

PROSPECTING REPORT

✓ Lat. 49° 55' Long. 117° 51' NTS 82F/14W  
✓ Mining Division Slocan Location 4.5 km S of  
Silverton, BC., 2.5 km E of Slocan Lake  
✓ Claims (Central Records) Baby East, Baby West, Figland  
Claims (total) Baby East (20 units) Bay West (12 units)  
Figland (2 units)  
✓ Owner 1. Andrew M. Ross 2. Barry O. Buchanan  
Address Box 402, New Denver, BC, V0G 1S0 Box 387, New Denver, BC., V0G 1S0  
✓ Operator 1. Same 2.



BABY CLAIMS  
GEOLOGY, PROSPECTING, TRENCHING 1981

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## Baby Claims

### Geology, Prospecting, Trenching

#### 1. Introduction

This report deals with work on the Baby Claim, a joint venture of Andrew M. Ross & Barry O. Buchanan, prospectors. The property was staked in January 1981, following research of copper, molybdenum deposits, map interpretation, & available information in Provincial Government Geological Reports. This report describes work done in 1981 on the Baby Claim.

Preliminary results have been encouraging & more work is planned in the Spring of 1982.

#### 2. Baby Claim

##### 2.1 Location & Access

The property is located 5 km. south of Silverton on the east side of Slocan Lake & is in the Slocan Mining District. The property is within N.T.S. sheet 82F/14 & is centered at  $49^{\circ} 54'N.$  &  $117^{\circ} 22'W.$

Access to the property is by road. Highway 6 passes through the most westerly part of the property & access is readily available off either side of this road. Access to the easterly part of the property is provided by an all weather gravel road (Red Mountain Road)

##### 2.2 Property

The property covers about 1000 hectares with the claims forming a block approximately 2 km. N.S. & 4 km. E.W. It is held for the joint venture of Andrew M. Ross & Barry O. Buchanan & is comprised of 38 located claims.

##### 2.3 History

The oldest claim on the Baby property is the Oma. It was originally a Crown granted claim of 1898. It is reported that a little gold value was found in a small quartz vein of 6 inches. Values however was not sufficient to warrant further exploration & the property was dropped. No further evidence of work carried out on this property can be found in the B.C. Minister of Mines Annual Report Index.

### 2.3 History cont'd....

In 1967 some trenching of the main quartz vein was conducted by Sid Berisoff of Silverton, however due to the lack of mineralization, assessment work was not filed.

### 2.4 Economic Assessment of Property

A: About 500 metres east of & parallel to Highway 6 a large quartz vein was found with a maximum width of 100 metres & maximum length of 600 metres. This quartz vein was assayed for silica & was found to have a 97.8 percent content. This sample came directly from surface and it is thought that this grade might increase with depth. It is presently estimated to contain a minimum of 2 million metric tons. Markets for this quartz may include flux material for smelting, ferro-silicon & possibly glass.

B: This large quartz vein appears to be gangue filling material for a large fault. This large body of quartz could be the core of a copper-gold porphyry deposit. Characteristic zoning of porphyry type deposits is very evident. A potassic zone envelopes the quartz core & K-felspar with gypsum filled fractures was observed. A phyllic zone surrounds the potassic zone and is most evident on the west side towards Slocan Lake. This phyllic zone was recognized to contain sericite.

Another characteristic often associated with porphyry deposits is a pyritic halo surrounding the deposit. Applying this hypothesis & assuming the large quartz vein is the core there is reason to suspect significant gold value could be associated with the copper should it exist. Gold is known to occur on a number of properties which are in the pyritic halo. These include the Rockland, L.H., Get There Eli, Homestake, Little Daisy, Galena Farm, Buster & Freddie.

Further support of the hypothesis is recent drilling at the Rockland & Little Daily (1980). It is reported that the sulphide contained was 10 to 20 percent in most drill holes.

### 3. Programme in 1981 - Work Done

As a copper-gold porphyry could exist, samples for gold were taken. No higher samples than a trace of gold was obtained. It was concluded that the top of the copper-gold deposit could be leached and diamond drilling could intersect a supergene area at greater depth.

3. Programme in 1981 - Work Done cont'd....

Trenching with a gas drill was completed on the south end of the large quartz vein & disseminated sulphides was obtained.

