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PROPERTY EXAMINATION  
McDUCK CLAIMS  
BLACKHORN MOUNTAIN  
BRITISH COLUMBIA

FOR  
LEVELLAND ENERGY AND RESOURCES LTD.

BY

N.C. CARTER, PH.D P.ENG.

VICTORIA, B.C.

AUGUST 18, 1983

## SUMMARY AND CONCLUSIONS

1. The McDuck claims are located on the Homathko gold prospect, in rugged terrain on the east flank of the Coast Range. Principal showings are at 7100 ft. elevation.
2. Access to the general area is relatively easy, involving a 165 mile or 3.5 hour drive west from Williams Lake to a helicopter base at Bluff Lake. The property is most easily accessible by a 12 mile helicopter flight from Bluff Lake.
3. Gold values in the several ounce per ton range have been reported from a northeast-striking, steeply west-dipping quartz vein. The vein, has an average width of less than 2 feet and is exposed over a 200 feet strike length in one adit. The quartz vein contains abundant sulfide minerals but gold reportedly occurs in the free state, resulting in erratic distribution of values.
4. While of apparent uniform width over a fair strike length in the adit drift, the quartz vein on surface above the adit has a limited strike length and is splayed into numerous, discontinuous quartz stringers. These stringers, which do not exceed several inches in width, parallel moderately west dipping schistosity. Along projected strike to the northeast, these stringers disappear beneath extensive blocky moraine of unknown depth.
5. The rugged nature of the terrain in the vicinity of the workings makes additional exploration difficult and costly. Drill sites would have to be blasted, and the dip of the vein to the west presents problems. Water for drilling might be impounded in the adit, but the closest source of continuous running water is 1800 ft. east of, and 700 ft. vertically below the adit.

6. While exceptional gold values can be obtained from the property, it is considered by the writer to be a marginal prospect in view of the following factors:

- a) Helicopter access is required to transport personnel and equipment to, and around the property.
- b) The structure of the quartz vein relative to topography, coupled with physical problems, makes exploratory drilling a difficult and expensive proposition.
- c) The apparent erratic distribution of gold values and the limited strike length on surface suggests a limited tonnage of unknown grade.

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N.C. Carter, Ph.D. P.Eng.

## INTRODUCTION

At the request of Mr. D.W. Coates, the writer visited the McDuck mineral claims on August 1, 1983. Principal surface and underground workings were examined, and a number of samples were collected. B.C. Department of Mines Annual Reports (1937-39) and a report by G.W. McConnell (1982) provided useful background information.

## LOCATION AND ACCESS

The McDuck mineral claims are located on Blackhorn Mountain at latitude 51°35'N and longitude 125°48'W in NTS map-area 92N/10W. Blackhorn Mountain, with an elevation of 9950 feet, is one of the highest peaks in the Niut Range on the east flank of the Coast Mountains south of the Chilcotin Plateau.

Access to the property is by Chilcotin highway 20 to Tatla Lake, 150 miles southwest of Williams Lake, and a 15 mile secondary road to White Saddle Air Services base at Bluff Lake. A twelve mile or six minute helicopter flight provides access to the property.

## PHYSICAL SETTING

The claims are situated on the southeast slope of Blackhorn Mountain, above a tarn lake at the headwaters of Razor Creek which flows north into Mosley Creek, a tributary of Homathko River which discharges into Bute Inlet. The principal mineral showings at an elevation of 7100 feet, are in steep terrain on the south side of a cirque between an extensive blocky moraine and a small snowfield. Elevation on the claims range from about 6,000 ft. near the old camp to more than 8000 feet.

## HISTORY

Quartz veins containing gold and base metal sulfides were discovered on the present claims in 1936. Homathko Gold Mines was formed to explore the claims and work through 1939 included trenching, 340 feet of cross-cutting and drifting and 2000 feet of diamond drilling. A short tramline was constructed and a small mill was set up below the tarn lake.

The property was dormant for many years but has been held by a number of owners since the early 1960's, including the proprietors of White Saddle Air Services.

