

5883

ASSESSMENT REPORT ON THE

Caro 17, 18, 19, 21, 23, 3 frc. and DI 1 claims

Situated on Ladner and Siwash Creeks

12 air miles N. E. of Hope, B. C.

New Westminster M.D.

British Columbia

CARO 3 FT.

924/113

On behalf of

CAROLIN MINES LTD.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **5883** MAP

Report by:

D. Griffith, B.A., B.Sc.
February, 1976
Delta, B. C.

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GENERAL

During the fall of 1975, Precambrian Shield Resources Ltd. of Edmonton, Alberta, conducted a diamond drilling program on the Ladner Creek Project, New Westminster Mining Division, Hope, B.C.

Most of the expenditures incurred are being applied for assessment work credits as detailed on the "Affidative on Application to Record Work".

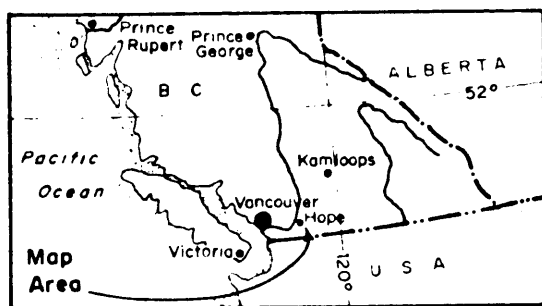
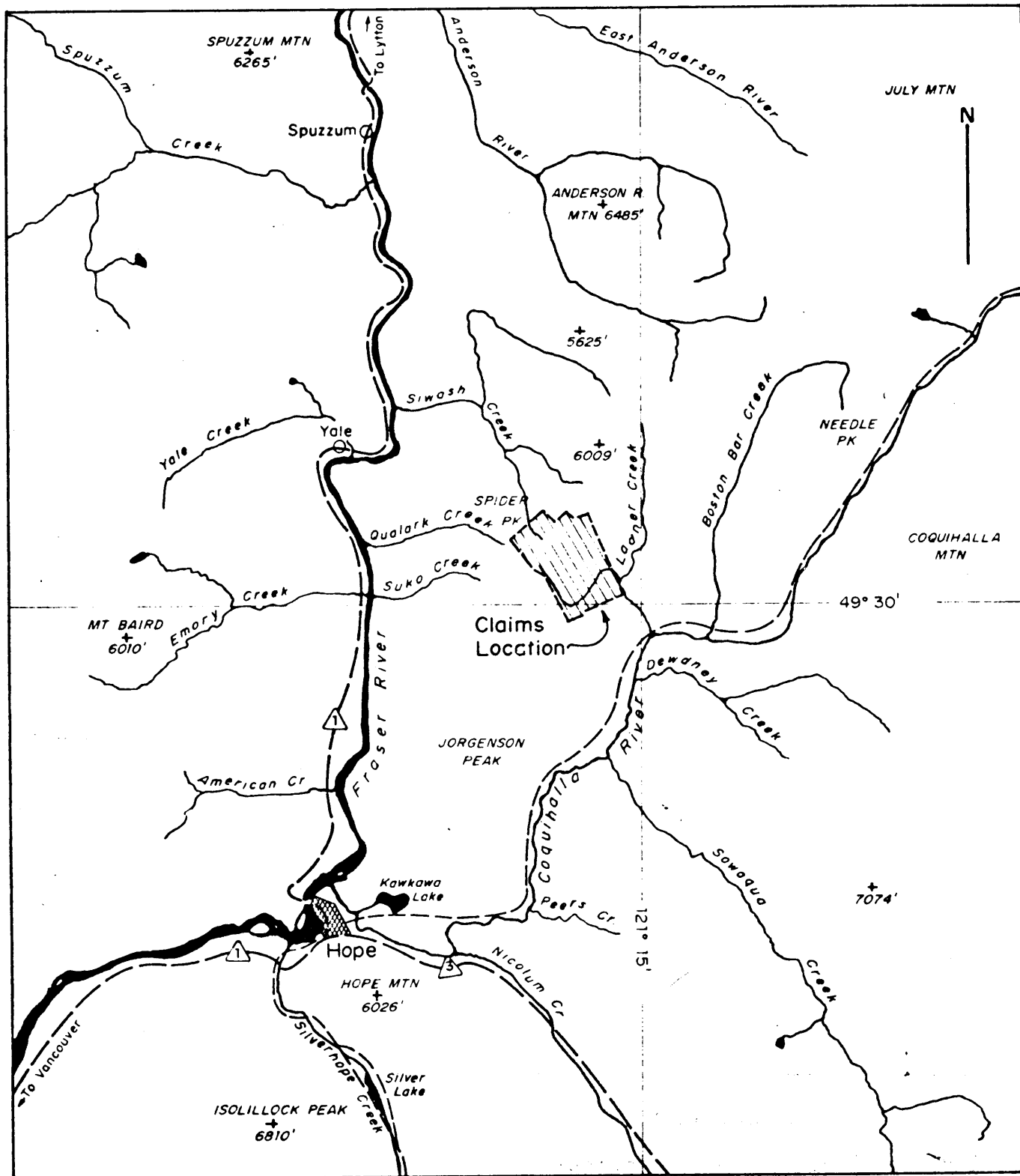
All work was performed on the Caro 3 frc, and is being applied to the DI group of claims.

All drill core is stored at the project base camp which is at the junction of the Coquihalla River and Ladner Creek.

ITEMIZED COST STATEMENT

Drilling, site preparation	(Shepard Enterprises Ltd)	25,587.87
Trenching, road building	(H. E. Sanders Ltd.)	1,126.00
2½ cases Forcite 40% @ 16.50		41.25
105 cfm compressor & 1 jackhammer @ 26.00/day		26.00
Assaying 285 samples @ 5.00/sample	(Bondar Clegg & Co. Ltd.)	1,425.00
Core splitting B. Chase, D. Heino	30 days @ 60.00/day	1,800.00
Supervision, core logging	D.J. Griffith 23 days @ 100.00/day	2,300.00
Surveying D.R. Cochrane P. Eng.	2 3/4 days @ 160.00/day	440.00
B.A. Cochrane	2½ days @ 60.00/day	150.00
Report preparation D.J. Griffith	2½ days @ 100.00/day	250.00
B.A. Cochrane	46½ hr. @ 7.35/hr.	341.78
		<hr/>
TOTAL		\$33,487.90

\$31,600.00 of this total is being applied for assessment work credits.



LOCATION MAP **EP88** Fig. 1

CAROLIN MINES LTD.

Ladner Creek Project
 Coquihalla River/Ladner Creek Area
 New Westminster Mining Division, B. C.

Geobrase Consultants Limited
1000, 1000, Street, Suite 111

N.T.S. 92H/11
 92H/6

Scale 1:250,000

PERSONNEL & DATES WORKED

Date	D.J. Griffith	B. Chase	D. Heino
Oct. 3	$\frac{1}{2}$ day		
4	$\frac{1}{2}$ "		
6	$\frac{3}{4}$ "		
7	1 "		
8	$\frac{1}{2}$ "		1 day
9	$\frac{1}{2}$ "		
10	1 "		
11	1 "	1 day	
12	1 "	1 "	
13	$\frac{1}{2}$ "	1 "	
15	$\frac{1}{2}$ "		
16	1 "		1 "
17	1 "		1 "
18	$\frac{1}{2}$ "	1 "	
19	$\frac{3}{4}$ "	1 "	
20	1 "	1 "	
22	1 "		
23	$\frac{1}{2}$ "	1 "	
24		1 "	
25	$\frac{3}{4}$ "	1 "	
26	1 "		
28	$\frac{1}{2}$ "		1 "
29	$\frac{1}{2}$ "		1 "
30	$\frac{1}{2}$ "		1 "
31	$\frac{3}{4}$ "		1 "
Nov. 1	$\frac{1}{2}$ "		
2	$\frac{1}{2}$ "		
3			1 "
4			1 "
5	$\frac{1}{2}$ "		1 "
6			1 "
7	$\frac{3}{4}$ "		
9			1 "
12	$\frac{3}{4}$ "		1 "
13	$\frac{1}{2}$ "		1 "
14	$\frac{1}{2}$ "		1 "
15	$\frac{1}{2}$ "		1 "
16	1 "		1 "
17	$\frac{1}{2}$ "		
20			1 "
21			1 "
22			1 "

DATE	D.R. Cochrane	B.A. Cochrane
Sep. 30		½ day
Oct. 1	1 day	1 day
2	1 "	1 "
20	½ "	
21	½ "	

STATEMENT OF QUALIFICATIONS

David J. Griffith

1970 graduated Queen's University at Kingston,
B.A. (English)


1970 - 72 seasonal work as geophysical operator/
crew chief for Cochrane Consultants Ltd., Delta, B.C.

1973 graduated University of British Columbia, B.Sc.
(Hon. Geology)

Summer 1973 Union Carbide Exploration geologist

Sept. 1973 - present employed full time on the
Ladner Creek Project as the Project Geologist.

Respectfully submitted



David Griffith

McMASTER ZONE
LADNER CREEK PROJECT
DIAMOND DRILL LOGS
D.D.H. M1 - M7

CAROLIN MINES LTD.

December, 1975
Delta, B. C.

"GEOLOG SYSTEM" FOR ANALYSIS OF GEOLOGIC DATA

TABLE 2. Four-Letter Rock Type Code

The first four letters of a rock name form its preferred code, with the fourth letter, if a vowel, being replaced with the next consonant. One letter of a double consonant group, occurring with the first four letters, is usually excluded. Agglomerate becomes AGLM.

Some rock names in the following list are followed by a two-character contraction or short form. These are in brackets and preceded by an equal sign. They are used, as will be seen, to form four-character codes for compound rock names or to facilitate print-out.

