	ASSAYS % Zn Total	% Zn Soluble (ZnCO3)	% Zn (ZnS)	%
246.0	98%	530 246.0	98%	.25 / <.25	0.59	0.08	0.51	
	91%	531 256.0	91%	<.25 / .25	0.12	0.02	0.10	
256.5	56%	532 260.0	63%	.75 / .50	0.74	0.09	0.65	
261.0	66%	533 266.0	74.5%	1.5 / 1.0	1.60	0.16	1.44	
269.0	42%	534 271.0	84%	.25 / 1.0	0.65	0.07	0.58	
271.0	72.5%	535 275.0	80%	<.25 / .85	0.04	0.02	0.02	
275.0	84%	536 280.0	78%	.25 / 1.0	0.72	0.29	0.43	
277.5	72%							
280.0	80%	537 284.0	80%	<.25 / .25	0.06	0.02	0.04	
284.0	100%	538 288.0	100%	.50 / .25	0.10	0.02	0.08	
288.0								

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

Certificate of Analysis

RECEIVED JUL 22 1974

TO Cordilleran Engineering Limited
1418-855 Burrard Street
Vancouver, B.C.

REPORT NO. A 44-26
DATE July 19, 1974
Project # BAF-GOZ

I hereby certify that the following are the results of analyses made by us upon the herein described Drill Core samples

74-1

MARKED	Zn T %	Zn S %								
14001	3.32	3.32								
14002	0.85	0.85								
14003	1.11	1.08								
14004	3.20	3.20								
14005	3.40	3.40								
14006	3.40	3.40								
14007	1.32	1.32								
14008	0.74	0.62								
14009	6.80	4.20								
14010	8.80	8.40								
14011	22.52	2.00								
14012	25.68	1.60								
14013	9.40	8.40								
14014	31.50	27.60								
14015	32.40	4.80								
14016	32.40	2.00								
14017	30.00	0.82								
14018	3.40	0.46								
14019	4.00	1.10								
14020	0.40	0.32								

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APPENDIX "E" (Part A)

NOTE:
Rejects retained two weeks
Pulps retained three months

BONDAR-CLEGG & COMPANY LTD.

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i.

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

RECEIVED AUG 6 1974

Certificate of Analysis

TO J. W. Skillery
CORDILLERAN ENG. LTD.
1418 - 355 Burrard St. Van. B.C.

REPORT NO. A-44-41
DATE 29-7-74
PROJECT BAF-602

I hereby certify that the following are the results of analyses made by us upon the herein described drill core samples 74-2,3

MARKED	% Zn Total	% Zn Soluable								
14021	8.56	5.84								
14022	29.20	3.20								
14023	14.96	4.32								
14024	4.80	3.52								
14025	5.60	2.96								
14026	5.04	0.61								
14027	2.16	0.44								
14028	18.64	0.26								
14029	2.40	0.27								
14030	5.36	0.15								
14031	10.40	1.92								
14032	6.40	1.06								
14033	1.40	0.46								

APPENDIX "E" (Part A)

NOTE:
Rejects retained two weeks
Pulps retained three months

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Certificate of Analysis

TO Page 2

REPORT NO. A-44-41

DATE 29-7-74

PROJECT BAF-GOZ

I hereby certify that the following are the results of analyses made by us upon the herein described drill core samples 74-2-3

MARKED	%ZN TOT.	%ZN SOL.								
14034	1.51	0.91								
14035	5.76	4.32								
14036	18.00	2.08								
14037	1.41	0.80								
14038	15.20	2.92								
14039	27.20	1.80								
14040	25.20	3.76								
14041	43.60	0.60								
14042	21.60	0.24								
14043	13.20	1.76								
14044	1.72	1.28								
14045	19.36	16.40								
14046	18.24	7.80								
14047	30.00	1.09								

APPENDIX "E" (Part A)

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged

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Certificate of Analysis

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TO Page 3.

REPORT NO. A-44-41

DATE 29-7-74

PROJECT BAF-602

I hereby certify that the following are the results of analyses made by us upon the herein described drill core samples

MARKED	% Zn TOT	% Zn SOL								
14048	40.40	0.27								
14049	34.00	0.54								
14050	2.72	1.84								
14051	0.28	0.14								

APPENDIX "E" (Part A)

NOTE:
Rejects retained two weeks
Pulps retained three months

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Certificate of Analysis

TO J. W Stollery
Cord. Eng Ltd.
1418 - 355 Burrard St.
Vancouver, B. C.

