



COSTS AND
 DIAMOND DRILL LOGS
 FOR
 HOLES 80 B-2
 80 B-3

BAR CLAIM GROUPS

YA 27	BAR 2	YA 26	BAR 1
YA 29	BAR 4	YA 28	BAR 3
YA 30-33	BAR 5-8	YA 917-922	BAR 13-18
YA 913-916	BAR 9-12		
YA 923,924	BAR 19,20		

WATSON LAKE MINING DISTRICT
 MAP SHEETS 105C/8,9

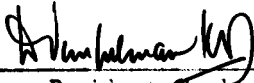
OPERATOR: D.C. SYNDICATE

JULY 6, 1980

090651

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work for the amount of

\$ 9200.00



Resident Geologist or
Resident Mining Engineer

Considered as representation work under
Section 53 (4) Yukon Quartz Mining Act.



B. R. BAXTER
Supervising Mining Recorder

Commissioner of Yukon Territory

TABLE OF CONTENTS

	<u>PAGE</u>
COST OF DIAMOND DRILL PROGRAM	1
COPIES OF INVOICES FOR DRILLING	2
DIAMOND DRILL LOGS	5
VERTICAL SECTION 20+00W DRILL HOLE B-2	FOLLOWING PAGE 11
VERTICAL SECTION 20+00W DRILL HOLE B-3	FOLLOWING PAGE 11
TOPOGRAPHIC MAP 1"-50' SHOWING LOCATION OF DRILL HOLES	IN POCKET OF REPORT
FIGURE 1 LOCATION MAP 1:250,000	FOLLOWING PAGE 4
FIGURE 2 GRID LOCATION 1"- $\frac{1}{2}$ mile	FOLLOWING PAGE 4

BAR CLAIM GROUP

MAPS 105C/8,9

COST OF DIAMOND DRILL PROGRAM JUNE 1980.

INVOICE	\$22,346.18
INVOICE	\$14,244.37
	<hr/>
TOTAL	\$36,590.55

TOTAL FOOTAGE DRILLED:

80 B-1	348'
B-2	292' #
B-3	287' #
B-4	188' #
	<hr/>
	1115'

FILED FOR ASSESSMENT WORK

TOTAL DRILLING COST PER FOOT $\frac{\$36,590.55}{1115} = \32.816

COST OF DRILL HOLE 80 B-2 292' @ \$32.816 = \$9,582.45

COST OF DRILL HOLE 80 B-3 287' @ \$32.816 = \$9,418.37

ASSAYS ARE NOT INCLUDED IN THE DRILL LOGS SINCE THEY ARE NOT YET AVAILABLE (JULY 6).

J. Stephens

Drilcor Industries Ltd.

18 - 12871 Bathgate Way
 Richmond, British Columbia
 Canada V6V 1Y5

Telephone (604) 273-1878
 Telex 04-357519

July 2/80

8005/1

INVOICE

J.C. Stephen Exploration Ltd.
 1124 W. 15th Street,
 North Vancouver, B.C.
 V7P 1M9

re: diamond drilling - Bar Group

HW-1: Drilling Footage - Wolf River

		<u>BW Casing</u>	<u>BQ Coring</u>	
DDH-1	0-28.5	28.5		
	0-348		348'	
DDH-2	0-38.5	38.5		
	0-292		292'	
DDH-3	0-33.5	33.5		
	0-67		67'	
		<u>100.5</u>	<u>707'</u>	
		@ 12.50	@ 22.50	
		1,256.25	+ 15,907.50	17,163.75

LaborMan Hours

June 4	28		
5	09		
7	27½		
8	75		
9	22		
10	02		
11	06		
12	16		
15	17		
	<u>202.5</u>	@ 17.50/hr.	<u>3,543.75</u>

20,707.50

Additives

8 bags mud @ 11.50	92.00	
1 Alcomber	<u>232.53</u>	<u>324.53</u>
		21,032.03

Invoice: 8005/1

2.

3.

J.C. Stephen Exploration Ltd.
July 2, 1980.

b/f

21,032.03

Mob:

Load Camp Gear to Teslin: 1,169.10 + 10%
Your ½ of Truck Rental: 25.59 + 10%

1,286.01

28.14

\$22,346.18

A handwritten signature in cursive script, appearing to read "J.C. Stephen", is written diagonally across the lower half of the page.

Drilcor Industries Ltd.

18 - 12871 Bathgate Way
Richmond, British Columbia
Canada V6V 1Y5

Telephone (604) 273-1878
Telex 04-357519

INVOICE 8005/2

July 3, 1980.

J.C. Stephen Exploration Ltd.
1124 W. 15th Street,
North Vancouver, B.C.
V7P 1M9

Diam. Drilling Bar Group: June 16-19/80

HW-1 Drilling Footage - Wolf River.

	<u>BW Casing</u>	<u>BQ Coring</u>	
DDH-3		67-287 : 220	
DDH-4	0-23.5	0-188 : 188	
	<u>23.5 @ 12.50 = 293.75</u>	<u>408 @ 22.50</u>	9,180.00
			293.75

Man Hours

June 16	-		
17	41		
18	06		
19	48		
	<u>95 hrs. @ 17.50</u>		1,662.50

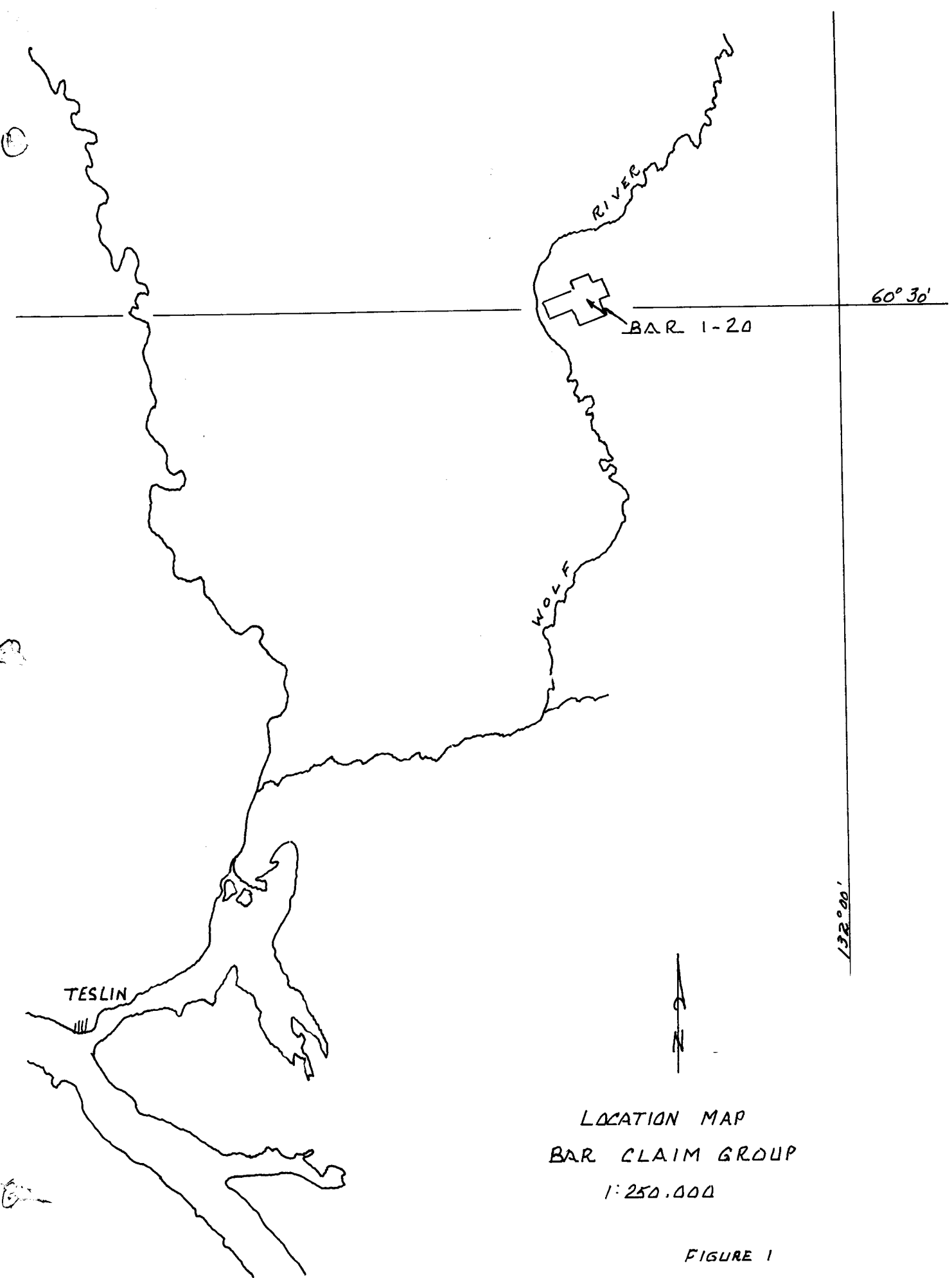
Local pickup & del. to Swift River			
Lumber, plywood & fuel		60.00	
Groc. - del		60.00	
Gas & Groc.		<u>75.00</u>	
		195.00 + 10%	214.50

Materials Consumed

40 Core boxes @ 7.00		280.00	
25 Core box lids @ 2.00		50.00	
30 Groved c/boxes-Watson @ 4.85+15%		167.33	
4 propane @ 21.80		87.20	
3 bentonite @ 11.50		34.50	
1 casing advancer		117.70	
1 casing shoe 12305		171.50	
(above 2 items left in hole)			
Accomm. & meals-Teslin: 666.50+10%		733.15	
Drilcor truck mileage: 800km @ 25		<u>200.00</u>	1,841.38

Cook's Wages: 1900.00x125x13/30 36/89	416.28 + 10%	457.60
Groceries: 4th 1187.95		
13th 148.53		
<u>1336.48x36/89</u>	540.59 + 10%	594.64
		<u>\$14,244.37</u>

OK J.C. Stephen



LOCATION MAP
BAR CLAIM GROUP
1:250,000

FIGURE 1

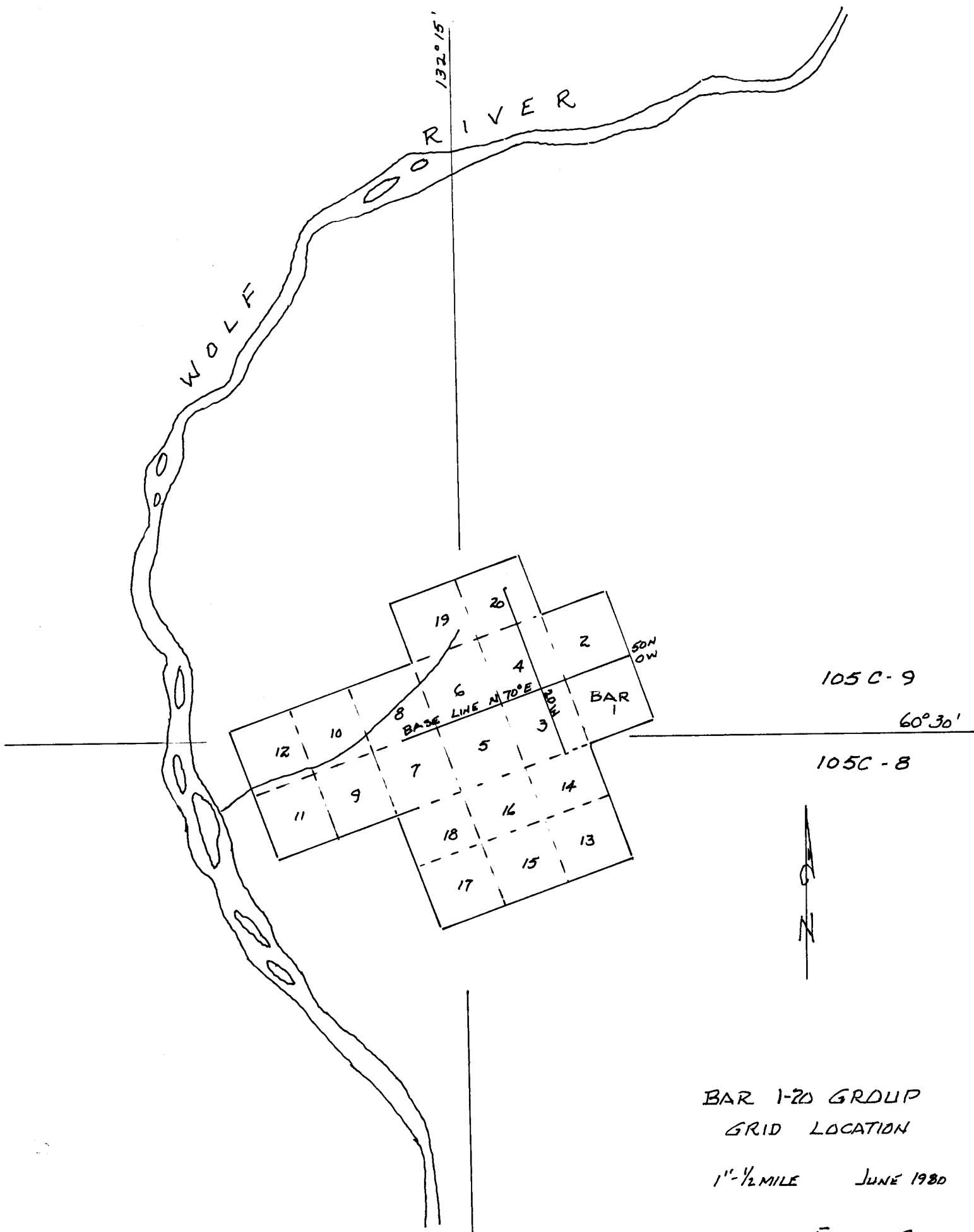


FIGURE 2

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose
Comment

0-6.5 OVERBURDEN
6.5-23.5 OVERBURDEN, ROCK SLABS - CASING
BROKEN FRAGMENTS GREY-GREEN CHERT

33-61 GREY GREEN CHERT, WELL FRACTURED: LIMONITE ON
FRACTURE SURFACES, LEACHED

61-101 GREY GREEN CHERT, WEAKLY LIMONITIZED, MINOR PYRITE
35°-40°
MINOR PYRITE ON WEAK FRACTURES

101-113 FERRUGINOUS CHERT SEAMING BY PYRITE & MINOR BARITE
SOME HEMATITE IN CHERT, MINERALIZATION WEAK, 101-113

113-131.3 CLEAN COLORED FELDSPATHIC LOOKING CORAL CHERT
BIUCIA

GEOLOGY

ob

MINERAL

FRACTURING

ALTERATION

SCALE
1" = 20'



BOX NO.

% CORE
RECOVERED

DRILLING
INTERVAL

Length _____ Contractor DRILLSTAR

Bearing 330° 30' 00" (340°) Core BR Stored _____

Dip -60° Casing _____ Date June 13 - 1980

Lat. 48°N Logged by JCS Location _____

Dep. 20W Elev. 3760 Started _____ Finished _____

O.B. Thickness _____ B.R. Thickness _____

**J.C. STEPHEN
EXPLORATIONS
LTD.**

Hole No. SD-B-3
Project DE-SYNERGIST
Claim BAR-3
Page 1 of _____

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose
Comment

ALTERATION

SCALE
1" = 120'

BOC No.
% CORE
RECOVERED
DR LING
INTERVAL

Pyrite mineralization on fractures - spotty

131.3-159 GREY FINE CHERT BELT - APPEARS VEBLY. CONSIDERABLE
PY MINERALIZATION UP TO 300'

159-231 QUARTZITE - MASSIVE - RELATIVELY FINE GRAINED
VERY MINOR FRACTURING AND Qtz VEINING, DETECTED
AT ABOUT 50° INDISTINCT
166.3-172 PALE GREY GREEN IN COLOR
F1-201.5
205.5-208
PYRITE MINERALIZATION ON FRACTURES AND VEINING
ZONES AT 174, 170, 183 WITH LITTLE BARITE; 187 1/2 - 189 1/2
204-205, 210.5; DETECTED WITH LITTLE FINE VEINING
GREY GREEN Qtzite GENERALLY BLENDED

238-291 FINE GRAINED BETTER BEDDED GREENISH TO GREY
TAIN BEDS AT 40° TO CORE
CHERTY
SEDS

GEOLOGY	MINERAL	FRACTURING
	Py	
	Py	
	Py	
	Py	

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Log _____ Logged by _____ Date _____
 Dev. _____ Location _____
 Elev. _____
 O.H. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____
 Hole No. _____
 Project _____
 Claim _____
 Page 2 of _____

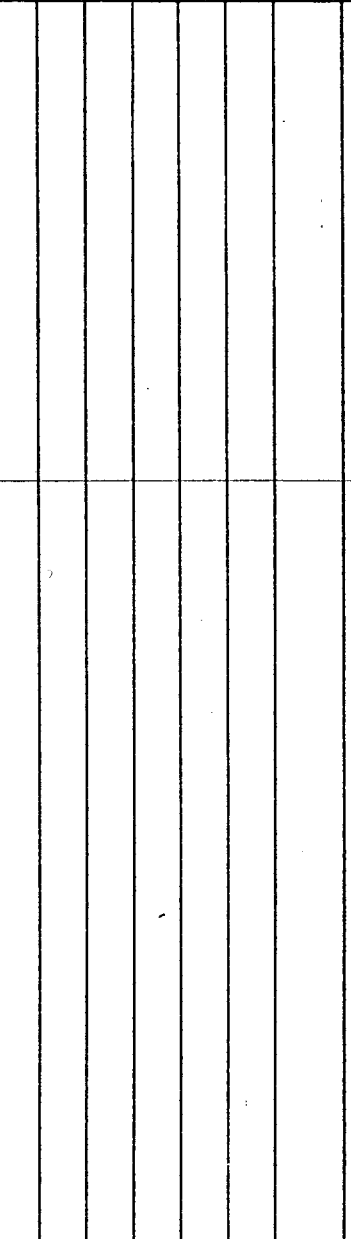
**J.C. STEPHEN
EXPLORATIONS
LTD.**

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose
Comment

281 3" MASSIVE WHITE ~~FLINT~~^{FABRICE} WITH SPALLS
 282 2" 15.5% OF MIN
 283 1" 10% OF MIN
 291 END HOLE

GEOLGY
MINERAL
FRACTURING
ALTERATION



SCALE
1" = _____
240
260
280

BOX No. _____

% CORE
RECOVERED _____

DRILLING
INTERVAL _____

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lot _____ Logged by _____ Date _____
 Dep _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____

J.C. STEPHEN
EXPLORATIONS
LTD.