ALAS	alaskite		feldspathic (= F:)	PLUT	plutonic rock (= P.)
APLT	Aplite		feldspathoidal (= F.)	PEGM	pegmatite (= PG = P:)
ADAM	adamellite = quartz monzonite	F.XX	feldspathoidal rock, where XX = 2 character contraction of rock type	PERD	peridotite
ANØR	anorthosite			PYRX	pyroxinite
ANDS	andesite (= AN)	F.AN	feldspathoidal andesite	PHØN	phonolite
ARGL	argillite	F.BS	feldspathoidal basalt	PARG	paragneiss
ARKS	arkose	F.DR	feldspathoidal diorite	PHYL	phyllite
AGLM	agglomerate	F.GB	feldspathoidal gabbro	PYRC	pyrochlorite
		F.LT	feldspathoidal latite	PHØS	phosphorite
		F.MZ	feldspathoidal monzonite	PPZZ	porphyry, general
		F.SY	feldspathoidal syenite etc.		Z may be replaced by the 2-letter code of the dominant mineral or mineral combination: e.g. PPKF, PPK, PPQZ.
BASL	basalt (= BS)	F.ELS	felsite		Qualifying mineral (Cols. 17 & 18) is less dominant than above, unless Z not specified.
BRXX	breccia, general	F.SS	felspathic sandstone		
	Third character X:				
	X alphabetic = genetic origin		grano = granu (= GR)		
	X numeric = provenience*		green (= G#)		
	(see lower left tables, below)	GAØR	gabbro (= GB)		
	Fourth character X:	GRAN	granite (= G:)		
	Sphericity-roundedness**	GRFL	granofels		
	(see chart at lower right, below)	GRLT	granulite	QZDR	quartz-quartzose (= QZ quartz diorite (= QD) = tonolite
		GNES	gneiss (= GN = G*)	QZMZ	quartz monzonite (= QM) = adamellite
		G#S#	greenschist	QZGB	quartz gabbro (= QG)
		G#SN	greenstone	QZBS	quartz basalt (QB)
		GREY	greywacke	QZLT	quartz latite (= QL)
		GRIT	grit	QUAR	quartzite
		GRDR	granodiorite (= GD)	QZSS	quartzose sandstone
		GRNT	granite igneous rock (= G.)		
CGXX	conglomerate, general				
	Third character X:		hornblende (= HB)		
	Fourth Character X:	HBIT	hornblende	RHYL	rhyolite (= RH)
	(as above, see tables and chart below)	HØRN	hornfels	RHYD	rhyodacite
				ROCK	rock (= RK)
CØQN	coquina		igneous (IG)		stone (= SN)
CASI	calc-silicate rock	IGRK	igneous rock	SASN	sandstone (= SS)
CATC	cataclaste		iron (= IR)	SLSN	siltstone (= SL)
CYSN	claystone	IRSN	ironstone		silicate (= SI)
	clay (= CY)	IGNM	ignimbrite	F.SS	feldspathic sandstone
	carbonaceous (= C:)			SERP	serpentine
C:SS	carbonaceous sandstone	LAMP	lamprophyre (= LM)	SCHS	schist (= S#)
C:SH	carbonaceous shale	D/LM	lamprophyre dyke	SHAL	shale (= SH)
C:RK	carbonaceous rock	LATT	latite (= LT)	SYEN	syenite
CARB	carbonatite		lit-par-lit (= L.>)	SEDM	sedimentary rock
CHER	chert	L>GN	lit-par-lit gneiss		
		L>LS	lit-par-lit limestone	TONL	tonalite = quartz diorite
DACT	dacite		limy (= L:)	TACT	tactite
DIAB	diabase (= DB)	LISN	limestone (= LS)	TUFF	tuff
DIØR	diorite (= DR)	L:DØ	limy dolomite	TRAC	tractyte
DUNT	dunite	LAVA	lava (= LV)		
DØLM	dolomite (= DØ = D.)				
D.LS	dolomitic limestone	MØN	monzonite (= MZ)	UNCN	unconsolidated material (soil, clay, silt, sand, gravel)
DYKE	dyke or (= D/)	MIGM	migmatite		
DIKE	dike, as preferred, or		mixed (= MX)		
D/XX	dyke, where XX is 2-character contraction or rock type, as	MXGN	mixed gneiss	VEIN	vein (= V/)
		MARB	marble	V/XX	vein, general
D/BS	basaltic dyke	MYLN	mylonite		where XX may be replaced by the 2-letter code of the dominant mineral. Qualify- ing mineral (cols. 17, 18) is less dominant than XX above
D/G	granitic dyke		mudstone		
D/DR	diorite dyke	METM	metamorphic rock		
D/DB	diabase dyke				
D/LM	lamprophyre dyke, etc.	NØRT	norite		
EVAP	evaporite		ortho (= Ø:)	VOIC	volcanic rock
			oolitic (ØØ)		
		Ø:GN	orthogneiss		
		ØØLS	oolitic limestone		

TABLE 3. Two-Letter Mineral Code. The first two letters of the mineral name form its preferred code. Note particularly the two-mineral combinations.

AC	<u>actinolite</u>	FA	<u>famatinite</u> (43% Cu)	MM	<u>montmorillonite</u>
AD	<u>adularia</u>	FL	<u>feldspars</u>	MU	<u>muscovite</u>
AL	<u>alunite</u>	FR	<u>ferberite</u> (61% W)	MØ	<u>molybdenite</u> (60% Mo)
AB	<u>albite</u>	FM	<u>ferrimolybdate</u> (40% Mo)	MΠ	<u>molybdenite rosettes</u>
AA	<u>andalusite</u>	FU	<u>fluorite</u>	M:	<u>molybdenite disseminate</u>
AG	<u>anglesite</u> (68% Pb)	FD	<u>feldspathoids</u>	M/	<u>molybdenite vein(lets)</u>
AH	<u>anhydrite</u>				
AK	<u>ankerite</u>				
AN	<u>anorthite</u>				
AP	<u>apatite</u>				
AR	<u>aragonite</u>	GL	<u>galena</u> (86% Pb)	NP	<u>nepheline</u>
AS	<u>argenopyrite</u> (45% As)			NI	<u>nicolite</u> (44% Ni)
AØ	<u>asbestos</u>	GX	<u>galena/sphalerite</u>		
AU	<u>augite</u>			ØL	<u>olivine, chrysolite</u>
AZ	<u>azurite</u> (58% Cu) See also MX = malachite/azurite combination	GL	mineral combination proportion unspecified	ØP	<u>opal</u>
		G>	galena > sphalerite	KF	<u>orthoclase, K-spar</u> See also KX = KF/PF combination
		G#	galena = "	ØX	<u>oxide, general</u>
		G<	galena < "	ØQ	<u>opaque, general</u>
		SL	sphalerite alone		
		GA	<u>garnet</u>		
BA	<u>barite</u>	GS	<u>glass(es)</u>		
BE	<u>beryl</u>	GC	<u>glaucophane</u>	PF	<u>plagioclase</u> See also KX = KF/PF combination
BI	<u>biotite</u>	GN	<u>glaucite</u>		
BX	<u>biotite/hornblende</u>	GØ	<u>goethite</u>	PH	<u>phlogopite</u>
	mineral combination	GR	<u>graphite</u>	PY	<u>pyrite</u>
BX	proportions unspecified	GK	<u>greenockite</u> (78% Cd)	PL	<u>pyrolusite</u>
BI	biotite alone	GY	<u>gypsum</u>	PX	<u>pyroxene</u>
B>	biotite > hornblende	GD	<u>gold</u>	PR	<u>pyrrhotite</u>
B#	" = "			PP	<u>pyrophyllite</u>
B<	" < "	HE	<u>hematite</u> (70% Fe)	PØ	<u>powellite</u> (58% Mo and W)
HØ	hornblende alone			PT	<u>platinum</u>
BS	<u>bigmuthanite</u> (70% Bi)	HX	<u>hematite/magnetite</u>		
BØ	<u>bornite</u> (63% Cu)				
BR	<u>brochantite</u> (56% Cu)	HX	mineral combination proportion unspecified	QZ	<u>quartz</u>
		HE	hematite alone	QA	<u>quartz, agate</u>
		H>	" > magnetite	QC	" , <u>chert</u>
		H#	" = "	QV	" , <u>vein, massive</u>
		H<	" < "	QX	" , <u>crystal(s)</u>
		MG	magnetite alone	QR	" , <u>rutiled</u>
CA	<u>calcite</u> See also DX = dolomite/calcite combination	HS	<u>hematite, specularite</u>	RN	<u>rhodonite</u>
		HØ	<u>hornblende</u> - See also BX	RC	<u>rhodochrosite</u>
CB	<u>carbonate(s)</u>	HU	<u>huebnerite</u> (61% W)	RU	<u>rutile</u>
CE	<u>cerussite</u> (77% Pb)	HM	<u>hydromica</u>		
CH	<u>chalcanthite</u> (25% Cu)	HY	<u>hypersthene</u>		
CC	<u>chalcocite</u> (80% Cu)			SA	<u>sannadine</u>
C!	<u>chalcocite on gangue</u>	IL	<u>illite</u>	SC	<u>scapolite</u>
C\$	<u>chalcocite alone or on economic mineral(s)</u> e.g., CC on CP	IM	<u>ilmeneite</u> (32% Ti)	SH	<u>scheelite</u> (64% W)
				MS	<u>sericite, muscovite</u>
CP	<u>chalcocopyrite</u>	JA	<u>jarosite</u>	SE	<u>serpentine</u>
CL	<u>chlorite</u>			SD	<u>siderite</u>
CD	<u>chloritoid</u>			SI	<u>sillimanite</u>
CR	<u>chromite</u> (46% Cr)			SV	<u>silver</u>
CS	<u>chrycotile</u>	KA	<u>kaolin</u>	SØ	<u>sodalite</u>
ØL	<u>chrysolite</u> - See olivine	KY	<u>kyanite</u>	HS	<u>specularite, hematite</u>
CK	<u>chrysocolla</u> (K as in Coke) (36% Cu)	KF	<u>K-spar, orthoclase</u>	SL	<u>sphalerite</u>
				SP	<u>sphene</u>
CN	<u>cinnabar</u>			ST	<u>staurolite</u>
CY	<u>clay</u> - See also CX = clay/ muscovite combination			SB	<u>stibnite</u> (72% Sb)
				SX	<u>sulfides, general</u>
		KX	<u>K-spar/plagioclase</u>		
CX	<u>clay/muscovite</u>				
		KX	mineral combination	TA	<u>taic</u>
CX	proportions unspecified	KX	proportion unspecified	TL	<u>tellurides, general</u>
C>	clay > muscovite	KF	K-spar alone	TN	<u>tennantite</u> (50% Cu, 26% Sb and As)
C#	clay = "	K>	K-spar > plagioclase	TE	<u>tenorite</u> (80% Cu)
C<	clay < "	K#	K-spar = "	TT	<u>tetrahedrite</u> (50% Cu, 26% Sb and As)
MU	muscovite alone	K<	K-spar < "	TZ	<u>topaz</u>
CZ	<u>clinogonite</u>	PF	plagioclase alone	TØ	<u>tourmaline</u>
CU	<u>copper</u>			TR	<u>tremolite</u>
CØ	<u>cordierite</u>	LU	<u>leucite</u>		
CV	<u>covellite</u> (66% Cu)	LI	<u>limonite(s)</u>		
CI	<u>cuprite</u> (89% Cu)				
		MA	<u>magnesite</u>	UR	<u>uraninite</u> (92% U)
DC	<u>dickite</u>	MG	<u>magnetite</u> - See also MX = HE/MG combination		
DG	<u>digenite</u>				
DI	<u>diopside</u>	MC	<u>malachite</u> (58% Cu)	VA	<u>vanadinite</u> , (73% Pb, 11% V)
DØ	<u>dolomite</u>			VE	<u>vesuvianite</u>
DX	<u>dolomite/calcite</u>				
	mineral combination	MX	<u>malachite/azurite</u>		
DX	proportion unspecified			WF	<u>wolframite</u> (62% W)
DØ	dolomite alone	MX	mineral combination proportion unspecified	WN	<u>wulfenite</u> (56% Pb, 26% Mo)
D>	dolomite > calcite	MC	malachite alone	WD	<u>wad</u>
D#	" = "	M>	" > azurite	WØ	<u>wollastonite</u>
D<	" < "	M#	" = "		
CA	calcite alone	M<	" < "		
		AZ	<u>azurite</u> alone		
EN	<u>enargite</u> (47% Cu)	MN	<u>manganite</u>	EE	<u>zeolite(s)</u>
EP	<u>epidote</u>	MZ	<u>monazite</u>	EI	<u>zircon</u>
ES	<u>enstatite</u>	MT	<u>marcasite</u>	EØ	<u>zoisite</u>
ER	<u>erythrite</u> (30% Co)	MR	<u>mariposite</u>	EZ	<u>any mineral</u>
		MI	<u>micas, general</u>		