4. Regional Geology

All rocks in the Slocan area, with the exception of the Nelson Batholith, are strongly deformed & variably metamorphosed and very distinct lithologic units are present & can be followed over considerable distances.

Strata of the area may be divided into three major north to northeasterly trending sequences. The central one, comprising of Slocan Series, Kaslo series & Rossland Series groups of sedimentary & volcanic & generally occurs north & south of the Nelson Batholith. The Kaslo group contains mostly volcanic rocks. The Slocan group contains mostly sedimentary rocks. The Rossland group is a suite of volcanic & minor sedimentary rocks.

On the west side of Slocan Lake are metamorphosed Precambrian rocks, which include metasediments of the Horsethief Group.

These metasediments are exposed on the east side of Slocan Lake as a narrow strip separated from the mesozoic strata by a persistent crush zone.

Metamorphic strata, including the Lardeau & Milford Groups, of the eastern sequence of the large Kootenay Arc. The Slocan area lies towards the focus of this Arch W is dominated by the Nelson Batholith of mid-to-late Jurassic age.

5. Property Geology

5.1 General

On the east side of Red Mountain Road the rocks consist mainly of Nelson Batholith & seem to be of low economic importance.

On the west side of Red Mountain Road there seems to be a major fault zone. This fault zone can be traced from Springer Creek near Slocan City to Silverton for a length of 25 kilometers. This fault zone was observed in the Baby Property about 500 metres east of Highway 6.

In the center of the fault zone is a large quartz vein. This vein in turn is surrounded by a potassic zone & a phyllic zone with fine grained disseminated sulphides.

5. Property Geology cont'd....

5.2 Structure

This main feature of the Baby property between Red Mountain Road & Highway 6 is a strong fault zone filled with quartz measuring up to 100 metres wide & up to 600 metres long.

6. Conclusions & Recommendations

6.1 Conclusions

A large quartz body was found that could have significant economic possibilities.

6.2 Recommendations

Since quartz has a very high melting point (1700° C) the purest or highest grade quartz which likely be in the interior of the quartz ore body.

This hypothesis could be tested by drilling a drill hole about 50 metres into the center of the large quartz vein & seeing if the grade of silica in the center was higher grade than the silica at the edge of the quartz vein.

REFERENCES

1. Durgin D.C. 1980, Aylwin Creek Claims Slocan District B.C., Geology, Geochemistry & Drilling (RioCanex B.P. Joint Venture).
2. McMillian W.J., Panteleyev A, 1980, Ore Deposit Models 1. Porphyry Copper Deposits, Geoscience Canada, Vol. 7, Number 2.
3. Panteleyev, Andrejs, 1981 Berg Porphyry, Copper-Molybdenum Deposit Bulletin 66, Ministry of Energy, Mines & Petroleum Resources.
4. Pueto, V.A. 1972, Geology of Copper Mountain, Bulletin 59, B.C. Dept. of Mines & Petroleum Resources.
5. Ross, John V. & Killerhals P. 1968 Evolution of the Slocan Syncline in South-Central British Columbia, Canadian Journal of Earth Sciences, Vol. 5.
6. Sutherland Brown A., ed. 1976 Porphyry Deposits of the Canadian Cordillera, Canadian Institute Mining Spec.

8. Itemized Cost Statement

|   |       |                   |
|---|-------|-------------------|
| 1) Prospecting                                      |       |                   |
| 45 days April 15-November 29, 2 men prospecting     |       |                   |
| @ \$100./day/person                                 |       | \$9,000.00        |
| 2) Transporation                                    |       |                   |
| 46 trips @ 15 miles from New Denver round trip      |       |                   |
| 690 mi. @ 20¢/mile                                  |       | 138.00            |
| 3) Assaying   |       |                   |
| 5 assays (Au, S102) @ \$15./assay                   |       | 75.00             |
| 4) Rock Drilling (Dec.5,1981) 2 men, 1 day trencing |       |                   |
| & blasting with gasoline percussion drill           |       |                   |
| @ \$100./day/man                                    |       | 200.00            |
|   | TOTAL | <u>\$9,413.00</u> |

This work is assessed against 38 units of Baby Claims 5 km. south of Silverton @ \$200./unit.

