

DATE SENT: 11 March

DATE RECEIVED BY WHITEHORSE

TRANSMITTAL SHEET

TO: REGIONAL MANAGER MINERAL RIGHTS
WHITEHORSE, YUKON TERRITORY

FROM: DAWSON MINING DISTRICT



NEW APPLICATION FOR PLACER LEASE TO PROSPECT: NAME _____

RENEWAL OF PLACER LEASE TO PROSPECT: NAME _____

AFFIDAVIT OF EXPENDITURE ON PLACER LEASE: NAME _____

LEASE NO. _____

ASSIGNMENT OF PLACER LEASE NO. _____

FROM _____ TO _____

GROUPING APPLICATION UNDER SECTION 52(2) PLACER MINING ACT

OWNER _____ DAWSON GROUPING NO. _____

DIAMOND DRILL LOGS CLAIM _____ CLAIM SHEET NO. _____

QUARTZ ASSESSMENT REPORT CLAIM _____ CLAIM SHEET NO. _____

Type of Report: Geological / Bulk Sampling Submitted By: Atled Exploration

C.I.S. work performed on: July 82

\$ Req. for rend. application: \$ 6400⁰⁰

*additional information
that you requested*

B. J. Proudfoot

for
A) B. J. PROUDFOOT
MINING RECORDER

REPLY ACTION:

020270

TRANSMITTAL SHEET



DATE SENT: 28 April 82

DATE RECEIVED BY WHITEHORSE

TO: REGIONAL MANAGER MINERAL RIGHTS
WHITEHORSE, YUKON TERRITORY

FROM: DAWSON MINING DISTRICT

NEW APPLICATION FOR PLACER LEASE TO PROSPECT: NAME _____

RENEWAL OF PLACER LEASE TO PROSPECT: NAME _____

AFFIDAVIT OF EXPENDITURE ON PLACER LEASE: NAME _____

LEASE NO. _____

ASSIGNMENT OF PLACER LEASE NO. _____

FROM _____ TO _____

GROUPING APPLICATION UNDER SECTION 52(2) PLACER MINING ACT

OWNER _____ DAWSON GROUPING NO. _____

DIAMOND DRILL LOGS CLAIM _____ CLAIM SHEET NO. _____

QUARTZ ASSESSMENT REPORT CLAIM Judy Claims CLAIM SHEET NO. _____

Type of Report: _____ Submitted By: atud sp.

C.I.S. work performed on: _____

\$ Req. for rend. application: _____

B. J. Proudfoot
B. J. PROUDFOOT
MINING RECORDER

REPLY ACTION: additional information sent
know if you received this letter or not.

090970

ASSESSMENT REPORTS

DAWSON MINING DIST

MAP No. 115 N 15 TYPE OF WORK: Geological Trenching 090970

REPORT FILED UNDER	LOUGHEED RESOURCES INC. <i>Atled Exploration Management Ltd</i>
DATE PERFORMED	Sept 3-26 1981 DATE FILED: Feb. 5, 1982
LOCATION - LAT.	63° 55' N SIXTY MILE RIVER AREA, YUKA
LONG.	140° 50' W
CLAIM Nos.	JUDY 2 Y82496: JUDY 1 YA55162: JUDY 3-17 YA55163 - 1456177
WORK DONE BY	ATLED EXPLORATION MANAGEMENT LTD., <i>G.C. Gutierrez</i>
WORK DONE FOR	LOUGHEED RESOURCES INC.
REMARKS	

In 1981 a trenching program was carried out. Three trenches were cut, two across the south-west strike of the vein zone and one across the northeast strike.

The extension of the Lerner vein alteration shear zone was exposed in one of the trenches to the south west.

090970



GEOLOGICAL REPORT
on the
BULLDOZER TRENCHING PROGRAM
on the
JUDY CLAIM GROUP
DAWSON MINING DIVISION
SIXTY MILE RIVER AREA
NTS 115 N - 15
63° 55' N 140° 50' W



<u>Name</u>	<u>Record Number</u>	<u>Expiry Date</u>
Judy 2	Y82496	May 21, 1982
Judy 1	YA 55162	January 30, 1982
Judy 3 - 17	YA 55163	January 30, 1982

for

LOUGHEED RESOURCES INC.

1157 - 409 Granville Street
Vancouver, B.C.

by

G. C. GUTRATH, P. ENG.,

ATLED EXPLORATION MANAGEMENT LTD.