Hole No. _____
 Project _____
 Claim _____
 Page 3 of _____

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose
Comment

142' GRAY TO GREENISH GREY FINE GRAINED CHERT OR ARGILLACEOUS CHERT, BEDDING AT 35°, FAIRLY MASSIVE - WEAK FRACTURING WITH PYRITE

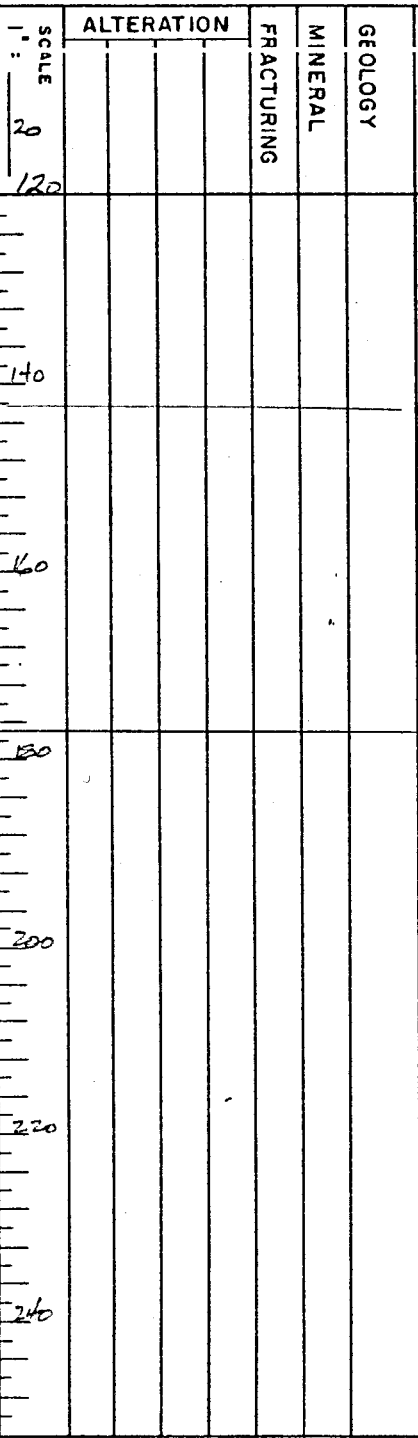
174.5 - 175.6 DARK GREY CHERTY ARGILLITE

177 - 237 DARK GREY ARGILLITE, BEDDING SOMEWHAT VARIABLE 60° AT 180', 45° @ 215' LOCALLY UP TO 75° NEAR 270' OCCASIONAL FRACTURES WITH PYRITE

SECTIONS VARY FROM FINE GRAINED GRITTY ARGILLITE TO IRREGULARLY THIN BEDDED TO MASSIVE.

241 - 249 NARROW SILT STONE CORE VEINING AT 15° TO CORE

287' END LOG



SCALE 1" = 20'

BOC No. _____

% CORE RECOVERED _____

DRLING INTERVAL _____

Length _____	Contractor _____
Bearing _____	Core _____
Dip _____	Casing _____
Log _____	Logged by _____
Dep. _____	Location _____
Elev. _____	Date _____
O.B. Thickness _____	Started _____
B.R. Thickness _____	Finished _____

J.C. STEPHEN
EXPLORATIONS
LTD.

Hole No. 80 B-3

Project _____

Claim _____

Page _____ of _____

From	To	Width	Recovery		Sample	Assays								
			ft./lbs.	%		Zn	Ag	B ₂ SO ₄						
45.0	50.0	5.0			48AAA									
50	57	7.0			45									
57	62	5.0			46									
62	72	10.0			47									
72	82	10.0			48									
82	92	10.0			49									
92	102	10.0			50 A									
102	107	5.0			5258 B									
107	112	5.0			59									
112	122	10.0			60									
122	132	10.0			61									
132	142	10.0			62									

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lat. _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____

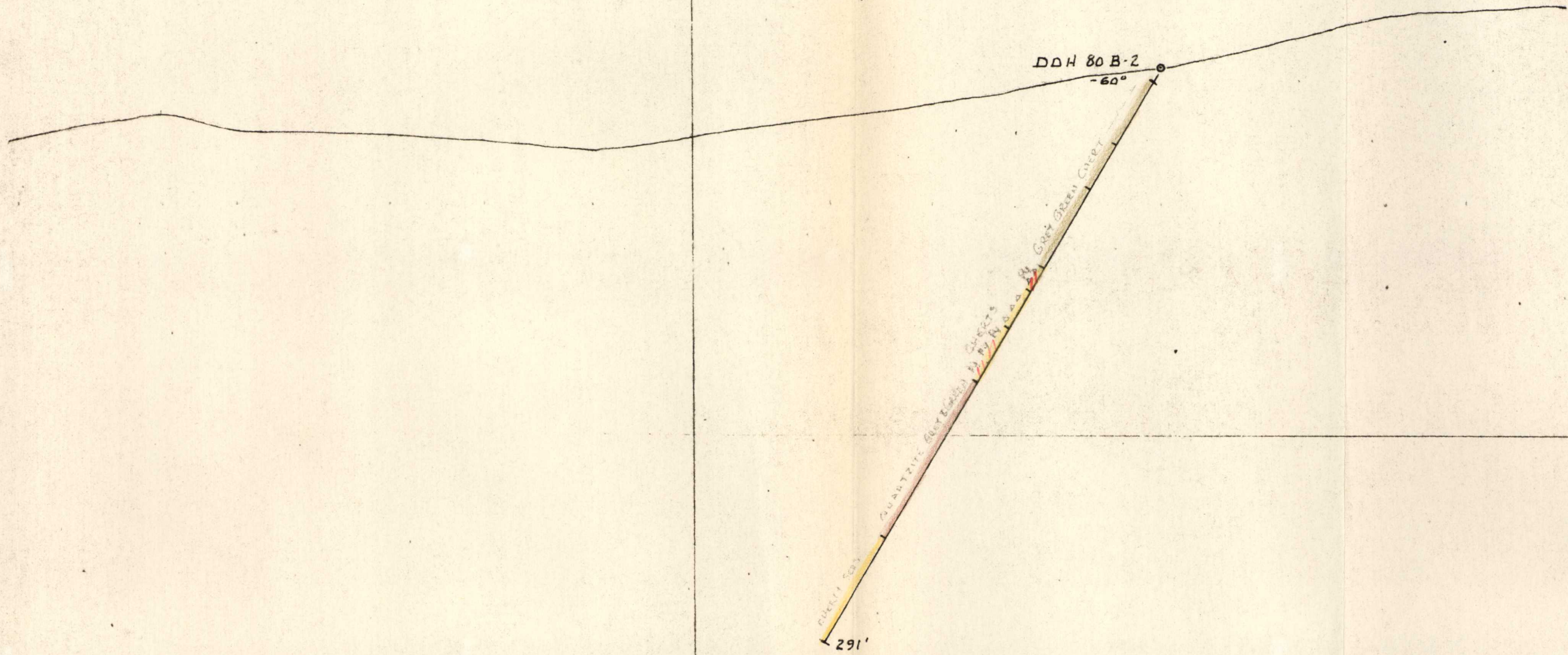
**J.C. STEPHEN
EXPLORATIONS
LTD.**

Hole No. 80 B-3
 Project DC. SYNDICATE
 Claim BAR 4
 Page _____ of _____

53+00 N

50+00 N BL

Elev 3800



Elev 3600

DD.H. 80 B-2

J.C. STEPHEN EXPLORATIONS LTD.
 D.C. SYNDICATE
 BAR CLAIM GROUP
 VERTICAL SECTION 20+00W.
 FACING EASTERLY
 SCALE 1"=50' JUNE 1980

FIGURE 3

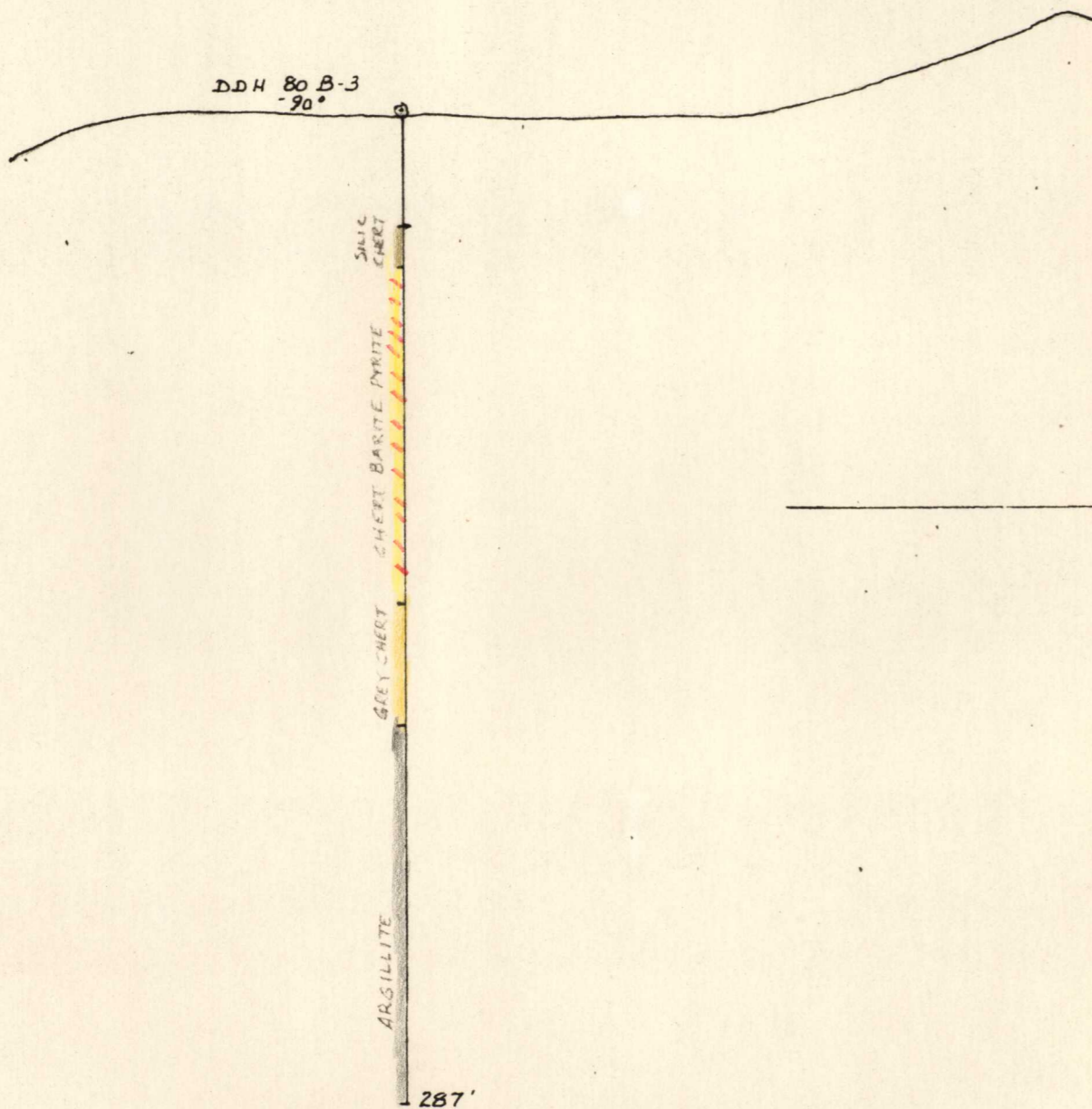
64100N

62100N

57100N

Elev 3800'

DDH 80 B-3
-90°



Elev 3600'

D.D.H. 80 B-3

J.C. STEPHEN EXPLORATIONS LTD.

D.C. SYNDICATE

BAR CLAIM GROUP

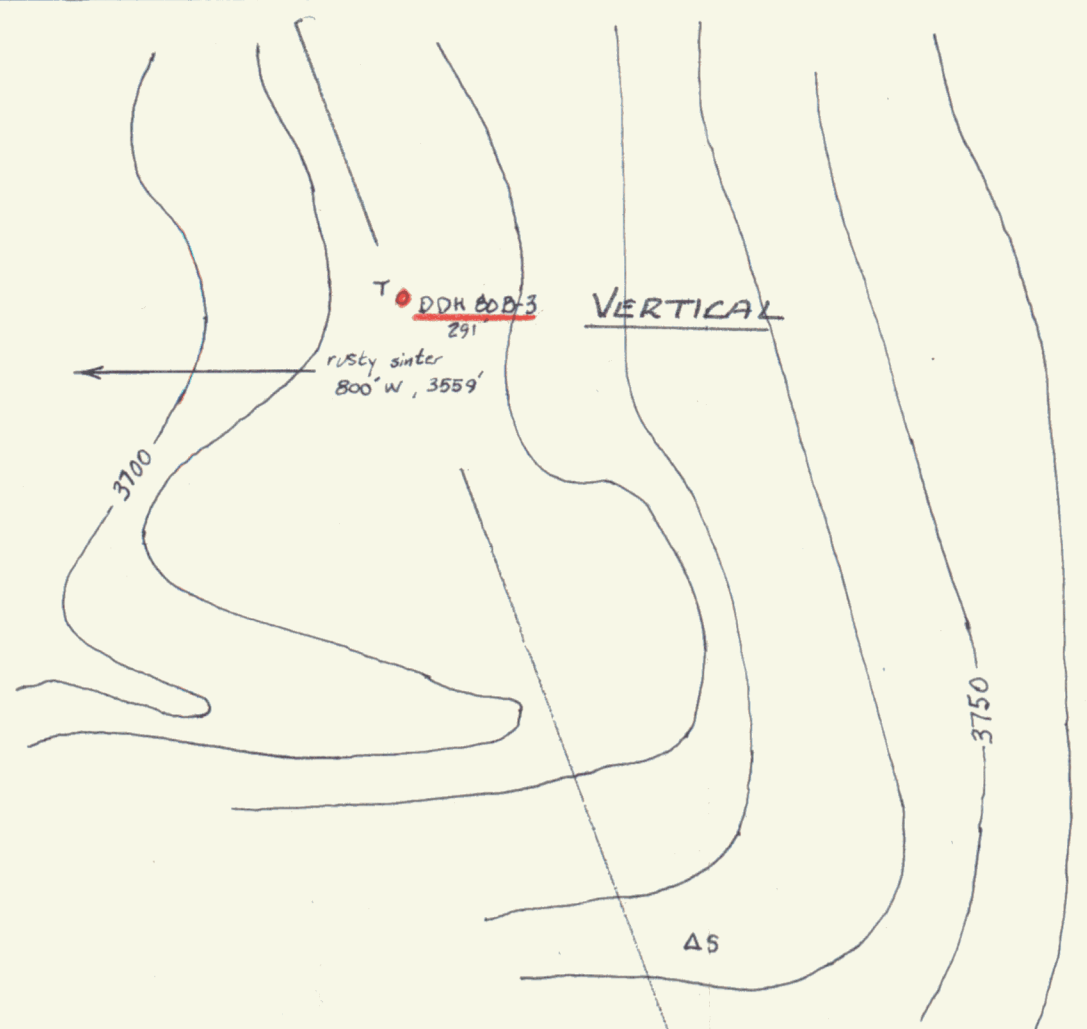
VERTICAL SECTION 20100 W

FACING EASTERLY

SCALE 1" = 50'

JUNE 1980

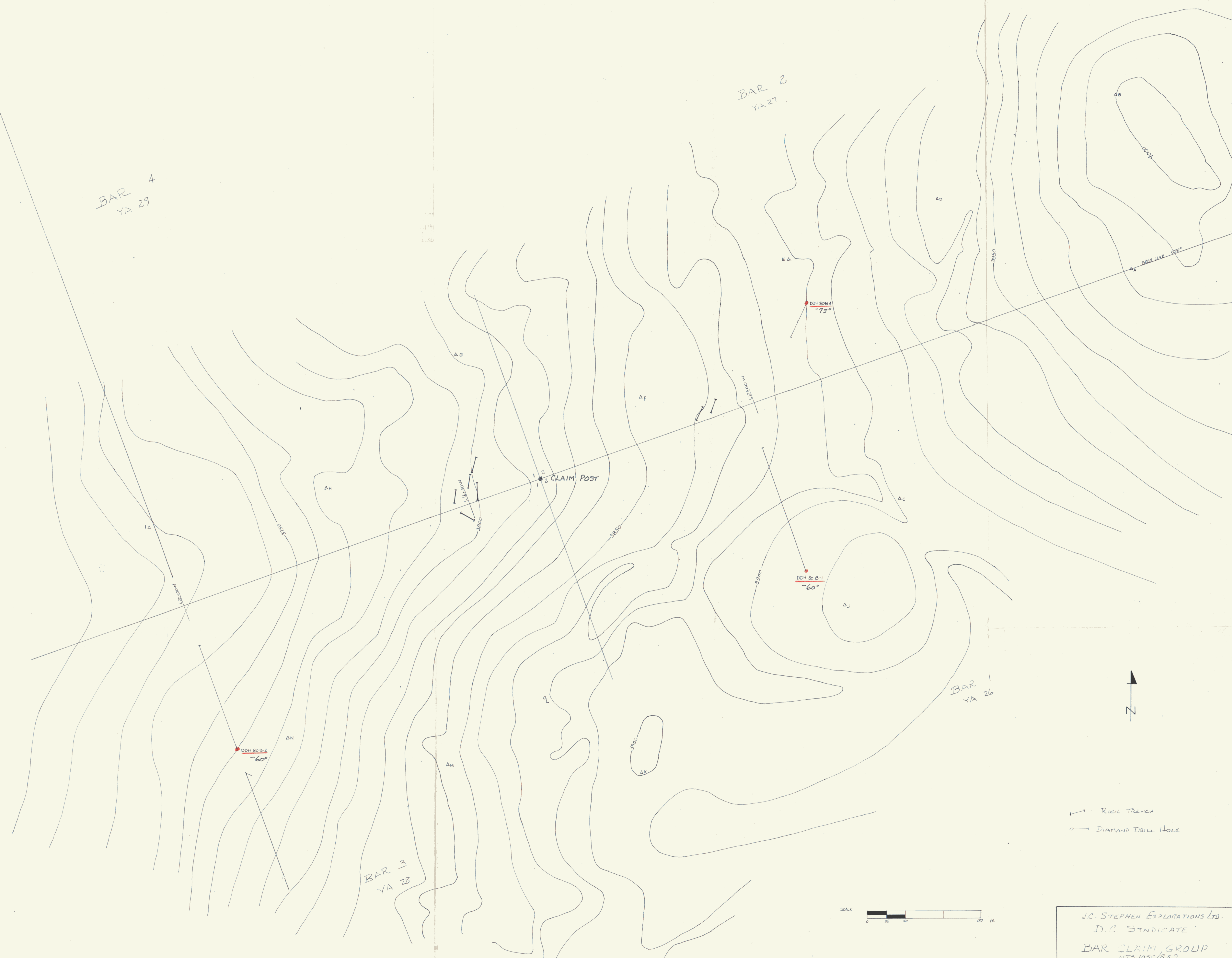
FIGURE 4



AR
AP
AO

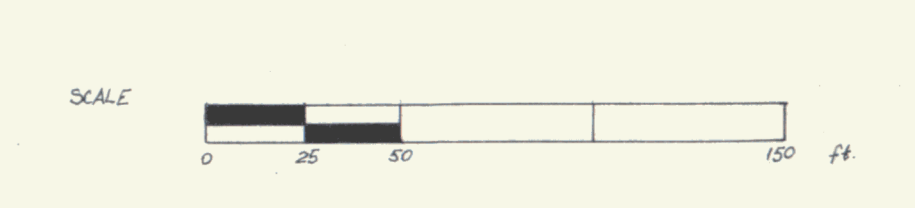
BAR 4
YA 29

BAR 2
YA 27



BAR 3
YA 28

BAR 1
YA 26



J.C. STEPHEN EXPLORATIONS LTD.
D.C. SYNDICATE
BAR CLAIM GROUP
NTS 105C/8&9
TOPOGRAPHIC MAP
SCALE 1" = 50'
JUNE 1980

J.C. STEPHEN EXPLORATIONS LTD.