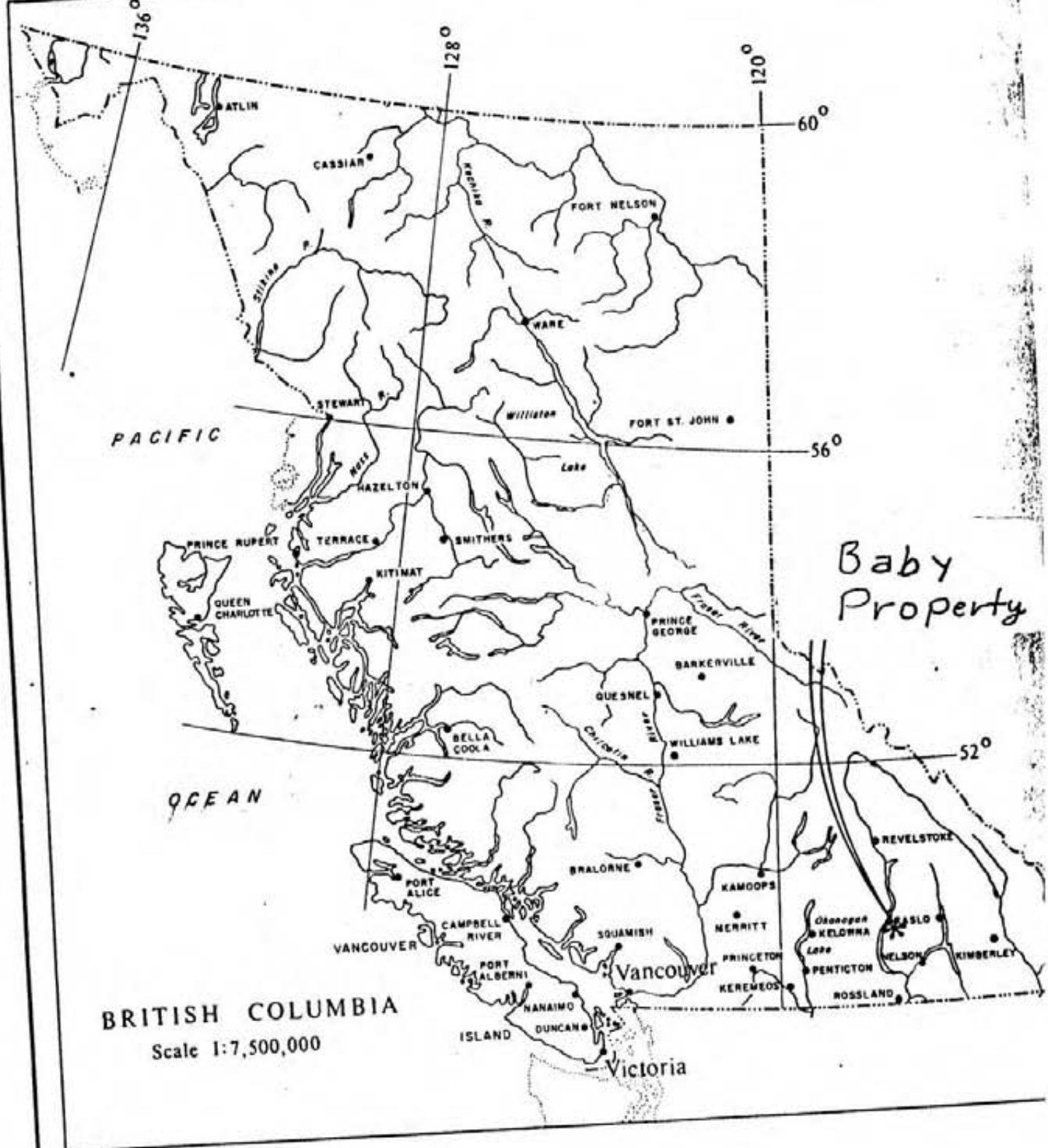
9. Statement of Qualifications

- 1) Buchanan, Barry O. - Nelson Prospectors Course 1981, by George G. Addie, District Geologist  
Rock & Mineral Identification Course Oct. 13-15, 1981, by George G. Addie, District Geologist.
- 2) Ross, Andrew M. S.Sc. Eng.  
Rock & Mineral Identification Course Oct. 13-15, 1981, by George G. Addie, District Geologist.