The present claims were located in 1979.

## MINERAL PROPERTY

The McDuck property consists of 3 Modified Grid claims and two 2-post claims as follows:

| <u>Claim Name</u>     | <u>Record No.</u> |
|-----------------------|-------------------|
| McDuck Gold (6 units) | 395               |
| McDon (6 units)       | 867               |
| McCope (6 units)      | 866               |
| McMul 1 (1 unit)      | 868               |
| McMul 2 (1 unit)      | 869               |

## GEOLOGY AND MINERALIZATION

The McDuck on Homathko prospect is one of a number of gold-silver occurrences located southwest of a major north-west fault which extends from Chilko Lake through Tatlāyokō Lake to the south end of Tweedsmuir Park. Most of these occurrences are in Mesozoic volcanic and sedimentary rocks adjacent to the east flank of the Coast Plutonic Complex.

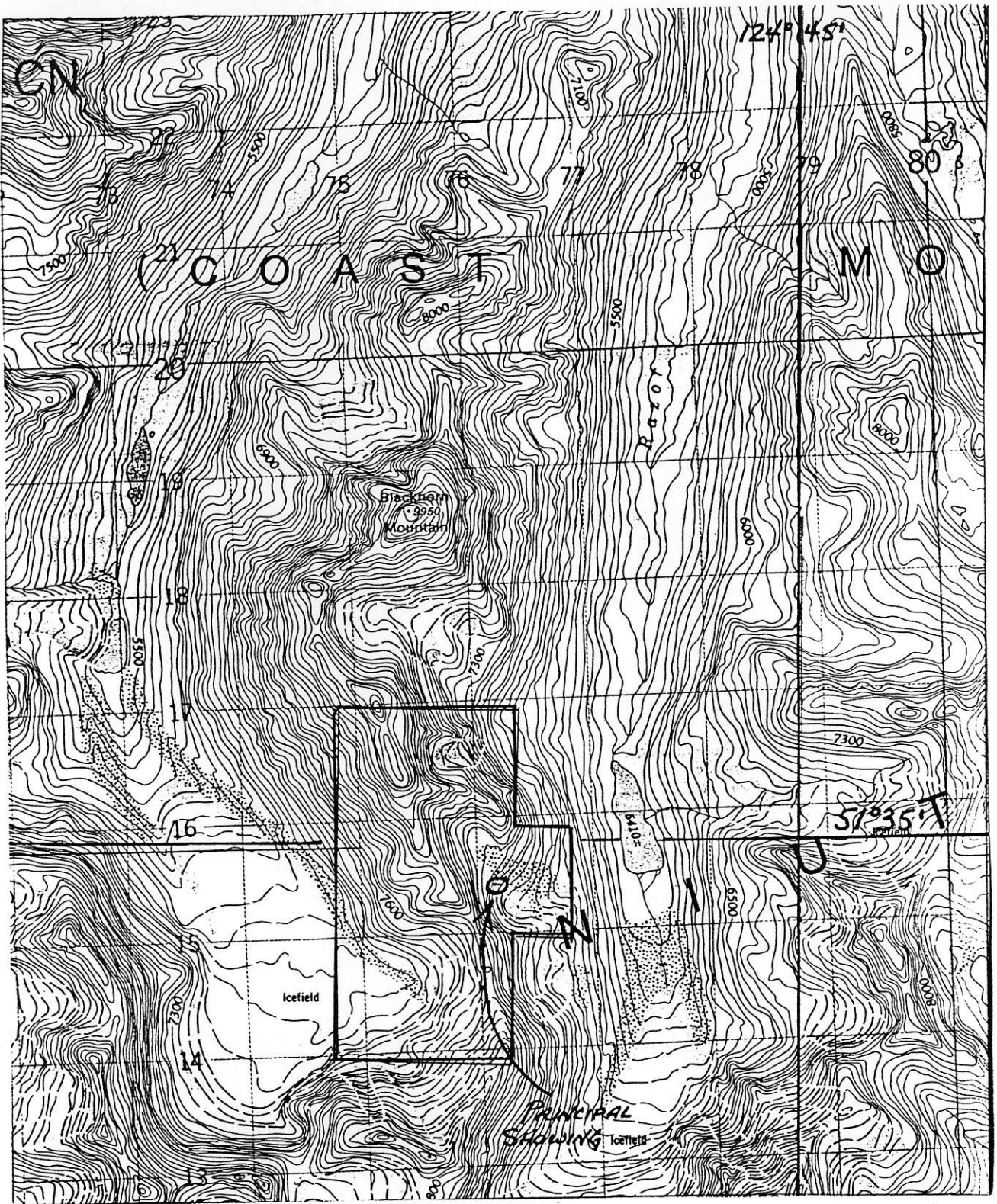
Blackhorn Mountain is principally underlain by late Triassic andesitic flows with some intercalated sedimentary rocks. These are in fault contact with a sedimentary sequence of Cretaceous age which underlies Razorback Mountain to the east and the northern slopes of Blackhorn Mountain. Granitic rocks of late Cretaceous and Tertiary age intrude layered rocks on the south and west slopes of Blackhorn Mountain.