REPORT NO. A-44-57
DATE 31-7-74

I hereby certify that the following are the results of analyses made by us upon the herein described Drill Core samples 74-2 & 4

MARKED	ZN % Tot	ZN % Sol								
14069	0.15	0.12								
14070	0.09	0.07								
14071	0.10	0.08								
14072	0.76	0.72								
14073	4.96	4.72								
14074	4.92	4.16								
14075	0.36	0.35								
14076	24.40	22.40								
14077	2.72	2.68								
14078	1.20	1.12								
14079	6.88	6.32								

APPENDIX "E" (Part A)

NOTE:
Rejects retained two weeks
Pulps retained three months

BONDAR-CLEGG & COMPANY LTD.
(R. A. Pettitt) Chief Chemist

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

Certificate of Analysis

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TO J.W. Stollery
Cordilleran Eng. Ltd.
1418-355 Burrard St. Van BC.

REPORT NO. A 44-44
DATE 29-7-74
PROJECT - BAF-GOZ

I hereby certify that the following are the results of analyses made by us upon the herein described drill core samples 74-4, 5

MARKED	% Zn TOTAL	% Zn SOLUBLE
14052	2.40	1.39
14053	4.05	1.10
14054	2.24	1.80
14055	32.00	7.60
14056	45.28	1.10
14057	44.32	0.74
14058	37.36	0.39
14059	14.00	2.00
14060	39.04	0.61
14061	22.00	0.13
14062	35.44	0.20
14063	31.52	0.15
14064	2.20	0.70

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APPENDIX "E" (Part A)

NOTE:
Rejects retained two weeks
Pulps retained three months

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Certificate of Analysis

TO Page 2

REPORT NO. A-44-44

DATE 29-7-74

PROJECT BAF-GOZ

I hereby certify that the following are the results of analyses made by us upon the herein described drill core samples 74-5

MARKED	% Zn TOT	% Zn SOL								
14065	7.68	1.66								
14066	30.32	0.92								
14067	3.60	1.94								
14068	16.00	8.90								

APPENDIX "E" (Part A)

vii

NOTE:
Rejects retained two weeks
Pulps retained three months

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DD #5
DDH - 6

Certificate of Analysis

TO J. W. Stollery.
Cordilleran Engineering Ltd.

REPORT NO. A-44-62

DATE 7-8-74

I hereby certify that the following are the results of analyses made by us upon the herein described drill core samples

MARKED		% Zn TOTAL	% Zn Sol.	% Zn m (s)	ASSAY INTERVAL	FOOTAGE
DDH #5	14080	1.68	0.90	0.78	20-56	30'
	14081	0.75	0.49	0.26	50-69	19'
	14082	1.28	0.80	0.48	69-91	22'
	14083	3.32	2.90	0.42	91-115	24'
	14084	8.44	7.06	1.38	115-136	21'
	14085	4.80	3.96	0.84	136-149	13'
	14086	3.40	2.08	1.32	182-203	21'
	14087	0.98	0.92	0.06	203-223	20'
DDH #6	14088	3.56	3.23	0.33	14-40	26'
	14089	9.20	7.52	1.68	40-64	24'
	14090	3.12	2.90	0.22	64-77	13'
	14091	9.20	7.56	1.64	77-96	19'
	14092	7.80	3.30	4.50	96-118	22'
	14093	8.40	3.60	4.80	118-128	10'

NOTE:
Rejects retained two weeks
Pulps retained three months

BONDAR-CLEGG & COMPANY LTD.

APPENDIX "E" (Part A)

BONDAR-CLEGG & COMPANY LTD.
764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

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Certificate of Analysis

TO Mr. J. W. Stollery
1418-355 Burrard St.
Van. BC.

REPORT NO. A-44-87
DATE 14-8-74
BAF-60Z.

I hereby certify that the following are the results of analyses made by us upon the herein described core samples 74-6.

MARKED	% Zn T	% Zn S.								
14092	7.90	3.20								
14093	8.56	3.45								

These are re-assays from report A44-62

APPENDIX "E" (Part A)

NOTE:
Rejects retained two weeks
Pulps retained three months

BONDAR-CLEGG & COMPANY LTD.

ix

To: _____

PAGE No. ONE

REPORT No. A44-6

DATE: September 9, 1974

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BONDAR-CLEGG & COMPANY LTD.

CERTIFICATE OF ASSAY

I hereby certify that the following are the results of assays made by us upon the herein described Rock Co2 74-7 samples.

MARKED	GOLD		SILVER	Zn Tot.	Zn Sol	Sb	Pb				TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
14094				0.52	0.52						
14095				1.80	1.76						
14096				1.88	1.40						
14097				26.00	2.92	0.08	0.20				
14098				24.80	0.42	0.28	0.76				
14099				2.40	0.83						
14100				2.00	1.48						
14101				1.88	1.48						

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appendix "E" (Part A)

XXXX

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764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

Certificate of Analysis

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AUG 19 1974

TO Mr. J. W. Stollery
1418 - 355 (Cord. Eng)
Burrard St.
Van.

