

82K/10E

FRANCES CREEK MINES LTD.

DRILLING REPORT

4747

SOUTH GROUP

First Effort L. 11426

4747

MINERALS

COAL

Department of
OIL & GAS

303 WILDWOOD DRIVE S.W., CALGARY, ALBERTA T3C 3E2

Mines and TELEPHONE (403) 242-426

ASSESSMENT REPORT

FRANCES CREEK MINES LTD. 4747 MAP

DRILLING REPORT * SOUTH-GROUP

General

A two-phase drilling program to be conducted on the Frances Creek property of Frances Creek Mines Ltd. was contracted by Shepherd Industries Ltd., of Rossland, B.C. The initial phase of the program at the higher elevations of the North Group was cut short due to weather conditions.

The drilling rig, a BBS1, and crew moved onto the South Group on September 18, 1973 and drilling commenced the following day. Considerable delay was experienced throughout the program due to faulty equipment primarily, and the program was suspended for the season by mutual consent of the Company and the Contractor on October 15.

Three drill hole sites were spotted to test the vein structure that is exposed in the No. 4 adit and in a bulldozer cut just to the south of the portal. Only one of the holes, No. 3, was completed, and intersected the vein.

Diamond Drill Hole No. 2

Drill Hole No. 2 was spotted to intersect the vein structure to the south, and well downhill from the mineralized surface exposures. When it became obvious that because of the slope of the bedrock surface in this area that the hole would not hit bedrock until beyond the projected extension of the vein, the hole was abandoned at a depth of 30'

Diamond Drill Hole No. 3

Drill Hole No. 3 was drilled to a depth of 237 feet. It encountered the mineralized vein over the interval 192½' - 195'. This two and one-half foot section assayed Au.- 0.006 oz/T, Ag.- 6.71 oz/T, Pb.- 2.95%, Zn.- 0.21 %. These figures can be compared to the weighted average of the assays taken every ten feet over the 160' length of Adit No. 4. This average ran Ag.- 4.11 oz/T, Pb. 6.83%, and Zn.- 3.46% over an average width of two feet. Hole No. 3 intersects the vein 123 feet lower in elevation than the exposure in Adit No. 4.

Diamond Drill Hole No. 4

Hole No. 4 was collared upslope from No. 3, 103' higher in elevation with the intent of tapping the vein beyond the face of the No. 4 tunnel. The hole was drilled to 157' where because

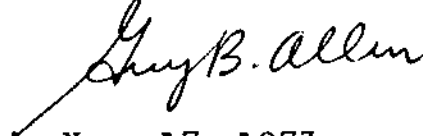
of mechanical problems with the drilling equipment, the Contractor was unable to complete the hole. Casing was left in the hole so that it may be deepened next year.

Conclusions

Due to the unsatisfactory performance by the drilling contractor, the drilling program proposed for the South Group of claims was not completed, and the results obtained were inconclusive. It would appear, however, that:

1. The mineralized vein as exposed in Adit No. 4 probably extends at lease to an additional depth of 100 ft.
2. The assay values of the vein as exposed in Hole No. 3 approximate the weighted average of assays taken from the No.4 tunnel.

Guy B. Allen, P. Eng.



Nov. 17, 1973



Expiry Date: April 22, 1974

MAPS

#1 No.4 Adit area - Survey of Workings
& Mineral Shows

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COAL

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FRANCES CREEK MINES LTD.

DRILL LOG

Diamond Drill Hole No. 2: Bearing - North 60°E
Dip - -45°
Completed - Abandoned at 30', Sept. 20/73

<u>From</u> <u>ft.</u>	<u>To</u> <u>ft.</u>	<u>DESCRIPTION</u>	<u>Au</u> <u>oz/T</u>	<u>Ag</u> <u>oz/T</u>	<u>Pb</u> <u>%</u>	<u>Zn</u> <u>%</u>
0	30 TD	Overburden				

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FRANCES CREEK MINES LTD.