APPENDIX

List of Abreviation to accompany zeroxed sheet for Drill Logs

assoc.	associated
c/v	cleavage
cltic	chloritic
clzd	chloritized
cncr	concretions
dec	decreasing (to)
fold(d)	fold(ed)
fln	foliation
G	gradational
inc	increasing (to)
irr	irregular
par	parallel (to)
perp	perpendicular (to)
sec	secondary
sft	soft
SHR (d)	shear(ed)
str	strong
supar	subparallel
T	tension gashes
trc	trace (s)
unkn	unknown
var	variable

Unless otherwise stated, all angles are measured against the core axis.

Note: All lengths of sample sections are subject to slight errors due to loss of core, grinding, etc.

PROPERTY **Ladner Creek Project**

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
Footage	Angle	
	Reading	Corrected
casing	-37°	

HOLE No. M1 Sheet No. 1 of 3 Lat. 4291.4
 Section _____ Dep. 2306 4
 Date Begun Oct. 6, 1975 Bearing 225° T
 Date Finished Oct 7, 1975 Elev. Collar 1476.7

Total Depth 49.7 m.
 Logged By D.J.G.
 Claim CARD # 3 FRC
 Core Size BQWL

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	AU oz/ton
0 - 3.66 m	ovb					
3.66 m - 16.80 m	QUARTS - ALBITE ROCK; BED	MI-1	3.66	4.16	0.50	0.020
	20° INC 70°; CLV 70°; QZ	-2	4.16	4.80	0.64	0.005
	PAR CLV; 7% QZ PAR CLV	-3	4.80	5.70	0.90	0.010
	10°; 1% CA; 2.0% (0.1% - 7.0%) PR.	-4	5.70	6.30	0.60	0.080
	3.0% (0% - 15%) PY; 0% AS & CP.	-5	6.30	7.20	0.90	0.010
		-6	7.20	8.30	1.10	0.010
		-7	8.30	9.20	0.90	0.010
		-8	9.20	10.65	1.45	0.020
		-9	10.65	12.10	1.45	0.030
		-10	12.10	12.65	0.55	0.005
		-11	12.65	13.25	0.60	0.015
		-12	13.25	14.13	0.88	0.015
		-13	14.13	15.40	1.27	0.035
		-14	15.40	16.80	1.40	0.16
16.80 m - 27.49 m	INTERBEDDED WACKE & ARGL; BED /	-15	16.80	17.70	0.90	0.010
	CLV 70°; 1% QZ PAR CLV;	-16	17.70	20.10	2.40	0.005
	2% CA; 0.2% PR; 0% AS, CP, PY.	-17	20.10	21.75	1.65	trc
		-18	21.75	23.35	1.60	trc



DIP TEST		
Footage	Angle	
	Reading	Corrected

HOLE No. M1 Sheet No. 2 of 3 Lot..... Total Depth.....
 Section..... Dep..... Logged By.....
 Date Begun..... Bearing..... Claim.....
 Date Finished..... Elev. Collar..... Core Size.....

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	AU oz/ton
		M1 - 19	23.35	25.50	2.15	trc
		- 20	25.50	26.08	0.58	0.005
		- 21	26.08	27.49	1.41	0.005
27.49m - 49.70m	GREEN WACKE, GREEN ARGL; BED/CLV	- 22	27.49	27.85	0.36	0.020
	CL 70°-80°; 10% (0% - 25%) QZ	- 23	27.85	29.15	1.30	0.025
	PAR CLV; 1% CA; trc (0% - trc) AS;	- 24	29.15	30.64	1.49	0.015
	0.8% (0.1% - 6.0%) PR; trc CP;	- 25	30.64	31.20	0.56	trc
	0.3% (0% - 15.0%) PY.	- 26	31.20	32.01	0.81	0.005
		- 27	32.01	32.51	0.50	0.025
		- 28	32.51	33.60	1.09	0.010
		- 29	33.60	34.70	1.10	0.020
		- 30	34.70	35.40	0.70	0.030
		- 31	35.40	35.75	0.35	0.020
		- 32	35.75	37.55	1.80	0.035
		- 33	37.55	37.80	0.25	0.025
		- 34	37.80	39.05	1.25	0.020
		- 35	39.05	39.53	0.48	trc
		- 36	39.53	41.14	1.61	0.040
		- 37	41.14	42.04	0.90	0.005
		- 38	42.04	42.64	0.60	trc



DIP TEST		
Footage	Angle	
	Reading	Corrected
Casing	-35°	

HOLE No. MR Sheet No. 1 of 3 Lat. 4295.6
 Section _____ Dep. 2316.9
 Date Begun Oct. 9, 1975 Bearing 225° True
 Date Finished Oct. 10, 1975 Elev. Collar 1463.0

Total Depth 68.19 m.
 Logged By D. J. G.
 Claim CARO #3 FRC
 Core Size BQWL

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	ALL OZ / ton
0 - 5.60 m.	ovb					
5.60 m. - 11.53 m.	QUARTZ - ALBITE ROCK, ALBITE - CARBONATE ROCK. BED 70° - 0° VAR;	M2 - 1	5.60	7.38	1.78	0.24
	CLV / CL 50° - 70°; 25% QZ PAR	- 2	7.38	7.78	0.40	0.31
	CLV & 10°; 3% CA; 0.1% AS; 1.0% PR; 3.0% PY; 0% CP.	- 3	7.78	10.80	3.02	0.055
		- 4	10.80	11.53	0.73	0.070
11.53 m. - 25.47 m.	INTERBEDDED WACKE - ARGL; BED /	- 5	11.53	12.43	0.90	trc
	CLV IGR / CL 55° - 80°; 10% (0% -	- 6	12.43	12.86	0.43	trc
	70%) QZ PAR CLV & 10°; 2%	- 7	12.86	14.26	1.40	trc
	CA; 0.6% PR; trc (0% - 3.0%) PY;	- 8	14.26	16.04	1.78	0.010
	0% AS, CP.	- 9	16.04	16.90	0.86	0.010
		- 10	16.90	17.90	1.00	0.020
		- 11	17.90	18.30	0.40	0.015
		- 12	18.30	19.19	0.89	0.015
		- 13	19.19	20.55	1.36	0.010
		- 14	20.55	22.15	1.60	0.010
		- 15	22.15	23.98	1.83	0.010
		- 16	23.98	25.47	1.49	0.005



DIP TEST		
	Angle	
Footage	Reading	Corrected

HOLE No. M2 Sheet No. 243 Lat. Total Depth.....
 Section Dep. Logged By.....
 Date Begun Bearing Claim
 Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	AU oz/ton
25.47m - 43.75m	BEDDED ARGL, MUDBALL SLATE;	M2 - 17	25.47	27.87	2.40	trc
	BED / CLV 70°-85°; 2% QZ PAR	- 18	27.87	31.30	3.43	trc
	CLV & 10°; 10% CA; 0.1% PR;	- 19	31.30	33.25	1.95	trc
	0% AS, CP, PY.	- 20	33.25	36.43	3.18	trc
		- 21	36.43	39.33	2.90	trc
		- 22	39.33	41.17	1.84	trc
		- 23	41.17	43.75	2.58	trc
43.75m - 68.19	GREEN ARGL, GREEN WACK, MINOR	- 24	43.75	44.71	0.96	0.015
	QUARTZ - ALBITE ROCK, BED / CLV / CL	- 25	44.71	45.55	0.84	0.005
	70°-90°; 2% (0%-60%) QZ PAR	- 26	45.55	48.39	2.84	trc
	CLV & 0°; 1.5% CA; trc (0%-trc)	- 27	48.39	49.33	0.94	0.010
	AS; 0.2% PR; trc (0%-trc) CP; 0.4%	- 28	49.33	49.93	0.60	0.020
	(0%-5.0%) PY.	- 29	49.93	50.68	0.75	0.005
		- 30	50.68	52.57	1.89	trc
		- 31	52.57	55.87	3.30	trc
		- 32	55.87	57.05	1.18	trc
		- 33	57.05	60.55	3.50	trc
		- 34	60.55	61.00	0.45	0.005
		- 35	61.00	61.50	0.50	trc
		- 36	61.50	62.90	1.40	0.005

