

6257

REPORT ON THE

RENN PROPERTY

GOLDEN AREA-B.C.

for

MEDESTO EXPLORATION LTD.

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

NO. _____

by
D.K. Robertson Ph.D.,
P. Geoph.

November 1976

- #1 SURFACE GEOLOGY
- #2 STRUCTURAL GEOLOGY
- #3 LOCATION

David Robertson

REPORT ON THE RENN PROPERTY

GOLDEN AREA, B.C.

MEDESTO EXPLORATION LTD.

DESCRIPTION AND LOCATION OF PROPERTY

Fifty claims held in the name of R. Renn and located 52 miles south of Golden, B.C. are under option to Medesto Exploration Ltd. These claims immediately adjoin the southern limit of the Ruth-Vermont mine property owned by Consolidated Columbia River Mines, and are readily accessible via the road to that mine.

The most recent reports on the Ruth-Vermont mine (The Northern Miner, Nov. 4, 1976) indicate a milling rate of some 6,000 tons per month with average mill heads of some 4% lead, 5% zinc and between 6 and 7 oz. per ton of silver. Proximity of this small producing mine to the property under option to Medesto offers promise that even a small tonnage operation could be economically exploited by custom milling at the Ruth-Vermont.

GEOLOGY

The Ruth-Vermont mine is on structural strike with the Medesto option, and both properties are underlain by the Horsethief Creek Series of early Precambrian age. Rocks of this Series are dominantly argillite, quartzite and conglomeratic quartzite, and limestone, in

that order of dominance. The Ruth-Vermont orebody consists of veins and irregular replacement bodies of argentiferous galena, sphalarite and pyrite within a 50 ft. thick limestone along the axis of a prominent synclinal fold. Similar limestones are known to occur on the Medesto option, and similar mineralization has been located in them both in surface exposures and in a diamond drill hole.

The Horsethief Creek Series in this area shows regional southwest dip which averages some 30d, interrupted by northwesterly trending folds, many of which appear to plunge out rather abruptly in both directions. It is felt that these fold axes, notably where they involve limestones, are the dominant ore controlling feature.

Geology of the area is portrayed by GSC Map 12-1957 and by the 1" = 1,500 ft. structural map enclosed. More detailed geological work on the property is severely hampered by the virtual non-existence of outcrop below an elevation of 7,000 ft., except for artificial exposures created by road-building and trenching.

HISTORY OF EXPLORATION:

These claims were staked by Mr. R. Renn of Calgary in 1965, and assessment work was satisfied through

1973 by road building, diamond drilling and trenching. almost all of this work was performed within an area of about one claim in size centered on a synclinal axis which was believed to be the projection of the Ruth-Vermont syncline and which had minor surface showings of galena associated with it. No adequate records of the drilling activity appear to have been kept, or if kept were destroyed in a fire on the mine property. It appears safe to say, however, that the results of these operations were largely negative, other than establishing the presence of minor galena showings on the property, some of which yielded spectacular assays from character samples.

In 1974, Medesto conducted a soil geochemical survey of an area of some 2,400 ft. by 2,200 ft. (i.e. about 4 claims), again centered on the then-known surface showings. The survey was run on lines 200 ft. apart oriented perpendicular to strike, with sample spacing of 25 ft. along the lines. Soil samples were collected from beneath the "A" zone of the soil profile and processed and analysed by atomic absorption spectrometry by Loring Laboratories Ltd. The maps of ppm Pb and ppm Zn, hereto appended, showed four interesting anomalies in which the soil values rose to in excess of 20 times background.

In 1975, Medesto undertook to drill all four

of these anomalies using a small portable diamond drill. Four holes totalling 265 ft. were drilled. One of these (# 1-75) encountered an 8 ft. mineralized zone which assayed on overall average, 2.4 oz/ton silver, 2.17% lead and 5.6% zinc. (see assay report in appendix). Hole # 2-75 was lost due to stuck drill pipe short of objective depth. Hole # 3-75 was completed with negative results and Hole # 5-75 failed to reach bedrock, thus failing to yield any evaluation of the prominent "C" anomaly. It was evident from this drilling program that ground conditions required a heavier drill to achieve the desired results.