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2. Claim Map
3. Quartz Occurances & Trenching

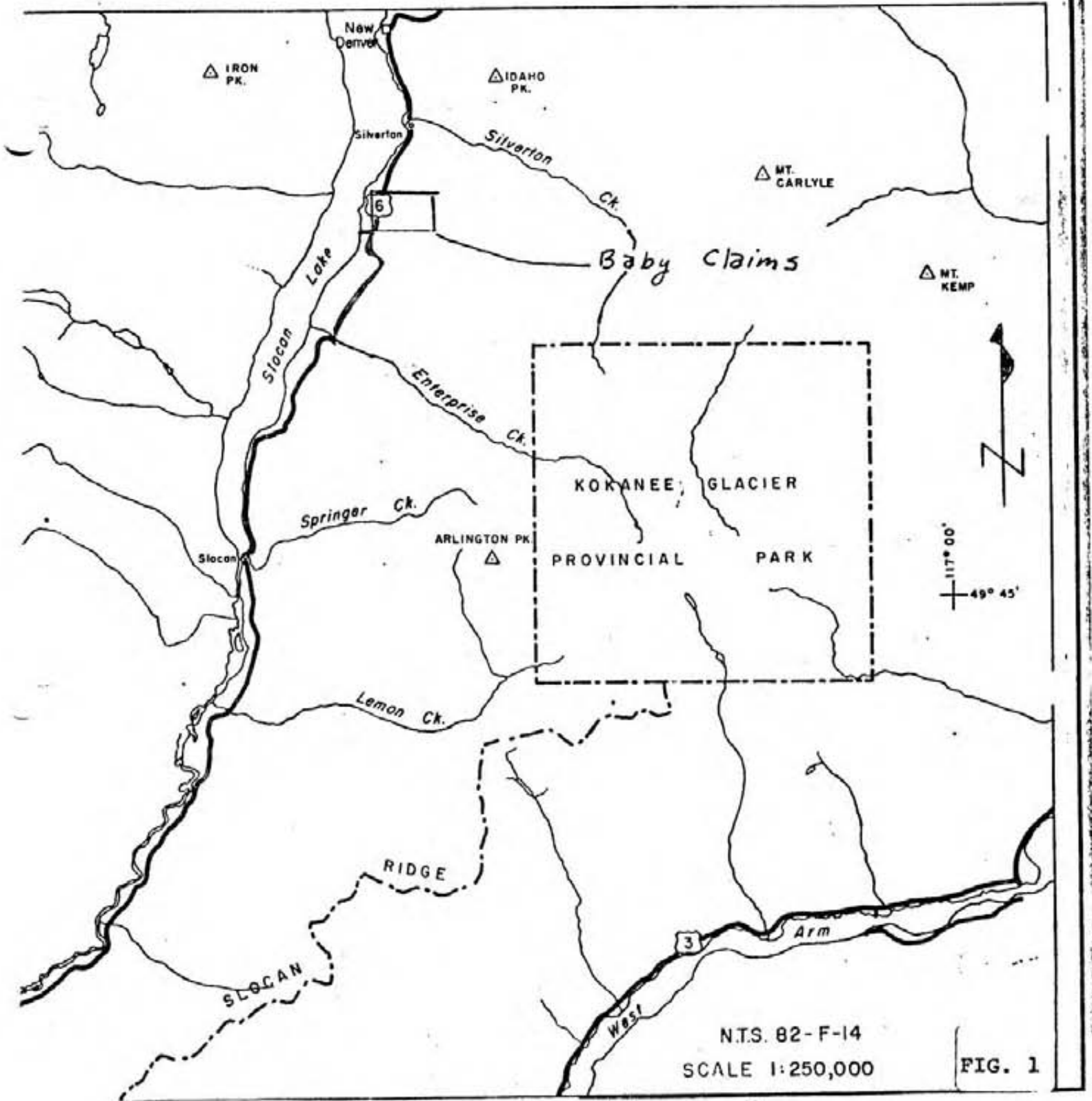


Baby Property

BRITISH COLUMBIA  
Scale 1:7,500,000







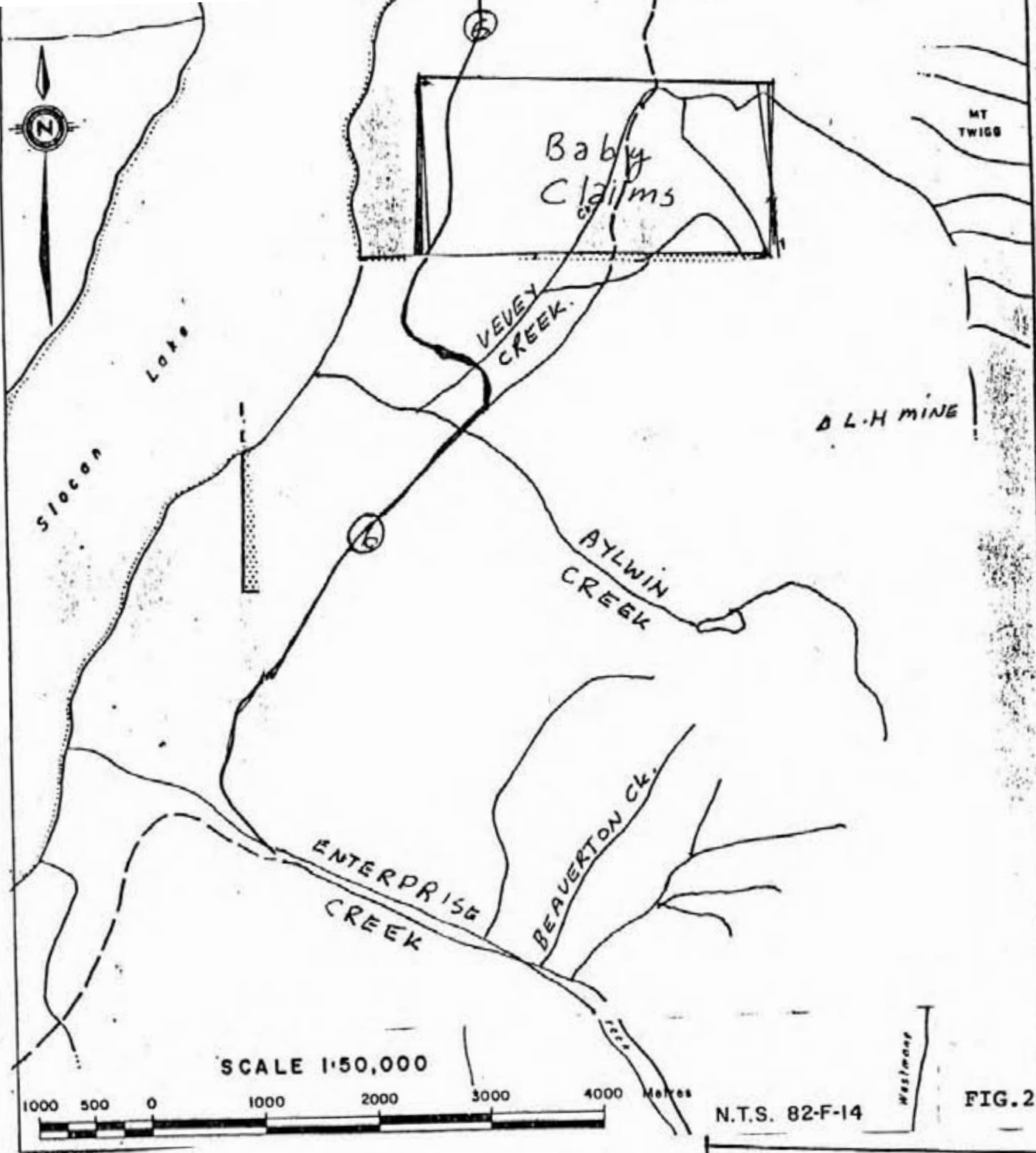
*Baby Claims*

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*Location Map*

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|       |           |
|-------|-----------|
| Date: | Drawn     |
|       | by A.M.R. |



N.T.S. 82-F-14

FIG. 2

CLAIM MAP  
 BABY  
 CLAIMS

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Dec-81 | Drawn  
 by: A.M.R.

Lake

BABY WEST  
2355(11)

BABY EAST  
2354(11)

MT. TWIGG

ENT 5  
1970 (5)

ENT 4  
1296(7)

FIGLAND  
2105(9)

MIDAS TOUCH  
260(7)

ENT 6  
1971(5)

ENT 1  
1299(7)

RUSH  
1263(6)

RED MTN.