January, 1982

090970

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**JUDY CLAIM GROUP
Dawson Mining District
Sixty Mile River Area
Yukon Territory**

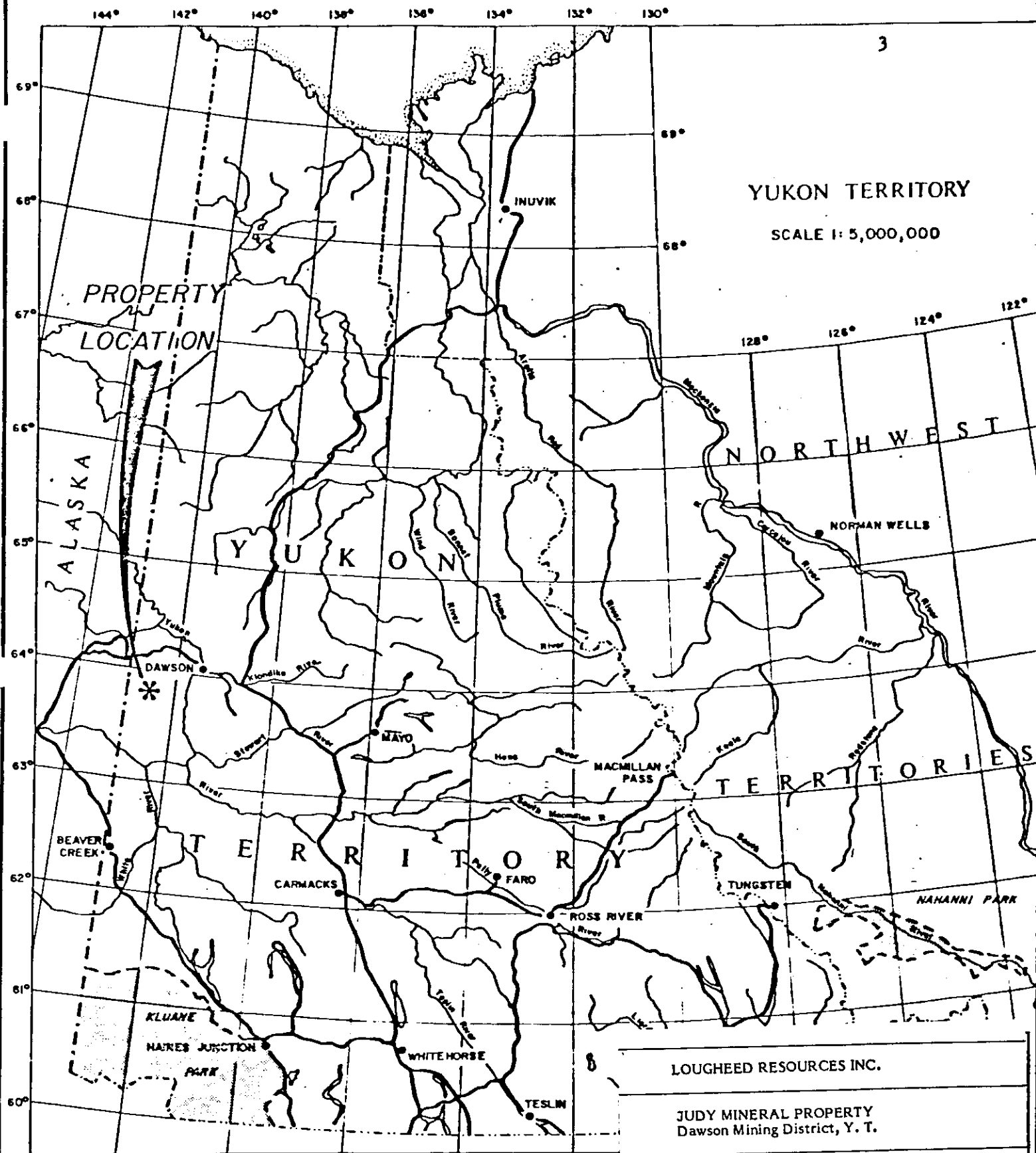
INTRODUCTION

On September 2, 1981 the writer visited the property with Mr. S. Prohasca, a bulldozer contractor. The purpose of the visit was to survey a number of proposed trenches along the strike of the previously mined lead-silver vein structure located on the Judy #2 Claim. In addition to the trenching, the road near the Sixty Mile River had to be repaired to allow access by 4 wheel drive vehicle. Mr. Prohasca carried out the trenching program between September 3rd and September 8th, 1981. The writer returned to the property on September 25th and 26th to survey the trenches and map the geology. Unfortunately an early winter storm had covered the claim area with 1 to 3 inches of snow and the temperature was in the order of + 15^oF with a 20 mph wind. This made mapping difficult and soil samples could not be taken because of the frozen ground. However, the work has provided access to the area for the 1982 Phase I program as outlined by R. T. Heard, P. Eng., in his report of February, 1981. The trenches have provided additional geological information and give a good cross section of the vein system for a geochemical soil and rock chip orientation survey.

GEOGRAPHY

Location

The Judy Claim Group is located 40 air miles west of Dawson in the Dawson Mining District, Yukon Territory (NTS 115 N-15). Coordinates of the property are 63^o 55' N latitude and 140^o 50' W longitude.



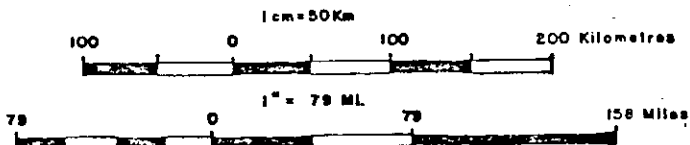
LOUGHEED RESOURCES INC.

JUDY MINERAL PROPERTY
Dawson Mining District, Y. T.

LOCATION MAP

Atled Exploration Management Ltd.

Date: January, 1982



Access