The 1976 Medesto program was, because of shortage of funding, restricted to preparation of sites for future drilling, along with some trenching. Roadbuilding on Line 600S to the west of the baseline uncovered, at 675W and therefore on the east edge of the "C" anomaly, a three foot wide vein within the central portion of a 25 ft. thick limestone, carrying massive galena in the central portion. A crude channel sample, badly weathered, across the three foot width of this vein assayed 7.5 oz/ton silver, 20.06% lead and 4.18% zinc. A character sample of massive galena from the central portion assayed 21.24 oz/ton silver, 59.47% lead and 0.80% zinc (see assay report in Appendix). a trench some 75 ft. to the north of this intersection located the same vein, but

pinched to an 18 inch width and carrying less galena. Unfortunately, topography did not permit building the road west of station 675 west, so that drill investigation of both this vein and anomaly "C" will have to be from the east, or downdip side. This can be done however, since the bedding at this locale is very close to vertical.

RECOMMENDATIONS FOR FURTHER WORK:

Although no commercial body of ore is yet known on the Medesto-optioned Renn property the proximity to a producing mine, the encouraging showings to date, and the size of the property fully justify further exploratory operations.

The following program is recommended:

- 1.) A 600 ft. drilling program, using a "BQ" diamond drill, to drill a further two holes on the "A" anomaly (200 ft.) and two holes to investigate the "C east" vein and the "C" geochemical anomaly (400 ft.) Cost of this program is estimated at:

600 ft. @ \$20/ft.	\$12,000
Site preparation	2,000
Assays and supervision	<u>750</u>
	\$14,750

- 2.) Extend a reconnaissance soil geochemical survey west from the baseline to the west boundary of the property, with lines on

400 ft. spacing. Cost of this program is estimated at:

2,500 ft. secondary baseline	\$1,000
6,000 ft. soil sampling	3,000
Analysis of 250 samples @ \$2.50	625
Supervision	<u>500</u>
	\$5,125

- 3.) Extend detailed geological survey above treeline and to west boundary of property. Cost is estimated at:

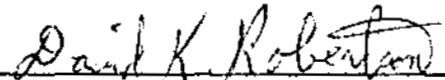
10 geological man-days @ \$200	\$2,000
Travel and subsistence	500
Report and assays	<u>500</u>
	\$3,000

- 4.) Contingent on the results of the above programs, and giving due consideration to the size and potential of the property, it would be prudent to budget for an additional 600 ft. of drilling at a cost of:

600 ft. @ \$20/ft.	\$12,000
Site preparation	3,000
Assays and supervision	<u>750</u>
	\$15,750

CERTIFICATE

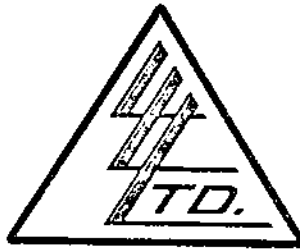
This is to certify that I am a registered geophysicist in the Province of Alberta and that I have personally visited the property described in this report. I have no interest in the property herein described.



David K. Robertson, Ph. D.,
P. Geoph.

12903 - Stony Plain Road,
Edmonton, Alberta
T5N 3P

To: MEDESTO EXPLORATIONS,
215 A-10th St. N.W.,
CALGARY, Alberta.