REPORT NO. A-44-75
DATE 14-8-74
PROJECT: BAF-607

I hereby certify that the following are the results of analyses made by us upon the herein described Core samples 74-9

MARKED	% Zn TOT	% Zn SOL								
14102	0.64	0.37								
14103	0.82	0.70								
14104	0.80	0.38								
14105	3.28	0.23								
14106	0.69	0.06								
14107	2.92	0.13								
14108	0.51	0.10								
14109	2.00	0.10								
14110	0.11	0.04								

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APPENDIX "E" (Part IV)

NOTE:
Rejects retained two weeks
Pulps retained three months

BONDAR-CLEGG & COMPANY LTD.

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

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AUG 19 1974

Certificate of Analysis

TO Mr. J. W. Stollery
1418-355 Burrard St.
Vancouver BC.

REPORT NO. A44-78
DATE 14-8-74
PROJECT - BAF-GOZ.

I hereby certify that the following are the results of analyses made by us upon the herein described ..... Core ..... samples

74-10

MARKED	%ZN TOT	%ZN SOL								
14111	0.63	~~0.04~~	0.40							
14112	1.84	1.20								
14113	0.21	0.17								
14114	0.39	0.34								
14115	0.49	0.45								
14116	0.28	0.26								
14117	0.94	0.21								
14118	0.09	0.08								

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APPENDIX "E" (Part A)

NOTE:
Rejects retained two weeks
Pulps retained three months

BONDAR-CLEGG & COMPANY LTD.

.....

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

Certificate of Analysis

TO Cordilleran Engineering Limited
1418 - 355 Burrard St.
Vancouver, B.C.

RECEIVED AUG 30 1974

REPORT NO. A 44-88
DATE August 27, 1974

I hereby certify that the following are the results of analyses made by us upon the herein described ....drill core.... samples -DDH 74-11

MARKED	Zn Tot. %	Zn Sol. %								
14119	0.05	0.04								
14120	0.06	0.04								
14121	0.06	0.04								
14122	0.06	0.05								
14123	0.06	0.05								
14124	0.07	0.06								
14125	0.11	0.08								
14126	0.10	0.07								
14127	0.08	0.06								
14128	5.72	5.36								
14129	2.00	0.90								
14130	3.84	3.56								
14131	0.24	0.23								
14132	2.72	2.32								
14133	0.87	0.80								
14134	0.37	0.37								
14135	0.15	0.14								
14136	0.05	0.03								
14137	0.09	0.05								
14138	0.07	0.06								

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APPENDIX "A" (Part A)

NOTE:
Rejects retained two weeks
Pulps retained three months

BONDAR-CLEGG & COMPANY LTD.

.....

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

Certificate of Analysis

TO Same as page #1

RECEIVED AUG 30 1974

REPORT NO. A 44-88

DATE August 27, 1974

I hereby certify that the following are the results of analyses made by us upon the herein described Drill Core samples

MARKED	Zn Tot. %	Zn Sol. %
14139	0.21	0.18
14140	0.18	0.17
14141	1.36	1.00
14142	0.38	0.27
14143	0.74	0.23
14144	2.20	2.04
14145	6.56	4.76
14146	1.46	1.24
14147	5.40	0.80
14148	2.48	1.12
14149	0.64	0.59
14150	1.64	1.15
14151	12.96	2.40
14152	3.80	3.28
14153	10.08	1.60
14154	11.48	1.20
14155	2.20	2.00
14156	1.24	0.58
14157	0.68	0.56
14158	0.31	0.28

BONDAR-CLEGG & COMPANY LTD.

NOTE:
Rejects retained two weeks
Pulps retained three months

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

Certificate of Analysis

TO Cordilleran Engineering Ltd.

RECEIVED AUG 30 1974

REPORT NO. A 44-88

DATE August 27, 1974

I hereby certify that the following are the results of analyses made by us upon the herein described Drill Core samples

MARKED	Zn Tot. %	Zn Sol. %
14159	2.12	0.43
14160	2.00	0.35
14161	0.37	0.29
14162	0.27	0.20
14163	1.54	1.54
14164	0.72	0.65
14165	0.83	0.83
14166	2.80	2.68
14167	5.52	4.64
14168	4.10	1.32
14169	8.24	0.62
14170	18.80	1.15
14171	28.00	0.19
14172	19.60	0.14
14173	14.64	0.15
14174	28.15	1.08
14175	0.67	0.20
14176	0.67	0.09
14177	0.15	0.05

BONDAR-CLEGG & COMPANY LTD.

NOTE:
Rejects retained two weeks
Pulps retained three months

To: _____

PAGE No. One

REPORT No A 44 06

DATE: September 11, 1974

BONDAR-CLEGG & COMPANY LTD.

CERTIFICATE OF ASSAY

Cordilleran Engineering Limited
1418 - 355 Burrard St.
Vancouver, B.C.