The property can be reached by road from Dawson, a distance of 53 miles. Road conditions from Dawson to Miller Creek are normally good after the Spring break-up. Beyond Miller Creek a 4 wheel drive vehicle is required. From Miller Creek to Bedrock Creek, a distance of 3 miles, the road is very rough with patchy muskeg sections. From Bedrock Creek the road follows the creek bed a distance of 2 miles to the Sixty Mile River. The fiord at the Sixty Mile River has a good gravel base and the depth of water after the Spring run-off is normally less than 2 feet at the deepest point. The road then crosses the Sixty Mile valley floor for 1000 feet before it begins to climb the last 3 miles to the Judy Claims. At the base of the hill there is a 1000 foot section of muskeg. The road through this section has been greatly improved over the years. However, there is still a section 300 feet long that may require additional work in 1982.

Topography

The claims are located on the northwest facing slope of the Sixty Mile Valley between the elevation of 3500 feet and 4500 feet. The property is cut by two small northwest flowing streams, occupying broad valleys. The ridge is rounded with less than 5% scattered outcrop, although there are numerous extensive areas of broken scree.

Climate

The claim area is free of snow between late May and September. Winter accumulated snowfall would be less than 2 feet except where there is drifting. Temperature is typical of the sub-Artic with very cold winters and warm summers. Rainfall in the claim area would be less than 15 inches per year.

Water

There is ample water for drilling from the small creek in the central portion of the claim group. The Sixty Mile river can provide adequate water for our future mill requirements.

Vegetation

The creek bottoms are covered with muskeg willow and scrub black spruce. The remainder of the claim group is covered by buckbrush and scattered bunches of scrub balsam. Spruce, suitable for mine timber is found in the Sixty Mile valley.