1124 West 15th Street, North Vancouver, B.C. V7P 1M9

(604) 988-1545

July 15, 1980
% Seraghtij's Lodge
Swift River, Yukon

Mining Recorder
Watson Lake, Y.T.

Re: BAR 1-20 MAP 105C/819

Dear Sir:

Enclosed are two copies of drill logs and location maps to accompany the statements of expenditure, etc. filed for assessment work on these claims about June 22. I trust all is in order and that you have received the \$10.00 cheque requested to complete the fees.

Yours very truly

J. Stephen

Jrilcor Industries Ltd.

18 - 12871 Bathgate Way
Richmond, British Columbia
Canada V6V 1Y5

Telephone (604) 273-1878
Telex 04-357519

September 22, 1980.

J.C. Stephen Exploration,
1124 W. 15th Street,
North Vancouver, B.C.
V7P 1M9

BAR group - Final Invoice 8005/3

Additives from our Invoice 8005/1
charged at straight cost -
15% of 324.53

48.68

Materials consumed from our Invoice 8005/2
charged at straight cost -

3 bentonite	34.50
1 casing adv.	117.50
1 casing shoe	<u>171.50</u>

15% of 323.50

48.53

Cook's wages charged on Inv. 8005/2
for 13/30 (13 days). Total project
duration was June 4-19 inclusive - 16 days
Outstanding portion: $1900 \times 1.25 \times 3/30 \times 36/89 = 96.07$

Less 10% added to cooks wage cost in error
on Invoice 8005/2 (41.63)

54.44

Stove oil taken in to Bar group - 3 drums

238.28

Total

\$389.93

OK
J.C. Stephen
J.C. Stephen - BAR

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose Comment

0-6.5 OVERBURDEN
 6.5-33.5 OVERBURDEN, ROCK SLABS - CASING
 BROKEN FRAGMENTS GREY-GREEN CHERT

33-61. GREY-GREEN CHERT, WELL FRACTURED - LYMONITE ON FRACTURE SURFACES - LEACHED

61-101 GREY-GREEN CHERT - WEAK LINATION (BEDDING?) AT 35°-40° MINOR PYRITE ON WEAK FRACTURES

101-113. BRECCIATED CHERT SEAMED BY PYRITE & MINOR BARITE SOME HEMATITE IN CHERT. MINERALIZATION WEAKER 106-113

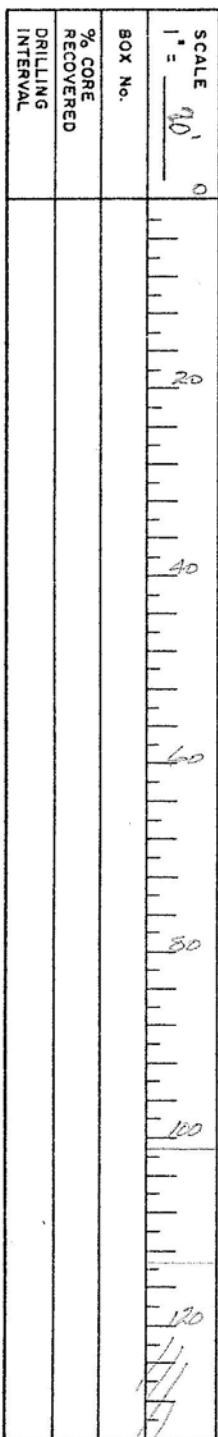
113-131.3 CREAM COLORED FELDSPATHIC LOOKING COARSE CHERT BRISCCIA

GEOLOGY

MINERAL

FRACTURING

ALTERATION



BOX No.

% CORE RECOVERED

DRILLING INTERVAL

Length _____

Bearing SRIDNEY (340°)

Dip -60°

Lat. 48N 4919N

Dep. ROW 20400W

Elev. 3160

O.B. Thickness _____

B.R. Thickness _____

Contractor DELEAR

Core BO

Casing _____

Logged by JCS

Location _____

Date JUNE 13 - 1980

Started _____

Finished _____

Hole No. BO B-2

Project DC SUNDIGATE

Claim BAR 3

Page 1 of _____

J.C. STEPHEN
EXPLORATIONS LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose Comment	GEOLOGY	MINERAL	FRACTURING	ALTERATION	SCALE 1" = _____	BOX No.	% CORE RECOVERED	DRILLING INTERVAL	SURVEY:		ANGLE	
									Footage	Bearing	Reading	Corrected
Pyrite mineralization on fractures - spotty		Py			120							
131.3-159 Grey fine chert breccia - appears pebbly. Considerable Py mineralization up to 30%.		Py			140							
159-238 Quartzite - massive - relatively fine grained very minor fracturing and Qtz veining, bedding at about 50° indistinct 166.3-172 Pale grey green in color 171-201.5 " " " " " " 205.5-238 Pyrite mineralization on fractures, and weak irregular zones at 174, 178, 183 with little barite; 187½-188½ 204-205, 210.5; 235.5, 236 with little ret veining Grey green Qtzite generally barren		Py			160							
238-291 Finer grained, better bedded greenish to grey cherty beds at 40° to core					200							
					220							
					240							

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lat. _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____
 Hole No. _____
 Project _____
 Claim _____
 Page 2 of _____

J.C. STEPHEN
EXPLORATIONS
LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose
Comment

GEOLOGY

MINERAL

FRACTURING

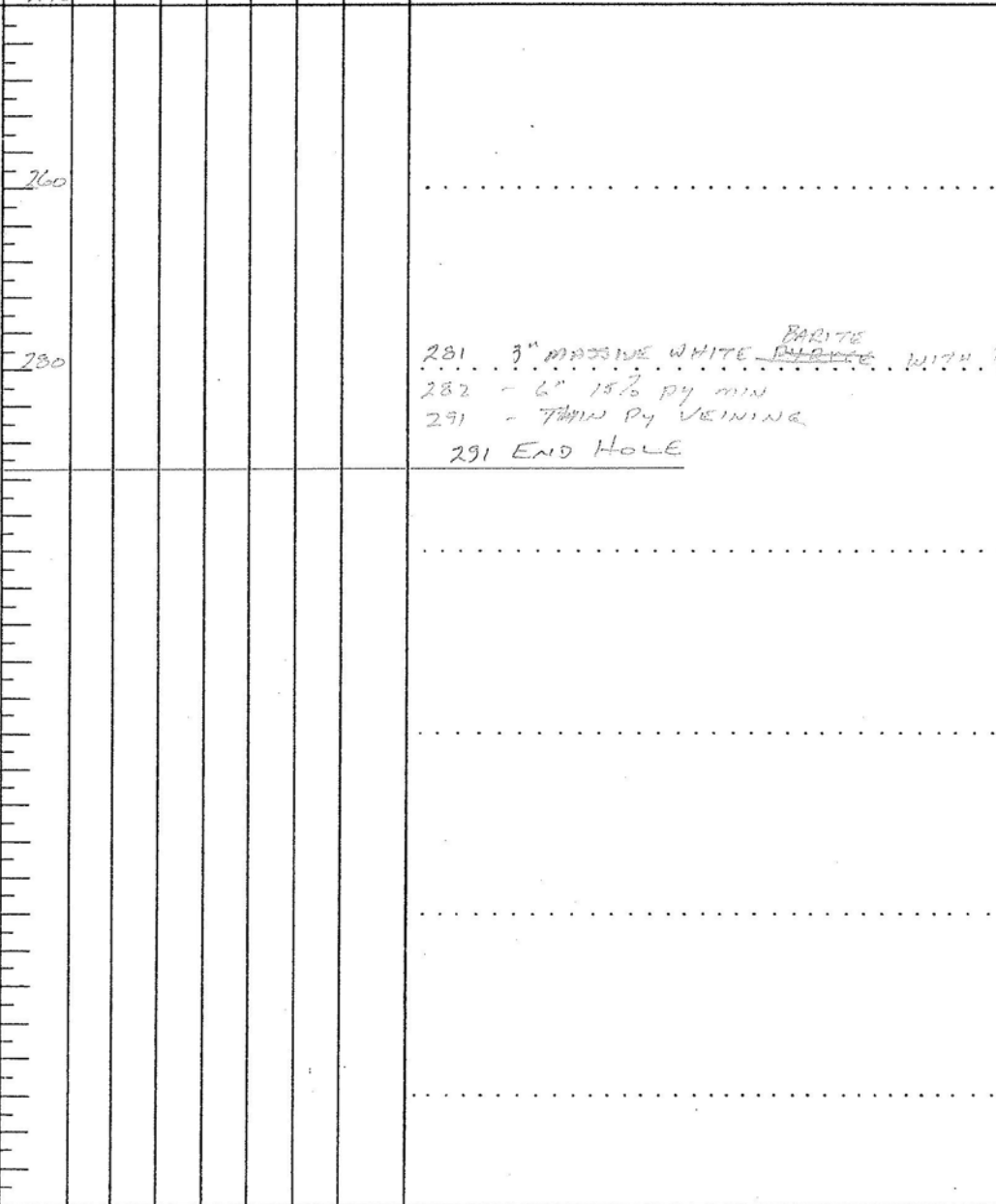
ALTERATION

SCALE
1" = 240

BOX No.

% CORE
RECOVERED

DRILLING
INTERVAL



281 - 3" MASSIVE WHITE ~~pyrite~~^{BARITE} WITH PYRITE
 282 - 6" 15% PY MIN
 291 - THIN PY VEINING
 291 END HOLE

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lat. _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____

Hole No. _____
 Project _____
 Claim _____

J.C. STEPHEN
EXPLORATIONS
LTD.

Page 3 of _____

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

BOX No.	% CORE RECOVERED	DRILLING INTERVAL	SCALE	ALTERATION	MINERAL FRACTURING	GEOLOGY	Purpose Comment
			10'				0' - 12.5' Casing, overburden, rock fragments
	30%		10'				12.5-16' Grey green chert, collection of small fragments
	2%		20'		Py		16-21' Grey green chert, little pyrite small fragments.
	15%		20'		Ba Py		21-26' Grey geen chert? Barite, pyrite, limonite on fractures
	12%		30'		Py		26-31' Grey green chert, little barite, pyrite, limonite on fractures.
	40%		30'		Ba Py		31-33.5' Mainly Pyrite, barite, limonite on fractures. Banding irregular at 30' to 70' to core
	35%		30'		Py		33.5-35' Grey green chert, little ba, py, lim. small fragments
	30%		30'		Py Ba Py		35-36' White barite, fine pyrite, small fragments
	30%		30'		Ba Py		36-40' Mainly white barite, pyrite, remnants grey gr chert.
	10%		40'				40-41' Broken core. Fragments grey green chert
	70%		40'		Ba, Py		41-42.8' Grey green chert, barite, pyrite. Broken
	70%		40'				42.8-44.4' Dark grey to black f.g. shale. Irregular breaking.
	100%		50'		Py Ba Sph Tetra hedrite?		44.4-114' Dark grey cherty sediment. Irregular indistinct bedding or banding in places. Irregular zones or fragments of light grey (pepper & salt) grit with small angular chert and black shale fragments. Mainly between 60 and 66'
			60'				Formation well fractured and mineralized with pyrite and barite.

Length _____ Bearing Grid North (340°)
 Dip -60 Contractor Drilcor
 Lot 47+67 N. Core BQ Stored _____
 Dep. 12+00W. Casing JCS Logged by JCS Date _____
 Elev 3907' Location _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____
 Hole No. 80 B-1
 Project BAR I
 Claim _____ Page _____ of _____

**J.C. STEPHEN
EXPLORATIONS
LTD.**

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose
Comment

Zones of relatively massive pyrite;
71-72;74.5-77.8;85-86;115-119.4'

Slickensides on slip at 45° to core; Sheared pyrite on surfaces

Minor galena on fracture at 102.5'
Occasional pale sphalerite on fractures

111' and 113.5-115' Core vuggy, sheared, Fault at 60° to core

114-154' Pale creamy grey siliceous sediment - variable hardness, fine grained, numerous fine fractures and irregular zones pyrite. Resembles grey green chert.

GEOLOGY

MINERAL

FRACTURING

Py

Py

Py, Gal, Sph

Py

ALTERATION

SCALE 1" = 60'

BOX No.

% CORE RECOVERED

DRILLING INTERVAL

Length _____ Contractor _____

Bearing _____ Core _____ Stored _____

Dip _____ Casing _____

Lat. _____ Logged by _____ Date _____

Dep. _____ Location _____

Elev. _____

O. B. Thickness _____ Started _____ Finished _____

B. R. Thickness _____ Started _____ Finished _____

Hole No. 80 B-1

Project _____

Claim _____

Page 2 of 7

J.C. STEPHEN
EXPLORATIONS
LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

SCALE 1" = _____ 120'	BOX No.	% CORE RECOVERED	DRILLING INTERVAL	ALTERATION			MINERAL	FRACTURING	GEOLOGY	Purpose Comment
120'										30% pyrite in irregular zones and fractures 119.3'-124' Then less pyrite on irregular fractures to 153.8'
130'										133.5-135.5'; 141-142' Grit zones include angular fragments of fine grained pyrite
140'										
150'										
160'							Py			153.8-166' Massive pyrite, little barite 30% pyrite in irregular zones 1.5 and 2.5' on either side.
170'										166-178' Similar to 114-154' Similar to grey green chert
180'								Py		Bedding at about 45° to core, generally indistinct..... 178-221' Grey to grey green chert

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lot _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____
 Hole No. 80 B-1
 Project _____
 Claim _____
 Page 3 of 7

**J.C. STEPHEN
EXPLORATIONS
LTD.**

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose
Comment

Pyrite in fractures and irregular seams
Pyrite is fractured or brecciated and healed with quartz.
184' Little red dusting of hematite? on fracture

.....

.....

.....

.....

Fine grey to creamy grey green irregularly bedded cherty sediment
Bedding at about 70° to core
Weak pyrite mineralization on small fractures

.....

221-223' Nearly massive pyrite

.....

230.8-235.5' 40% pyrite.

.....

235.5-247.5' Massive pyrite, brecciated, spots and seams of quartz

.....

GEOLOGY

MINERAL

Py

Py

Py

FRACTURING

ALTERATION

SCALE
1" = _____
180'

BOX No. _____

% CORE RECOVERED _____

DRILLING INTERVAL _____

190

200

210

220

230

240

Length _____ Contractor _____

Bearing _____ Core _____ Stored _____

Dip _____ Casing _____

Lat. _____ Logged by _____ Date _____

Dep. _____ Location _____

Elev. _____

O.B. Thickness _____ Started _____ Finished _____

B.R. Thickness _____ Started _____ Finished _____

Hole No. 80 B-1

Project _____

Claim _____

Page 4 of 7

J.C. STEPHEN
EXPLORATIONS
LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose Comment	GEOLOGY	MINERAL	FRACTURING	ALTERATION	SCALE 1" = 240'	BOX No.	% CORE RECOVERED	DRILLING INTERVAL	SURVEY:		ANGLE	
									Footage	Bearing	Reading	Corrected
		Py			240							
247.5-287.5' Grey argillite, short sections thin bedded, alternating light and dark grey - appears varved. Bedding irregular often disrupted by coarser irregular zones or fragments. Contacts sharp but very irregular.					250							
255.5-256.6' Grey grit with pyrite. Bedding at 70° to core. Irregular fracture filling and weak zones pyrite - cross fractured zebra style.		Py			260							
Grit					270							
Chert more common toward end of section. Bedding quite irregular, some graphitic					280							
Chert					290							
287.5-305.7' Grey chert as 178-221'. Up to 15% pyrite on irregular fractures. Mineralization along core 291-294'		Py			300							

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lot _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____
 Hole No. 80 B-1
 Project _____
 Claim _____
 Page 5 of 7

**J.C. STEPHEN
EXPLORATIONS
LTD.**

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

DRILLING INTERVAL	% CORE RECOVERED	BOX No.	SCALE 1" = _____ 300	ALTERATION			GEOLOGY	MINERAL	FRACTURING	Purpose Comment
			300							
			310							305.7-318' Dark green intrusive dyke. Porphyritic with dark green to black augite?? crystals. First contact chilled and fine grained, second contact sheared. Dyke appears sheared and serpentized, some quartz-carbonate veining.
			320							318-348' Dark grey to black irregularly bedded conglomeratic siltstone. Bedding at about 60-65°.
			330					Py		Thin seams pyrite parallel to bedding
			340					Grit		338.5-341' Chert, grit, .5" quartz on first contact, second contact sheared. Irregular pyrite filled fractures
	70%									Core broken at end of section
	50%									END OF HOLE 348'

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lot _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev. _____
 O. B. Thickness _____ Started _____ Finished _____
 B. R. Thickness _____ Started _____ Finished _____
 Hole No. 80 B-1
 Project _____
 Claim _____
 Page 6 of 7

**J.C. STEPHEN
EXPLORATIONS
LTD.**

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose Comment	0 - 6.5' Overburden
	6.5-38.5' Overburden, rock slabs - CASING Broken fragments grey green chert
	38-61' Grey green chert, Well fractured - limonite on fracture surfaces - leached

% CORE RECOVERED	DRILLING INTERVAL	BOX No.	SCALE 1" = _____ 0	ALTERATION	MINERAL	FRACTURING

Length 291' Contractor DRILCOR
 Bearing Grid north (340°) Core BQ Stored On property
 Dip -60° Casing
 Lat. 47+97 N. Logged by JCS Date June 13 - 1980
 Dep. 20+00 W. Location
 Elev 3760'
 O.B. Thickness Started Finished
 B.R. Thickness Started Finished

Hole No. 80 B-2
 Project BAR 3
 Claim
 Page 1 of

J.C. STEPHEN
 EXPLOARATIONS
 LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose Comment	GEOLOGY	MINERAL	FRACTURING	ALTERATION	SCALE 1" = _____ 60	BOX No.	% CORE RECOVERED	DRILLING INTERVAL
61-101' Grey green chert, weak lineation (bedding?) at 35°-40°. Minor pyrite on weak fractures					60			
101-113' Brecciated chert, seamed by pyrite and minor barite. Some hematite in chert. Mineralization weaker 106-113'.		Py			110			
113-131.3' Cream colored feldspathic looking coarse chert breccia					120			

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lat. _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____
 Hole No. 80 B-2
 Project _____
 Claim _____
 Page 2 of _____

**J.C. STEPHEN
EXPLORATIONS
LTD.**

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose Comment	GEOLOGY	MINERAL	FRACTURING	ALTERATION		SCALE 1" = _____ 120	BOX No.	% CORE RECOVERED	DRILLING INTERVAL
		Py				120			
131.3-159'		Py				130			
		Py				140			
		Py				150			
159-238						160			
						170			
						180			

Pyrite mineralization on fractures - spotty

131.3-159' Grey fine chert breccia - appears pebbly- considerable pyrite mineralization up to 30%

159-238 Quartzite- massive- relatively fine grained. Very minor fracturing and quartz veining. Indistinct bedding at about 50°.