Numerous quartz veins and stringers cut northeast striking, gently west dipping volcanic rocks on the east flank of Blackhorn Mountain. Many of these follow planes of schistosity and rarely exceed several inches in width. Numerous felsic dykes and sills cut the volcanic rocks and the quartz veins.

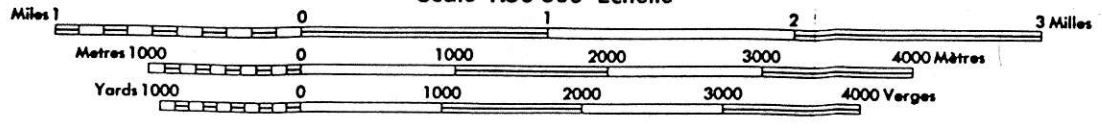
In the vicinity of the principal showings, volcanic rocks are iron-stained and contain numerous quartz stringers. A pit at 7180 ft. elevation exposes a shallow dipping to 30 inch wide quartz vein containing pyrite, arsenopyrite and minor chalcopyrite. Near the bottom of the pit, the vein rolls to near vertical and is up to 4 feet wide. Immediately north and south of the pit, veins follow shallow west-dipping schistosity are narrow and discontinuous.

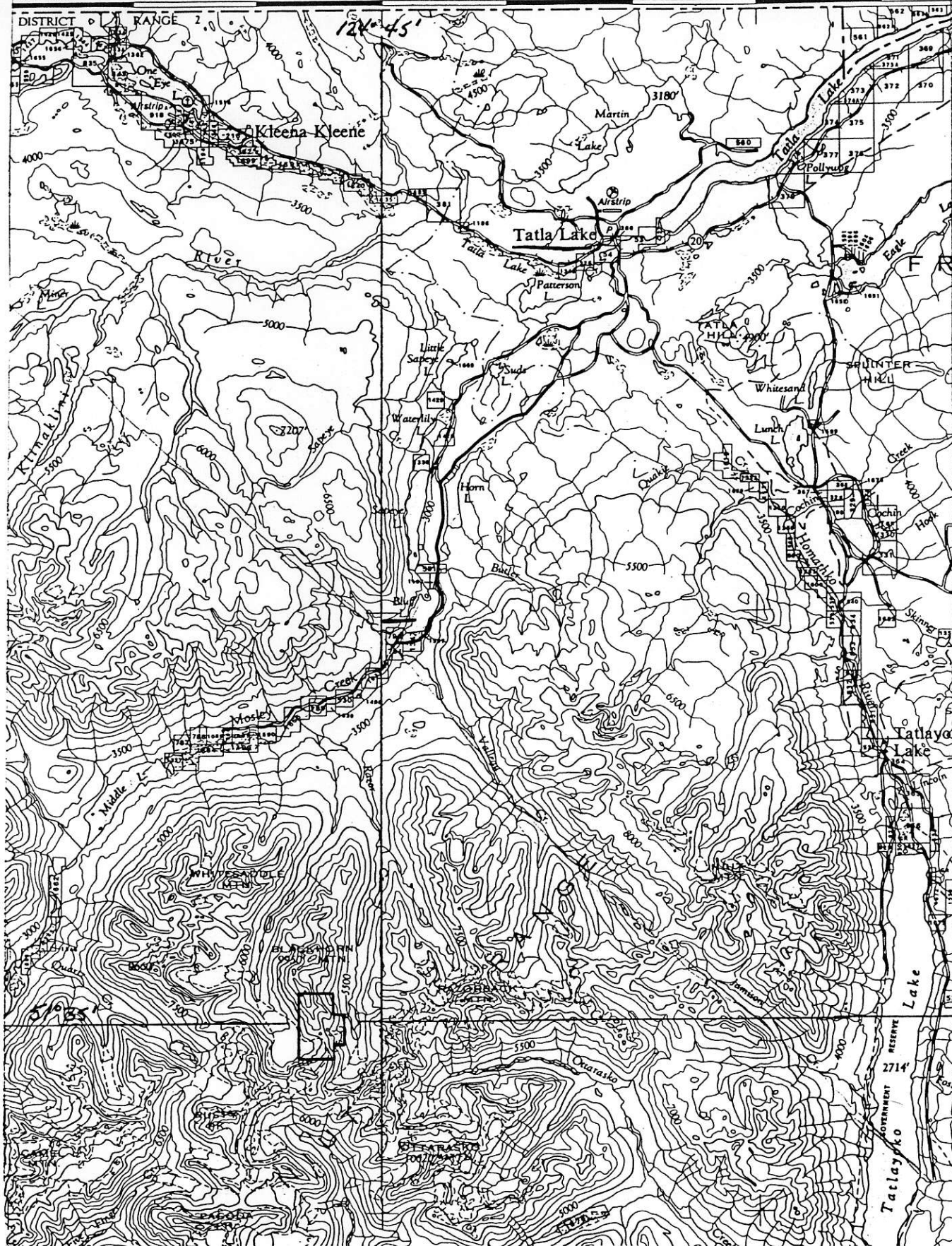
The portal of the underground workings is at an elevation of 7,070 feet. Abundant EX diameter drill core is scattered on the floor of the adit and is probably the 2,000 feet of core reportedly drilled in 1938. Fragments within the volcanic rocks at the portal are markedly stretched and flattened.

The 100 ft. cross-cut intersects a 6 ft. wide granitic dyke which is also exposed on surface. More than 200 ft. of drifting has been completed on a quartz vein structure which has a fairly uniform width of about 2 ft. and dips steeply west. Near the south end of the drift, the vein is split into numerous quartz stringers. Principal sulfide minerals within the vein include pyrite, arsenopyrite, pyrrhotite, chalcopyrite and galena.