PROPERTY **Ladner Creek Project**

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
Footage	Angle	
	Reading	Corrected
Casing	-40°	

HOLE No. M3 Sheet No. 1 of 3 Lat. 4310.7
 Section Dep. 2332.8
 Date Begun Oct 15, 1975 Bearing 225° True.
 Date Finished Oct 17, 1975 Elev. Collar 1461.5

Total Depth 100.6 m.
 Logged By D. J. G.
 Claim CARO # 3 FRC
 Core Size BQU L

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	ALL 02/ton
0 - 19.90m	oub 10% RECOVERY	M3-1	630	19.90	13.6°	0.005
19.90m - 28.93m	QUARTZ - ALBITE ROCK, MINOR SERP; BED/CLV/CL/GR 50° INC 65°; 15% (5% - 50%) QZ PAR CLV & 0° 2.0% (0% - 10%) CA; 0.3% AS; 1.0% PR; trc (0% - 0.1%) CP; 15% PY.	-2 -3 -4 -5 -6 -7 -8	19.90 21.64 22.88 24.34 25.32 26.26 27.20	21.64 22.88 24.34 25.32 26.26 27.20 28.93	1.74 1.24 1.46 0.98 0.94 0.94 1.73	0.12 0.17 0.035 0.14 0.10 0.030 0.015
28.93m - 50.90m	INTERBEDDED ARGL & WACKE; BED/ CLV/GR/CL 65° INC 80°; 12% (1% - 25%) QZ PAR CLV & 0°; 1% CA; trc (0% - 0.1%) AS; 0.2% PR; 0.3% PY; 0% CP.	-9 -10 -11 -12 -13 -14 -15 -16 -17 -18 -19	28.93 30.16 30.96 32.37 34.45 35.45 36.90 39.20 40.24 41.10 44.60	30.16 30.96 32.37 34.45 35.45 36.90 39.20 40.24 41.10 44.60 45.80	1.23 0.80 1.41 2.08 1.00 1.45 2.30 1.04 0.86 3.50 1.20	0.015 trc 0.020 trc trc 0.005 trc trc trc trc 0.005



DIP TEST		
Footage	Angle	
	Reading	Corrected

HOLE No. M3 Sheet No. 2 of 3 Lat. Total Depth.....
 Section..... Dep..... Logged By.....
 Date Begun..... Bearing..... Claim.....
 Date Finished..... Elev. Collar..... Core Size.....

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	<u>AU</u> oz/ton
		M3-20	45.80	47.80	2.00	0.005
		-21	47.80	50.30	2.50	trc
		-22	50.30	50.90	0.60	trc
50.90 m. - 62.10 m.	MUDBALL SLATE, GR ARGL; BED/CLV/	-23	50.90	53.20	2.30	trc
	GR 80°; 4% QZ PAR CLV & 10°;	-24	53.20	55.35	2.15	trc
	5% CA; 0.2% PR; 0.2% PY; 0%	-25	55.35	56.15	0.80	trc
	AS, CP;	-26	56.15	59.10	2.95	trc
		-27	59.10	61.32	2.22	trc
	LOST WATER 61.0 m.	-28	61.32	62.10	0.78	trc
62.10 m. - 79.26 m.	GREEN WACKE, GREEN ARSL; BED/CLV/	-29	62.10	64.00	1.90	0.070
	CL 80°-90°; 3% (1% - 20%) QZ	-30	64.00	66.00	2.00	trc
	PAR CLV & 10°; 2% CA, trc (0%	-31	66.00	66.20	0.20	0.005
	- 0.2%) AS; 0.3% PR; trc (0%-0.1%) CP;	-32	66.20	69.48	3.28	trc
	2.0% (0% - 9.0%) PY.	-33	69.48	73.05	3.57	trc
		-34	73.05	74.71	1.66	trc
		-35	74.71	76.70	1.99	0.005
		-36	76.70	79.03	2.33	trc
		-37	79.03	79.26	0.23	0.015



DIP TEST		
Footage	Angle	
	Reading	Corrected
Casing	-35°	

HOLE No. M4 Sheet No. 1 of 3 Lat. 4276.0
 Section _____ Dep. 2344.1 Total Depth 67.50 m.
 Date Begun Oct 21, 1975 Bearing 225° True Logged By D. J. G.
 Date Finished Oct 22, 1975 Elev. Collar 1464.2 Claim CARO #3 FRC
 Core Size BQWL

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	ALL OZ / TON
0 - 6.32 m.	ovb					
6.32 m. - 9.70 m.	FELDSPATHIC WACKE, QUARTS-ALBITE ROCK, MINOR SERP; BED / CLV / CL / GR / SE 55° INC 70°; 12% QZ PAR CLV & 10°, trc CA; 0.2% AS; 0.4% PR; trc CP; 2.5% (0.5% - 5.0%) PY.	M4-1 - 2 - 3	6.32 7.35 8.37	7.35 8.37 9.70	1.03 1.02 1.33	0.035 0.050 0.11
9.70 m. - 18.15 m.	INTERBEDDED ARGL & WACKE; BED / CLV / CL / GR 55° - 65°; 20% (4% - 50%) QZ PAR CLV & 10°; 1% CA; trc (0% - trc) AS; 1.5% (0.2% - 4.0%) PR; trc (0% - 0.2%) CP; 0.4% PY	- 4 - 5 - 6 - 7 - 8 - 9	9.70 10.05 12.41 13.65 15.45 16.80	10.05 12.41 13.65 15.45 16.80 18.15	0.35 2.36 1.24 1.80 1.35 1.35	0.015 0.005 0.015 0.015 0.035 0.030
18.15 m. - 39.62 m.	BRECCIATED CHER, MUDBALL SLATE; BED / CLV / GR / CL 75°; 25% QZ PAR CLV & 10°; 2% CA; 0.2% PR; 0.4% PY; 0% AS, CP.	- 10 - 11 - 12 - 13 - 14	18.15 19.20 19.65 20.92 22.18	19.20 19.65 20.92 22.18 23.94	1.05 0.45 1.27 1.26 1.76	trc 0.015 0.005 trc trc



DIP TEST		
Footage	Angle	
	Reading	Corrected

HOLE No. M4 Sheet No. 2 of 3 Lat. Total Depth

Section Dep. Logged By

Date Begun Bearing Claim

Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	AU oz/ton
		M4 - 15	23.94	25.50	1.56	trc
		- 16	25.50	27.35	1.85	trc
		- 17	27.35	28.60	1.25	trc
		- 18	28.60	30.50	1.90	trc
		- 19	30.50	33.81	3.31	trc
		- 20	33.81	35.75	1.94	0.005
		- 21	35.75	37.47	1.72	trc
		- 22	37.47	38.52	1.05	trc
		- 23	38.52	39.62	1.10	0.005
39.62m - 49.10 m.	INTERBEDDED LACKE & ARGL ; BED/	- 24	39.62	40.75	1.13	0.015
	CLV 80° ; 3% QZ PAR CLV &	- 25	40.75	42.38	1.63	trc
	16° ; trc PR ; 0.4% PY ; 0% AS &	- 26	42.38	42.70	0.32	0.005
	CP	- 27	42.70	43.40	0.70	0.005
		- 28	43.40	44.11	0.71	trc
		- 29	44.11	45.33	1.22	trc
		- 30	45.33	48.00	2.67	trc
		- 31	48.00	49.10	1.10	trc



DIP TEST		
Footage	Angle	
	Reading	Corrected
Casing	-40°	

HOLE No. M5 Sheet No. 1 of 3 Lat. 4291.0
 Section _____ Dep. 2356.9
 Date Begun Oct. 27, 1975 Bearing 225° True
 Date Finished Oct 29, 1975 Elev. Collar 1462.8

Total Depth 79.30 m.
 Logged By D. J. G.
 Claim CARD #3 FRC
 Core Size BQWL

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	AU oz/ton
0 - 23.00m	0 v b					
23.00m - 24.75m	TALC CARBONATE ROCK, SERPENTINE; CLV / TA / SE 65° : 5% QZ PAR CLV : 0% CA; 0.1% PY; 0% AS, PR, CP	M5-1	23.00	24.75	1.75	0.010
24.75m - 26.14m	QUARTZ-ALBITE ROCK. 35% QZ @ 70° & 20°; 0% CA; 0.1% AS; 0.3% PR; trc CP; 5.0% PY	-2	24.75	26.14	1.39	0.050
26.14m - 29.70m	INTERBEDDED ARGIL & WACKE; BEDD CLV / GR / CL 80° : 5% (1.0% - 30%)	-3	26.14	29.16	3.02	trc
	QZ PAR CLV; 4% CA; 0.2% PR; 0.2% PY; 0% AS, CP.	-4	29.16	30.43	1.27	0.005
		-5	30.43	31.45	1.02	trc
		-6	31.45	32.88	1.43	trc
		-7	32.88	34.37	1.49	trc
		-8	34.37	36.33	1.96	trc
		-9	36.33	38.00	1.67	trc
		-10	38.00	40.00	2.00	trc
		-11	40.00	40.60	0.60	trc
		-12	40.60	43.04	2.44	trc