166.3-172 pale grey green in color

191-201.5 " " " " "

205.5-238 " " " " "

Pyrite mineralization on fracture and in weak irregular zones at 174, 178; 183 with little barite; 187.5-188.5; 204-205; 210.5; 235.5-236 with little quartz veining;

Grey green quartzite generally barren

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lat. _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____

J.C. STEPHEN
EXPLORATIONS
LTD.

Hole No. 80 B-2
 Project _____
 Claim _____

Page 3 of _____

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

ALTERATION	MINERAL FRACTURING	GEOLOGY	Purpose Comment
			Pyrite mineralization on fractures - spotty
		Py	131.3-159' Grey fine chert breccia - appears pebbly- considerable pyrite mineralization up to 30%
		Py	
		Py	
			159-238 Quartzite- massive- relatively fine grained. Very minor fracturing and quartz veining. Indistinct bedding at about 50°.
			166.3-172 pale grey green in color
			191-201.5 " " " " "
			205.5-238 " " " " "
			Pyrite mineralization on fracture and in weak irregular zones at 174, 178; 183 with little barite; 187.5-188.5; 204-205; 210.5; 235.5-236 with little quartz veining.
			Grey green quartzite generally barren

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lot _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____

J.C. STEPHEN
EXPLORATIONS
LTD.

Hole No. 80 B-2
 Project _____
 Claim _____
 Page 3 of _____

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose Comment

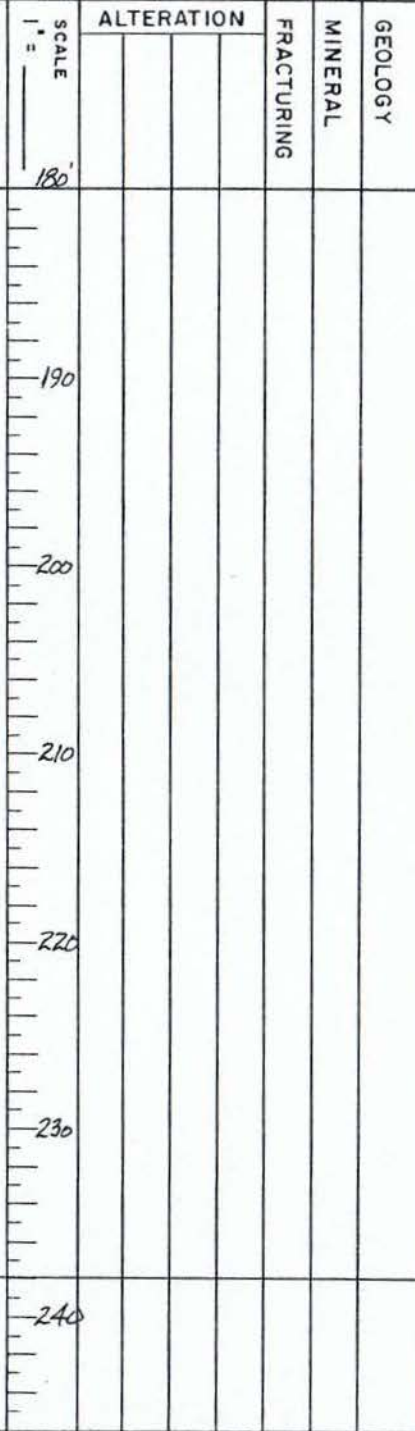
GEOLOGY

MINERAL

FRACTURING

ALTERATION

238-291' . . . Finer grained better bedded greenish to grey cherty
sediments. Thin beds at 40° to core.



BOX No. _____

% CORE RECOVERED _____

DRILLING INTERVAL _____

Length _____ Contractor _____

Bearing _____ Core _____ Stored _____

Dip _____ Casing _____

Lat. _____ Logged by _____ Date _____

Dep. _____ Location _____

Elev _____

O.B. Thickness _____ Started _____ Finished _____

B.R. Thickness _____ Started _____ Finished _____

Hole No. 80 B-2

Project _____

Claim _____

Page 4 of _____

J.C. STEPHEN
EXPLORATIONS
LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose
Comment

281' 3" massive white barite with pyrite
282' 6" 15% pyrite mineralization

291' Thin pyrite veining.

291' END OF HOLE

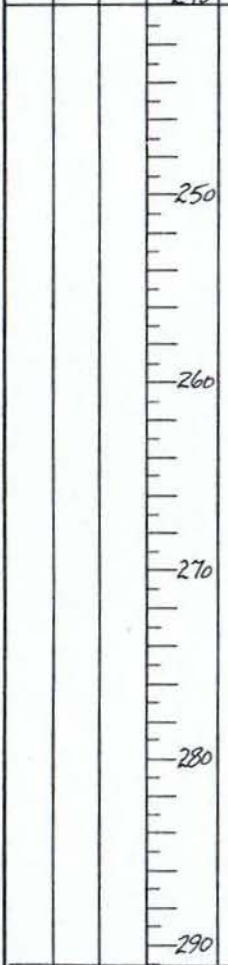
ALTERATION

MINERAL
FRACTURING

Py

SCALE
1" = 240'

BOX No.
% CORE RECOVERED
DRILLING INTERVAL



Length
Bearing
Dip
Lot.
Dep.
Elev.

Contractor
Core
Casing
Logged by
Location

Started
Finished
Date

Hole No. 80 B-2
Project
Claim

**J.C. STEPHEN
EXPLORATIONS
LTD.**

O.B. Thickness
B.R. Thickness

Started
Finished

Page 5 of

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

DRILLING INTERVAL	% CORE RECOVERED	BOX No.	SCALE 1" = 10'	ALTERATION	MINERAL	FRACTURING	GEOLOGY	Purpose Comment
			0					0 -33.5' CASING
			10					
			20					
			30					
	60%		40					33.5-45' Pale grey to white siliceous "chert" with very little disseminated cubic pyrite. Fairly well fractured with limonite on fractures.
			50					45-142' White siliceous chert, barite, pyrite core broken.
			60		Py			
			57'					
	20%		60					
	62%							
	50%							

Length 287' Contractor DRILCOR
 Bearing _____ Core BQ Stored _____
 Dip VERTICAL Casing _____
 Lat. 62+65 N Logged by JCS Date _____
 Dep. 20+00 W. Location _____
 Elev. 3713
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Stored _____ Finished _____
 Hole No. 80 B-3
 Project _____
 Claim BAR 4
 Page 1 of _____

**J.C. STEPHEN
EXPLORATIONS
LTD.**

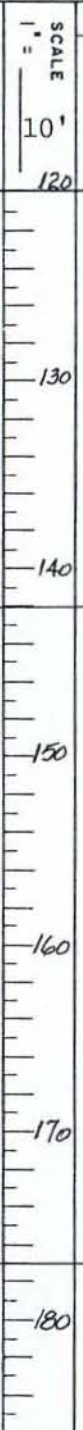
SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose
Comment

142-177' Grey to greenish grey fine grained chert or argillaceous chert. Bedding at 35°. Fairly massive, weak fracturing with pyrite.

174.5-175.6' Dark grey cherty argillite.

ALTERATION					
MINERAL					
FRACTURING					
GEOLOGY					



BOX No.	
% CORE RECOVERED	
DRILLING INTERVAL	

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lat. _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____

J.C. STEPHEN
EXPLORATIONS
LTD.

Hole No. 80 B-3
 Project _____
 Claim _____
 Page 3 of _____

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose
Comment

177-287' Dark grey argillite. Bedding somewhat variable.
 at 60° at 180'; 45° at 215'; locally up to 75° near 270';
 Occasional fractures with pyrite.
 Sections vary from fine grained gritty argillite to
 irregularly thin bedded to massive.

241-248' Narrow quartz and quartz-carbonate veining at 15°
 to core.

287' END OF HOLE

ALTERATION

MINERAL
FRACTURING

SCALE
1" = 10'
180



BOX No.
% CORE RECOVERED
DRILLING INTERVAL

Length
Bearing
Dip
Lot.
Dep.
Elev.
O.B. Thickness
B.R. Thickness

Contractor
Core
Casing
Logged by
Location
Date
Started
Finished

Contractor _____ Stored _____
 Casing _____
 Logged by _____ Date _____
 Location _____
 Date _____
 Started _____ Finished _____
 Hole No. 80 B-3
 Project _____
 Claim _____
 Page 4 of _____



SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

DRILLING INTERVAL	% CORE RECOVERED	BOX No.	SCALE 1" = 10'	ALTERATION		FRACTURING	MINERAL	GEOLOGY	Purpose Comment
	20%		60				sph py		Core badly broken.
			64						
			70						
			72				sph Py	3	Bedding 45° Bedding 42° Sphal blebs red-brown, intergrown with chert along fractures. Pyrite stringers - fine grained. Rust colored stain along fract.
			80				Py sph		2" band pyrite mixed with chert. Small bleb sphal.
			90						
			100						
			110				Py	4 3	4" band cherty argillite. 2" band buff colored clay alteration fracture filling 106.5-107.5' Grey cherty argillite
			120				Py sph	4 3	111.5-112.5' Grey cherty argillite Disseminated pyrite blebs sub-rounded to angular fragments of pyrite. 112.5-116' Minor rounded clusters of dissem sphal. intermixed with pyrite.

Length 188' Contractor DRILCOR
 Bearing S 27° W Core BQ Stored IC CLAIM GROUP
 Dip -75° Casing
 Lot: 10+75 W Logged by NS & PJP Date June 19, 1980
 Dep. 51+02 N Location
 Elev. 3890'
 O.B. Thickness Started Finished
 B.R. Thickness Started Finished

Hole No. 80 B-4
 Project BAR 2
 Claim
 Page 2 of 4

J.C. STEPHEN
 EXPLORATIONS
 LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

ALTERATION	MINERAL	FRACTURING	GEOLOGY	Purpose Comment
	Py			125.5' Pyrite stringers
	Py			128-129' Core badly broken only fragments remaining.
	Py			130' Massive pyrite
	Py		3	136-146' Pyrite in stringers.
				150' Bedding 34°
				Core badly broken
			4	166-173' Black cherty argillite.
	Py		3	179' Pyrite filling hairline fractures. 1" quartz vein
				184-188' Badly broken

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lot _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____
 Hole No. 80B-4
 Project _____
 Claim _____
 Page 3 of 4

**J.C. STEPHEN
EXPLORATIONS
LTD.**

120' 130' 140' 150' 160' 161' 50% 166' 170' 180' 20%

188' END OF HOLE

From	To	Width	Recovery		Sample	Assays						
			ft./lbs.	%		Zn	Ag	Cu	WO ₃	Sn	Pb%	
27	33	6.0			85754B	<0.01	0.08	<0.01	0.02	<0.01		
33	39	6.0			5263B	0.06	0.09					
39	43	4.0			85755B	<0.01	0.12	<0.01	0.02	<0.01		
43	54	11.0			5264B	0.04	0.07					0.02
54	57	3.0			85756B	0.34	0.14	<0.01	0.03	<0.01		
57	62	5.0			5265B	0.59	0.09					0.02
62	66	4.0			85757B	0.08	0.06	<0.01	0.02	<0.01		
72	83	11.0			5266B	1.17	1.30					0.20
83	91	8.0			85758B	0.02	0.14	<0.01	<0.01	<0.01		
91	96	5.0			759	0.01	0.08	<0.01	<0.01	<0.01		
96	100	4.0			5267B	0.02	0.25					
100	102	2.0			85760B	0.02	0.08	<0.01	<0.01	<0.01		
102	108	6.0			761	0.03	0.12	<0.01	0.02	<0.01		
108	113	5.0			762	0.01	0.08	<0.01	0.02	<0.01		
113	119	6.0			5268B	0.44	0.17					
119	121	2.0			85763B	0.01	0.18	<0.01	0.01	<0.01		
121	133	12.0			5269B	0.17	0.42					
133	136	3.0			85764B	0.02	0.06	<0.01	<0.01	<0.01		
136	146	10.0			5270B	0.79	0.93					
146	151	5.0			85765B	0.11	0.32	<0.01	<0.01	<0.01		
151	160	9.0			5271B	0.02	0.36					
168.5	177.5	9.0			85766B	0.07	0.48	<0.01	<0.01	<0.01		
177.5	183.5	6.0			767	0.20	0.34	<0.01	<0.01	<0.01		
183.5	188.0	4.5			768	0.30	0.20	<0.01	<0.01	<0.01		

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lat. _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____

J.C. STEPHEN EXPLORATIONS LTD.

Hole No. 80 B-4
 Project _____
 Claim BAR GROUP
 Page 4 of 4



Vancouver Petrographics Ltd.

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

P.O. BOX 39
8887 NASH STREET
FORT LANGLEY, B.C.
VOX 1J0

PHONE (604) 533-1155

7 Sept. 1980

Invoice
2187

Mr. J.C. Stephen
J.C. Stephen Explorations Ltd.
1124 W. 15th Street
Vancouver, B.C.
V7P 1M9

Dear Mr. Stephen:

Enclosed please find petrographic descriptions for the five samples from the DC Syndicate project. The materials and the bill will follow.

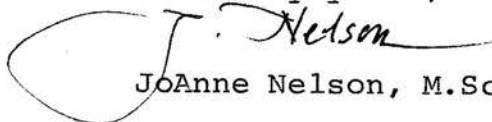
Two main periods of sulfide mineralization can be identified. Sample 80-B1-127.5' contains chert clasts with fine pyrite trains parallel to bedding. Minor sphalerite is also present in the clasts. This appears to be syngenetic. The clasts are surrounded by a pyrite-rich vein matrix, which also contains sphalerite. This mineralization of course took place after brecciation. It should be noted that the clasts in sample 80-B1-127.5', as well as the samples from drill hole B2 show a sericite foliation parallel to bedding succeeded by a later sericite cleavage, probably a dewatering effect. These cleavages are cut off and rotated in the breccia. Thus the brecciation, along with veining and mineralization, occurred considerably after deposition of the sediments.

Rebrecciation of pyrite and multiple veining events are also indicated; however they all belong within the second (epigenetic) period of mineralization.

Samples 80-B2-191' and 244' are immature clastic sediments derived from rhyolite/chert terrane. Although no immediate volcanism is apparent in the five samples examined, at least these indicate the proximity of a volcanic center.

Should you have questions or wish further discussion, I can be reached either via Jim Vinnell or at 224-6883.

Sincerely yours,



JoAnne Nelson, M.Sc.

80-B1-127.5' Brecciated silty and argillaceous chert
with pyrite-quartz-barite-sphalerite veins

The light-colored clasts in this sample are cherty. Two lithologies are present: chert with about 20% .1 mm quartz grains; and chert with abundant fine white mica. The latter contain fine pyrite bands which run parallel to sedimentary layering. They are cut off at the edges of the fragments by veins containing coarse pyrite, plus quartz and barite.

Pyrite in the veins occurs as single grains and in aggregates; Fine quartz and barite veinlets cut across the pyrite aggregates, filling fractures.

This sample shows two episodes of sulfide mineralization. The first was syngenetic. It is represented by bedding-parallel pyrite lamellae. The second was epigenetic. It involved remobilization of pyrite during brecciation and veining.

Clasts

Sharp bedding contacts separate the two lithologies. Two sericite foliations can be seen, one nearly parallel to bedding, the other at a low angle to it.

Pyrite grains in the fragments are very small. Many are cubic. A few possible examples of framboidal pyrite were noted. Pyrite occurs disseminated, in clusters (this was especially apparent in the silty layers), and in fine trains. The trains occur only in the argillaceous layers. They bifurcate; their trends are nearly parallel to bedding.

One sphalerite clump was seen in a silty layer. It touches and surrounds pyrite. It is .05 mm in diameter.

Veins

Pyrite occurs as equant grains and blobby aggregates. "Stacked" rectangular morphologies are scattered in the veins. In the denser aggregates, wispy concave-bordered inclusions of barite and quartz show the impingement of pyrite on its matrix. However, quartz and barite have grown later at the expense of pyrite. This is shown by straight quartz and barite veinlets which cut across pyrite aggregates.

Quartz grows interstitial to pyrite; it also forms columnar veinlets.

Sericite, somewhat coarser than in the fragments, accompanies quartz in veinlets and in interstitial aggregates.

Some of the barite in the veins is coarse and euhedral; it also occurs as small equant grains in interstitial aggregates

80-B1-127.5' cont.

and as elongate grains within groups of columnar quartz.

Sphalerite is rare. One very large clear grain .1 by 1 mm occurs in a late vein that cuts across the thin section, both fragments and vein matrix.

Mode (overall)

45 quartz
40 pyrite
10 sericite
5 barite
(.2) sphalerite



clast, showing py bands

5 mm



"stacked" pyrite

.05 mm

80-B1-156' Pyrite-barite-quartz-sphalerite vein complex

This sample shows none of the relict sedimentary host, unlike 80-B1-127.5'. It consists entirely of epigenetic material. Episodes of both pyrite and barite growth can be seen in it. Pyrite aggregates developed by impingement on the surrounding matrix. Later, barite filled fractures in the pyrite aggregates. This sample contains the most sphalerite in the suite.

Mode

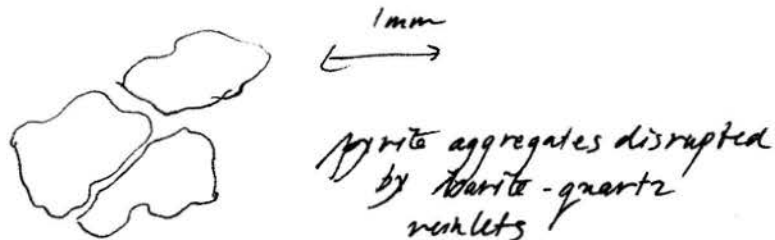
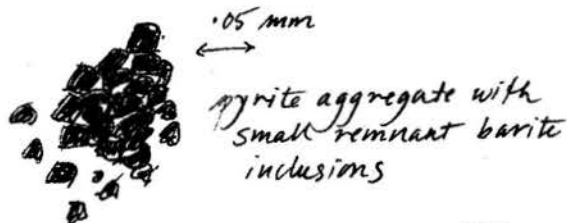
75 pyrite
20 barite
3 quartz
2 sphalerite

Pyrite occurs as equant grains and cubes which average .1 mm in diameter, but may reach .5 mm. These occur either singly or in open to dense aggregates. The latter are laced with barite in wispy inclusions along approaching pyrite grain boundaries. Pyrite aggregates are divided into angular fragments by barite veinlets. These have straight courses and were probably emplaced along fractures. This succession of textures is identical to that seen at 127.5' in this hole.

Barite grains range from fine to coarse. The larger ones are prismatic and show uneven extinction.

Quartz grows with barite as small, anhedral grains.

Sphalerite is yellow and Fe-poor. Small convex and irregular grains grow in pyrite aggregates. Larger aggregates cluster in one area of the thin section, where they reach 1.5 mm in diameter. They are very irregular in shape and include pyrite. Their edges extend along grain boundaries into the pyrite which surrounds them.