File No. 10568
Date October 1, 1975
Samples Cores

ATTN: Mr. G. Evans

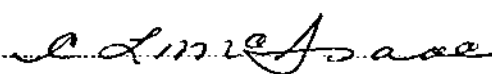
Certificate of
ASSAY of
LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON SILVER	% Pb	% Zn
<u>Hole 41-75</u>			
<u>CORE SAMPLES</u>			
ME-C1 42-45	3.31	2.81	7.66
ME-C2 46-50	1.75	1.69	4.10

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

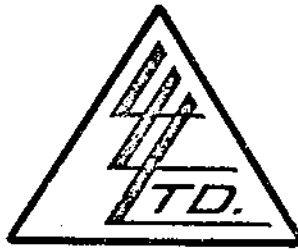
Rejects Retained one month.

Pulps Retained one month
unless specific arrangements
made in advance.


Licensed Assayer of British Columbia

To: MEDESTO EXPLORATIONS,
 215 A-10th St. N.W.,
 Calgary, Alberta

File No. 11922
 Date August 30, 1976
 Samples Chips



Certificate of
 ASSAY of
 LORING LABORATORIES LTD.

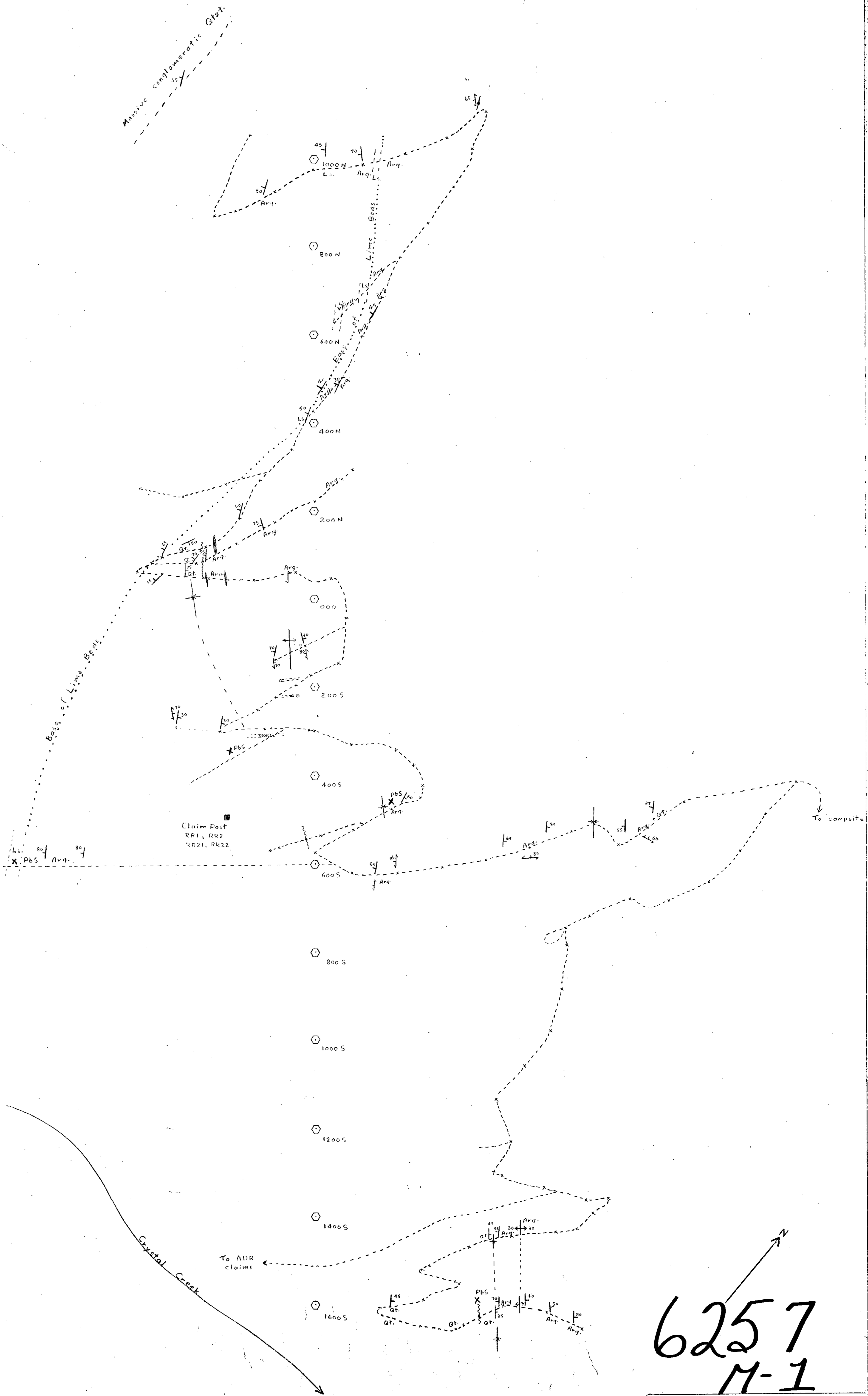
ATTN: Mr. Dales

SAMPLE No.	OZ./TON SILVER	% Pb	% Zn
<u>"Chip Samples"</u>			
Channel 1-76	7.50	20.06	4.18
S-1-76	21.24	59.47	0.80
<p>Channel 1-76 across 3 ft. vein disclosed by road building @ 8005 675W S-1-76 character sample of massive galena from same vein.</p>			
<p>I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES</p>			

Rejects Retained one month.
 Pulps Retained one month unless specific arrangements made in advance.

[Signature]