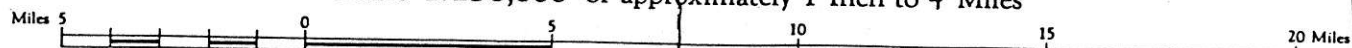


Scale 1:50 000 Échelle

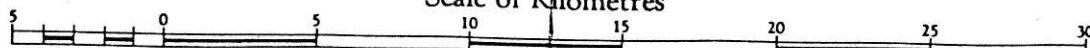




Scale 1:250,000 or approximately 1 Inch to 4 Miles



Scale of Kilometres





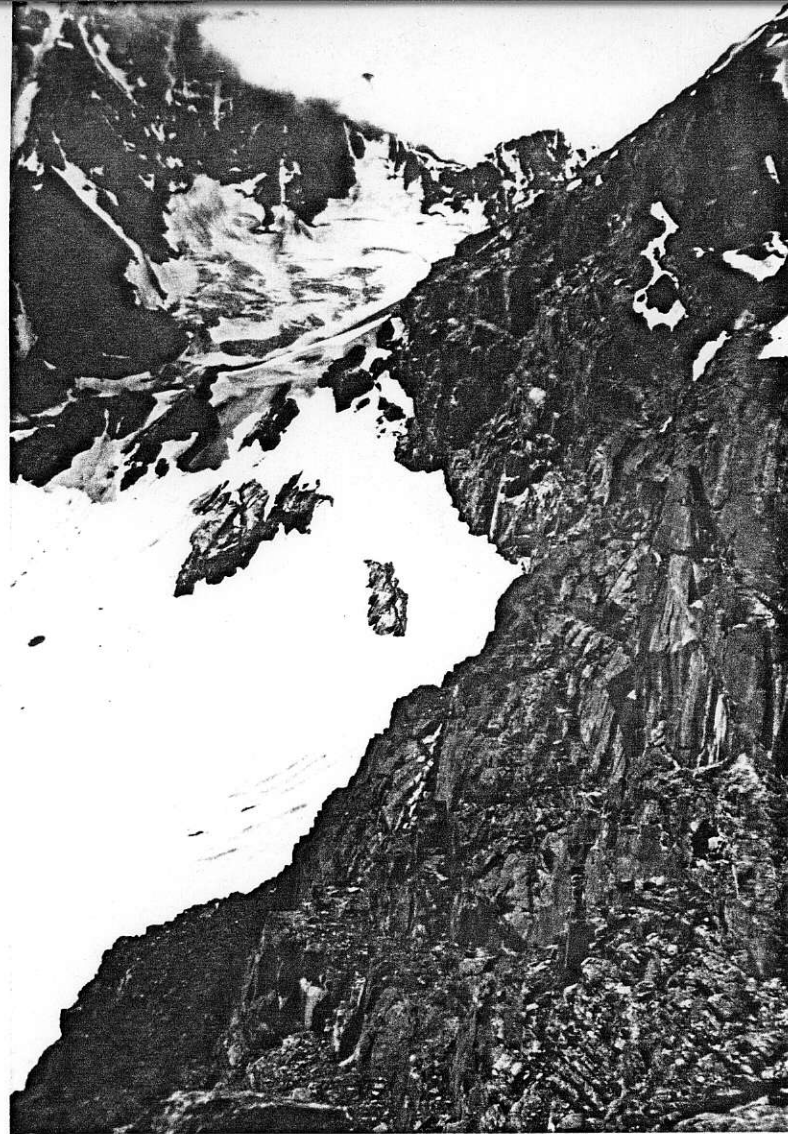




Looking south to Blackhorn and Razorback Mountains;  
Horn Lake in foreground.



Looking north to Bluff Lake and airstrip.