80-B2-191' Arkose

This sandstone has the texture of a greywacke. Sand-sized (.4 - 1 mm) clasts are separated by very fine grained felsic matrix, which contains abundant sericite. It is an immature sediment of rhyolitic derivation. Clasts are angular to subrounded. Many feldspars occur as nearly-euhedral laths. The lithic clasts are all rhyolite porphyries, consisting of Kspar and albite phenocrysts in fine grained felsic matrices. The phenocrysts are identical to the feldspar clasts.

Sericite orientations define 3 foliations. The strongest is parallel to bedding. The second cuts across it at 85°. A third weak foliation at 40° to bedding is also present. Its age relation to the other two is not apparent.

Mode

40	Kspar
24	sericite
15	albite
10	quartz
1	barite
tr	carbonate, apatite
10	opaques (pyrite?)

Kspar is the dominant clast type as well as the most abundant felsic mineral in the matrix. Kspar crystals show uneven extinction. None are microcline. This is evidence against a plutonic source. Typically, the matrix of a lithic clast is composed of very fine grained equant Kspar grains and sericite. In one, subhedral Kspar laths .05 mm long form an interlocking aggregate.

Sericite in the matrix shows an early bedding-parallel orientation succeeded by a cleavage that may have developed during de-watering of the sediment. Unoriented dispersed sericite is also present.

Albite forms clasts like Kspar and is also present in the matrix.

Quartz clasts are scarce. They tend to be more rounded than the feldspars. Quartz veinlets, showing columnar growth, cut the section. They developed later than the sericite cleavage.

Barite grows as small patches in feldspar and lithic clasts. Scattered grains of carbonate grow in the matrix.

A few apatite prisms occur in the lithic clasts. They are probably primary.

Disseminated cubes and equant grains are probably pyrite. They occur both in fragments and in the matrix. One lithic fragment contains a wavy train of pyrite.

80-B2-244' Arkose with siltstone interbeds

This sample resembles 80-B2-191'. It consists of feldspar, quartz and lithic clasts in a fine grained sericite-rich matrix. It differs in having more quartz clasts; also it contains abundant chert clasts and only one volcanic clast. Sericite trains are at 0° and 20° to bedding.

Mode

47	Kspar
20	sericite
20	plagioclase
15	quartz
5	pyrite
3	barite
tr	carbonate, zircon

Kspar clasts in the sandy portions are angular to subrounded. Many show tabular original shapes. Those in the silty layers tend to be angular fragments.

Sericite has a strong bedding-parallel orientation and a weaker one at 20° to bedding. It is most abundant in the silty layers.

Plagioclase clasts rarely show albite twinning. Like Kspar, they are angular to subrounded, or tabular.

Quartz clasts are round to irregular in shape. These may be the primary morphologies of volcanic phenocrysts. The degree of "roundness" contrasts strongly with that of the feldspars. This is difficult to explain as due to rounding during transport, as feldspars are softer than quartz.

Pyrite occurs as disseminated equant grains and cubes with rounded corners in both clasts and matrix.

Barite forms irregular patchy inclusions in feldspar clasts.

Scattered carbonate grains are anhedral as well as rhombic. A few zircon prisms were seen.

80-B3-86' Pyrite-barite-quartz-sphalerite vein complex

This sample resembles the veins encountered in Bl. Pyrite is dominant, followed by quartz and barite which form clear segregations. Sphalerite is present in very small quantities.

The distinctive feature of this rock is the streaky foliation, defined by segregations of pyrite-rich and pyrite-poor material. These formed after an episode of columnar quartz veining.

Mode

50 pyrite
40 barite
10 quartz
tr sphalerite

Pyrite is fairly even grained, but grain sizes range from .02 to .2 mm in diameter. Most grains are equant and anhedral. They occur either singly or in clumps up to 1 mm across. A few instances of "stacked" growth were noted. Barite aggregates are bimodal, either very coarse or very fine grained. Coarse barite is tabular and simply twinned with uneven extinction. Grains average .5 mm long. Fine barite (.05 mm in diameter) occurs as equant anhedral grains in aggregates with quartz. Fine barite veinlets cut coarse quartz where it forms segregations. Quartz aggregates are cherty or coarse. Relict columnar vein segments are seen in places. One cuts across a coarse quartz segregation at 90°, but terminates against massive pyrite at the edge of the segregation. The other cuts through a dense pyrite aggregate but terminates against pyrite-rich material on both sides of it. Sphalerite forms anhedral aggregates .05 to .1 mm across in a barite-quartz segregation. They enclose pyrite grains.

To: Cominco Ltd.

REPORT NO. A20 - 655

PAGE No. 1

BONDAR-CLEGG & COMPANY LTD.

DATE: June 30, 1980

700 - 409 Granville Street
Vancouver, B.C. V6C 1T8

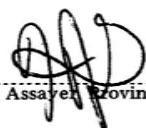
Samples submitted: June 17, 1980
Results completed: June 30, 1980

CERTIFICATE OF ASSAY

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

MARKED	GOLD		SILVER		Pb	Zn	Cd				
	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
.....											
.....											
.....											
.....											
.....											
19192			0.16		0.30	0.29					- BAR tetrahedrite
19193			0.60		0.64	3.60					- BAR laminated Barite lowermost Tronch.

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


Registered Assayer, Province of British Columbia

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

DRILLING INTERVAL	% CORE RECOVERED	BOX NO.	SCALE 1" = 20'	ALTERATION			GEOLOGY	MINERAL	FRACTURING	Purpose Comment
0		1	0-20							- Grey chert - core badly broken - rusty stain visible - some barite veins v. 25'
31	16%	1	20-30				py			- Grey to grey-white barite - py → irregular blebs and fine stringers in assoc. w barite - some rust staining - 20.5 → 26' poor recovery, core broken - vuggy (small)
43	16	1	30-40				py			- Dark grey to black cherty argillite - v. fine grained, massive - py as fracture filling, massive, finely disseminated, brecciated barite and argillite
60.8		2	40-50				py			- Grey cong. to chert (grey) matrix and both py and chert are cherty argillite fragments - fracture defined by fragments $CaSO_4$, some barite fractures - kerse?
66		2	50-60				py			- massive py and barite
75		2	60-70				py			- barite white, crystalline, massive
77		3	70-80				py			- py - massive sp. of barite - matrix
85.5		3	80-90				py			
86		3	90-100				py			
102.2		4	100-110				py			barite, massive pyrite core badly broken, polished surfaces.
115		4	110-120				py			Grey, green chert → massive, fine grained. - py - hairline fractures, brecciated frags, stringers, and massive

chert
barite
cherty argillite

Length 348' Contractor Drillcore
 Bearing 60° Core _____ Stored _____
 Dip _____ Casing _____
 Lot _____ Logged by NS PDP Date June 17, 1990
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____

**J.C. STEPHEN
EXPLORATIONS
LTD.**

Hole No. DDH 80 B-1
 Project DC SANDDATE
 Claim BAR GROUP
 Page 1 of 3

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

SCALE 1" = _____	BOX No.	% CORE RECOVERED	DRILLING INTERVAL	ALTERATION	GEOLOGY	MINERAL	FRACTURING	Purpose Comment	SURVEY:		ANGLE	
									Footage	Bearing	Reading	Corrected
130	6		154					Massive py				
140	6		157									
150			161									
160			164									
170			167									
180			171									
190			174									
200			177									
210			180									
220	9		183									
230	9		186									
240	9		189									
250	9		192									
260	9		195									
270	9		198									
280	9		201									
290	9		204									
300	9		207									
310	9		210									
320	9		213									
330	9		216									
340	9		219									
350	9		222									
360	9		225									
370	9		228									
380	9		231									
390	9		234									
400	9		237									
410	9		240									
420	9		243									
430	9		246									
440	9		249									
450	9		252									
460	9		255									
470	9		258									
480	9		261									
490	9		264									
500	9		267									
510	9		270									
520	9		273									
530	9		276									
540	9		279									
550	9		282									
560	9		285									
570	9		288									
580	9		291									
590	9		294									
600	9		297									
610	9		300									
620	9		303									
630	9		306									
640	9		309									
650	9		312									
660	9		315									
670	9		318									
680	9		321									
690	9		324									
700	9		327									
710	9		330									
720	9		333									
730	9		336									
740	9		339									
750	9		342									
760	9		345									
770	9		348									
780	9		351									
790	9		354									
800	9		357									

Length 348' Contractor DRILCORE
 Bearing _____ Core _____ Stored _____
 Dip 060° Casing _____
 Lat. _____ Logged by MS. PFP Date JUNE 17/80
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____
 Hole No. DDH 80-B-1
 Project _____ Claim _____
 Page 2 of 3

J.C. STEPHEN
EXPLORATIONS
LTD.

Cong. } brecciated, py (dissem)
 } v. fine frags. to pebble size
 } ang. to std. frags → elongated.

Massive py
 Dark grey to black cherty argillite

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

SCALE 1" = 10' 760 270 280 290 300 310 320 330 340 350 360	BOX No.	% CORE RECOVERED	DRILLING INTERVAL	ALTERATION	GEOLOGY	MINERAL	FRACTURING	Purpose Comment
						Py		fractures - 70° - py brecciated and interbanded with barite "zebra ore", also fracture filling. - py runs w # to fractures - lenses of cong ~ 1" - minor - V. fine grained dark grey cherty argillite.
	11		287			Py Sp		Grey-green chert. - massive Py; ang frags. of py - sp. (285)
	12		291.5			Py		Grey cherty argillite. - and polished surfaces - diss. py blebs, py in fractures. - interbedded w chert. * Serpentinized? chloritized? fault gouge or dyke - contact sharp - 90° - lighter green w dark green specks - stringers of weathered pinkish carbonate? (or dolomite? effuses upon scratching + hard)
	12		306					Dark grey, cherty argillite. - fractures 40° filled w grey-green chert. - irregular blebs of buff-colored dolomite, and as fracture infilling. - few lenses of cong.
	13		325			Py		← massive qtz. - irregular contact Erg: w Py fracture veins E.O.H. 348'
			338.5					
			353					

Length 348' Contractor DELCORE
 Bearing _____ Core _____ Stored _____
 Dip 660° Casing _____
 Lat. _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____

Hole No. DDH 80B-1
 Project PAK GROUP
 Claim _____
 Page 3 of 3

J.C. STEPHEN
EXPLORATIONS
LTD.

chert
 chert and py
 argillite
 Py

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

DRILLING INTERVAL	% CORE RECOVERED	BOX NO.	SCALE 1" = 10'	ALTERATION	GEOLOGY	MINERAL	FRACTURING	Purpose Comment
0								CASING - OVERBURDEN - ROCK FRAGMENTS
12.5	20%	1						GREY GREEN CHERT, COLLECTION OF SMALL FRAGMENTS
16	20%	1						GREY GREEN CHERT, LITTLE PY SMALL FRAGMENTS
21	2	1						GREY GREEN CHERT? BARITE, PY, LIMONITE ON FRACTURES
26	15%	1						GREY GREEN CHERT, LITTLE BARITE, PY, LIMONITE ON FRACTURES
31	12%	1						MAINLY PY, BARITE, LIMONITE ON FRACTURES BANDING IRREGULAR AT 30" TO 70" TO CORE
33 1/2	40%	1						GREY GREEN CHERT, LITTLE BARITE, PY, LIMONITE, SMALL FRAGMENTS
35	75%	1						WHITE BARITE, FINE PY SMALL FRAGMENTS
36	30%	1						MAINLY WHITE BARITE, PY, REMNANTS GREY GREEN CHERT. BROKEN CORE
40	30%	1						FRAGMENT GREY GREEN CHERT
41	10%	1						GREY GREEN CHERT, BARITE, PY, BROKEN
42.8	70%	1						DARK GREY TO BLACK FINE GR. SHALE, IRREGULAR BREAKING.
44.4	70%	1						44.4-114 DARK GREY CHERTY SEDIMENT. IRREGULAR INDISTINCT BEDDING OR BANDING IN PLACES. IRREGULAR ZONES OR FRAGMENTS OF LIGHT GREY (PEPPER & SALT) GRIT WITH SMALL ANGULAR CHERT AND BLACK SHALE FRAGMENTS MAINLY BETWEEN 60 AND 66'.
	100%							FORMATION WELL FRACTURED AND MINERALIZED WITH PYRITE-BARITE

Length _____
 Bearing ARM North (340°)
 Dip -60°
 Lat. 48+00N 47N67W
 Dep. 12+00W 12+00W
 Elev. 3907'
 O.B. Thickness _____
 B.R. Thickness _____

Contractor DRILCOR
 Core BO
 Casing _____
 Logged by JOS
 Location _____
 Date _____
 Started _____
 Finished _____

Hole No. BO B-1
 Project DE SYNDICATE
 Claim BAR 1
 Page 1 of _____

J.C. STEPHEN
EXPLORATIONS LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose Comment

ZONES OF RELATIVELY MASSIVE Py
71-72; 74.5-77.8, 85-86, 115-119.4

SLICKENSIDES ON SLIP AT 45° TO CORE, SMEARED Py ON SURFACES

MINOR GALENA ON FRACT 102.5'

OCCASSIONAL PALE SPHALERITE ON FRACTURES

111' AND 113.5-115 CORE JUGGY & SHEARED - FAULT AT 60°? TO CORE

11A-154
PALE CREAMY GRAY SILICEOUS SEDIMENT - VARIABLE HARDNESS
FINE GRAINED, NUMEROUS FINE FRACTURES AND IRREGULAR ZONES Py
(GRAY GREEN CHERT)

GEOLOGY

MINERAL

FRACTURING

Py
Ga
Sp
Ss
Mn

ALTERATION

SCALE
1" = 10'

BOX No.

% CORE RECOVERED

DRILLING INTERVAL

Length _____ Contractor _____

Bearing _____ Core _____ Stored _____

Dip _____ Casing _____

Log: _____ Logged by _____ Date _____

Dep. _____ Location _____

Elev. _____

O.B. Thickness _____ Started _____ Finished _____

B.R. Thickness _____ Started _____ Finished _____

Hole No. 80 B-1

Project J.C. SYNDICATE

Claim BAR 1

Page 2 of _____

J.C. STEPHEN
EXPLORATIONS
LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose Comment

30% py in IRREGULAR ZONES & FRACTURES 119.3 - 124'
 THEN LESS PY ON IRREGULAR FRACTURES TO 153.8'

.....

133.5 - 135.5; 141-142 GRIT ZONES - INCLUDE ANGULAR FRAGMENTS
 Fg PYRITE

.....

153.8 - 166 MASSIVE Py LITTLE BARITE
 30% PY IN IRREGULAR ZONES 1.5 AND 2.5 FEET ON EITHER SIDE

.....

BEDDING AT ABOUT 45° TO CORE - INDISTINCT GENERALLY

GEOLGY

MINERAL

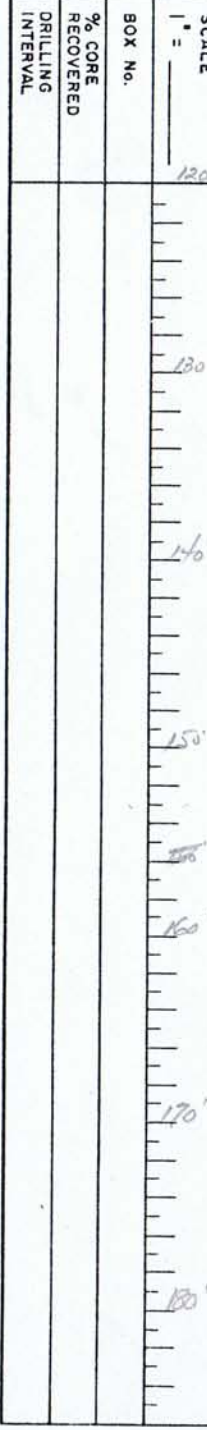
Py

Py

Py

FRACTURING

ALTERATION



BOX No. _____

% CORE RECOVERED _____

DRILLING INTERVAL _____

Length _____ Contractor _____

Bearing _____ Core _____ Stored _____

Dip _____ Casing _____

Lt. _____ Logged by _____ Date _____

Dep. _____ Location _____

Elev _____

O.B. Thickness _____ Started _____ Finished _____

G.R. Thickness _____ Started _____ Finished _____

Hole No. 80 B-1

Project _____

Claim _____

Page 3 of _____

J.C. STEPHEN
EXPLORATIONS LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose
Comment

Pyrite in fractures and irregular seams
Pyrite is fractured or brecciated + healed with Qtz
184' little red dusting of Hematite? on fracture

Fine grey - creamy grey green irregularly bedded cherty sed
bedding at about 70° to core,
Weak py min on small fractures

221-223 NEARLY MASSIVE Py

230.8 - 235.5 40% Pyrite

235.5 - 247.5 MASSIVE Pyrite, Brecciated, spots + seams of Qtz

GEOLOGY

MINERAL

Py

Py

Py

FRACTURING

ALTERATION

SCALE

1" =

150

190

200

210

220

230

240

BOX No.

% CORE
RECOVERED

DRILLING
INTERVAL

Length

Bearing

Dip

Lat.

Dep.

Elev.

O.B. Thickness

B.R. Thickness

Contractor

Core

Casing

Logged by

Location

Date

Started

Started

Stored

Finished

Finished

Finished

Finished

Finished

Finished

J.C. STEPHEN
EXPLORATIONS
LTD.

Hole No.