2772  
MARGARET  
1779 (2)

LEONA  
2  
502  
(10)

LEONA  
3  
1503  
(10)

ENT 2  
1313 (7)

ENT 3  
1295(7)

MT. AYLWIN

Maurier  
Lake

KEN  
2353(11)

P.M.  
2339(12)

J.R.  
2338(12)

Pedro #4  
2788 (11)

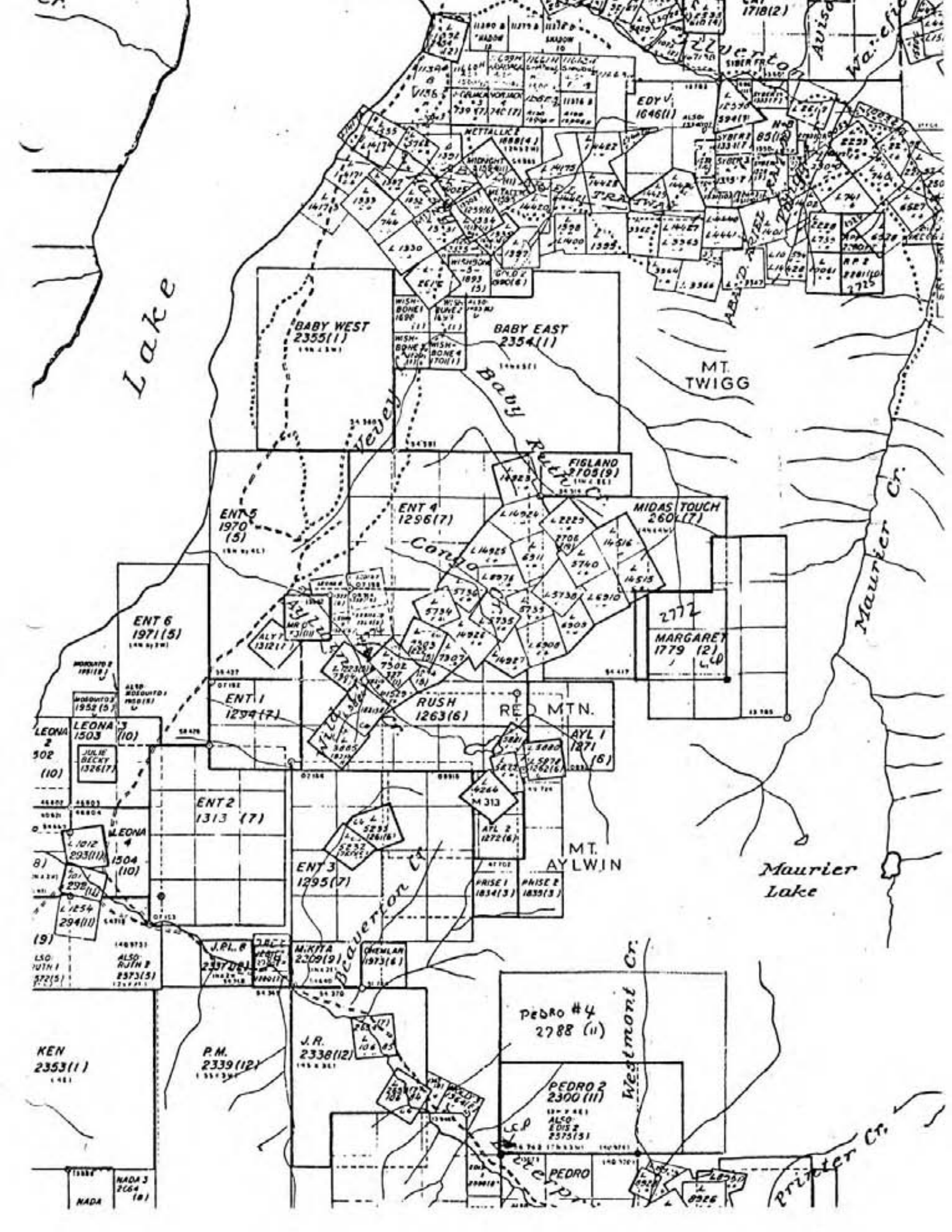
PEDRO 2  
2300 (11)

PEDRO

Westmont Cr.