DRILL LOG

Diamond Drill Hole No. 3: Bearing - North 60°E
Dip - -45°
Completed - Sept. 29, 1973

<u>From</u> <u>ft.</u>	<u>To</u> <u>ft.</u>	<u>DESCRIPTION</u>	<u>Au</u> <u>oz/T</u>	<u>Ag</u> <u>oz/T</u>	<u>Pb</u> <u>%</u>	<u>Zn</u> <u>%</u>
12	32	<u>Dolomite</u> - light grey and tan, argillaceous, siliceous, fine grained, dense, hard, minor fracturing filled with quartz and calcite, minor dark grey argillite partings near top.				
32	33	<u>Argillite</u> - dark grey, partly siliceous, slightly fissile, broken, fractured with quartz veining.				
33	43	<u>Dolomite</u> - as above (12' - 32')				
43	60	<u>Dolomite</u> - very argillaceous, siliceous light brown and light grey, earthy, partly banded, fractured with quartz and minor calcite.				
60	76	<u>Dolomite</u> - light brown and grey, siliceous, hard, very argillaceous in part, fractured with quartz and calcite veins.				
76	86½	<u>Dolomite</u> - as above (60'-76') less argillaceous, disseminated pyrite, changes to light to medium grey at 86'				
86½	87½	<u>Argillite</u> - siliceous, dark grey, some laminations, well veined with calcite				
87½	99	<u>Dolomite</u> - light to medium brown, sharp, angular, siliceous, argillaceous, fractured with some calcite veining.				
99	103½	<u>Argillite</u> - dark grey, siliceous, calcite veins parallel to bedding ¼"-½" wide, occasional dolomite inclusion near contact				
103½	110	<u>Dolomite</u> - very argillaceous, siliceous, medium to dark grey and brown, banded, black specks, also limy bands.				

From ft.	To ft.	DESCRIPTION	Au oz/T	Ag oz/T	Pb %	Zn %
110	112	<u>Argillite</u> - siliceous, compact, dark grey, calcite veins parallel to bedding, mottled				
112	117	<u>Dolomite</u> - medium grey, mottled with darker blotches, very slightly calcareous, angular, argillaceous, siliceous.				
117	131	<u>Argillite</u> - very dolomitic, light to medium brown, siliceous, earthy, dirty, slightly calcareous, slightly fractured, non-bedded - more siliceous at 119' highly fractured and broken 122'-126' - partly brecciated 127'-131'				
131	136	<u>Dolomite</u> - very argillaceous, siliceous, light to medium brown, fractured, some banding, fine grained, disseminated pyrite.				
136	137½	<u>Argillite</u> - dark grey, banded, fractured, very fine grained.				
137½	186	<u>Dolomite</u> - very argillaceous, light to medium brown, mottled, siliceous, partly banded, earthy, partly brecciated, partly vugular.				
186	186½	<u>Argillite</u> - light grey, soft, crumbly, earthy.				
186½	192	<u>Schist</u> - very argillaceous, dolomitic, siliceous, very fractured and broken, fine grained, light to medium brown, earthy, manganese staining, occasional tiny veinlet with galena and pyrite.				
192	192½	<u>Dolomite</u> - light buff to brown, argillaceous, ground-up, fractured				
192½	195	<u>Schist</u> - argillaceous, earthy, very fractured, well mineralized with galena; assay - A	0.006	6.71	2.95	0.21
195	215	<u>Dolomite</u> - buff, light grey, fine grained, slightly argillaceous, uniform texture, very hard, compact, occasional hairline fracture with very minor galena, minor disseminated pyrite, partly banded.				

<u>From</u> <u>ft.</u>	<u>To</u> <u>ft.</u>	<u>DESCRIPTION</u>	<u>Au</u> <u>oz/T</u>	<u>Ag</u> <u>oz/T</u>	<u>Pb</u> <u>%</u>	<u>Zn</u> <u>%</u>
215	215 $\frac{1}{2}$	<u>Dolomite</u> - brown, very argillaceous, earthy, $\frac{1}{2}$ "manganese band				
215 $\frac{1}{2}$	237 TD	<u>Dolomite</u> - light grey with brown, partly argillaceous, hard, dense, disseminated pyrite.				