80 B-1

Project

Claim

Page

4 of

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

SCALE 1" = _____ 240	BOX No.	% CORE RECOVERED	DRILLING INTERVAL	ALTERATION	FRACTURING	MINERAL	GEOLOGY	Purpose Comment
240						Py	247.5	GREY ARGILLITE. SHORT SECTIONS THIN BEDDED ALTERNATING LIGHT + DARK GREY - APPEARS VARVED. BEDDING IRREGULAR - OFTEN DISRUPTED BY COARSER IRREGULAR ZONES OR FRAGMENTS - CONTACTS SHARP BUT VERY IRREGULAR
250							GRIT	255.5-256.6 GREY GRIT. WITH PYRITE
260								BEDDING AT 70° TO CORE IRREGULAR FRACTURE FILLING AND WEAK ZONES PYRITE - CROSS FRACTURED ZEBRA STYLE
270							GRIT	
280								CHERT MORE COMMON TOWARD END OF SECTION
290							287.5	BEDDING QUITE IRREGULAR - SOME GRAPHITIC CHERT.
300								GREY CHERT AS 178-221 UP TO 15% Py ON IRREGULAR FRACTURES. MINERALIZATION ALONG CORE 291'-294'

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lot. _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____
 Hole No. 80 B-1
 Project _____
 Claim _____
 Page 5 of _____

J.C. STEPHEN
EXPLORATIONS
LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

DRILLING INTERVAL	% CORE RECOVERED	BOX No.	SCALE 1" = _____	ALTERATION	FRACTURING	MINERAL	GEOLOGY	Purpose Comment
			300					
			310				305.7	305.7 - 318 DARK GREEN INTRUSIVE DYKE - PORPHYRITIC WITH DARK GREEN TO BLACK AUGITE ?? CRYSTALS. FIRST CONTACT CHILLED + FINEGRAINED SECOND CONTACT SHEARED. DYKE APPEARS SHEARED AND SERPENTINIZED. SOME QTZ-CARBONATE VEINING.
			320				318	DARK GREY TO BLACK IRREGULARLY BEDDED CONGLOMERATIC SILTSTONE BEDDING AT ABOUT 60-65°
			330					THIN SEAMS // TO BEDDING WITH PYRITE
			340				GRIT	333.5-341 CHERT GRIT, 5" QZ ON FIRST CONTACT, SECOND SHARP IRREGULAR PYRITE FILLED FRACTURES
	70%							CORE BROKEN AT END OF SECTION
	50%						348	END OF HOLE 348'

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lat. _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____
 Hole No. 50 B-1
 Project _____ Claim _____
 Page 6 of _____

J.C. STEPHEN
EXPLORATIONS
LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

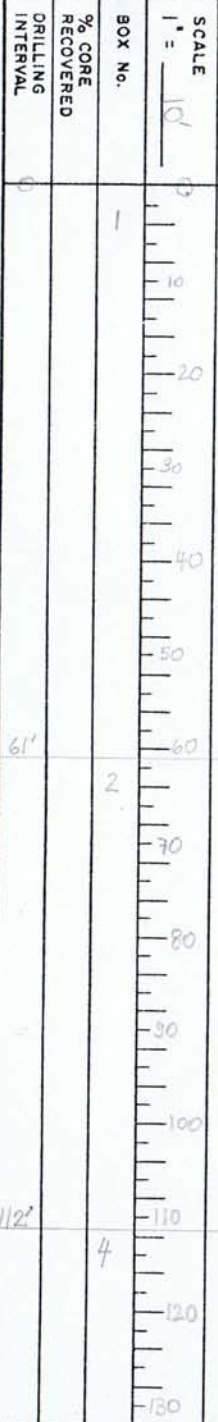
Purpose Comment

0-61' Chert; severely weathered. badly fractured; limonite (orange-brown) staining visible; fracturing at 90° minor amt. of disseminated pyrite visible.

61'-112' Gray-green chert. Pyrite visible in veins; also disseminated chert v. fine grained, massive in appearance salmon pink-coloured mineral visible in fractures in chert - fractures have been infilled with barite which is slightly vuggy.

112'-140' Brecciated chert v. fine grained grey chert matrix with salmon-pink coloured angular fragments of siliceous material (chert?) pyrite visible in fractures;

ALTERATION	MINERAL	FRACTURING	GEOLOGY
	Py		
	Py		
	Py		



Length 129' Contractor DeLcor

Bearing 60° Core _____ Stored _____

Dip 60° Casing _____

Lot _____ Logged by MS BOP Date June 17/80

Dep. _____ Location _____

Elev. _____

O. B. Thickness _____ Started _____ Finished _____

B. R. Thickness _____ Started _____ Finished _____

Hole No. DDH 80 B-2

Project DC SYNDICATE

Claim BAR GROUP

Page 1 of 3

J.C. STEPHEN
EXPLORATIONS LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

DRILLING INTERVAL	% CORE RECOVERED	BOX No.	SCALE 1" = 10' 130'	ALTERATION			MINERAL	GEOLOGY	Purpose Comment
140'			140'				Py	140'-159' Barite Massive, finely crystalline; grey in colour red-brown weathering stain visible Pyrite associated with barite; found as thin veins	
159'			159'				Py	159'-231' Quartzite. massive; very fine grained; grey to green green alteration visible oriented 50° to core possibly epidote? appears as bands and streaks within the quartzite. minor disseminated pyrite; also in stringers; white quartz as blebs and veins; blebs of quartz showing irregular contacts. at depth of 232': breccia. angular fragments of altered quartzite (possibly serpentinized?) fragments off-white in colour in a pale green matrix; pyrite within brecciated quartzite surrounds angular fragments as stringers. Some of matrix of breccia is barite; barite also at 281' as a band within the quartzite	

Length _____ Contractor DALCORE
 Bearing _____ Core _____ Stored _____
 Dip 60° Casing _____
 Lat. _____ Logged by DP & WS Date June 17, 1980
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____

J.C. STEPHEN
EXPLORATIONS
LTD.

Hole No. 80-B-2
 Project D.C. SYNDICATE
 Claim BAR GROUP
 Page 2 of 3

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose Comment

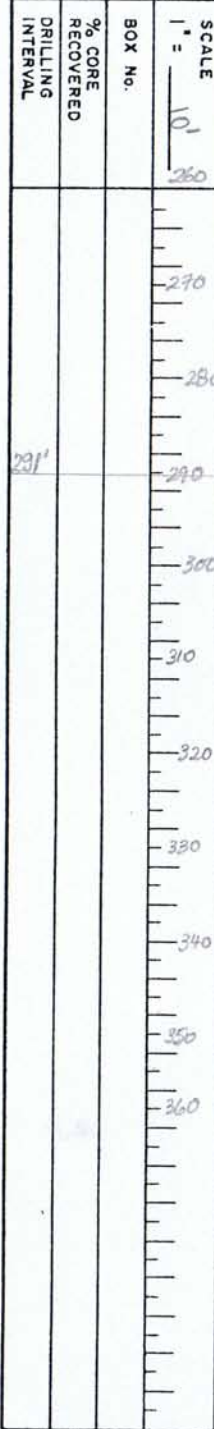
END OF HOLE 291'

GEOLOGY

MINERAL

FRACTURING

ALTERATION



SCALE
1" = 10'
260

BOX No.

% CORE RECOVERED

DRILLING INTERVAL

Length _____ Contractor _____

Bearing 60° Core _____ Stored _____

Dip _____ Casing _____

Lat. _____ Logged by NS & PP Date June 18, 1980

Dep. 291' Location _____

Elev. _____

O. B. Thickness _____ Started _____ Finished _____

B. R. Thickness _____ Started _____ Finished _____

Hole No. 80-B-2

Project DC SYNDICATE

Claim BAR GROUP

Page 3 of 3

J.C. STEPHEN
EXPLORATIONS
LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose Comment
0'- Chert with Barite; light grey in colour; chert massive, very finely crystalline; barite crystalline; up to first 67' of core rust-coloured weathering stain visible. Pyrite in stringers; has been fractured; also massive; Sphalerite (minor) at 59' in a small fracture - yellow brown in colour. Galena @ 82' within barite; Py - v. fine grained - greenish-gold color. Barite - as fracture-filling; looks slightly more vuggy ↓ Chert + barite 47 68 - Massive py, fine-grained, greenish-grey gold. - associated to barite 64 Chert is more pinkish, v-fine grained, massive

ALTERATION	MINERAL	FRACTURING	SCALE	BOX No.	% CORE RECOVERED	DRILLING INTERVAL
	Py Sphal Gal		1" = 10'	1		0
						17
						130

Length 287' Contractor DRILCORE
 Bearing VERTICAL; 90° Core _____ Stored _____
 Dip _____ Casing _____
 Lot. _____ Logged by PP + NS Date JUNE 18, 1980
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____

Hole No. 80-B-3
 Project DC SYNDICATE
 Claim BNR GROUP
 Page 1 of 3

**J.C. STEPHEN
EXPLORATIONS
LTD.**

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose Comment

132' - 257' Cherty Argillite mineralization found as:

- Sphalerite: finely crystalline, honey coloured blebs
- Pyrite: v. fine grained, minute fragments disseminated;

Cherty argillite light grey to grey in colour, bedding @ 35°

Black band of cherty argillite from 174.5' to 176' minor fractures infilled with barite;

@ 178' argillite with wavy banding; alternating layers of pyrite and argillite.

angular fragments of

- 193' core badly broken, cherty argillite in a buff coloured
- 194' soft matrix lens of fine grained conglomerate

194.5' - 213' Conglomerate; small rounded fragments within a chert matrix;

219' small breccia band - angular fragments of cherty argillite within lighter grey matrix;

Pyrite found along fine fractures in cherty argillite.

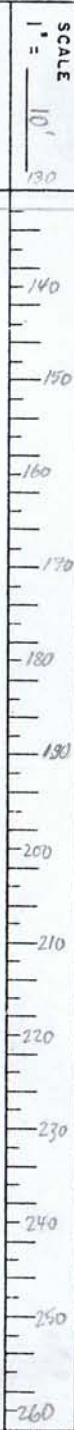
246' Quartz? white mineral as lense in argillite with small vugs which are stained orange-brown rust coloured.

MINERAL

Sphal

Py

ALTERATION



SCALE 1" = 10'

BOX No.

% CORE RECOVERED

DRILLING INTERVAL

132'

Length 287' Contractor DRILCORE

Bearing 90° Core _____ Stored _____

Dip 90° Casing _____

Lot _____ Logged by BP + MS Date JUNE 18, 1980

Dep. _____ Location _____

Elev _____

O. B. Thickness _____ Started _____ Finished _____

B. R. Thickness _____ Started _____ Finished _____

Hole No. 80-B-3

Project DC SYDICATE

Claim BIR GRAP

Page 2 of 3

J.C. STEPHEN
EXPLORATIONS
LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose Comment

0-33.5 CASING

33.5-45 PALE GREY TO WHITE SILICEOUS "CHERT" WITH VERY LITTLE DISSEMINATED CUBIC PYRITE. FAIRLY WELL FRACTURED WITH LIMONITE ON FRACTURES.

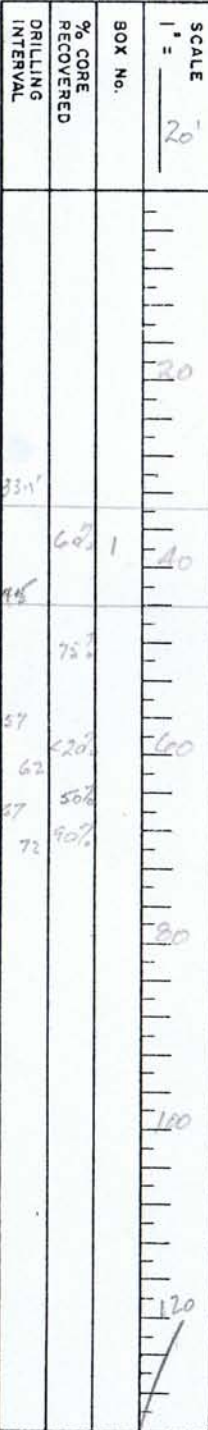
45-142 WHITE SILICEOUS CHERT, BARITE, PYRITE CORE BROKEN

GEOLOGY

MINERAL

FRACTURING

ALTERATION



Length _____

Bearing N 45° E

Dip _____

Lot: GR10 62+65N

Dep: CRD 20+00W

Elev: 5713

O.G. Thickness _____

B.R. Thickness _____

Contractor _____

Core _____

Casing _____

Logged by _____

Location _____

Date _____

Started _____

Finished _____

Hole No. 40-B-3

Project DC SWD

Claim BAR 4

Page 1 of _____

J.C. STEPHEN
EXPLORATIONS LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose Comment

GEOLOGY

MINERAL

FRACTURING

ALTERATION

142-177
 GREY TO GREENISH GREY FINE GRAINED CHERT OR
 ARGILLACEOUS CHERT, BEDDING AT 35°, FAIRLY
 MASSIVE - WEAK FRACTURING WITH PYRITE

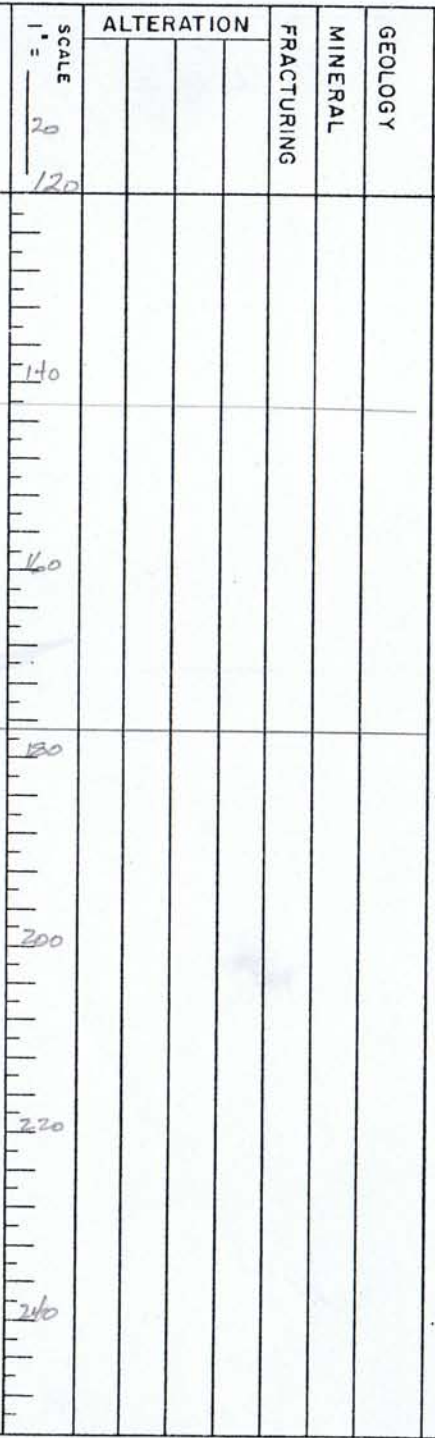
174.5-175.6 DARK GREY CHERTY ARGILLITE

177-237 DARK GREY ARGILLITE, BEDDING SOMEWHAT VARIABLE
 60° AT 180', 45° @ 215' LOCALLY UP TO 75° NEAR 270'
 OCCASIONAL FRACTURES WITH PYRITE

SECTIONS VARY FROM FINE GRAINED GRITTY ARGILLITE TO
 IRREGULARLY THIN BEDDED TO MASSIVE.

241-248 NARROW Q15, Q16, CARB. VEINING AT 15° TO CORE

287' END HOLE



SCALE 1" = 20'

BOX No. _____

% CORE RECOVERED _____

DRILLING INTERVAL _____

Length _____ Contractor _____

Bearing _____ Core _____ Stored _____

Dip _____ Casing _____

Lot _____ Logged by _____ Date _____

Dep. _____ Location _____

Elev. _____

O. B. Thickness _____ Started _____ Finished _____

B. R. Thickness _____ Started _____ Finished _____

Hole No. B-3

Project _____

Claim _____

Page _____ of _____

J.C. STEPHEN
EXPLORATIONS
LTD.

SURVEY:		ANGLE	
Footage	Bearing	Reading	Corrected

Purpose Comment

128-129 - Core badly broken. Fragments remaining

130-5 Massive py

136-146 - Py in stringers

150' - Bedding 034

Core badly broken.

Black cherty argillite

Py filling hairline fractures

1" wide Qtz vein

Echo 188'

MINERAL

FRACTURING

ALTERATION

SCALE

1" = 120'

BOX No. 5

% CORE RECOVERED

DRILLING INTERVAL

136

146

150

155.5

161

166 50%

173

179

182

188 20%

Length 188'

Bearing ~~4424~~

Dip 75

Lot

Dep.

Elev

O.B. Thickness

B.R. Thickness

Contractor DRILCORE

Core

Casing

Logged by NS PJP

Location

Started

Finished

Date JUNE 19, 1980

Hole No. DDH 80 B-4

Project DC SYNDICATE

Claim BARE GROUP

Page 2 of 2

J.C. STEPHEN
EXPLORATIONS
LTD.

From	To	Width	Recovery		Sample	Assays				
			ft./lbs.	%		Zn	Ag	Au	Ba%	Pb%
101	107	6'			4838A	0.03	0.70		0.87	
107	112	5'			39A	0.02	0.01	0.003		
137	144	7'			4840A	0.01	0.25	0.003		0.01
144	151	7'			41A	0.01	0.18	0.003		0.02
151	159	8			42A	0.01	0.30	0.003		0.01
280.5	283.0	2.5			4843A	0.01	0.01	0.003	28.1	

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lat. _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____

**J.C. STEPHEN
EXPLORATIONS
LTD.**

Hole No. 80 B-2
 Project _____
 Claim BARGER
 Page _____ of _____

From	To	Width	Recovery		Sample	Assays					
			ft./lbs.	%		Zn	Ag	Cu	WO ₃	Sn	Pb%
27	33	6.0			85754 B	<0.01	0.08	<0.01	0.02	<0.01	
33	39	6.0			5263 B	0.06	0.09				
39	43	4.0			85755 B	<0.01	0.12	<0.01	0.02	<0.01	
43	54	11.0			5264 B	0.04	0.07				0.02
54	58	3.0			85756	0.34	0.14	<0.01	0.03	<0.01	
57	62	5.0			5265 B	0.59	0.09				0.02
62	66	4.0			85757 B	0.08	0.06	<0.01	0.02	<0.01	
72	83	11.0			5266 B	1.17	1.30				0.20
83	91	8.0			85758 B	0.02	0.14	<0.01	<0.01	<0.01	
91	96	5.0			759	0.01	0.08	<0.01	<0.01	<0.01	
96	100	4.0			5267 B	0.02	0.25				
100	102	2.0			85760 B	0.02	0.08	<0.01	<0.01	<0.01	
102	108	6.0			761	0.03	0.12	<0.01	0.02	<0.01	
108	113	5.0			762	0.01	0.08	<0.01	0.02	<0.01	
113	119	6.0			5268 B	0.44	0.17				
119	121	2.0			85763 B	0.01	0.18	<0.01	0.01	<0.01	
121	133	12.0			5269 B	0.17	0.42				
133	136	3.0			85764	0.02	0.06	<0.01	<0.01	<0.01	
136	146	10.0			5270 B	0.79	0.93				
146	151	5.0			85765	0.11	0.32	<0.01	<0.01	<0.01	
151	160	9.0			5271 B	0.02	0.36				
168.5	177.5	9.0			85766 B	0.07	0.48	<0.01	<0.01	<0.01	
177.5	183.5	6.0			767	0.20	0.34	<0.01	<0.01	<0.01	
183.5	188.0	4.5			768	0.30	0.20	<0.01	<0.01	<0.01	

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lat. _____ Logged by _____ Date _____
 Dep _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____

J.C. STEPHEN EXPLORATIONS LTD.
 Hole No. 80 B-4
 Project DC SYND
 Claim BAR GROUP
 Page _____ of _____

From	To	Width	Recovery		Sample	Assays							
			ft./lbs.	%		Cu	Zn			WO ₃	S ₂		
27	33	5'			85754B	<0.01	<0.01			0.02	<0.01		
39.5	44	4.5'			85755B	<0.01	<0.01			0.02	<0.01		
55	58	3			85756D	<0.01	0.34			0.03	<0.01		
63	66	3			85757B	<0.01	0.08			0.02	<0.01		
83	91	8'			85758B	<0.01	0.02			<0.01	<0.01		
91	96	5'			85759B	<0.01	0.01			<0.01	<0.01		
98.5	108	3.5'			85760B	<0.01	0.02			<0.01	<0.01		
102	108	6			85761B	<0.01	0.03			<0.02	<0.01		
108	114	6			85762B	<0.01	0.01			0.02	<0.01		
119	121	2			85763B	<0.01	0.01			0.01	<0.01		
133	136	3			85764B	<0.01	0.02			<0.01	<0.01		
146	151	5			85765B	<0.01	0.11			<0.01	<0.01		
168.5	177.5	9			85766B	<0.01	0.07			<0.01	<0.01		
177.5	183.5	6			85767B	<0.01	0.20			<0.01	<0.01		
183.5	188	4.5			85768B	<0.01	0.30			<0.01	<0.01		

Length _____ Contractor _____
 Bearing _____ Core _____ Stored _____
 Dip _____ Casing _____
 Lat. _____ Logged by _____ Date _____
 Dep. _____ Location _____
 Elev. _____
 O.B. Thickness _____ Started _____ Finished _____
 B.R. Thickness _____ Started _____ Finished _____

J.C. STEPHEN
EXPLORATIONS
LTD.