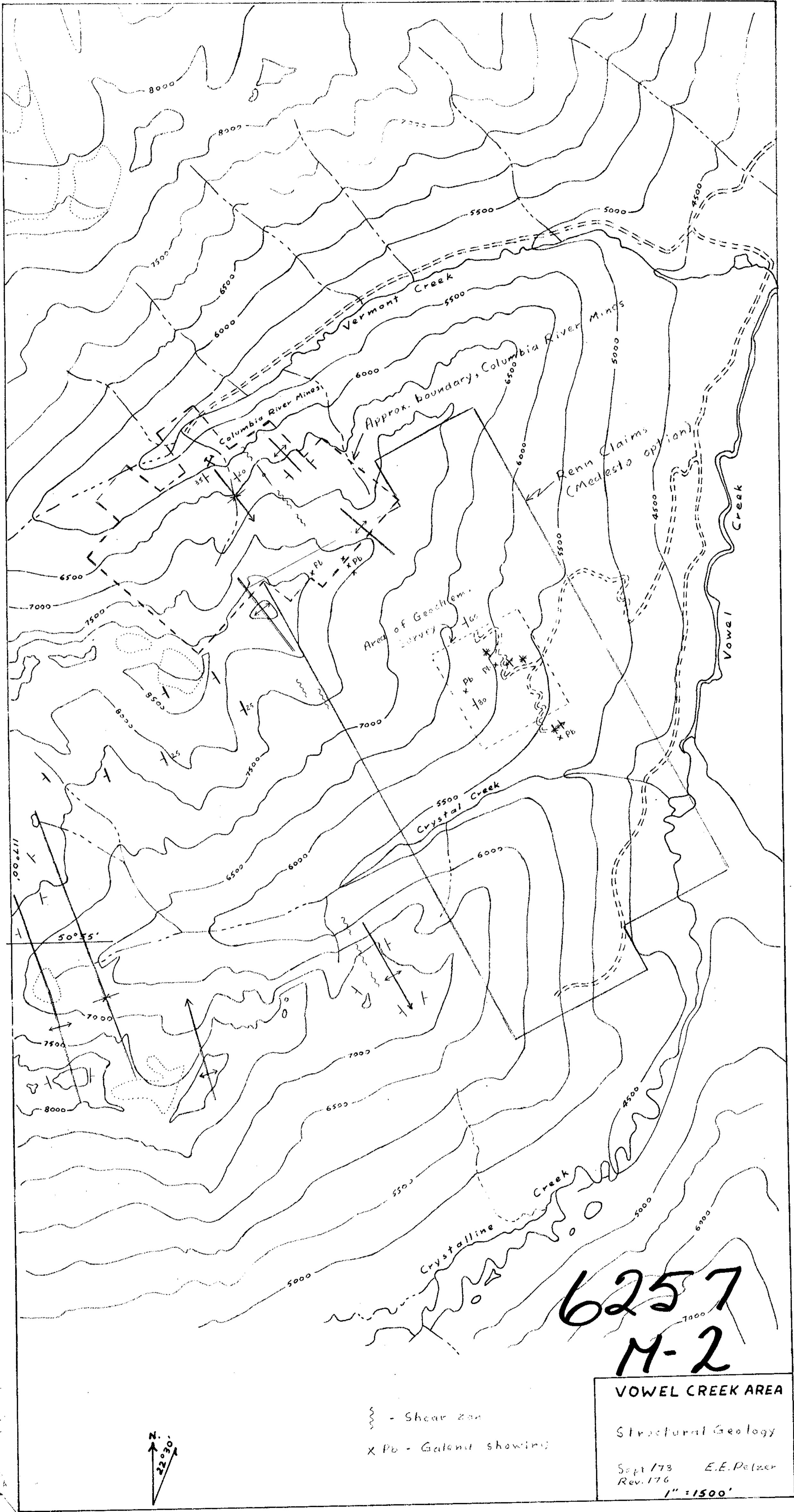
Licensed Assayer of British Columbia



6257
M-1

- Qtz. - Quartzite
- Arg. - Argillite
- Li. - Limestone
- X - Mineral Showing
- o - Old D.D.H. (Loc. approx.)
- Qtz. Vein
- Shear zone
- Cleavage Attitude
- Bedding Attitude

Medesto Exploration
RJR Claims
 Surface Geology
 1" = 100'