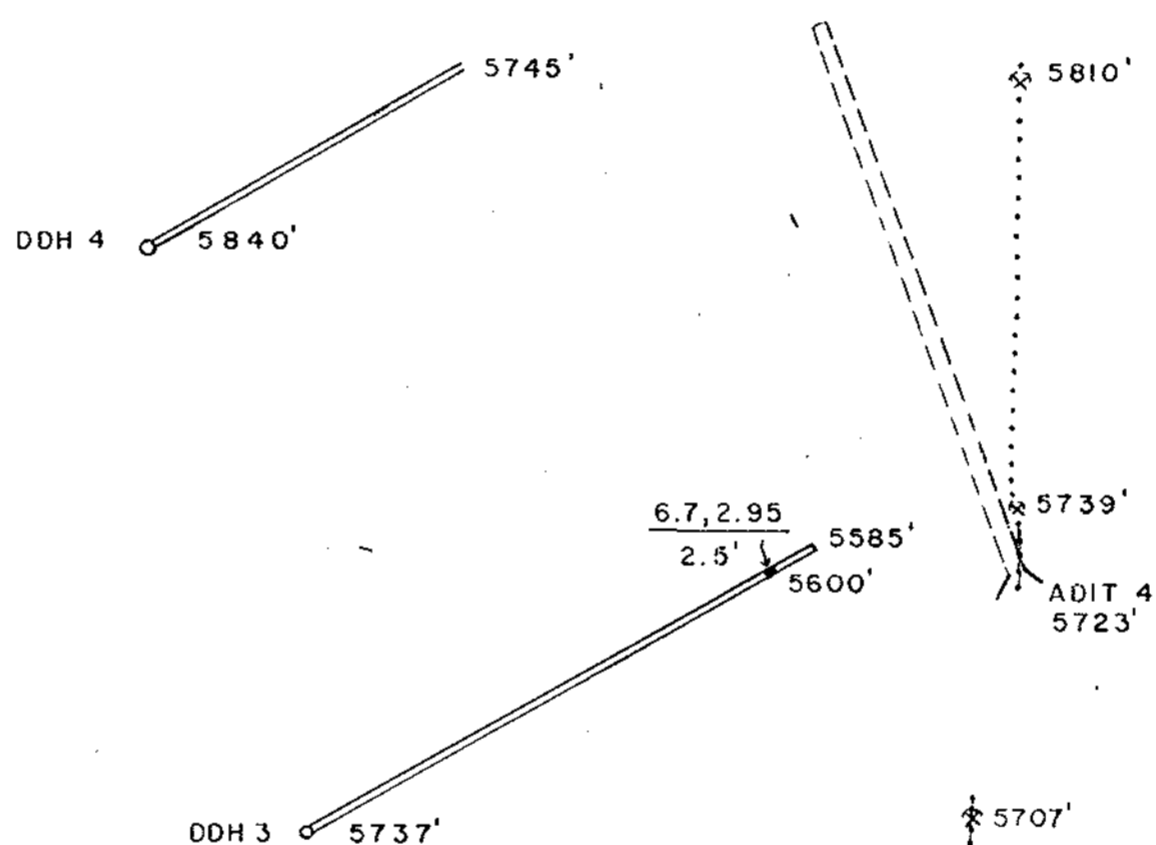
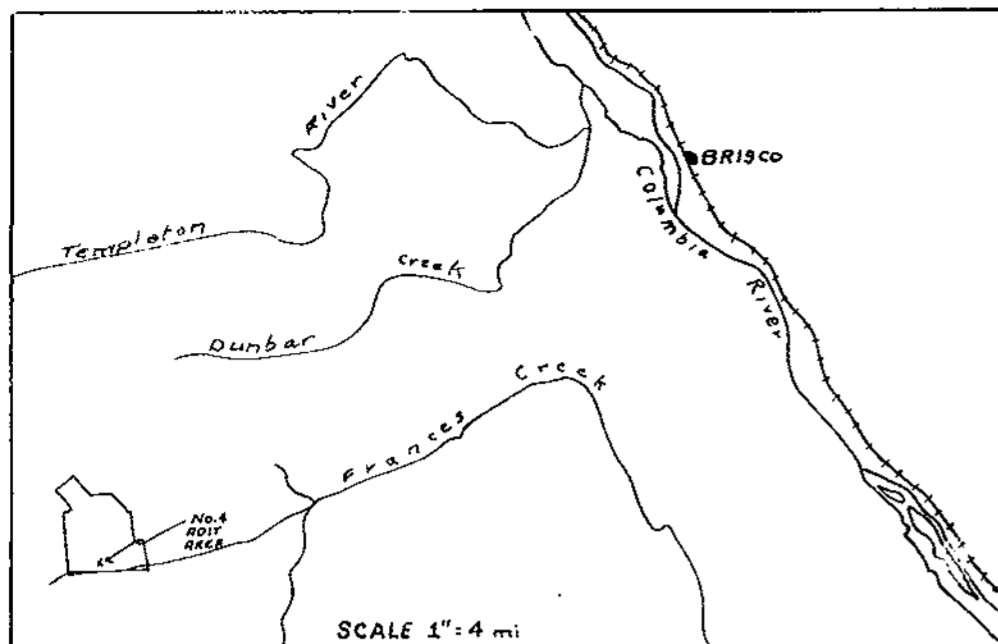
FRANCES CREEK MINES LTD.