SEP 12 1974

I hereby certify that the following are the results of assays made by us upon the herein described Core Goz samples.

MARKED	GOLD		SILVER	Zn Tot.	Zn Sol.						TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
14178				0.19	0.17						
14179				0.13	0.12						
14180				0.71	0.11						
14181				0.39	0.07						
14182				3.56	0.62						
14183	74-1			0.53	0.19						
14184				0.13	0.11						
14185				0.80	0.08						
14186				0.19	0.07						
14187				0.41	0.32						
14188				1.68	0.19						
14189				4.72	2.40						
14190				1.36	0.35						
14191				0.62	0.22						
14192				0.77	0.67						
14193	74-4			1.92	0.94						
14194				0.27	0.22						
14195				0.31	0.14						
14196				2.92	0.19						
14197				0.20	0.08						
14198				0.37	0.29						
14199				1.36	0.10						
14200				1.04	1.04						
14201				0.65	0.61						
14202	74-5			0.32	0.32						
14203				0.22	0.22						
14204				0.26	0.10						
14205				0.74	0.73						

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
R. A. Pittuck Chief Chemist

To: _____

PAGE No. ~~XXXX~~Two

REPORT No A 4 06

DATE: September 11, 1974

BONDAR-CLEGG & COMPANY LTD.

CERTIFICATE OF ASSAY

I hereby certify that the following are the results of assays made by us upon the herein described Core samples.

MARKED	GOLD		SILVER	Zn Tot.	Zn Sol.					TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
14206				0.58	0.31					
14207				0.61	0.27					
14208				0.15	0.09					
14209		74-5		0.06	0.05					
14210				0.07	0.07					
14211				0.74	0.02					
14212				1.60	1.00					
14213				3.60	2.04					
14214				0.57	0.51					
14215				0.64	0.56					
14216				0.51	0.41					
14217				0.06	0.06					
14218				0.35	0.31					
14219				0.14	0.08					
14220		74-6		0.92	0.92					
14221				1.80	1.80					
14222				0.45	0.42					
14223				0.23	0.22					
14224				0.16	0.14					
14225		74-7		0.17	0.15					
14226				0.09	0.09					

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Registered Assayer, Province of British Columbia XX
R. A. Pittuck Chief Chemist

APPENDIX "E" xvii
(Part A)

To: _____

PAGE No. One

REPORT No. A 4 109

DATE: September 11, 1974

Cordilleran Engineering Limited
1418 - 355 Burrard St.
Vancouver, B.C.

BONDAR-CLEGG & COMPANY LTD.

CERTIFICATE OF ASSAY

RECEIVED
SEP 16 1974

I hereby certify that the following are the results of assays made by us upon the herein described Core Coz 74-12 - samples.

MARKED	GOLD		SILVER	Tot. Zn	Sol. Zn						TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
14235				0.08	0.06						
14236				0.06	0.06						
14237				0.06	0.04						
14238				0.08	0.08						
14239				0.15	0.13						
14240				2.40	2.30						
14241				1.48	1.22						
14242				0.10	0.08						
14243				0.04	0.03						
14244				0.05	0.05						
14245				0.04	0.03						
14246				2.76	1.26						
14247				0.25	0.19						
14248				0.77	0.19						
14249				0.47	0.11						
14250				2.80	1.72						
14251				2.08	0.32						
14252				0.34	0.08						
14253				1.32	0.24						
14254				0.66	0.19						
14255				0.06	0.02						
14256				0.05	0.02						
14257				0.02	0.02						
14258				0.04	0.01						

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
R. A. Pittuck Chief Chemist

To: Cor leran Engineering Ltd.

PAGE No. 1

REPORT No A24 689

DATE: Sept. 18, 1974

BONDAR-CLEGG & COMPANY LTD.

CERTIFICATE OF ASSAY

1418 - 355 Burrard Street
Vancouver, B.C.
Attention: Mr. J. W. Stollery

Samples submitted: Sept. 9, 1974
Results completed: Sept. 18, 1974

Project No. BAF - GOZ

I hereby certify that the following are the results of assays made by us upon the herein described ore samples.

SEP 20 1974

MARKED	GOLD		SILVER	Total Zn	Non-Sulfide Zn						TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
14227	74 - 5			0.28	0.13						
14228				0.34	0.09						
14229				0.28	0.10						
14230				0.19	0.08						
14231				0.06	0.04						
14232				0.07	0.02						
14233				0.03	0.02						
14234				0.03	0.01						
14259	74 - 13			0.04	0.03						
14260				0.04	0.03						
14261				0.04	0.03						
14262				0.03	0.02						
14263				0.02	0.02						
14264				0.02	0.01						
14265				0.04	0.02						
14266				0.02	0.01						
14267				0.02	0.01						
14268				0.02	0.01						
14269				0.17	0.02						
14270				0.03	0.01						
14271				0.02	0.01						

cc. Mr. O. S. Hairsine

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Registered Assayer, Province of British Columbia

APPENDIX "E" (Part A)

xix

To: Cor 'leran Engineering Ltd.