6257
M-2

VOWEL CREEK AREA

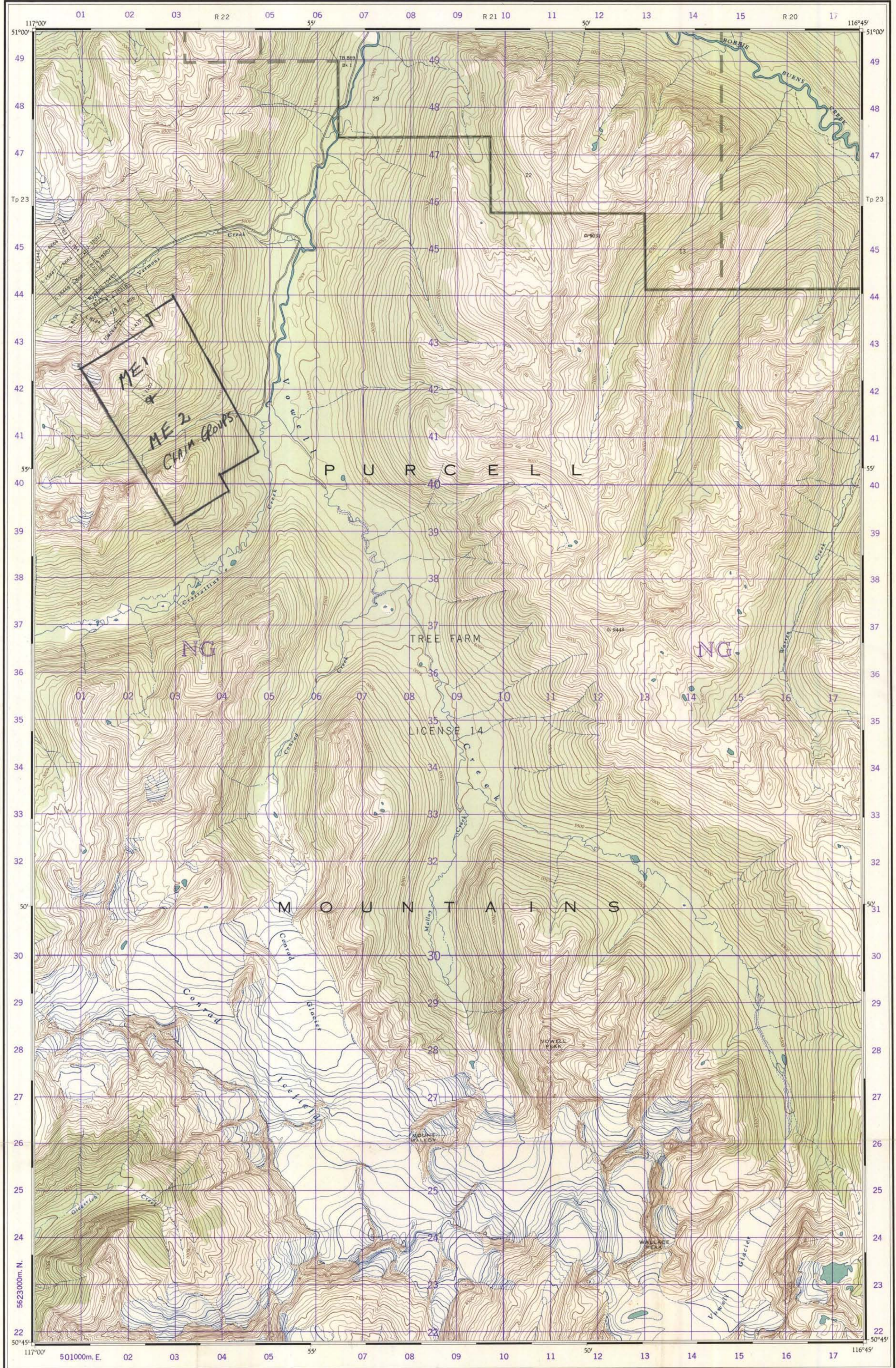
Structural Geology

Sept 173 E.E. Pelzer
Rev. 176

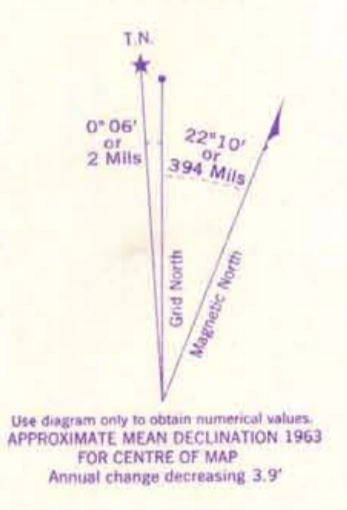
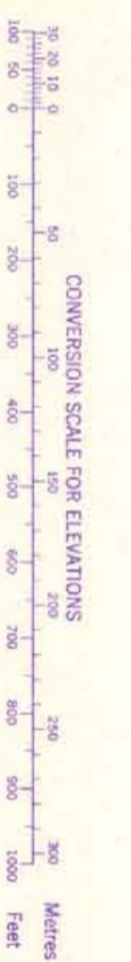
1" = 1500'

~ - Shear zone
X Pb - Galena showing





Refer to this map as: 82 K/15 W EDITION 1 ASE SERIES A 721



GRID ZONE DESIGNATION	UNIQUE M. SQUARE IDENTIFICATION
11U	NG

TO GIVE A REFERENCE TO NEAREST 100 METRES
EXAMPLE: STREAM JUNCTION

EASTING: Read number on grid line immediately to left of point. Estimate tenths of a square from this line eastward to point. **104**

NORTHING: Read number on grid line immediately below point. Estimate tenths of a square from this line northward to point. **399**

MILITARY GRID REFERENCE: **104399**

Nearest similar grid reference 100,000 metres (about 62 miles)