DRILL LOG

Diamond Drill Hole No. 4 Bearing - North 60°E
Dip - -45°
Completed - Suspended at 157'
Oct. 15, 1973

From ft.	To ft.	DESCRIPTION	Au oz/T	Ag oz/T	Pb %	Zn %
15	25	<u>Dolomite</u> - light grey to light brown, argillaceous, siliceous, dirty, fine grained. fractured, slightly mottled.				
25	28	<u>Limestone</u> - light grey with brown, dolomitic, siliceous, argillaceous, part vugular, fractured.				
28	33	<u>Dolomite</u> - light grey to brown, argillaceous, fine grained, fractured, slightly limy, slightly mottled.				
33	47	<u>Dolomite</u> - dark grey, very argillaceous, slightly banded, hard, dense, part limy.				
47	48	<u>Limestone</u> - light grey and brown, siliceous, argillaceous, vugular, fractured.				
48	53½	<u>Argillite</u> - light to medium brown siliceous, fractured, mottled, limy, interbedded with <u>Limestone</u> - very argillaceous, part vuggy, siliceous, light to medium brown				
53½	62½	<u>Dolomite</u> - light brown, very argillaceous, fine grained, dense, fractured.				
62½	64½	<u>Argillite</u> - dark grey, mottled, banded, firm, dense, siliceous.				
64½	87	<u>Dolomite</u> - very argillaceous, light brown, fractured, siliceous - dark grey 83' - 84'				
87	90	<u>Argillite</u> - dark grey to black, mottled with some dolomite, possible minor shear, some soft fault gouge				

<u>From</u> <u>ft.</u>	<u>To</u> <u>ft.</u>	<u>DESCRIPTION</u>	<u>Au</u> <u>oz/T</u>	<u>Ag</u> <u>oz/T</u>	<u>Pb</u> <u>%</u>	<u>Zn</u> <u>%</u>
90	114	<u>Dolomite</u> - light brown and grey, argillaceous, uniform texture and color to 93', then banding and quartz veining, mottled, hard and dense in part.				
114	120	<u>Argillite</u> - dark grey, banded, siliceous, fine grained, dense, occasional dolomite band as above				
120	121 $\frac{1}{2}$	<u>Dolomite</u> - light brown, argillaceous, fine grained, hard, dense, fractured.				
121 $\frac{1}{2}$	138	<u>Argillite</u> - dark grey, banded, siliceous, fine grained				
138	143	<u>Dolomite</u> - very argillaceous, light brown to dark grey, part banded, mottled.				
143	153	<u>Argillite</u> - dark grey, banded, siliceous, fine grained, dense.				
153	153 $\frac{1}{2}$	<u>Dolomite</u> - very argillaceous, siliceous, partly vugular, light brown, fractured with calcite veins.				
153 $\frac{1}{2}$	157 TD	<u>Argillite</u> - dark grey, banded, considerable calcite veining, very fine grained, laminated in part.				



4747 MI

KLICK 2
16215

L 11426



DDH 2 5596'

Mines and Resources
ASBC BCRT
NO. 4747 #1

FIGURE 3

FRANCES CREEK MINES LTD.
NO. 4 ADIT AREA
SURVEY OF WORKINGS & MINERAL
SHOWS

SCALE: 1" = 50'

ADIT

$\frac{6.7, 2.95}{2.5} = \frac{\text{Ag, Pb}}{\text{Ft.}}$

UNDERGROUND TUNNEL

MINERALIZED VEIN, KNOWN, APPROXIMATE

596 ELEVATION (ABOVE SEA LEVEL)

DIAMOND DRILL HOLE