PAGE No. 1

REPORT No ____ 4 - 697

DATE: Sept. 25, 1974

BONDAR-CLEGG & COMPANY LTD.

CERTIFICATE OF ASSAY

1418 - 355 Burrard Street
Vancouver, B. C.
Attn: Mr. J. Stollery

Samples submitted: Sept. 11, 1974
Results completed: Sept. 25, 1974

PROJECT: BAF-GOZ - 74-14

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	GOLD		SILVER	Total Zn	Non-sulphide Zn	Sb	Pb				TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
14272				0.07	0.06	-	-				
14273				0.36	0.35	-	-				
14274				0.24	0.23	-	-				
14275				1.95	1.75	-	-				
14276				0.90	0.80	-	-				
14277				2.75	2.70	-	-				
14278				4.50	4.45	-	-				
14279				5.60	5.30	-	-				
14280				5.40	4.40	-	-				
14281				3.35	0.38	0.17	0.55				
14282				10.95	0.15	1.05	2.50				
14283				8.85	0.75	0.53	1.55				
14284				16.05	2.60	0.17	0.50				
14285				25.20	1.45	0.80	1.85				
14286				38.60	2.45	0.22	0.70				
14287				12.80	0.50	0.37	1.00				
14288				10.05	0.36	0.15	0.35				
14289				15.00	0.50	0.18	0.45				
14290				1.30	0.70	-	-				
14291				3.80	3.65	-	-				
14292				0.75	0.45	-	-				
14293				0.15	0.11	-	-				
14294				1.55	0.95	-	-				
14295				0.30	0.11	-	-				
14296				0.08	0.05	-	-				
14297				0.75	0.07	-	-				

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APPENDIX "B" (Part)

Registered Assayer, Province of British Columbia

XX

To: Col lleran Engineering Ltd.

REPORT No ____ - 697

PAGE No. 2

BONDAR-CLEGG & COMPANY LTD.

DATE: Sept. 25, 1974

CERTIFICATE OF ASSAY

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	GOLD		SILVER	Total Zn	Non-sulphide Zn						TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
14298				0.48	0.21						
14299				0.23	0.09						
14300				0.41	0.40						
14301				0.59	0.27						
14302				1.95	0.26						
14303				0.66	0.07						
14304				3.80	0.06						
14305				1.60	0.04						
14306				0.41	0.04						
14307				2.95	0.07						
14308				0.49	0.10						
14309				0.33	0.06						
14310				0.90	0.10						
14311				0.17	0.06						
14312				0.20	0.03						
14313				14.10	0.16						
14314				0.39	0.04						
14315				1.00	0.04						
14316				0.90	0.04						
14317				0.11	0.02						
14318				13.05	0.07						
14319				0.24	0.03						
14320				0.10	0.02						
14321				1.00	0.03						
14322				0.39	0.02						
14323				0.03	0.01						

cc Mr. O. Hairsine

Registered Assayer, Province of British Columbia

APPENDIX "E" (Part A) xxi

BONDAR-CLEGG & COMPANY LTD.
1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

RECEIVED
SEP 27 1974

Certificate of Analysis

TO Cordilleran Engineering Ltd.
1418 - 355 Burrard Street
Vancouver, B. C.

Report No: A24 - 726
Sept. 27/74
PROJECT: BAF-GOZ

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

74-11
74-12

MARKED	PERCENT Zn Total	PERCENT Zn*	MARKED	PERCENT Zn Total	PERCENT Zn*	MARKED	PERCENT	PERCENT
14324	1.60	0.21	14342	0.07	0.04			
14325	0.08	0.05	14343	0.03	0.02			
14326	0.44	0.07	14344	0.09	0.02			
14327	0.24	0.06	14345	0.34	0.02			
14328	0.68	0.10	14346	0.03	0.02			
14329	0.16	0.07	14347	0.04	0.02			
14330	0.17	0.11	14348	0.03	0.02			
14331	0.88	0.10	14349	0.02	0.01			
14332	0.15	0.03	14350	0.18	0.02			
14333	1.40	0.07	14351	4.30	0.06			
14334	0.42	0.19	14352	0.08	0.01			
14335	2.15	0.73	14353	0.82	0.03			
14336	0.63	0.45	14354	0.60	0.02			
14337	0.15	0.05	14355	0.09	0.02			
14338	0.09	0.05	14356	0.04	0.02			
14339	0.09	0.05	14357	0.08	0.01			
14340	0.29	0.23	14358	0.53	0.03			
14341	0.11	0.10	14359	0.06	0.02			

*nonsulphide
cc Mr. O. Hairsine

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BONDAR-CLEGG & COMPANY LTD.
REGISTERED ASSAYER, PROVINCE OF B.C.