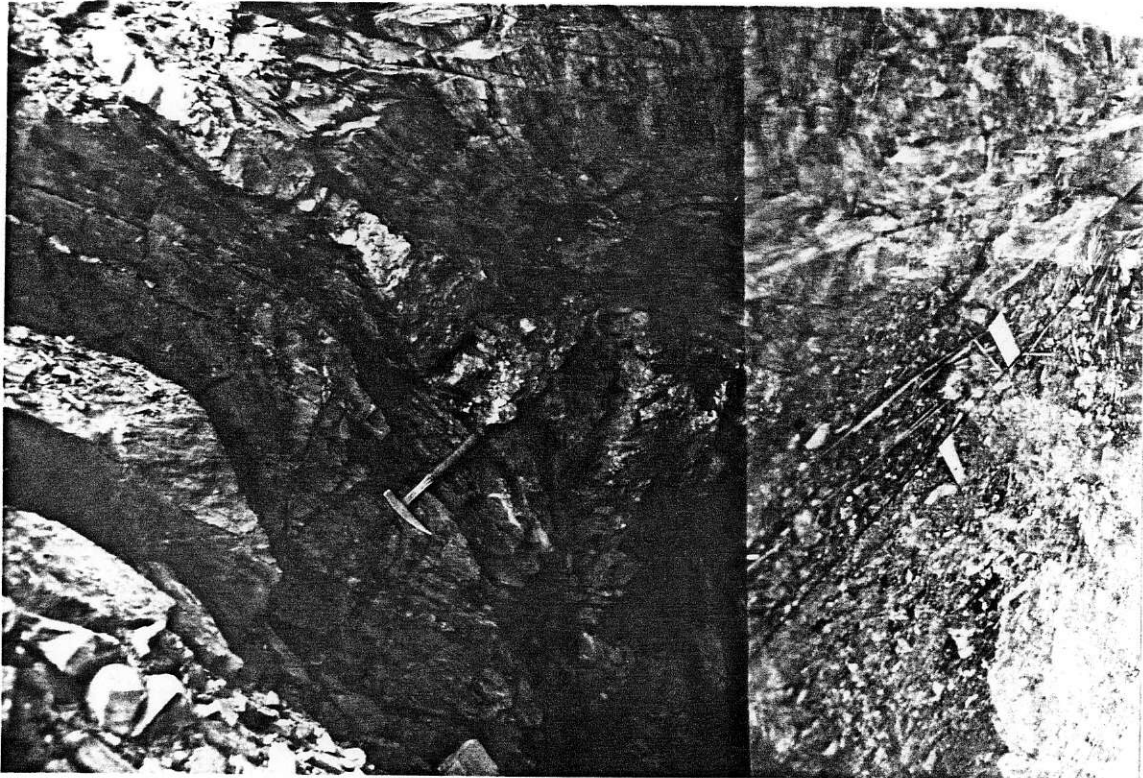
Nature of terrain in area of principal surface showings.



Principal surface cut on main vein.