Hole No. 0-4
 Project BAR
 Claim BAR CLAIMS
 Page _____ of _____

DDH 80 B-4
-75°

Zn Ag Pb Ba

.01			-6.0
.06	.09		-6.0
.01			-4.0
.04	.07	.02	-11.0
.34			-3.0
.59	.09	.02	-5.0
.08			-4.0
1.17	1.30	.20	-11.0
.02			-8.0
.01			-5.0
.02	.25		-4.0
.02			-2.0
.03			-6.0
.01			-5.0
.44	.17		-6.0
.01			-2.0
.17	.42		-12.0
.02			-3.0
.79	.93		-10.0
.11			-5.0
.02	.36		-9.0
.07			9.0
.20			6.0
.30			4.5

CHERT
PEBBLE
DINMLOK
KERATE

188'

SECTION 4
 SECTIONED FROM
 EAST OF SECTION

DDH 80 B-1
 - 60°

Elev 3800

	Fe	Zn	Ag	Pb	Ba
5.6	.02	.20			13.3
6.0	.01	.18			20.8
10.0	.04	.18			7.0
5.0	.01	.24			19.9
3.5	.02	.20			16.6
3.7	.15	.32	.05		18.3
2.8	1.88	.52	.12	.04	15.9
5.0	.02	.24			12.2
10.0	.01	.16	.03		
9.5	.08	.16	.04		
4.5	.06	.24			
4.3	.07	.28			
4.7	.01	.10			
10.0	.01	.08			
10.0	.01	.01			
8.4	.02	.06			
7.6	.12	.20	.06		
8.0	.06	.36	.06		
10.0	.01	.10			

2.0	.01	.32
7.8	.01	.14
4.7	.05	.10
5.5	.05	.28
6.5	.01	.32
10.0	.01	.06

10.0 - .27 .08

348'

J.C. STEPHEN EXPLORATIONS LTD
 D.C. SYNDICATE
 BAR CLAIM GROUP
 VERTICAL SECTION 12100W
 FACING EASTERLY

SCALE 1" = 50'

JUNE 1980

DDH 80 B-3
-90°

SILIC
CHERT

Fe - Zn Ag Pb Ba

5.0 - .01 - .02 3.42

7.0 - .02 - .01 6.11

5.0 - .01 - .01 3.54

10.0 - .01 - .01 14.0

10.0 - .04 - .05 30.1

10.0 - .01 - .01 22.8

10.0 - .02 - .01 17.2

5.0 - .07 - .16 - .03 20.9

5.0 - .19 - .01 - .01 27.1

10.0 - .02 - .01 26.3

10.0 - .06 - .01 23.0

10.0 - .04 - .01 0.83

CHERT BARITE PYRITE

GREY CHERT

ARGILLITE

287'

Elev 3800

DDH 80 B-2

-60°

Fe - Zn Ag Pb Ba

6.0 - .03 .10 .87

5.0 - .02 .01

7.0 - .01 .25 .01

7.0 - .01 .18 .02

8.0 - .01 .30 .01

2.5' - .01 .01 28.1

291'

Elev 3600

J.C. STEPHEN EXPLORATIONS LTD.

D.C. SYNDICATE

BAR 4

Sample No.	Length	Ag.	Pb.	Zn.	Ba.
262Q	5'	0.12	0.04	0.04	25.0
263Q	7'	0.13	0.09	0.03	12.8
264Q	8'	0.10	0.13	0.20	19.7
265Q	6'	0.12	0.01	0.05	45.0
266Q	6'	0.20	0.01	0.01	31.6
267Q	13'	0.16	0.03	0.02	14.9
268Q	8'	0.54	0.49	1.10	35.7
269Q	8'	0.34	0.16	0.37	25.6
270Q	4'	0.35	0.10	0.22	34.9
271Q	4'	0.60	0.11	0.35	43.9

BAR 2

Sample No.	Length	Ag.	Pb.	Zn.	Ba.
260Q	11'	0.14	0.04	0.01	13.5
261Q	12'	0.05	0.01	0.02	9.9
258Q	11'	0.14	0.03	0.02	55.0
259Q	12'	0.08	0.03	0.01	56.2

No Bedrock

Sample No.	Length	Ag.	Pb.	Zn.	Ba.
253Q	15'	0.26	0.11	0.01	42.2
254Q	8'	0.67	0.25	0.01	34.1
255Q	8'	0.69	0.22	0.01	36.4
256Q	12'	0.30	0.09	0.01	42.1
257Q	12'	0.32	0.09	0.01	43.9

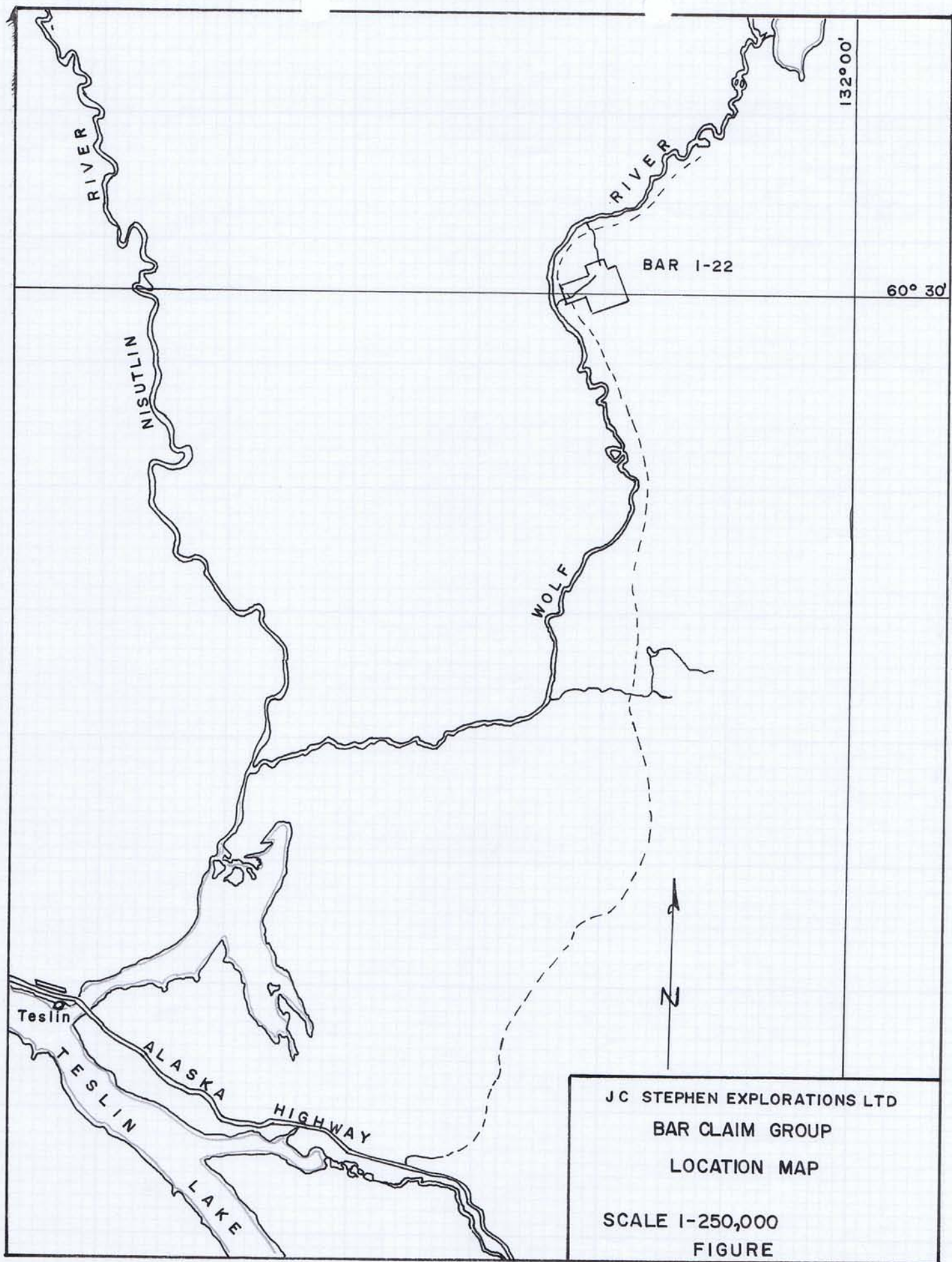
BAR 3

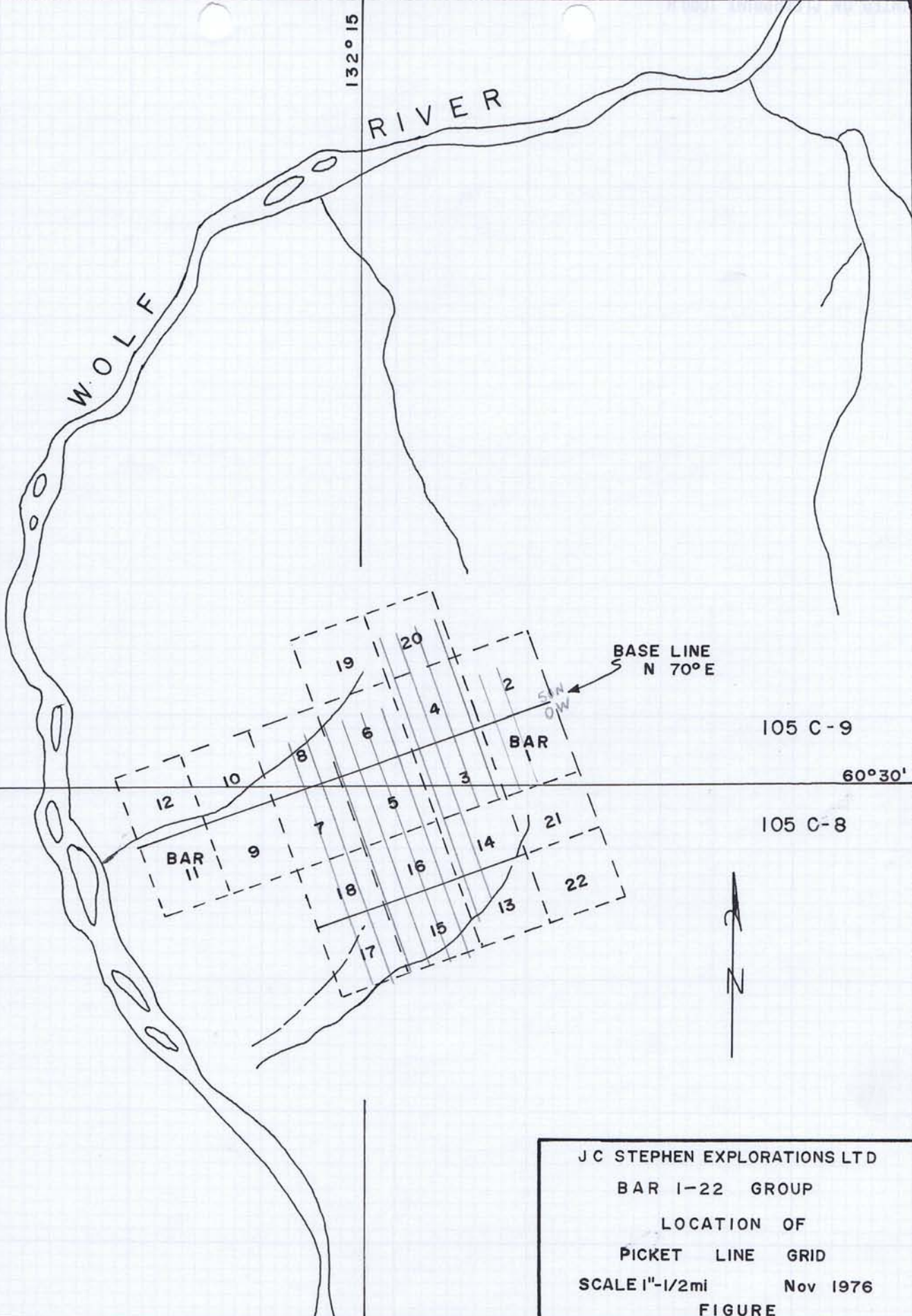
BAR 1

- 12 - Barite Zone
- 7 - Grey-green Chert
- 6 - Chert pebble Conglomerate
- 4 - Grey Chert



J C STEPHEN EXPLORATIONS LTD
 BAR CLAIM GROUP
 ROCK TRENCHES
 Scale 1"=200'
 Nov 1978
 FIGURE





J C STEPHEN EXPLORATIONS LTD
 BAR 1-22 GROUP
 LOCATION OF
 PICKET LINE GRID
 SCALE 1"-1/2mi Nov 1976
 FIGURE



P. O. Box 269
Watson Lake, Yukon
YOA 1C0

23 July, 1980

Your file *Votre référence*

Our file *Notre référence*

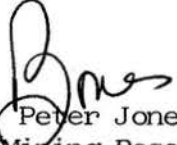
J. C. Stephen Explorations Ltd.
c/o Geraghty's Lodge
Swift River, Yukon

Dear Sir:

We have received Diamond Drill Logs for drilling done on the BAR claims.
Would you kindly advise where the drill core is being stored.

We have also received the \$10.00 required for filing fees.

Yours truly,


G. Peter Jones
A/Mining Recorder
Watson Lake Mining District

PLM

STEPHEN EXPLORATIONS LTD.

1124 West 15th Street, North Vancouver, B.C. V7P 1M9

(604) 988-1545

July 31, 1980

Mr. James Vinnell
Vancouver Petrographics Ltd.
8887 Nash Street
P.O. Box 39
Fort Langley, B.C.
VOX 1J0

Project: DC Syndicate

Dear Mr. Vinnell:

We submit five core specimens for thin section, and/or polished section preparation and examination.


These are from a barite, pyrite, minor Pb Zn Ag occurrence north east of Teslin, Yukon. Structure, character and genesis of the deposit are obscure with sulphides (99% pyrite) apparently filling fracture and replacement zones well beyond and below the barite horizon. More than one period of brecciation of sulphides is indicated. There is disagreement as to whether there is any volcanic component to some of the host rock. Any suggestions would be appreciated.

One interpretation of the stratigraphy is as follows:

0 - 200'	Grey green chert	pyrite
0 - 80'	Barite	pyrite
	Chert, quartz etc.	pyrite
100 - 400'	Grey chert pebble conglomerate - grit, shale and argillite beds locally.	
10 - 30'	Grey chert	
100 - 300'	White to grey limestone - chert nodules in upper portions	
100'+	Thin bedded shale	

Yours very truly

J.C. Stephen Exploration Ltd.


J.C. Stephen

JCS/ed

DOME EXPLORATION (CANADA) LIMITED

SUITE 600 - 365 BAY STREET

TORONTO, CANADA

M5H 2V9

TELEPHONE
(416) 364-3453

March 28, 1980

Mr. J. C. Stephen
J. C. Stephen Exploration Limited
1124 West 15th Street
North Vancouver, B. C.
V7P 1M9

Dear Cam:

Re: D.C. Syndicate -- BAR Claims

Today I received a letter dated March 26, 1980, on the above subject, from Bill Wolfe at Cominco.

Before replying, I would like to have your comments. Would you mind phoning me after you have read this photocopy? Perhaps this letter was copied to you, but there is no indication of such.

Sincerely,

DOME EXPLORATION (CANADA) LIMITED



G. S. W. Bruce

GSWB:rn
Enclosure

GSWB	LBH	DRS	EAP
PROJECT _____			
F1 MAR 28 1980			
<input type="checkbox"/>	PROPERTY	<input type="checkbox"/>	LEGAL
<input type="checkbox"/>	CUTTING	<input type="checkbox"/>	LEGAL
<input type="checkbox"/>	TECHNICAL	<input type="checkbox"/>	LEGAL
<input type="checkbox"/>	OTHER		



Exploration

Mr. G.S.W. Bruce
 Vice-President
 Dome Exploration (Canada)
 Suite 600
 365 Bay Street
 Toronto, Ontario
 M5H 2V9

26 March 1980

Dear Wally:

Re: BAR Claims (D.C. Syndicate)

In preparing a request for funds to support the proposed drilling of the D.C. Syndicate BAR Property, I have had occasion to review the technical data with Dave Cooke and Bruce Mawer - two of our Senior Geologists who have actually visited the property. I am not impressed by our current knowledge of the property.

We know that moderate to erratically high Pb-Zn-Ag soil anomalies overlap anomalous I.P. responses which coincide in general with barite beds containing low (0.5% Pb, 0.5% Zn, 1.5 oz Ag) metal values. No ore grade material has been identified at surface in outcrop or float. The past geological mapping has been poor quality. Bedding attitudes shown on the map are consistently west dipping although both Mawer and Cooke observed east dipping attitudes during brief property visits. There is some suggestion that bedding and schistosity have been confused. The end result is that there is no consistent opinion on (1) the nature of the mineralization (sedimentary, volcanic, vein or stratabound), or (2) the attitude or geometry of the potential target.

In short, the property is in poor shape considering that it is being brought forward for drill testing after four years. Nevertheless, I am prepared to recommend Cominco participation in the BAR drill test on the basis of the following conditions:-

- (1) A Cominco staff geologist will be on-site when drilling commences and will have the power to alter collar locations of the proposed holes.

no problem.



Mr. G.S.W. Bruce
26 March 1980
Page 2

- willing
to discuss*
- (2) In the event that positive results are obtained from the program (leading to new company formation) a meeting of participants on or before 31 October 1980 will be held to discuss transfer of exploration management commencing January 1981.

Your early response to these two items would assist us in the formulation of our budget proposal.

Best Regards,

Bill Wolfe

W.J. Wolfe
Assistant Manager
Western District

WJW:hmr



STEPHEN EXPLORATIONS LTD.

1124 West 15th Street, North Vancouver, B.C. V7P 1M9

(604) 988-1545

March 4, 1980

Drilcor Industries Ltd.
18 - 12871 Bathgate Way,
Richmond, B.C. V6V 1Y5

Attention: Mr. Tom Hasek

RE: BAR 1 - 20 105 C/8

Dear Sirs,

Further to our telephone conversation today we would like to outline circumstances regarding our proposed drilling on our BAR 1 - 20 claims in the Yukon.

This project is for the D.C. Syndicate which is funded by Dome Exploration and Cominco. Final approval of the drilling has not been received as yet from Cominco but since they suggested the drilling we expect funding will be forthcoming and should be confirmed shortly.