DIP TEST		
Footage	Angle	
	Reading	Corrected

HOLE No. M 5 Sheet No. 2 of 3 Lat. Total Depth

Section Dep. Logged By

Date Begun Bearing Claim

Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	AC 02 / 10m
		115 - 13	43.04	44.60	1.56	trc
		-14	44.60	46.35	1.75	trc
		-15	46.35	48.25	1.90	trc
		-16	48.25	49.70	1.45	trc
49.70 _m - 64.85 _m	BRECCIATED CHER INTERBEDDED WACKE	-17	49.70	52.47	2.77	0.010
	8 ARGL ; BED / CLV / CL / GR 80° ;	-18	52.47	53.90	1.43	trc
	12% (3% - 30%) QZ PAR CLV @ 0° ;	-19	53.90	56.05	2.15	0.005
	3% CA ; trc (0% - trc) AS ; 0.2% PR ;	-20	56.05	58.50	2.45	trc
	trc (0% - trc) CP ; 0.3% (0.1% - 1.5%) PY.	-21	58.50	59.20	0.70	0.005
		-22	59.20	61.70	2.50	trc
		-23	61.70	63.65	1.95	0.005
		-24	63.65	64.85	1.20	0.005
64.85 _m - 79.30 _m	GREEN ARGL, GREEN WACKE, MINOR	-25	64.85	67.65	2.80	0.025
	QUARTZ - ALBITIE ROCK ; BED / CLV 80°	-26	67.65	70.60	2.95	trc
	90° ; 8% (1% - 80%) QZ PAR CLV	-27	70.60	71.20	0.60	0.010
	@ 0° ; trc (0% - 0.3%) AS ; 0.1% PR ;	-28	71.20	71.95	0.75	trc
	trc (0% - trc) CP ; 0.5% PY.	-29	71.95	72.85	0.90	0.010
		-30	72.85	76.30	3.45	trc
		-31	76.30	77.30	1.00	trc



DIP TEST		
Footage	Angle	
	Reading	Corrected
Casing	- 35°	

HOLE No. *M6* Sheet No. *1 of 3* Lat. *4248.1*
 Section _____ Dep. *2376.3*
 Date Begun *Nov. 1, 1975* Bearing *225° True*
 Date Finished *Nov. 2, 1975* Elev. Collar *1468.1*

Total Depth *67.40 m.*
 Logged By *D. J. G.*
 Claim *CARO #3 FRC*
 Core Size *BQWL*

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	ALL oz/ton
0 - 6.70 m	ovb					
6.70 m - 15.20 m	QUARTZ - ALBITE ROCK, INTERBEDDED WACKE & ARGL; BED 0° INC 80° CLV / CL / GR 60° INC 80°; 10% QZ PAR CLV & 0°; 2% CA; 0.1% AS; 1.0% PR; trc CP; 0.3% PY	M6 -1 -2 -3 -4 -5 -6	6.70 8.62 10.22 11.12 12.70 14.72	8.62 10.22 11.12 12.70 14.72 15.20	1.92 1.60 0.90 1.58 2.02 0.48	0.030 0.11 0.040 0.075 0.010 0.010
15.20 m - 28.70 m	INTERBEDDED WACKE & ARGL; BED / CLV / GR 80°; 10% (2% - 20%) QZ PAR CLV & 0°; 2% CA; 0.2% PR; 0.7% PY; 0% AS; CP.	-7 -8 -9 -10 -11 -12 -13 -14 -15	15.20 16.48 17.87 19.60 21.45 23.25 25.45 26.20 27.03	16.48 17.87 19.60 21.45 23.25 25.45 26.20 27.03 28.70	1.28 1.39 1.73 1.85 1.80 2.20 0.75 0.83 1.67	tr. trc trc trc 0.005 trc trc trc trc
28.70 m - 37.65 m	BRECCIATED CHER; BED / CLV / CL 75°; 10% (2% - 50%) QZ PAR CLV & 0°;	-16 -17	28.70 29.90	29.90 30.20	1.20 0.30	trc trc

PROPERTY: **Ladner Creek Project**

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
Footage	Angle	
	Reading	Corrected

HOLE No. M6 Sheet No. 2 of 3 Lat. Total Depth.....
 Section..... Dip..... Logged By.....
 Date Begun..... Bearing..... Claim.....
 Date Finished..... Elev. Collar..... Core Size.....

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	AN oz/ton
	trc CA; trc PR; 0.3% PY; 0% AS, CP.	M6-18	30.20	31.70	1.50	trc
		-19	31.70	32.40	0.70	0.010
		-20	32.40	33.60	1.20	trc
		-21	33.60	34.10	0.50	0.035
		-22	34.10	34.99	0.89	trc
		-23	34.99	37.65	2.66	
37.65m - 47.32m.	INTERBEDDED ARGL & WACKE; BED/CLV	-24	37.65	37.96	0.31	trc
	80°; 5% QZ PAR CLV & 0°; 1% CA; 0.1% PR; 1.0% PY; 0% AS, CP.	-25	37.96	40.00	2.04	trc
		-26	40.00	40.45	0.45	trc
		-27	40.45	43.26	2.81	trc
		-28	43.26	43.68	0.42	trc
		-29	43.68	45.00	1.32	0.015
		-30	45.00	45.40	0.40	0.005
		-31	45.40	47.32	1.92	trc
47.32m - 67.40m.	GREEN ARGL GREEN WACKE; BED/CLV	-32	47.32	48.05	0.73	trc
	80°; 5% QZ PAR CLV & 0°;	-33	48.05	48.78	0.73	trc
	0.1% PR; 0.4% (0% - 5.0%) PY;	-34	48.78	49.50	0.72	0.010
	0% AS, CP	-35	49.50	52.40	2.90	trc
		-36	52.40	54.50	2.10	trc

PROPERTY **Ladner Creek Project**

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
		Angle
Footage	Reading	Corrected
casing	-40°	

HOLE No. M7 Sheet No. 1 of 3 Lat. 4336.7
 Section Dep. 2300.2
 Date Begun Nov. 13, 1975 Bearing 225° True
 Date Finished Nov. 14, 1975 Elev. Collar 1460.2

Total Depth 84.4 m.
 Logged By D.J.C.
 Claim CARU #3 F.R.C.
 Core Size BQWL

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	ALL 02/702
0 - 25.35 m.	o-b					
25.35 m. - 26.71 m.	SERPENTINE; 0% QZ; 3% CA; 0.2% PR; 0% AS, CP, PY.	M7-1	25.35	26.71	1.36	0.005
26.71 m. - 40.90 m.	QUARTZ - ALBITE - CARBONATE ROCK, WEAK CL SCHS; BED VAR INC 60°; CLV/CL /GR /SE 50° - 60°; 13% (3% - 25%) QZ PAR CLV & 0°; 1% CA; 0.1% AS; 0.4% PR; trc CP; 0.4% PY	-2	26.71	27.54	0.83	0.055
		-3	27.54	28.76	1.22	0.050
		-4	28.76	29.71	0.95	0.025
		-5	29.71	31.45	1.74	trc
		-6	31.45	32.45	1.00	0.020
		-7	32.45	33.00	0.55	0.075
		-8	33.00	33.85	0.85	trc
		-9	33.85	34.86	1.01	0.075
		-10	34.86	36.90	2.04	0.050
		-11	36.90	38.72	1.82	0.035
		-12	38.72	40.00	1.28	0.13
		-13	40.00	40.90	0.90	0.020
40.90 m - 42.54 m.	BRECCIATED CHER, WEAK CL SCHS; CLV/CL 60°; 20% QZ PAR CLV; 0% CA; 0.1% AS; trc PR; 0.4% PY; 0% CP.	-14	40.90	41.40	0.50	trc
		-15	41.40	42.54	1.14	0.010



DIP TEST		
Footage	Angle	
	Reading	Corrected

HOLE No. M7 Sheet No. 2 of 3 Lat. Total Depth

Section Dep. Logged By

Date Begun Bearing Claim

Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	ALL _{02/102}
42.54m - 59.40m	INTERBEDDED ARGL & WACKIE; BED/CLV / CL / GR 60° INC 80°; 12% QZ PAR CLV & 0°; trc CA; 0.2% PR; 0.7% PY; 0% AS, CP.	M7-16	42.54	44.20	1.66	0.005
		-17	44.20	45.40	1.20	0.005
		-18	45.40	46.25	0.85	0.005
		-19	46.25	47.17	0.92	0.005
		-20	47.17	49.10	1.93	trc
		-21	49.10	50.85	1.75	0.030
		-22	50.85	51.90	1.05	0.010
		-23	51.90	53.90	2.00	0.010
		-24	53.90	54.71	0.81	trc
		-25	54.71	57.90	3.19	0.005
		-26	57.90	59.40	1.50	0.005
59.40m -	GREEN ARGL, MINOR QUARTZ - ALBITE Rock; BED / CLV 75° INC 85°; 3% QZ PAR CLV & 0°; trc CA; trc (0% - 1%) AS; trc PR; 0.2% PY; 0% CP.	-27	59.40	60.75	1.35	0.040
		-28	60.75	62.77	2.02	trc
		-29	62.77	63.47	0.70	trc
		-30	63.47	65.95	2.48	trc
		-31	65.95	68.50	2.55	trc
		-32	68.50	70.70	2.20	trc
		-33	70.70	73.95	3.25	trc
		-34	73.95	76.50	2.55	trc
		-35	76.50	78.50	2.00	trc

DIAMOND DRILL HOLE # M 5

DIAMOND DRILL HOLE # M 6

DIAMOND DRILL HOLE # M 7



**CANADIAN DIAMOND DRILLING ASSOCIATION
STANDARD DRILLING CONTRACT**

THIS AGREEMENT made and entered into by and between PRECAMBRIAN SHIELD RESOURCES LIMITED,
11th Floor Petroleum Plaza, 9945 - 108 Street, Edmonton, Alberta

hereinafter called Company, and SHEPHERD ENTERPRISES LTD., 804 - 470 Granville Street,
Vancouver, British Columbia

hereinafter called Contractor

WITNESSETH: THAT,

WHEREAS, Company is the owner, part owner and/or Operator, of certain properties on which it desires to have a program drilled and completed and,

WHEREAS, Contractor represents that it has adequate equipment in good working order and fully trained personnel capable of efficiently operating such equipment with which it desires to drill for Company:

NOW, THEREFORE, the parties hereto, each in consideration of the promises and agreements of the other, mutually agree as follows:

1. WORK TO BE DONE, LOCATION, COMMENCEMENT DATE, AND DEPTH:

1.1 Contractor agrees to drill and complete the hereinafter designated program in accordance with all provisions hereof and other conditions and specifications set forth in the Bid Sheet and Job Specifications, identified as Exhibit A attached hereto and made a part hereof.