NOTE:
Rejects retained two weeks
Pulps retained three months

To: Cord. Geran Engineering Ltd.

REPORT No A -733

PAGE No. 1

DATE: Sept. 27, 1974

BONDAR-CLEGG & COMPANY LTD.

1418 - 355 Burrard Street
Vancouver, B. C.

RECEIVED
SEP 27 1974

CERTIFICATE OF ASSAY

Samples submitted: Sept. 20, 1974
Results completed: Sept. 27, 1974

PROJECT: BAF-GOZ

74-15-16-

Attn: Mr. J. Stollery

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	GOLD		SILVER	Total Zn	Zn*	Pb	Sb				TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
14360				0.20	0.16	-	-				
14361				0.10	0.08	-	-				
14362				0.68	0.41	-	-				
14363				0.17	0.14	-	-				
14364				0.05	0.04	-	-				
14365				0.07	0.06	-	-				
14366				0.71	0.09	0.05	0.01				
14367				0.10	0.04	L0.05	0.01				
14368				0.29	0.05	-	-				
14369				0.04	0.03	-	-				
14370				0.19	0.15	-	-				
14371				1.35	0.57	-	-				
14372				0.25	0.20	-	-				
14373				0.06	0.05	-	-				
14374				0.05	0.04	-	-				
14375				0.08	0.05	-	-				
14376				1.25	0.22	-	-				
14377				0.46	0.10	-	-				
14378				1.00	0.36	-	-				
14379				3.05	0.39	-	-				
14380				3.95	0.84	-	-				
14381				0.41	0.22	-	-				
14382				0.34	0.20	-	-				
14383				0.14	0.05	-	-				
14384				0.80	0.53	-	-				
14385				0.18	0.15	-	-				

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Registered Assayer, Province of British Columbia

To: Cor[illegible]leran Engineering Ltd.

PAGE No. 2

REPORT No A. - 733

DATE: Sept. 27/74

BONDAR-CLEGG & COMPANY LTD.

CERTIFICATE OF ASSAY

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	GOLD		SILVER	Total Zn	Zn*						TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
14386				3.10	0.75						
14387				0.59	0.49						
14388				4.25	0.74						
14389				2.05	0.73						
14390				0.66	0.28						
14391				0.42	0.20						
14392				0.55	0.33						
14393				0.53	0.15						
14394				0.19	0.04						
14395				0.19	0.06						
14396				2.95	0.06						
14397				0.21	0.10						
14398				0.47	0.29						
14399				1.20	0.38						
14400				0.30	0.24						
14401				0.08	0.04						
14402				0.29	0.10						
14403				0.39	0.07						
14404				0.45	0.25						
14405				0.66	0.53						
14406				0.65	0.60						
14407				0.07	0.06						
14408				0.05	0.01						
14409				0.11	0.01						
14410				2.15	0.05						
14411				0.55	0.03						

Registered Assayer, Province of British Columbia

APPENDIX "E" (Part A)

To: Cor leran Engineering Ltd.

REPORT No A: - 733

PAGE No. 3

DATE: Sept. 27/74

BONDAR-CLEGG & COMPANY LTD.

CERTIFICATE OF ASSAY

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	GOLD		SILVER	Total Zn	Zn*						TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
14412				0.13	0.02						
14413				0.04	0.01						
14414				0.29	0.01						
14415				0.25	0.01						
14416				0.15	0.01						
14417				2.20	0.04						
14418				2.50	0.06						
14419				2.05	0.04						
14420				0.08	0.02						
14421				1.20	0.03						
14422				0.07	0.01						
14458				0.11	0.08						
14459				0.03	0.01						
14460				0.02	0.01						

cc Mr. O. Hairsine
L denotes 'less than'

Registered Assayer, Province of British Columbia

APPENDIX "E" (Part A)

BONDAR-CLEGG & COMPANY LTD.
1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0881 TELEX: 04-54554

Certificate of Analysis

RECEIVED OCT 9 1974

TO Cordilleran Engineering Ltd.
1418 - 355 Burrard Street
Vancouver, B. C.