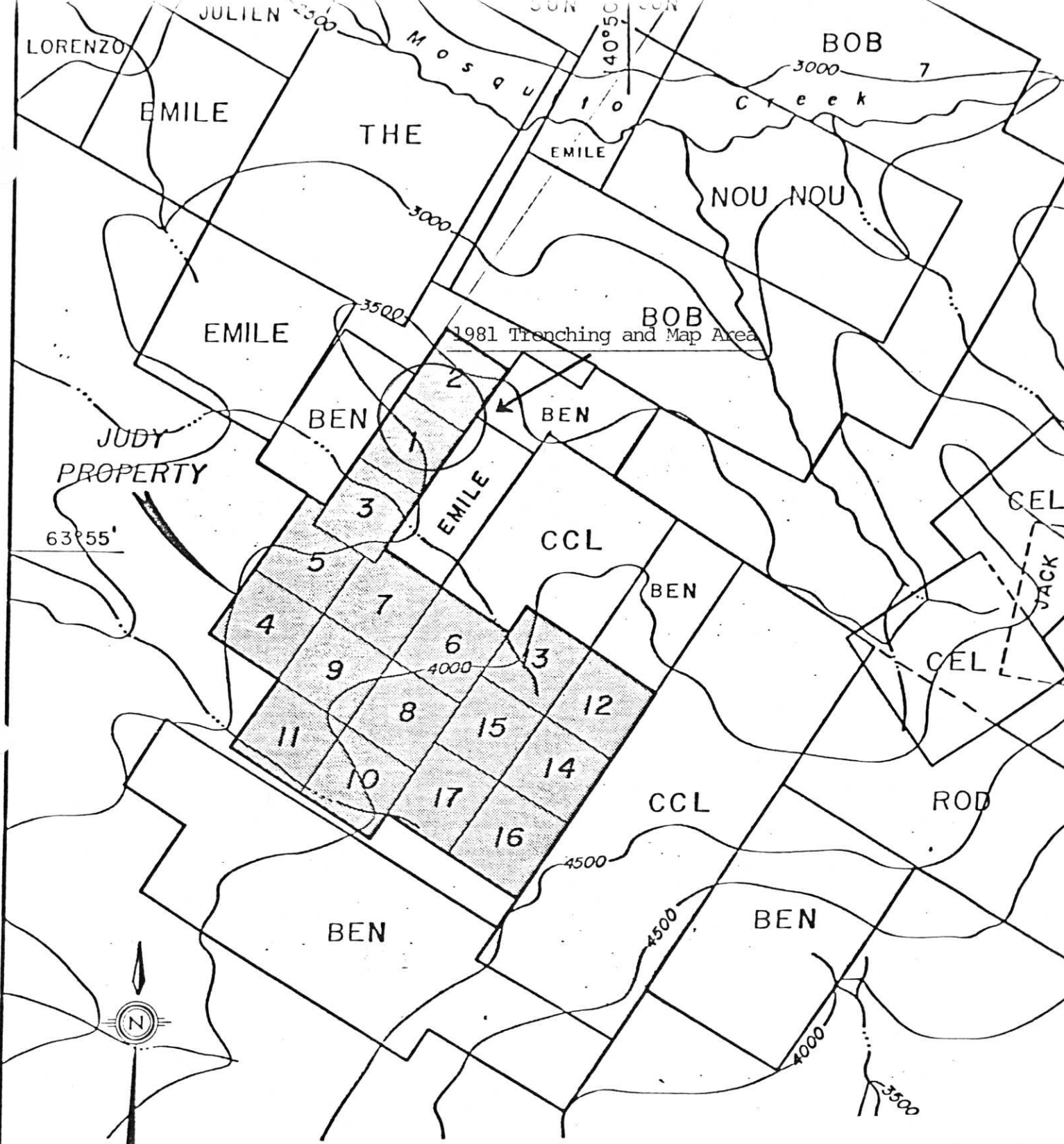
HISTORY

- 1965 J. R. Lerner discovered silver-lead veins
- 1966 Sixty Mile Mining Co. Ltd. was organized to develop the property and 20 tons of high grade galena mineralization was shipped to Cominco.
- 1969 Connaught Mines optioned the property and carried out an extensive surface program as well as diamond drilling
- 1974 The best mineralized vein area was allowed to lapse by Connaught Mines Ltd. and it was restaked by J. R. Lerner
- 1975-76 J. R. Lerner shipped 251 tons to Asarco's smelter at East Helena, Montana
- 1981 J. R. Lerner staked an additional 16 claims and the total of 17 contiguous claims were sold to Lougheed Resources Ltd.

CLAIMS

<u>Name</u>	<u>Record Number</u>	<u>Expiry Date</u>
Judy 2	Y82496	May 21, 1982
Judy 1	YA55162	January 30, 1982
Judy 3 - 17	YA55163- YA55177	January 30, 1982

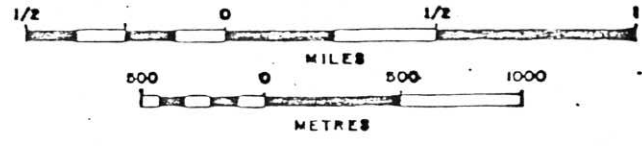
Four years assessment work has been applied to the 16 Judy Claims to keep in good standing until 1986.



63°55'



SCALE : 1 Inch = 1/2 Mile



LOUGHEED RESOURCES INC.