Prüster Cr.

NADA 3  
2664 (8)



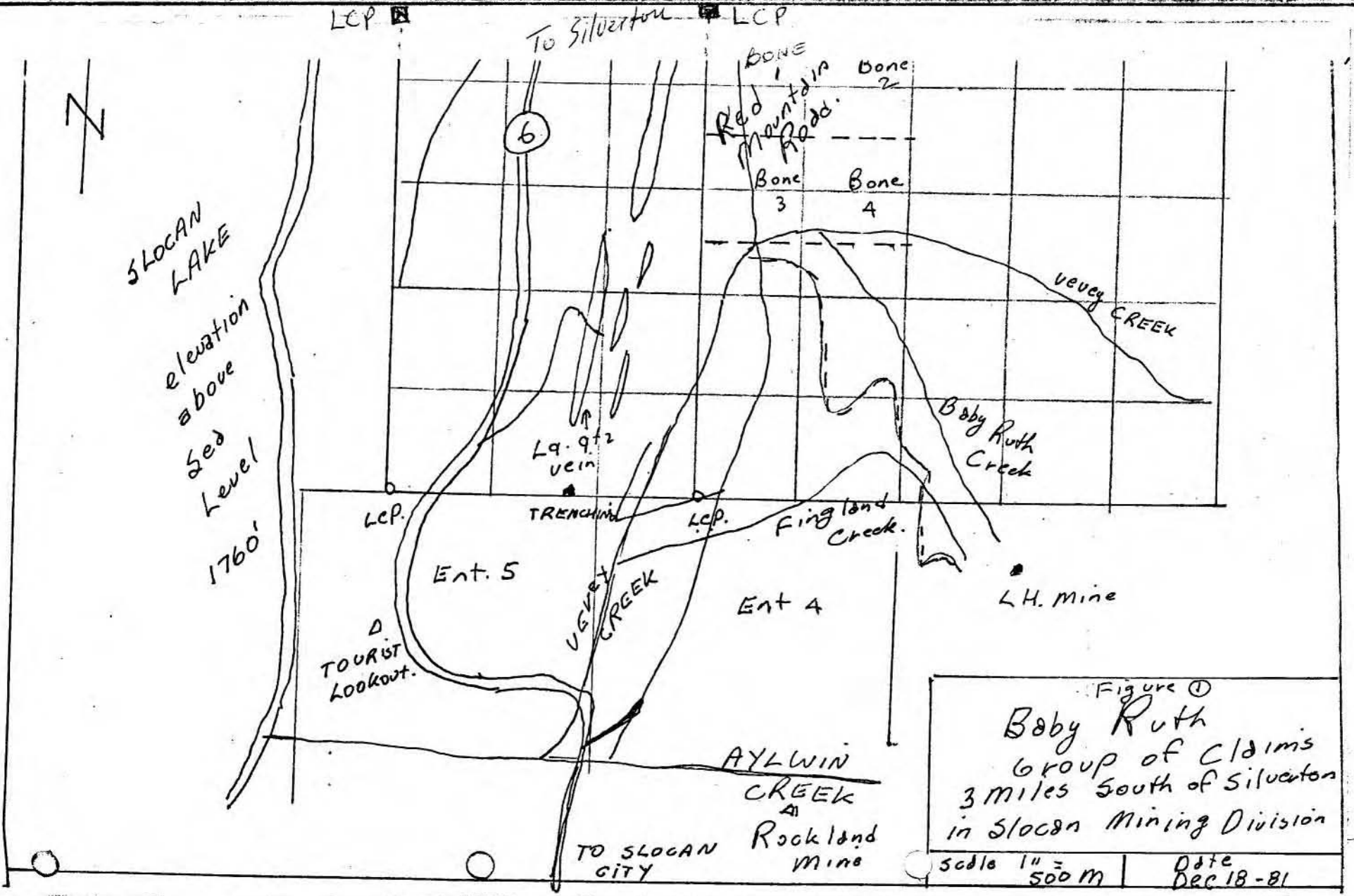


Figure ①  
 Baby Ruth  
 Group of Claims  
 3 miles South of Silverton  
 in Slocan Mining Division  
 scale 1" = 500m | Date DEC 18-81