Four (plus) vertical, or near vertical, BQ holes are proposed on a barite lead zinc showing. These should total 1000 feet with the deepest hole to about 300 feet initially for geological information. Depending on those results additional holes will be 150 to 250 feet in depth. If results are at all encouraging we would like to get as many holes as we can with the budget.

May 13 - 1980

these claims. Late August may be poor because of water problems.

We will be sharing a 500D helicopter with Dupont this summer. This machine will be based at Swift River. I don't know at the moment when Dupont will be starting but we expect a machine to be available whenever the drill is available.

A map is provided showing location of the property approximately 30 miles north east of Teslin. We would expect to fly the camp and equipment from Teslin. Supply trips would come from Swift River.

Two drill holes are at or near the top of a low rounded hill on a "kill" zone essentially free of timber. A third hole is probably in buck brush and the fourth, so far planned, is in or close to green timber.

Camp will be established close to the drill area probably on open "kill" or gossan areas. Our representative will have his own small tent.

Water supply can be a problem during dry spells and at the best of times may be up to 2000 feet from proposed drill sites.

Mobilization and demob would be prohibitive for this footage if calculated from Vancouver. We understand you expect to be drilling for Noranda in the area and would like to arrange our schedule to co-operate with them as to timing and charges.

Due to the relatively open, fairly low, south facing nature of our ground we could start in late May. We would like to have the drilling done by September 3. If convenient for you the period May 15 - June 15 is probably best for us because of assessment dates on these claims. Late August may be poor because of water problems.

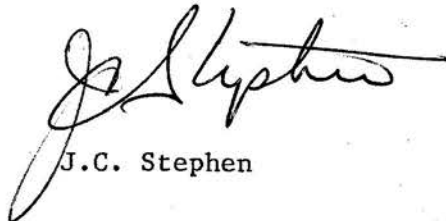
Rock types are expected to be, rhyolite, siliceous barite, grey chert pebble conglomerate, chert, limestone.

Core boxes can be supplied by this company and arrangements could be made to have fuel and groceries supplied as well.

The company will arrange radio equipment for communication with the property.

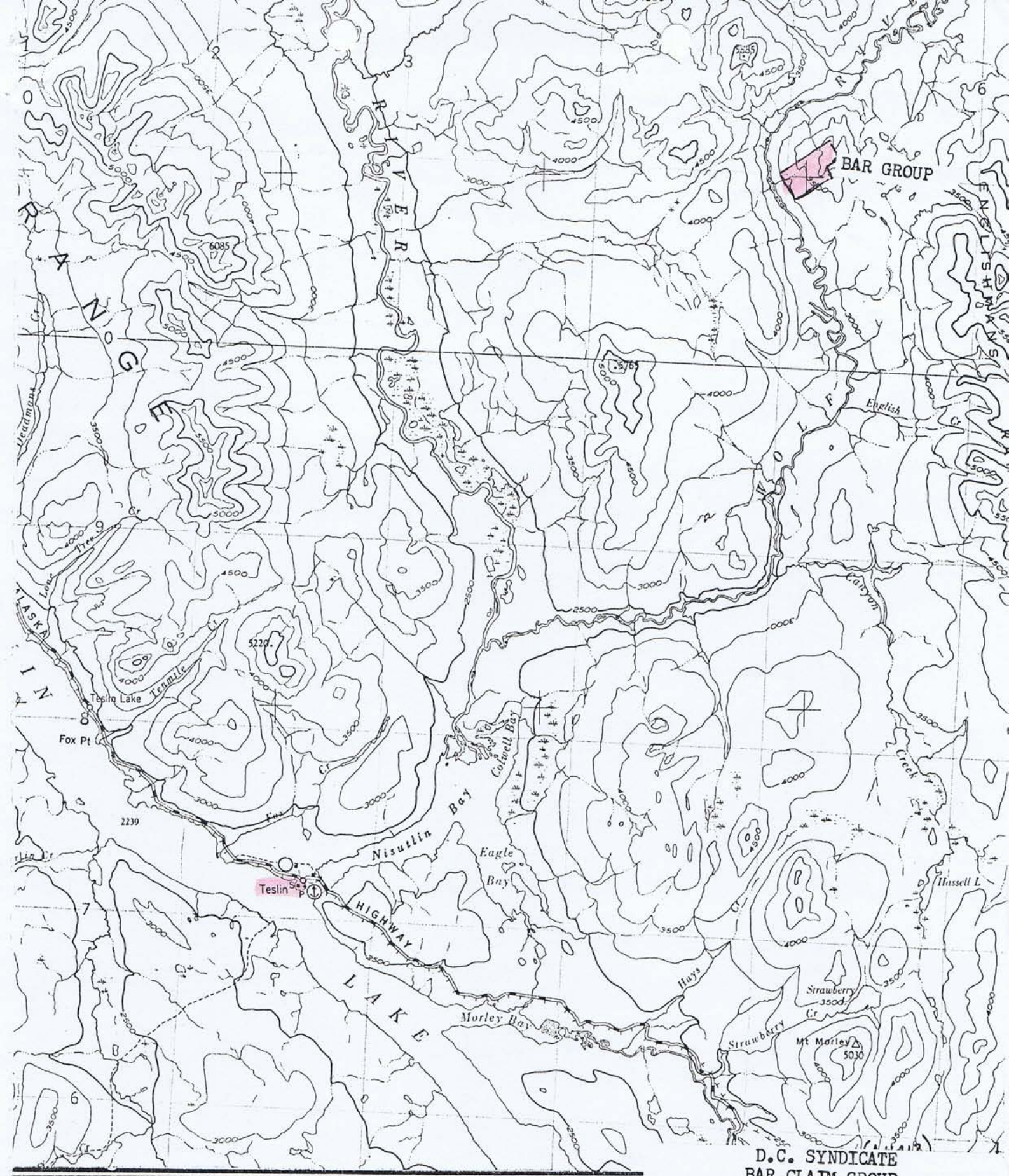
Please feel free to call me with regard to this work.

Yours very truly,
J.C. Stephen Explorations Ltd.



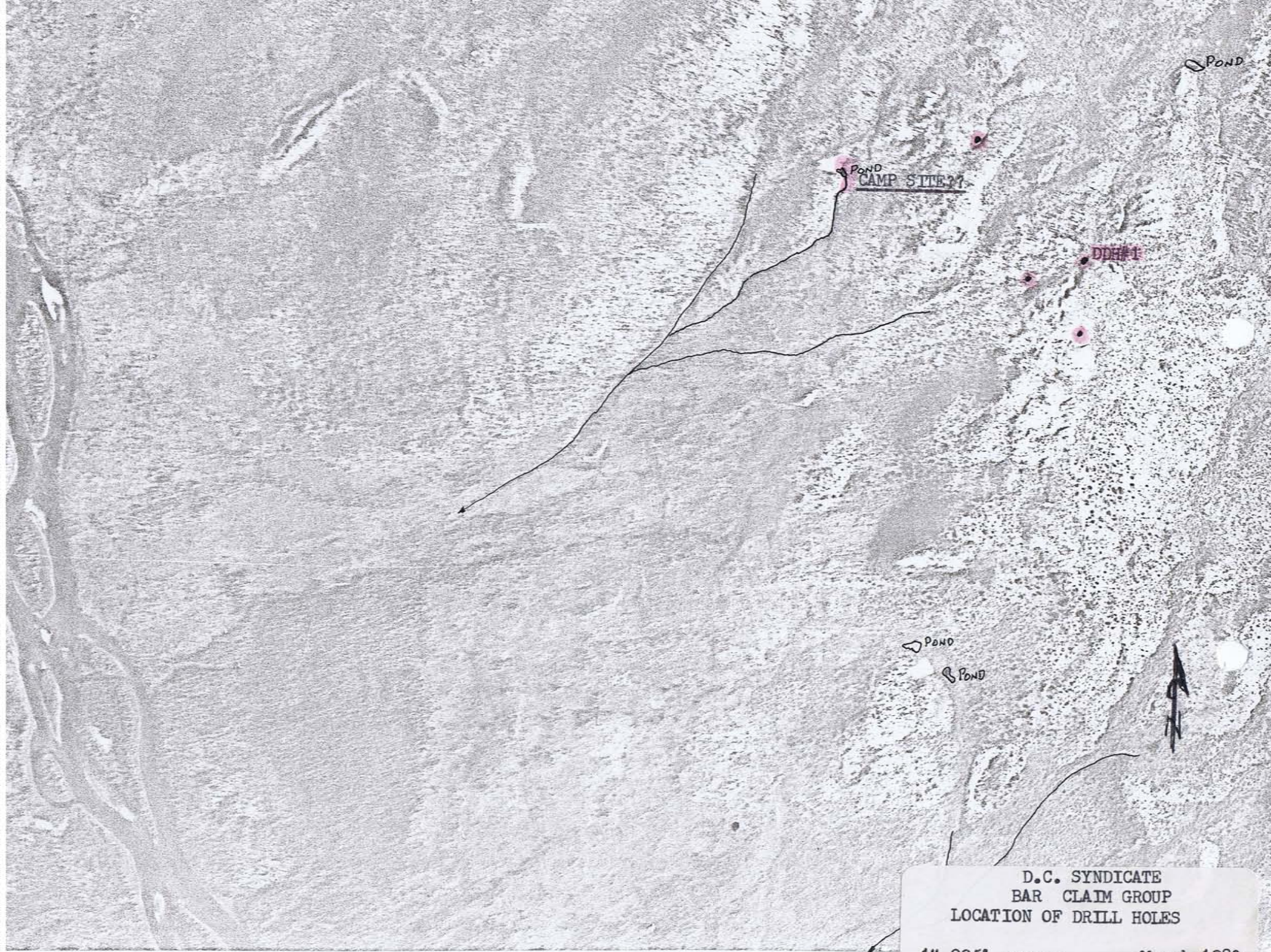
J.C. Stephen

JCS/ms



D.C. SYNDICATE
BAR CLAIM GROUP

LOCATION MAP 105C/8,9
1:250,000
March 1980



D.C. SYNDICATE
BAR CLAIM GROUP
LOCATION OF DRILL HOLES

1"-925' approx

March 1980






LITHOLOGY

Sh/Arg	Dark grey to black shale or argillite, carbonaceous to graphitic.
St/Ss	Light to dark grey to grey-green, cherty to fine-grained, massive to flaggy, siltstone, sandstone to arkose.
Cg	White, grey and black chert - lithic pebble to granule conglomerate.
Ct	White, grey to black chert, \pm hematite.
Ct bx	Brecciated chert.
Dolo	Brown weathering sandy dolostone with chert fragments.
Wt dolo	Sucrose white dolostone.
Lst	Grey limestone with chert lenses and chert sand. \pm crinoid fragments.

ALTERATION

///	Pyrite stringers.
x1 - x5	Pervasive, strong, moderate, weak, very weak alteration.
c	Clay and/or sericite alteration, yellow-green bleached appearance.
s	Silicification, cherty grey-green appearance.
h	Hematite alteration \pm manganese oxides on fractures.

LEGEND

	Diamond drill hole, vertical, angled.
	Trench.
	Outcrop or subcrop.
	Float, frost heaved boulders.
	Rock geochem sample.

Elev 4000

50+00 N. B.L.



Elev 3800

J.C. STEPHEN EXPLORATIONS LTD
 D.C. SYNDICATE
 BAR CLAIM GROUP
 VERTICAL SECTION 12+00W
 FACING EASTERLY
 SCALE 1" = 50'
 JUNE 1980

FIGURE 1

53100 N

50100N B1

Elev 3800

DDH 80 B-2

-60°

Ft - Zn Ag Pb Ba

6.0	.03	.10	.87
5.0	.02	.01	

7.0	.01	.25	.01
7.0	.01	.18	.02
8.0	.01	.30	.01

2.5'	.01	.01	28.1
------	-----	-----	------

291'

Elev 3600

J.C. STEPHEN EXPLORATIONS LTD.
 D.C. SYNDICATE
 BAR CLAIM GROUP
 VERTICAL SECTION 20+00W.
 FACING EASTERLY

SCALE 1"=50' JUNE 1980

FIGURE 2

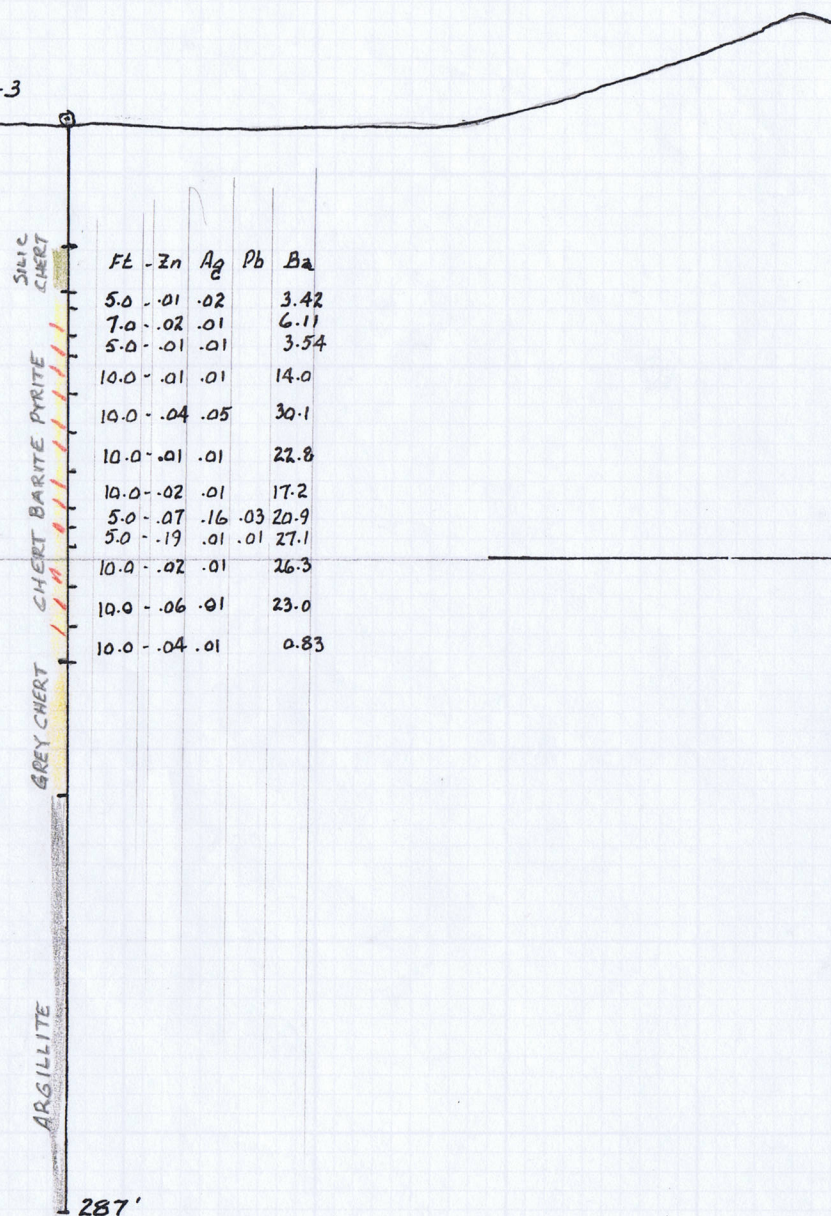
64+00N

62+00N

57+00N

Elev 3800'

DDH 80 B-3
-90°

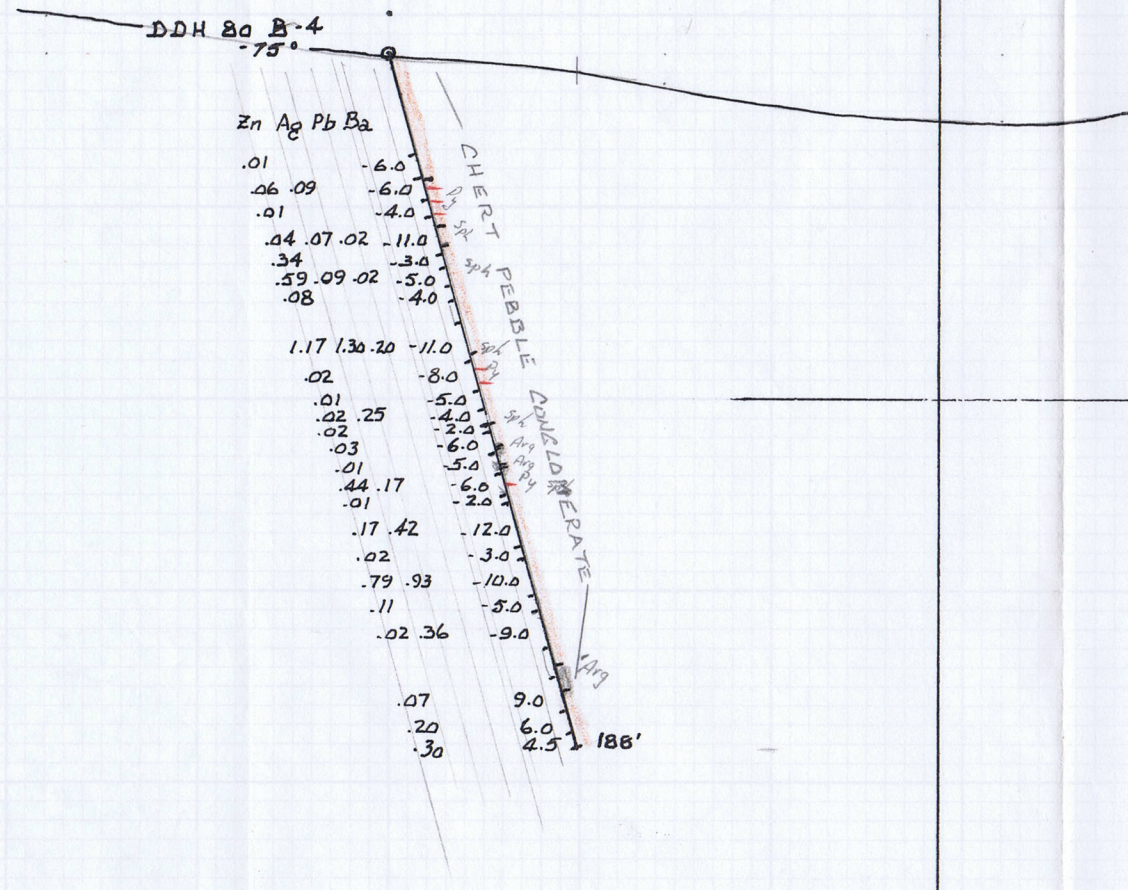


Elev 3600'

3500

J.C. STEPHEN EXPLORATIONS LTD.
 D.C. SYNDICATE
 BAR CLAIM GROUP
 VERTICAL SECTION 20+00 W
 FACING EASTERLY
 SCALE 1" = 50' JUNE 1980

FIGURE 3



J.C. STEPHEN EXPLORATIONS LTD
 D.C. SYNDICATE
 BAR CLAIM GROUP
 VERTICAL SECTION
 FACING S 63° E
 SCALE 1" = 50' JUNE 1980

FIGURE 4