JUDY MINERAL PROPERTY
Dawson Mining District, Y. T.

CLAIM MAP

Atled Exploration Management Ltd.

Date: January, 1982

GEOLOGY

General

The general claim area is underlain by metamorphic rocks of Paleozoic Age that have been intruded by granitic stocks and dikes of Mesozoic Age. The majority of the claim area is underlain by Klondike schist in contact on the westside of the claim group with Pelly Gneiss. The Klondike schist is most commonly a highly schistose chlorite, quartz schist. The Pelly Gneiss consists of highly foliated granitic rocks.

Property

The outcrop geology in the trenches was mapped on a scale of 1 inch equals 100 feet.

Two trenches (T1 and T2) were cut across the southwest strike of the vein zone and one trench (T3) was cut across the northeast strike of the vein zone.

Trench 1 is cut along the contour of the hill. The trench is in outcrop at 6 and between 2 and 3. The balance of the trench is cut in scree and talus that is very close to massive outcrop. From 0 to 4 + 10 feet and from 4 + 100 feet to 6 the trench is in a fine to medium grained quartz biotite gneiss. Between 4 + 60 feet and 100 feet the scree is bleached and there is quartz veining, but the zone is not highly oxidized compared with the shear zones in Trench 2 and 3. The foliation in the gneiss is difficult to determine in the outcrop between 02 and 03. However at 6 there is prominent foliation striking northeasterly and dipping steeply.

Trench 2 is 200 feet to the west of the Lerner lead-silver vein zone. A highly oxidized shear zone is exposed in rubble over a width of 75 feet in the bottom of the Trench. The zone is yellowish-orange to dark brown with indications of quartz veining. Solid outcrop could not be located because the fractured and sheared zone is deeply weathered. The zone would be extension of the Lerner lead-silver vein zone but any

sulphide mineralization has been completely oxidized. The south end of the trench is in fresh quartz biotite schist cut by random narrow quartz veins.

Trench 3 is 250 feet to the northeast of the Lerner lead-silver vein zone. Two strong shear zones occur in weakly altered and oxidized quartz biotite gneiss at the south end of the trench. It is difficult to see the trend of these zones as they appear to have been flattened to the north by "down-hill creep". There are numerous quartz fragments and irregular quartz veining associated with these zones. Near the central portion of the trench and just before the start of competent bedrock to the north is a highly silicified zone that is poorly defined over a distance of 20 feet in the bottom of the trench. There are irregular limonite zones associated with this zone but there is only minor sulphide mineralization. To the north of this zone the trench cuts massive outcrop to a depth of 12 feet. The outcrop is highly oxidized near the silicified zone but is less altered to the north. This rock appears to be more layered than the quartz biotite gneiss seen in Trench 1 and may be more typical of the Klondike schists. The layering and foliation is flat. Neither the oxidized shear zones at the south end of the trench nor the silicified zone in the centre of the zone, appear to be on strike of the Lerner mineralized zone. It is possible that the zone splits or has been offset by a northerly trending fault.

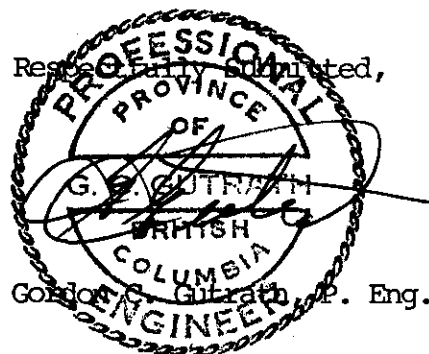
The Lerner lead-silver zone occurs in a deep open cut 200 feet long and a maximum 40 feet wide. The cut was filled with water so that only the sides could be examined. The vein zone is surrounded by highly oxidized quartz mica gneiss. There is a strong shear-fault zone on the south side of the cut striking N54E and dipping 80° to the south. The foliation in the gneiss at the west end of the cut strikes N 40°E and dips at 20° to the northwest.

CONCLUSION AND RECOMMENDATIONS

The extension of the Lerner lead-silver vein alteration-shear zone is exposed in Trench 2 and may be exposed in Trench 1 and in Trench 3. No massive galena mineralization was observed in any of the trenches but the oxidation is deep, particularly in Trench 2 and 3, and the original sulphide mineralization could have been completely altered to secondary oxides and carbonates and near surface these would have been subject to intensive leaching.