1.2 Contractor further agrees to commence operations for the drilling of the project at the location, on the date, and to the depths agreed upon in Sections 1 and 2 of Exhibit A hereof.

2. LABOR, EQUIPMENT, MATERIALS, SUPPLIES, AND SERVICES:

2.1 All labor, equipment, material, supplies and services necessary to the normal operation or maintenance of the drilling equipment shall be furnished by Contractor. Additional material, equipment, special tools, supplies and services necessary or proper to the drilling and completion of the job shall be furnished at the drill site by the party designated in Exhibit A. Should tools, materials, apparatus or services, other than those set forth herein or designated in Exhibit A be necessary to the drilling of the program, the cost of such tools, materials, apparatus or services and the manner in which they are to be furnished are to be agreed upon by the parties hereto.

2.2 Should Contractor purchase for Company at Company's request any materials, supplies, or equipment which Company is obligated to furnish under the terms of this agreement, Company agrees to pay Contractor within (30) days after date of receipt of Contractor's invoice the actual cost of such materials, supplies, or equipment. Contractor agrees to furnish Company copies of suppliers', vendors', or third party invoices covering such materials, supplies, or equipment.

3. FOOTAGE RATE, HOURLY RATE, STAND-BY RATE, BASIS OF DETERMINING AMOUNTS PAYABLE TO CONTRACTOR:

3.1 Subject to all of the other provisions hereof, Company agrees to pay Contractor for the work performed, services rendered, and the materials, equipment and supplies furnished by Contractor, a sum computed as hereafter prescribed.

3.2 For work performed on a footage basis, Contractor shall be paid the rate agreed upon and specified in Section 3 of Exhibit A, multiplied by the linear footage of hole drilled. Such linear footage of hole drilled shall be determined in the manner specified in Exhibit A.

3.3 For work performed on an hourly basis, the hourly rate shall be as agreed upon in Section 3 of Exhibit A.

3.4 If it is necessary to shut down Contractor's drill for repairs while Contractor is performing work on an hourly basis, Contractor shall be allowed compensation in the manner set out in Section 3(L) of Exhibit A.

3.5 In determining the amount of hourly time for which Contractor is to be compensated, it is agreed that such day work time shall begin when Contractor, suspends normal drilling operations being conducted on a footage basis, and shall include the time required to restore the hole to the same drilling conditions which existed when operations on a footage basis were suspended.

4. ACCESS:

Preparation of drill sites and access roads is the responsibility of the Company. The Company shall provide at no cost to the Contractor, all rights of ingress and egress to all lands that may be required to enable the Contractor to carry out the specified work.

5. DRILLING SITES:

The Contractor agrees to case and drill on the sites and at angles and azimuths selected by the Company representative and to follow the instructions of the Company representative relating to place and time of drilling.

Company and Contractor respectively agree to comply with all laws, rules and regulations Federal or Provincial, which are now or may become applicable to operations covered by this Agreement and any work order issued in connection herewith. If any of the terms hereof are in conflict with any applicable rule, regulation, order or law of a Provincial or Federal Regulatory Body, the terms of this Contract so in conflict shall not apply and the applicable Provincial or Federal rule, regulation, order or law shall prevail.

6. CAVITIES:

In the event that cavities or loose and caving materials or excessive water flows are encountered of a nature so as to prevent the successful completion of any hole, the Contractor does not, under such conditions guarantee to drill to a predetermined depth and, in the event that it becomes necessary to abandon the hole, the Company agrees to pay for such uncompleted holes at the rates herein specified for all footage completed. However, should the Company request that further work be carried out in the hole beyond this point, then the Contractor shall continue work in the hole, but such continuing work shall be at Field Cost rates.

7. TIMBER RIGHTS:

The Contractor shall be permitted to cut and fell any timber on the Company's property as may be required in the course of the work hereunder, and the Company shall indemnify and save harmless the Contractor from any assessment for stumpage or other charges of every kind and nature whatsoever.

8. LOSS OR DAMAGE:

In addition to all other indemnifying provisions contained herein, Contractor represents and warrants that the use or construction of any and all tools and equipment furnished by Contractor and used in the work provided for herein does not infringe on any license or patent which has been issued or applied for, and Contractor agrees to indemnify and hold Company harmless from any and all claims, demands, and causes of action of every kind and character in favor of or made by any patentee, licensee, or claimant of any right or priority to such tool or equipment, or the use or construction thereof, which may result from or arise out of furnishing or use of any such tool or equipment by Contractor in connection with the work under this agreement and applicable work orders.

Contractor shall be liable at all times for damage to or destruction of Contractor's surface equipment and materials, regardless of how such damage or destruction occurs. Company shall be under no liability to reimburse Contractor for any such loss except loss or damage thereto caused by negligence or wilful acts or omissions of Company or Company's agents, servants, or employees.

Contractor shall not be responsible for damage to the hole on which Contractor performs services nor to property of Company unless such damage shall be caused by or the result of the gross negligence or wilful misconduct of Contractor, its agents or employees, this provision applying to sub-surface damage and surface damage resulting from subsurface damage.

Company shall be responsible for and protect, indemnify and save Contractor harmless from any liability for injury to or death of persons or damage to property (including, but not limited to, injury to the job) growing out of or in any way connected with the use of radioactive material in the hole, unless such damage shall be caused by the gross negligence or wilful misconduct of Contractor, its agents or employees.

Except as otherwise provided, Contractor will indemnify and hold Company harmless from and against all damages and claims for damage by reason of injury or death of persons or damage to property caused by the negligence of Contractor, its employees or agents, in the performance of work hereunder and not caused or contributed to by the negligence of Company, its agents or employees.

9. CORE:

The drilling shall be conducted so as to produce as high a percentage of core as the nature of the ground being drilled shall allow. All cores recovered shall be delivered to the COMPANY at the drill site, carefully marked.

10. HOLE DIRECTION AND DEPTH:

The Contractor does not guarantee the direction of the hole beyond the collar nor guarantee to drill any hole to any specified depth. The Contractor will however, expend every reasonable effort to complete all holes to the satisfaction of the Company.

11. COMPANY REPRESENTATIVE:

The Company will have a representative on site authorized to approve Company charges on a daily basis.

12. SECRECY:

The Contractor will not give out any information regarding drill results or permit any access to drill core to any individual other than the Company's representative, except upon specific permission of responsible officials of the Company.

13. DISCIPLINE:

The Contractor shall at all times enforce discipline and maintain good order among its employees, and shall not retain on the job any person not skilled in the work assigned to him.

Any employees of the Contractor who are objectionable or unsatisfactory to the Company shall be removed from the job and replaced by an employee satisfactory to the Company.

14. LIENS:

The Contractor shall be responsible for, and will pay promptly all costs and charges, incurred by itself for labor, machinery, tools, transportation, and supplies used.

15. PAYMENTS:

The Company shall pay Contractor for the work and/or equipment or materials furnished by Contractor at the rate stipulated in the work orders provided for herein, subject to the same being accepted by Company as fully complying with all the terms, conditions, specifications and requirements of this Contract and such work orders; provided Contractor shall have satisfied Company that there are no liens or claims on or against Company or its property by reason of the operations of Contractor hereunder. Invoices will be submitted TWICE monthly. Payment to be made 15 days days thereafter. Interest on overdue accounts will be charged at 1 1/2 percent per month.

16. ECOLOGY AND SANITATION:

During the course of the work, the Contractor shall keep the site of any drilling and camp areas free from accumulation of waste materials, rubbish or garbage and upon completion of the work, shall remove all tools, scaffolding, surplus materials, rubbish and garbage and leave the working and camp site in a clean condition. The Contractor shall observe and comply with all applicable Federal and Provincial laws, regulations and orders relating to prevention of forest fires and sanitation in the bush and shall bear all costs arising from any violation thereof.

17. INSURANCE:

At any and all times during the term of this Agreement, Contractor agrees to carry insurance of the types and in the minimum amounts as follows:

17.1 Workmen's Compensation insurance in full compliance with all applicable Provincial laws and regulations.

17.2 Employer's liability insurance in the minimum limits of \$ 1,000,000.00 per accident covering injury or death to any employee which may be outside the scope of the workmen's compensation statute of the province in which the work is performed.

17.3 Comprehensive general liability insurance with minimum limits of \$1,000,000.00 for injury to or death of any one person and \$1,000,000.00 for any one accident and with minimum limits of \$10,000.00 for property damage.

17.4 Automobile liability insurance covering owned, non-owned, and hired automotive equipment with minimum limits of \$200,000.00 for injury to or death of any one person and \$200,000.00 for any one accident and \$200,000.00 property damage.

17.5 All such insurance shall be carried in a company or companies acceptable to Company and shall be maintained in full force and effect during the term of this Agreement, and shall not be cancelled, altered, or amended without ten (10) days' prior written notice having first been furnished Company. Contractor agrees to have its insurance carrier furnish Company a certificate or certificates evidencing insurance coverage in accordance with the above requirements and, when requested by Company, to furnish certified copies of all said insurance policies.

18. RIGHT TO VACATE:

Upon completion of the work herein contracted to be performed the Contractor shall have the right to remove within a reasonable length of time all temporary buildings and other fixtures including trade fixtures, machinery, equipment and appliances placed by the Contractor upon such lands.

19. DISPUTES:

This Agreement and any dispute arising hereunder shall be interpreted and determined in accordance with the laws of British Columbia

In the event there is a conflict between the provisions hereof and any papers or documents, which may have been executed or passed between the parties hereto in connection with the subject matter hereof, it is understood and agreed that the provisions hereof shall be controlling. It is expressly understood and agreed by the parties hereto that no provision of any delivery ticket, invoice or other instrument used by Contractor in setting forth the operations conducted hereunder shall supersede the provisions of this Agreement.

20. FORCE MAJEURE

Neither Company nor Contractor shall be liable to the other for any delays or damages or any failure to act due, occasioned, or caused by reason of Provincial laws or the rules, regulations or orders of any public body or official purporting to exercise authority or control respecting the operations covered hereby, including the use of tools and equipment, or due, occasioned, or caused by strikes, action of the elements, or causes beyond the control of the elements, or causes beyond the control of the parties affected hereby, and delays due to the above causes, or any of them shall not be deemed to be a breach of or failure to perform under this Agreement.