Report No: A24 - 769
October 8, 1974
PROJECT: BAF-GOZ

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

74 - 17, 18, 19, 20

MARKED	PERCENT Zn	PERCENT Zn*	MARKED	PERCENT Zn	PERCENT Zn*	MARKED	PERCENT Zn	PERCENT Zn*
14423	0.31	0.26	14441	2.45	2.40	14462	0.40	0.38
14424	0.08	0.07	14442	0.48	0.45	14463	0.10	0.10
14425	0.55	0.38	14443	0.29	0.28	14464	0.48	0.47
14426	1.20	0.36	14444	0.06	0.05	14465	0.06	0.06
14427	0.09	0.06	14445	0.05	0.05	14466	0.30	0.29
14428	1.55	0.08	14446	0.04	0.04	14467	0.08	0.07
14429	0.04	0.03	14447	0.43	0.39	14468	0.24	0.22
14430	0.07	0.05	14448	2.70	2.60	14469	0.07	0.07
14431	0.33	0.04	14449	0.09	0.08	14470	0.37	0.25
14432	0.19	0.03	14450	0.04	0.04	14471	0.07	0.07
14433	2.25	0.10	14451	0.08	0.07	14472	0.05	0.03
14434	1.05	0.06	14452	0.20	0.20	14473	0.03	0.02
14435	1.60	0.05	14453	0.05	0.05	14474	0.08	0.05
14436	1.90	0.05	14454	4.40	2.95	14475	2.00	0.16
14437	0.41	0.04	14455	2.25	1.65	14476	0.07	0.02
14438	0.18	0.03	14456	1.55	0.54	14477	3.90	0.56
14439	0.25	0.08	14457	3.70	1.12	14478	0.08	0.02
14440	0.03	0.02	14461	1.90	1.80	14479	2.80	0.22

NOTE:
Rejects retained two weeks
Pulps retained three months

BONDAR-CLEGG & COMPANY LTD.
REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA

BONDAR-CLEGG & COMPANY LTD.
1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Certificate of Analysis

TO Cordilleran Engineering Ltd.

Report No: A24 - 769

October 8, 1974

PROJECT: BAF-GOZ PAGE 2

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	PERCENT Zn	PERCENT Zn*	MARKED	PERCENT Zn	PERCENT Zn*	MARKED	PERCENT Zn	PERCENT Zn*
14480	0.12	0.02	14499	0.07	0.05	14518	3.45	0.27
14481	0.37	0.07	14500	0.91	0.72	14519	0.85	0.07
14482	0.40	0.03	14501	0.07	0.06	14520	0.39	0.08
14483	0.11	0.02	14502	0.10	0.08	14521	2.35	0.81
14484	0.71	0.05	14503	4.00	1.00	14522	0.33	0.22
14485	0.04	0.02	14504	0.36	0.22	14523	0.58	0.30
14486	1.20	1.15	14505	0.20	0.13	14524	0.20	0.13
14487	0.24	0.22	14506	0.62	0.48	14525	1.80	0.31
14488	0.10	0.08	14507	0.05	0.04	14526	0.12	0.08
14489	0.07	0.06	14508	0.26	0.25	14527	0.04	0.04
14490	0.05	0.05	14509	0.24	0.20	14528	0.21	0.08
14491	0.07	0.06	14510	1.40	0.96	14529	2.40	0.15
14492	0.05	0.05	14511	0.89	0.59	14530	0.59	0.08
14493	0.07	0.06	14512	18.30	1.55	14531	0.12	0.02
14494	0.09	0.07	14513	18.40	1.50	14532	0.74	0.09
14495	0.19	0.15	14514	1.60	0.19	14533	1.60	0.16
14496	0.14	0.12	14515	0.10	0.04	14534	0.65	0.07
14497	0.06	0.05	14516	5.90	0.25	14535	0.04	0.02
14498	0.05	0.04	14517	0.69	0.13	14536	0.72	0.29

NOTE:
Rejects retained two weeks
Pulps retained three months

BONDAR-CLEGG & COMPANY LTD.
REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA

BONDAR-CLEGG & COMPANY LTD.
1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Certificate of Analysis

TO Cordilleran Engineering Ltd.

Report No: A24 - 769

October 8, 1974

PROJECT: BAF-GOZ PAGE 3

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	PERCENT Zn	PERCENT Zn*	MARKED	PERCENT	PERCENT	MARKED	PERCENT	PERCENT
14537	0.06	0.02						
14538	0.10	0.02						

cc Mr. O. Hairsine
*nonsulphide Zn

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REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA

Rejects retained two weeks
Pulps retained three months



FLAN SHOWING CONTROL MONUMENTS, GEOLOGICAL STATIONS AND MINERAL CLAIMS FOR

CORDILLERAN ENGINEERING LTD.
BARRIER REEF RESOURCES LTD.