Detailed mapping of the scree between the trenches and the old trenches to the northeast and southwest along strike may locate extension of the zone. Careful prospecting is required since the scree is normally covered by lichen and a secondary weathered layer masking the nature of the original rock unless a fresh surface is examined. Geochemical soil and rock chip sampling, after an orientation survey is completed in the Lerner mineralized zone area, will be of value in tracing and evaluating the potential of the extensions of the altered mineralized zones. A close spaced electromagnetic survey starting at the Lerner zone will also be of definite value in tracing the mineralized zones.

It is recommended that the phased exploration program outlined in the report by R.T. Heard, P. Eng., February 1981 be continued.



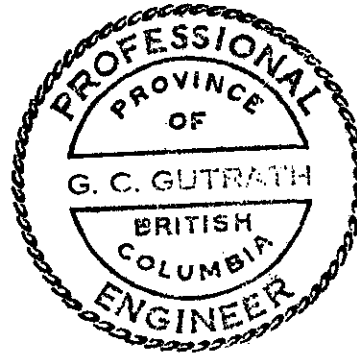
ENGINEER'S CERTIFICATE

I, GORDON C. GUTRATH, of 3880 Selkirk Street in the City of Vancouver, British Columbia, do hereby certify:

1. That I am a consulting geologist with a business address of 900 - 850 West Hastings Street, Vancouver, B.C. V6C 1E1
2. That I am a graduate of the University of British Columbia where I obtained my B.Sc. in geological science in 1960.
3. That I am a Registered Professional Engineer in the Geological Section of the Association of Professional Engineers in the Province of British Columbia.
4. That I have practiced my profession as a geologist for the past twenty two years, and
5. That I have no direct interest in the Judy Claim Group and I own 10,000 shares of Loughheed Resources Inc.



Gordon C. Gutrath, B.Sc., P.Eng.



DATED at the City of Vancouver, Province of British Columbia this 22 day of Jan, 1982.

ATLED EXPLORATION MANAGEMENT LTD.

900 - 850 West Hastings St.
Vancouver, B.C.
V6C 1E1

March 4, 1982



Mrs. B. J. Proudfoot
Mining Recorder
Dawson Mining District
Box 249
Dawson City, Yukon

Dear Mrs. Proudfoot:

Please find enclosed the two geological maps with the claim post, claim outline and trench dimensions (yd³), for the Judy Claim Group.

The trench dimensions are as follows:

	<u>Length</u>		<u>Width</u>		<u>Depth</u>		
Trench 1	1400'	x	18'	x	3'	=	2,800 yd ³
Trench 2	400'	x	16'	x	6'	=	1,422 yd ³
Trench 3	500'	x	16'	x	4'	=	1,185 yd ³
							5,407 yd ³

Yours very truly,

A handwritten signature in cursive script, appearing to read "Gordon C. Gutrath".

Gordon C. Gutrath

cc: Loughheed Resources Inc.

ATLED EXPLORATION MANAGEMENT LTD.

900 - 850 West Hastings Street,
Vancouver, B.C. V6C 1E1

INVOICE

TO: Loughheed Resources Ltd.

Judy Claims

Bulldozer trenching (S. Prohasca) 5,070.00

Geological Mapping and Report

Field work:

Professional Services 3 days @ \$200/day \$ 600.00

Disbursements:

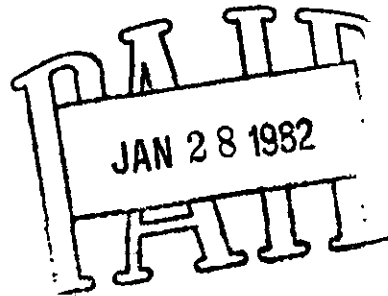
4 x 4 trucks 400 miles @ 75¢/mile 300.00