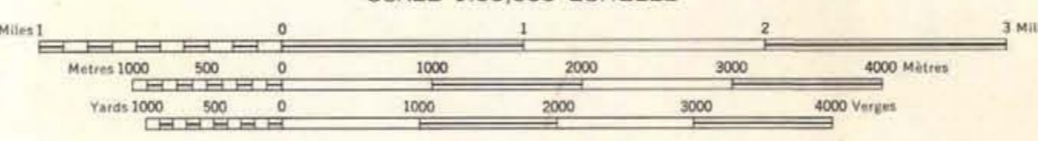
ONE THOUSAND METRE UNIVERSAL TRANSVERSE MERCATOR GRID ZONE 11

Produced and printed by the SURVEYS AND MAPPING BRANCH, DEPARTMENT OF MINES AND TECHNICAL SURVEYS, 1963, from air photographs taken in 1953.

Établi et imprimé par la DIRECTION DES LÈVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DES MINES ET DES RELEVÉS TECHNIQUES en 1963, d'après les photographies aériennes prises en 1953.

BUGABOO CREEK
KOOTENAY DISTRICT
BRITISH COLUMBIA
WEST OF FIFTH MERIDIAN - OUEST DU CINQUIÈME MÉRIDIEN
SCALE 1:50,000 ÉCHELLE

- | | |
|--|--|
| Roads: loose surface, dry weather | Routes: de gravier, période sèche |
| cart track | de terre |
| trail or portage | sentier ou portage |
| Railway, normal gauge, single track | Chemin de fer, voie unique (écartement normal) |
| Power transmission line | Ligne de transport d'énergie |
| Mine or Open cut | Mine ou fosse à ciel ouvert |
| Horizontal control point, with elevation | Point géodésique avec cote |
| Bench mark, with elevation | Repère de nivellement avec cote |



CONTOUR INTERVAL 100 FEET
Elevations in Feet above Mean Sea Level
North American Datum 1927
Transverse Mercator Projection

ÉQUIDISTANCE DES COURBES: 100 PIEDS
Élévations en pieds au-dessus du niveau moyen de la mer
Réseau géodésique nord-américain unifié (1927)
Projection transverse de Mercator

MAGNETIC DECLINATION 22°16' EAST
AT CENTRE OF MAP 1963
Annual change (decreasing) 3.9'

DÉCLINAISON MAGNÉTIQUE AU CENTRE
DE LA FEUILLE EN 1963: 22°16' EST
Variation annuelle (décroissante): 3.9'

Some names on this map are not yet official. Corrections or additions are invited by the Surveys and Mapping Branch.

Certains noms inscrits sur cette carte ne sont pas encore officiels. La Direction des levés et de la cartographie saurait gré au public de lui signaler corrections et additions.

- | | | | |
|-----------------------------|-----------------------------------|-------------|-----------------|
| Building | Édifice | Barn | Grange |
| School | École | Post Office | Bureau de poste |
| Church | Eglise | Cemetery | Cimetière |
| Lighthouse | Phare | | |
| River with bridge | Rivière avec pont | | |
| Stream, intermittent or dry | Cours d'eau intermittent ou à sec | | |
| Lake, intermittent or dry | Lac intermittent, rive impédoce | | |
| Marsh or Swamp | Marais ou marécage | | |
| Depression contour | Courbes de creux | | |

TABLEAU D'ASSEMBLAGE DU SYSTÈME DE RÉFÉRENCE CARTOGRAPHIQUE NATIONAL

82 N/2 E	82 N/2 W	82 N/2 E
82 K/14 E	82 K/15 W	82 K/15 E
82 K/11 E	82 K/10 W	82 K/10 E

INDEX TO ADJOINING SHEETS OF THE NATIONAL TOPOGRAPHIC SYSTEM

BUGABOO CREEK
82 K/15 W
EDITION 1

6257
M-3