Quartz vein conformable to gently west dipping schistosity; northeast of surface showings.



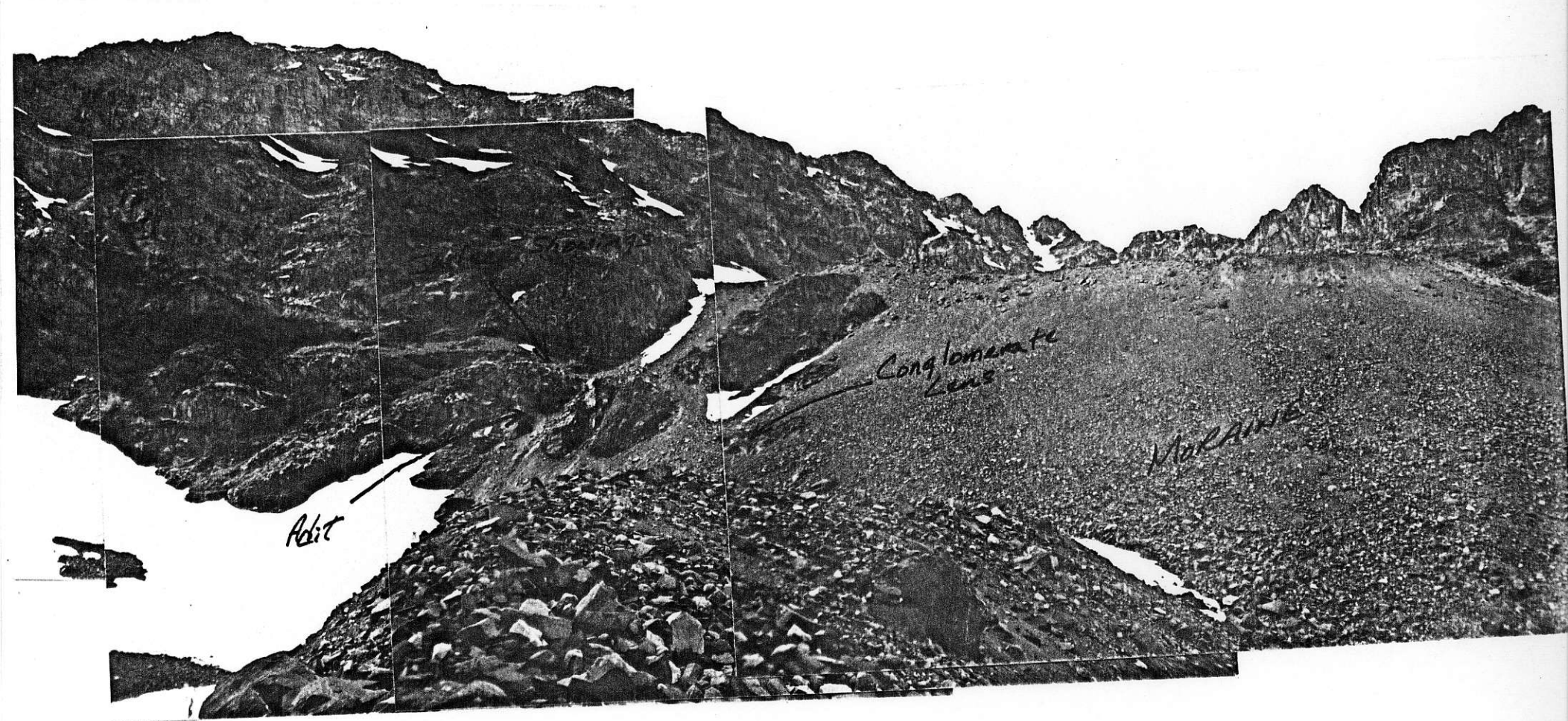
Vein as exposed in main surface cut.