GOZ CREEK PROJECT

64° 50' LATITUDE ; 132° 30' LONGITUDE (APPROX)

YUKON TERRITORY

MAP SHEET 106 C-7 AND 106 C-8

JUNE, 1974

SCALE 1" = 400'

COORDINATE TABLE

STATION	NORTHINGS	EASTINGS	ELEVATIONS
DIAMOND DRILL HOLES			
DDH 1	157,464.2	77,843.2	4665.1
DDH 2	157,952.4	77,781.8	4664.7
DDH 3	158,339.7	77,735.5	4643.3
DDH 4	157,795.6	77,909.3	4657.8
DDH 5	157,709.6	77,962.1	4652.4
DDH 6	157,693.2	78,345.3	4563.7
DDH 7	157,689.6	78,539.3	4565.0
DDH 8	157,781.6	78,502.3	4537.3
DDH 9	157,803.4	78,169.8	4624.1
DDH 10	157,845.9	78,256.2	4602.9
DDH 11	157,821.8	77,752.2	4679.1
DDH 12	157,820.0	77,747.8	4680.0
DDH 13	157,775.6	77,865.9	4677.8
DDH 14	157,588.9	78,364.4	4655.6
DDH 15	157,584.1	78,356.1	4538.3
DDH 16	157,493.2	78,400.4	4538.1
DDH 17	157,490.2	78,393.8	4540.0
DDH 18	158,250.9	77,498.0	4611.2
DDH 19	158,247.7	77,490.9	4613.4
CLAIM POSTS			
CP 100	157,427.0	78,565.6	4625.1
CP 101	158,028.3	75,740.9	4927.3
CP 102	159,490.3	73,997.6	5180.2
CP 103	157,442.4	66,178.9	6065.3
CP 104	156,808.9	71,479.1	5006.1
CP 105	159,872.3	75,464.8	3892.0
CP 106	154,430.0	78,739.5	3470.6
CP 107	153,821.6	78,150.7	3396.1
CP 108	159,265.5	72,780.6	3571.4
CP 109	156,996.7	77,982.5	4427.1
CP 110	156,180.8	78,180.5	3771.9
CP 111	153,809.6	71,497.7	3735.9
CP 112	154,477.1	70,264.2	4396.9
CP 113	154,502.8	75,552.2	3863.6
CP 114	153,972.2	74,741.1	3526.3
CP 115	153,122.2	76,263.3	3478.9
CP 116	152,618.1	77,616.3	3751.1
CP 117	151,783.2	80,460.3	3448.8
CP 118	156,239.3	72,903.0	4393.3
CP 119	152,569.2	74,127.0	3833.3
CONTROL STATIONS			
(TOTAL MOST)	157,196.5	76,047.4	4085.4
WM 1	163,204	93,254.0	5809.4
WM 2	159,836.8	95,890.2	5239.1
WM 3	144,211.3	95,017.5	4332.1
WM 4	149,981.2	75,282.7	3753.7
WM 5	142,152.0	73,161.3	4385.7
WM 6	138,615.5	56,151.8	3870.0
WM 7	162,386.0	69,522.2	3830.0
WM 8	159,660	54,213.0	3604.1
WM 9	157,068.1	76,971.0	4091.6
WM 10	156,935.6	71,894.7	5148.7
WM 11	157,443.8	68,098.0	5010.0
WM 12	157,615.1	89,644.9	4278.6
GEOLOGICAL STATIONS			
1	157,051.1	77,844.9	4673.8
2	158,329.6	77,757.8	4670.0
3	158,156.6	77,848.1	4673.9
4	158,093.3	77,945.1	4672.3
5	158,000.2	78,049.8	4674.3
6	158,131.4	78,027.5	4736.6
7	157,530.6	78,150.7	4698.0
8	157,412.2	78,281.5	4661.7
9	157,367.6	78,076.2	4597.1
10	157,787.5	77,987.5	4672.4
11	158,137.8	76,135.9	4822.7
12	158,278.2	76,477.5	4866.4
13	157,765.1	76,053.8	4894.7
14	158,130.0	76,187.4	5085.7
15	158,593.4	75,364.5	5185.1
16	158,798.2	75,277.0	5177.6
17	158,978.2	74,939.0	5077.8
18	157,764.5	74,834.1	4923.6
19	157,647.0	74,700.5	4875.4
20	156,971.7	74,462.1	4659.9
21	157,494.1	75,148.4	4876.5
22	157,419.3	75,453.8	4934.3
23	157,137.4	76,086.8	4850.2
24	157,097.7	76,720.9	4852.8
25	157,592.3	77,169.1	4934.8
26	157,151.1	77,653.0	4936.5
27	156,375.6	77,385.4	4804.8
28	156,684.2	77,983.1	4948.1
29	156,681.2	78,357.4	4986.6
30	156,247.7	78,802.8	4819.0
31	155,372.6	79,223.8	4796.8
32	155,986.2	78,840.4	3528.8
33	153,972.8	71,809.5	3736.4
34	155,714.3	76,897.6	3823.3
35	157,403.0	79,230.1	4440.6
36	156,996.6	82,768.8	3460.9
37	156,830.6	78,278.1	4058.4

DDH - 1-5, 9-13, 18-20 } DUO 4 - 4,669 ft.

C-8, M-17 } DUO 2 - 1,972 ft.

6,639 ft.

white, mostyn & impey ltd.
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whitehorse, Yukon