Room and Board 3 days @ \$50/day 150.00

Report - G. Gutrath, P. Eng. 300.00

1,350.00

\$ 6,420.00

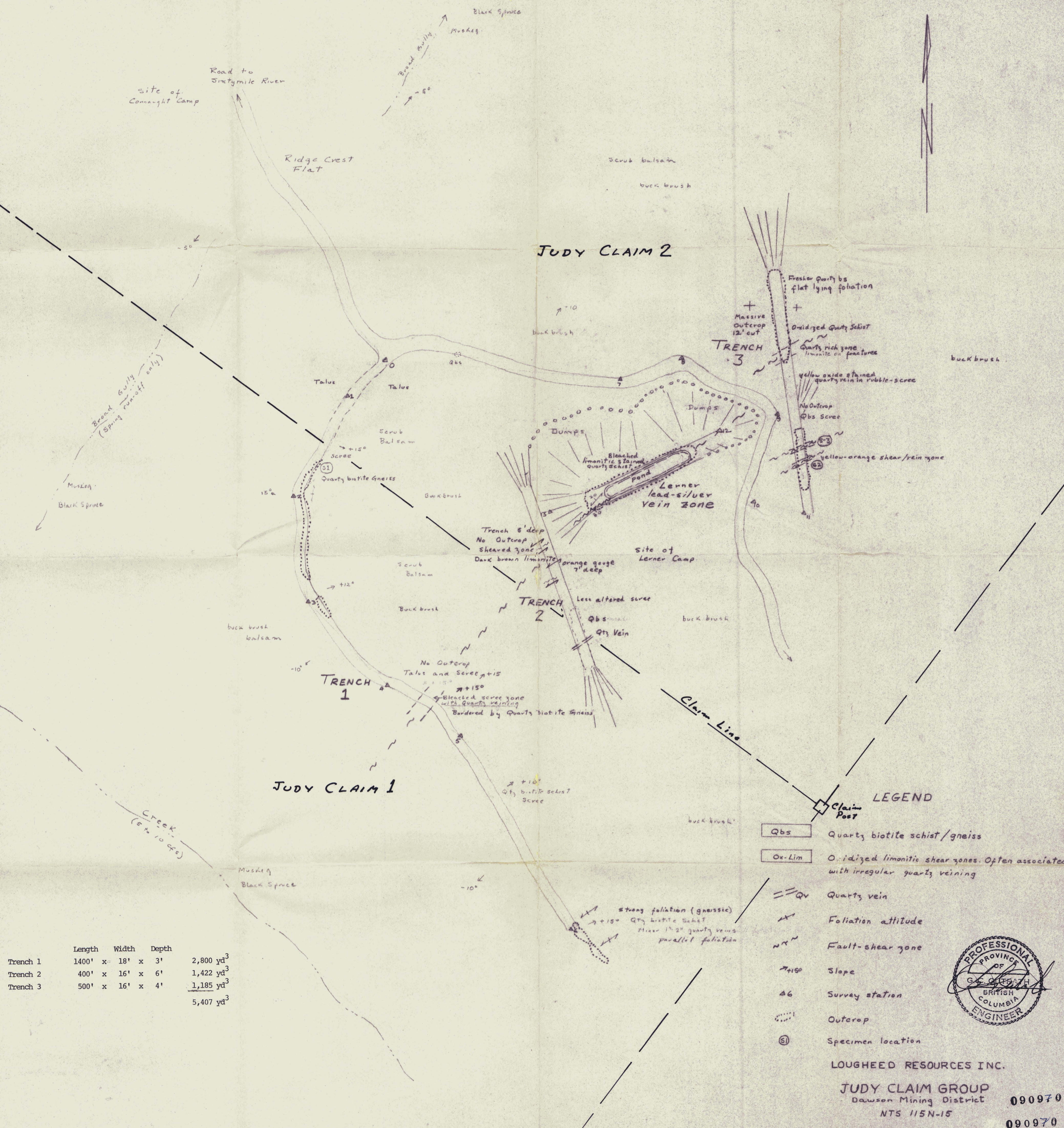


Site of Connaught Camp
Road to Sixty Mile River

Ridge Crest Flat

JUDY CLAIM 2

JUDY CLAIM 1



Trench	Length	Width	Depth	Volume
Trench 1	1400'	18'	3'	2,800 yd ³
Trench 2	400'	16'	6'	1,422 yd ³
Trench 3	500'	16'	4'	1,185 yd ³
				5,407 yd ³

LEGEND

- Qbs Quartz biotite schist/gneiss
- Ox-Lim Oxidized limonitic shear zones. Often associated with irregular quartz veining
- Quartz vein
- Foliation attitude
- Fault-shear zone
- ↗ +15° Slope
- △ Survey station
- Outcrop
- ⑤ Specimen location



LOGHEED RESOURCES INC.

JUDY CLAIM GROUP
Dawson Mining District
NTS 115N-15

Scale 1 inch = 100 feet

090970

090970

Jan / 82