Stringer veins south of adit.



Conglomerate horizon northeast of, and below adit.



Nature of terrain in vicinity of adit and surface showings.



Looking north from showings to Blackhorn Mountain.



Looking north down Razor Creek from old camp.

# MIN-EN Laboratories Ltd.

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## ANALYTICAL REPORT

Project ..... Date of report **August 23/83.**

File No. **3-758** ..... Date samples received **August 12/83.**

Samples submitted by: **N. Carter** .....

Company: **Great Western Petroleum** .....

Report on: ..... Geochem samples

**3** ..... Assay samples

Copies sent to:

1. **Great Western Petroleum, Vancouver, B.C.** .....

2. ....

3. ....

Samples: Sieved to mesh ..... Ground to mesh **-100** .....

Prepared samples stored  discarded

rejects stored  discarded

Methods of analysis: **Ag-Acid digestion-chemical analysis.** .....

**Au-fire assay.** .....

Remarks: .....

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## ANALYTICAL REPORT

Project ..... Date of report Aug. 9/83.

File No. 3-710 ..... Date samples received Aug. 4/83.

Samples submitted by: N. Carter

Company: Great Western Petroleum

Report on: 2 rock ..... Geochem samples

1 ..... Assay samples

Copies sent to:

1. Great Western Petroleum, Vancouver, B.C.

2. ....

3. ....

Samples: Sieved to mesh ..... Ground to mesh -80 geochem  
-100 assay

Prepared samples stored  discarded

rejects assay stored  discarded  geochem

Methods of analysis: Assay Au-fire assay. Geochem Ag-nitric,  
perchloric digestion.A.A., Au-aqua regia.A.A.

Remarks: .....

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## ANALYTICAL REPORT

Project ..... Date of report **Aug. 9/83.**  
File No. **3-710** ..... Date samples received **Aug. 4/83.**  
Samples submitted by: **N. Carter**  
Company: **Great Western Petroleum**  
Report on: **2 rock** ..... Geochem samples  
.....  
..... **1** ..... Assay samples

### Copies sent to:

1. **Great Western Petroleum, Vancouver, B.C.**
2. ....
3. ....

Samples: Sieved to mesh ..... Ground to mesh **-80 geochem**  
**-100 assay**  
Prepared samples stored  discarded   
rejects **assay** stored  discarded  **geochem**

Methods of analysis: **Assay Au-fire assay. Geochem Ag-nitric,**  
**perchloric digestion.A.A., Au-aqua regia.A.A.**

Remarks: .....