

WYOMING STATE GEOLOGICAL SURVEY

**MINERS CANYON DISTRICT, FERRIS MOUNTAINS,
WYOMING**

by

W. Dan Hausel
Senior Economic Geologist
Wyoming State Geological Survey
Box 3008, University Station
Laramie, Wyoming 82071

MINERAL REPORT MR92-5

Laramie, Wyoming
1992

This field report has not been reviewed for conformity with the editorial standards of the Wyoming State Geological Survey.

MINERS CANYON DISTRICT, FERRIS MOUNTAINS, WYOMING

by
W. Dan Hausel
Senior Economic Geologist
1992

On July 13, 1992, I met Nancy Bowers, graduate student of geology with the University of Wyoming, to tour her field area in the Miners Canyon area in the eastern Ferris Mountains. Miners Canyon represents a small, previously unmapped, Archean supracrustal fragment. Nancy has mapped a succession of metasedimentary, metavolcanic, and intrusive rocks in this area (see attached map from her work).

This was my first visit to Miners Canyon, so I was pleasantly surprised to see extensive gossans, a number of prospect pits, and mines. Nancy showed me three adits that were still accessible which I hope to map in the future. Samples collected for assay represent only a cursory reconnaissance of the area, and based on the extensive gossans, I recommend follow-up detailed sampling as well as mapping of the three accessible adits.

The following samples were collected for assay:

FM1-92: S/2 NE section 6, T26N, R86W. Brecciated graphitic schist with abundant iron stains collected in gossan from a prospect pit along the western canyon wall.

FM2-92: E/2 E/2 section 6, T26N, R86W. Graphitic schist with abundant iron stains and boxworks from a large graphitic schist lode above cabin.

FM3-92: E/2 E/2 section 6, T26N, R86W (collected a short distance east of FM2-92). Sample of quartz-pyrite vein hosted by iron-stained graphitic schist exposed in a prospect pit. Some rocks coated with sulfide.

FM4-92: E/2 NE section 6, T26N, R86W. Chloritic schist collected from mine rib in crosscut tunnel east (downslope) of Spanish mine. Adit driven in northern hillside to test gossaniferous graphitic schist exposed in pits above adit.

FM5-92: Arsenopyrite-quartz sample collected from muck pile at intersection of crosscut tunnel with westerly trending drift near mine face. Contains traces of pyrite and chalcopyrite.

FM6-92: NW section 5, Cupriferous shear zone cataclastics collected from mine dump near old historic cabin remains.

FM7-92: E/2 SE section 6, T26N, R86W. Copper prospect in sheared metavolcanics southeast of Spanish mine. Sample collected from dump contains malachite, chalcopyrite, bornite, and galena.

FM8-92: W/2 W/2 SW section 5, T26N, R86W. Pyrrhotite-bearing metavolcanic from mine dump in canyon southeast of Spanish mine.

FM9-92: NE section 6, T26N, R86W. Sample of copper-stained granodiorite from inclined shaft.

| Sample No. | Au (ppb) | Ag (ppm) | Cu (%) | Pb (%) | Zn (ppm) | As (ppm) |
|------------|----------|----------|--------|--------|----------|----------|
| FM1-92 | 45 | 5.4 | -- | -- | -- | -- |
| FM2-92 | 6 | 1.5 | -- | -- | -- | -- |
| FM3-92 | 45 | 1.5 | -- | -- | -- | -- |
| FM4-92 | 45 | 10.1 | -- | -- | -- | -- |
| FM5-92 | 45 | 4.1 | -- | -- | -- | 1,330 |
| FM6-92 | 45 | 2.9 | 0.87 | 0.12 | 335 | -- |
| FM7-92 | 164 | 313.9 | 2.72 | 7.67 | 5,797 | -- |
| FM8-92 | 6 | 0.9 | -- | -- | -- | 126 |
| FM9-92 | 390 | 26.4 | 6.65 | 0.004 | 190 | -- |

DATE PRINTED: 15-SEP-92

PROJECT: DR792-V

PAGE 1A

REPORT: V92-32159.0 (COMPLETE)

| SAMPLE NUMBER | ELEMENT UNITS | Au PPB | Ag PPM | Cu PPM | Pb PPM | Zn PPM | As PPM | LA PPM | CE PPM | Nd PPM | Sn PPM | EU PPM | Tb PPM |
|---------------|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| R2 BC3-92 | <i>Pratt mine</i> | <5 | | | | | | 28 | 56 | 24 | 3.9 | <0.5 | 1 |
| R2 BC4-92 | | | | | | | | 11 | 17 | <10 | 1.8 | <0.5 | <1 |
| R2 CH1-92 | <i>Cooper Hill</i> | <5 | <0.1 | | | | | | | | | | |
| R2 CH2-92 | | <5 | <0.1 | | | | | | | | | | |
| R2 CH3-92 | | 6 | <0.1 | | | | | 13 | 25 | 10 | 5.2 | 1.5 | 3 |
| R2 CH4-92 | | 5 | <0.1 | | | | | | | | | | |
| R2 CH5-92 | | 71 | 1.9 | >20000 | 128 | 55 | | | | | | | |
| R2 FH1-92 | <i>Prospect pit</i> | <5 | 5.4 | | | | | | | | | | |
| R2 FH2-92 | | 6 | 1.5 | | | | | | | | | | |
| R2 FH3-92 | | <5 | 1.5 | | | | | | | | | | |
| R2 FM4-92 | <i>Ferris mtns</i> | <5 | <0.1 | | | | | | | | | | |
| R2 FM5-92 | | <5 | 4.1 | | | | | | | 1330.0 | | | |
| R2 FM6-92 | | <5 | 2.9 | 8744 | 1161 | 335 | | | | | | | |
| R2 FM7-92 | | 164 | >50.0 | >20000 | >10000 | 5797 | | | | | | | |
| R2 FM8-92 | | 6 | 0.9 | | | | | | 126.0 | | | | |
| R2 FM9-92 | | 390 | 26.4 | >20000 | 35 | 190 | | | | | | | |
| R2 OCT1-92 | | <5 | <0.1 | | | | | 9 | 21 | <10 | 2.5 | 0.7 | <1 |
| R2 Q04-92 | | <5 | 1.6 | | | | | <1 | <2 | <10 | <0.1 | <0.5 | <1 |
| R2 Q05-92 | <i>Eric Neilson</i> | 20 | <0.1 | | | | | 20 | 32 | 14 | 2.0 | 0.5 | <1 |
| R2 Q06-92 | | 8 | <0.1 | | | | | 5 | 9 | <10 | 0.3 | <0.5 | <1 |
| R2 Q07-92 | | <5 | <0.1 | | | | | 4 | 6 | <10 | 0.6 | <0.5 | <1 |
| R2 920708-1 | | | | | | | | | | | | | |

follow-up runs are in progress - 9/22/92

Bondar-Clegg & Company Ltd.
10 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex (4-352667



Certificate of Analysis

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 28-SEP-92

REPORT: V92-32159.6 (COMPLETE)

PROJECT: DR792-V

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | Ag OPT | Cu PCT | Pb PCT |
|------------------|------------------|-----------|-----------|-----------|
| R2 CH5-92 | | | 3.65 | |
| R2 FM7-92 | | 9.15 | 2.72 | 7.62 |
| R2 FM9-92 | | | 6.65 | |