21. NOT ASSIGNABLE:

It is mutually agreed that this Agreement shall be binding upon and enure to the benefit of the parties hereto, their respective successors and permitted assigns, but shall not be assignable by either party without the consent in writing of the other party first had and obtained.

22. MAILING ADDRESSES:

That any notice required to be given hereunder shall be properly given if mailed by registered letter addressed to the Company as follows:

11th Floor Petroleum Plaza
9945 - 108 Street
Edmonton, Alberta

or to the Contractor by registered letter addressed as follows:

804 - 470 Granville Street
Vancouver, B. C.

This AGREEMENT may be altered only by written consent of both parties hereto.

23. TIME IS OF THE ESSENCE:

Time is expressly declared to be the essence of this Contract. If either party hereto defaults in the performance of this Contract of work commenced under work orders as provided for herein, the other party has the option to terminate this Contract and the work order involved.

WITNESS the signatures of the parties hereto in DUPLICATE ORIGINALS, this 30th day of SEPTEMBER, A.D. 1975.

WITNESSES:

WITNESSES:

W. Van Luyk

PRECAMBRIAN SHIELD RESOURCES LIMITED
11th Floor, 9945 - 108 Street
Edmonton, Alberta

Company

By: Carl E. Curry
Res.

SHEPHERD ENTERPRISES LTD.
804 - 470 Granville Street
Vancouver, B. C.

Contractor

By: Jim Heslop



EXHIBIT A

BID SHEET AND JOB SPECIFICATIONS

11th Floor Petroleum Plaza
9945 - 108 Street
Edmonton, Alberta

To: Shepherd Enterprises Ltd.
804 - 470 Granville Street
Vancouver, B. C.

Gentlemen:

We solicit your bid to drill and complete the hereinafter designated project.

This bid form has been filled in by us to the extent necessary to identify the project, the quantity, and size of core desired. If you desire to submit a bid, please complete this instrument in every respect, execute the original and two copies, and return to our office at _____ not later than _____ A.M./P.M.
_____ 19__.

Very truly yours,

Recambrian Shield Resources Limited
[Signature]
Company

1. INTRODUCTION:

Minimum footage 1,500' No. of drills ONE (1)
Starting date October 1, 1975 Completion date As soon as possible
Location (attach map) LADNER CREEK - HOPE, B. C.
Access - all weather road (), winter road (), aircraft (), others specify _____

2. DESCRIPTION OF WORK:

The work is to consist of a series of drill holes, drilled at locations specified by the Company. A total minimum footage of 1,500 feet shall be drilled but, total footage may be extended by mutual consent. Holes shall be drilled with BQWL tools producing 1 7/16" diameter core. Maximum depth of any hole shall not exceed 800 feet, and minimum depth shall be 150 feet. The Contractor will not be called upon to drill any hole at a flatter angle than 45 degrees. Measurement of all holes shall be taken from the top of the casing pipe. If holes of a greater depth than 800 feet are desired, such drilling shall be performed only upon such conditions and at such rates as may be agreed upon before commencement of such drilling.

3. SCHEDULE OF RATES:

The Company agrees to pay the Contractor for footage drilled and other services performed as follows:

(a) Coring at Bedrock

Table with 3 columns: Depth Intervals, BQWL Size, and Price per Foot. Rows include 0-500 Ft., 500-1000 Ft., and 1000-1500 Ft. with prices like \$9.75/Ft. and \$10.50/Ft.

(b) Casing of Overburden

Depth Interval	
0 - 50 Ft.	\$ <u>9.75</u> /Ft.
50 - 100 Ft.	\$ _____ /Ft.
____ - ____ Ft.	\$ _____ /Ft.

(c) The following services will be provided on an operating Field Cost plus 15 % basis.

1. Casing of overburden over 50 ft.
2. Reaming and setting casing for borehole reduction, borehole stabilization, and control of return water.
3. Drilling caved or broken ground.
4. All cementing operations excluding setting time but including drilling of set cement.
5. Wedging of boreholes.
6. Supplying water to the drill when water supply over 2,000 ft. lateral and/or 250 ft. vertical lift from borehole collar under non-freezing conditions and 1,000 ft. lateral and/or 200 ft. vertical lift under freezing conditions.
7. Recovering pipe and/or casing at Company's request.

Where operating Field Costs are defined as:

OPERATING FIELD COSTS

Labour (including Supervision) 9.75 per man hour.
Drill, 8.00/hr pumps and service vehicles including normal operating repairs, N/A per drill hour.
Tractor \$1,500.00 per month per hour.
Water truck (excluding driver) N/A per hour.
Pumps for water supply

Type	Operating hourly Rate
<u>420 Bean Royal</u>	<u>1.00/hr</u>

Supplies consumed or damaged beyond use due to site conditions including diamond articles, mud ingredients, cement, rods, core barrels, etc. Site replacement value plus 15 %.

(d) The following services would be provided on a non-operating field cost plus 15 % basis.

1. Setting time for cement.
2. Delays caused by Company.
3. Travelling time of crew in excess of 30 minutes per man shift (Labour only).

Where non-operating field costs are defined as:

NON-OPERATING FIELD COSTS

Labour (including supervision) 9.75 per man hour.
Drill, pumps and service vehicle 6.50 per drill hour.
Tractor operating N/A per hour.
not operating N/A per hour.

(e) Testing of borehole

The Contractor, when instructed so to do, shall take any clinometer dip tests desired by the Company. The Contractor's charge for such test shall be at the rate of 28.00 feet of drilling at the depth where tested.

(f) **Transportation and moves**

Mobilization and Demobilization will be charged at a flat rate of \$800.00.

Moving between holes shall be charged at field cost plus 15% over 8 Rig Hours.

If Cat is used for building roads and site, it shall be charged at \$26.00 per hour.

(g) **Room and board** for Contractor's personnel will be provided by Contractor.

Contractor will provide meals for up to N/A of Company's representatives at a price of N/A per meal.

Room and board will be provided by Company to Contractor at N/A per man day.

(h) **Core boxes** will be provided by COMPANY. Contractor's rates for Core boxes on site

<u>Nominal core length</u>	<u>Core Size</u>	<u>Rate</u>
	<u>BQWL</u>	<u>\$2.75 ea.</u>

(i) **Core Splitter** to be supplied by Company

Contractor to supply core splitter at N/A per month.

(j) **Controlled Drilling**

The Contractor agrees to use controlled feeds when requested by the Company. An extra charge per foot will apply to all such controlled feed drilling as follows:

Controlled drilling on N/A Feed at N/A extra per foot
Controlled drilling on N/A Feed at N/A extra per foot

(k) **Standby Rental**

It is agreed that, at the completion of the present active drilling program, the Company may retain the Contractor's drilling equipment at the drill area for a rental rate of N/A per month, per drilling unit. The standby rental charge will cease to apply upon commencement of continuous drilling Program, or, on the giving of a written notice to the Contractor by the Company that the drilling equipment is no longer required.

(l) **Equipment Repairs**

If it becomes necessary to shut down the Contractor's equipment for repairs while the Contractor is performing work on an hourly basis, Contractor shall be allowed compensation for such repairs at the appropriate rate. The number of hours for which Contractor is to be compensated shall be limited as follows:

For any one repair job N/A hours.
Total hours per month N/A

(m) Special Agreements

In response to the above request our bid for the drilling of the project hereinabove described is submitted as set forth above.

SHEPHERD ENTERPRISES LTD.
804 - 470 Granville Street
Vancouver, B. C.

Contractor

Date: September 17, 1975

By: 

E. Tessmer, General Manager

SHEPHERD ENTERPRISES LTD.

INVOICE NO. 0090 PERIOD 1-15 OCT, 1975

November 13, 1975

DRILLING

HOLE #	FROM Metres	TO Metres	Feet	TOTAL FOOTAGE	PRICE	TOTAL
M-1	0	49.7	163	163	\$9.75	\$1,589.25
M-2	0	68.5	224	224	9.75	2,184.00
M-3	0	15.2	50	50	9.75	487.50
	19.8	29.5	32	32	9.75	312.00

\$ 4,572.75

TRAVELLING TIME

56 Man Hours @ \$9.75/hour 546.00

CAT TIME

36 Hours @ \$26.00/hour 936.00

NON-OPERATING FIELD COST

Move M-1 to M-2

8 man hours @ \$9.75/hour	=	\$ 78.00
2 machine hours @ \$6.50/hour	=	13.00
		<u>\$ 91.00</u>
Plus 15%		<u>13.65</u>

\$104.65

Move M-2 to M-3

14 man hours @ \$9.75/hour	=	\$136.50
3 machine hours @ \$6.50/hour	=	19.50
		<u>\$156.00</u>
Plus 15%		<u>23.40</u>

\$179.40

284.05

OPERATING FIELD COST

PULLING CASING M-1

6 man hours @ \$9.75/hour	=	\$ 58.50
2 machine hours @ \$8.00/hour	=	16.00
2 pump hours @ \$1.00/hour	=	2.00
		<u>\$ 76.50</u>
Plus 15%		<u>11.48</u>

\$ 87.98

PULLING CASING M-2

2 man hours @ \$9.75/hour	=	\$ 19.50
1 machine hour @ \$8.00/hour	=	8.00
1 pump hour @ \$1.00/hour	=	<u>1.00</u>

\$ 28.50

Plus 15%

4.28

\$ 32.78

DRILLING CASING M-3

4 man hours @ \$9.75/hour	=	\$ 39.00
2 machine hours @ \$8.00/hour	=	16.00
2 pump hours @ \$1.00/hour	=	<u>2.00</u>

\$ 57.00

Plus 15%

8.55

\$ 65.55

\$ 186.31

\$ 6,525.11

LESS CHARGES TO CONTRACTOR'S ACCOUNT

Gas 235 gals. @ 0.75/gal.	=	\$176.25
Diesel 270 gals. @ 0.55/gal.	=	<u>148.50</u>

\$ 324.75

NET INVOICE

\$ 6,200.36

SHEPHERD ENTERPRISES LTD.

Invoice No. 0095

Period 16-31 October, 1975

November 13, 1975

DRILLING

HOLE #	FROM Metres	TO Metres	Feet	TOTAL FOOTAGE	PRICE	TOTAL
M-3	29.5	100.6	330	233	\$9.75	\$2,271.75
M-4	0	68.5	225	225	9.75	2,193.75
M-5	0	15.2	50	50	9.75	487.50
	24.4	79.3	260	180	9.75	<u>1,755.00</u>

\$ 6,708.00

TRAVELLING TIME

113 Man Hours @ \$9.75/hour

1,101.75

CAT TIME

54.5 hours @ \$26.00/hour

1,417.00

NON-OPERATING FIELD COST

Move M-3 to M-4

18 Man Hours @ \$9.75	-	\$175.50
4.5 Machine Hours @ \$6.50	-	29.25
		<u>204.75</u>
Plus 15%	-	<u>30.71</u>

\$235.46

Move M-4 to M-5

4 Man Hours @ \$9.75	-	\$ 39.00
1 Machine Hour @ \$6.50	-	6.50
		<u>45.50</u>
Plus 15%	-	<u>6.83</u>

\$ 52.33

Move M-5 to M-6

16 Man Hours @ \$9.75	-	\$156.00
4 Machine Hours @ \$6.50	-	26.00
		<u>182.00</u>
Plus 15%	-	<u>27.30</u>

\$209.30

497.09

OPERATING FIELD COST

PULLING CASING M-3

9 Man Hours @ \$9.75	-	\$ 87.75	
3 Machine Hours @ \$8.00	-	24.00	
3 Pump Hours @ \$1.00	-	3.00	
		<u>114.75</u>	
Plus 15%	-	17.21	
			\$131.96

PULLING CASING M-4

4 Man Hours @ \$9.75	-	\$ 39.00	
2 Machine Hours @ \$8.00	-	16.00	
2 Pump Hours @ \$1.00	-	2.00	
		<u>57.00</u>	
Plus 15%	-	8.55	
			\$ 65.55

DRILLING CASING M-5 50-80 FEET

12.8 Man Hours @ \$9.75	-	\$124.80	
6.4 Machine Hours @ \$8.00-	-	51.20	
6.4 Pump Hours @ \$1.00	-	6.40	
		<u>\$182.40</u>	
Plus 15%		27.36	
			\$209.76

PULLING CASING M-5

6 Man Hours @ \$9.75	-	\$ 58.50	
3 Machine Hours @ \$8.00	-	24.00	
3 Pump Hours @ \$1.00	-	3.00	
		<u>85.50</u>	
Plus 15%		12.83	
			\$ 98.33

\$ 505.60
\$10,229.44

LESS CHARGES TO CONTRACTOR'S ACCOUNT

Gas 225 gals. @ 0.75/gal.	-	\$168.75	
Diesel 360 gals. @ 0.55/gal.	-	<u>198.00</u>	

366.75

NET INVOICE

\$ 9,862.69

PRECAMBRIAN SHIELD RESOURCES LIMITED

11TH FLOOR, PETROLEUM PLAZA, NORTH TOWER
9945 - 108 STREET, EDMONTON, ALBERTA T5K 2G8
TELEPHONE (403) 429-0785

SHEPHERD ENTERPRISES LTD.

INVOICE NO. 0102

PERIOD 1-15 NOVEMBER, 1975

12 December, 1975

DRILLING

HOLE NO	FROM Metres	TO Metres	Feet	TOTAL FOOTAGE	PRICE	TOTAL
M-6	0	67.4	221	221	9.75	2,154.25
M-7	0	15.2	50	50	9.75	487.50
	25.6	84.4	277	193	9.75	<u>1,881.75</u>

\$4,524.00

TRAVELLING TIME

140 man hours @ 9.75/hour 1,365.00

CAT TIME

49.5 hours @ 26.00/hour 1,287.00

NON-OPERATING FIELD COST

Move M-6 to M-7

	20 machine hours	80 man hours
Less:	<u>8 machine hours</u>	<u>32 man hours</u>
Charge:	12 machine hours	48 man hours

48 man hours @ 9.75	=	\$468.00
12 machine hours @ 6.50	=	78.00

546.00

Plus 15% 81.90

627.90

.... 2

OPERATING FIELD COST

Drilling Casing Hole M-7 50-84'

8 man hours @ 9.75 - 78.00
4 machine hours @ 8.00 - 32.00
4 pump hours @ 1.00 - 4.00

114.00

Plus 15% 17.10

131.10

Pulling Casing Hole M-7

6 man hours @ 9.75 - 58.50
3 machine hours @ 8.00 - 24.00
3 pump hours @ 1.00 - 3.00

85.50

Plus 15% 12.82

98.32

\$ 229.42

MOBILIZATION AND DEMOBILIZATION

800.00

\$8,833.32

LESS CHARGES TO CONTRACTOR'S ACCOUNT

Gas 190 gals. @ 0.75/gal. =
Diesel 225 gals. @ 0.55/gal. =

142.50

123.75

266.25

NET INVOICE

\$8,567.07

Phone Merritt 378-2186

In Account With

H. E. SANDERS LTD.

LOGGING

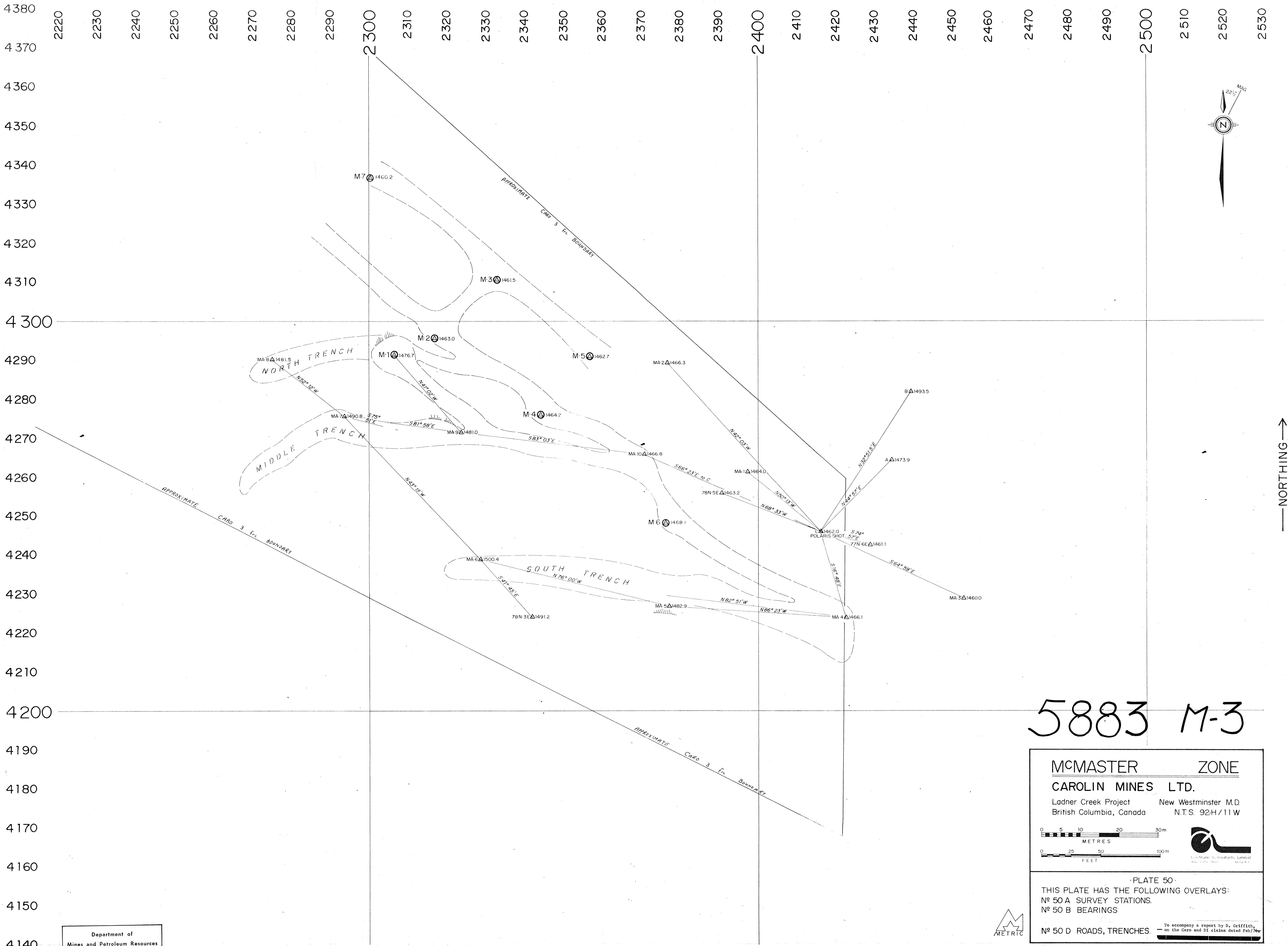
CONSTRUCTION

Box 80 - Lower Nicola, B.C.

M. Precambrian Shield Resources Ltd,
9945-108 Street,
Edmonton, Alta.

T025C	Tractor Rental			
	Sept - Oct 1975			
	Roads and Trenching		\$ 11,742.00	
	206 hrs @ 57.00 / hr			
	Operator with Power all		\$ 1,980.00	
	198 hrs @ 10.00 / hr			
	Hauling Charge		\$ 400.00	
	Less Board		\$ 4,122.00	
	34 mandays @ 5.00		\$ 170.00	
	OK. <i>[Signature]</i>		\$ 13,952.00	
	<i>[Signature]</i>			

#2095



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5883 MAP 3

5883 M-3

MCMMASTER ZONE
CAROLIN MINES LTD.
 Ladner Creek Project New Westminster M.D.
 British Columbia, Canada N.T.S. 92H/11W

0 5 10 20 30m
 METRES
 0 25 50 100ft
 FEET

· PLATE 50 ·
 THIS PLATE HAS THE FOLLOWING OVERLAYS:
 N° 50 A SURVEY STATIONS.
 N° 50 B BEARINGS
 N° 50 D ROADS, TRENCHES.

To accompany a report by D. Griffith,
 on the Care and its claims dated Feb/74



Nov/75. B.A.C.

← WESTING →

← NORTHING →