

GEOPHYSICAL REPORT
ON THE PROPERTY OF
PROSPER OILS LIMITED (N.P.L.)

ROSS RIVER - PELLY RIVER AREA
YUKON TERRITORY

SULMAC EXPLORATION SERVICES LIMITED

JUNE 6, 1966.

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In Pocket:

Map of Electromagnetic and Magnetometer Survey
at scale 1" = 400'

Property

The property consists of 30 contiguous mining claims numbered as follows:

94073 - 94088 inclusive

94159 - 94166 inclusive

94089 - 94094 inclusive

The property is contiguous with that of Kamloops Copper Consolidated Limited, and the survey performed was carried out in conjunction with the survey on the property of Kamloops Copper Consolidated Limited.

The property is located some 30 miles north of the hamlet of Ross River, Yukon Territory. Ross River is, in turn, located some 180 miles northeast of Whitehorse. Radio communications exist at Ross River to Whitehorse and communication to the claim group can be maintained by Klondike Helicopters who are based at Ross River, and by fixed wing aircraft from Ross River to Whitehorse.

General

This general area of exploration became prominent during mid summer to September of 1965 with the announcement by Dynasty Explorations Limited of major tonnages of lead, zinc, copper material, following previous announcements of a sizeable

tonnage which had been proven by Kerr Addison. The general mineralized belt has now been named the Vangorda area, following along Vangorda Creek.

Following the announcement last year, a great deal of staking and prospecting activities resulted, and the entire area is now being actively worked by many companies. The claims held by Kamloops Copper Consolidated Limited were staked by that company on geological information existing at the time, and although no surface exposures had been examined, they were considered to be well located within the general region of activity.

Method of Survey

The entire claim group was covered by a 400 foot interval grid system with a baseline being cut in an approximate east-west direction and picket lines in a north-south direction. A magnetic survey was first carried out over these picket lines employing a Sharpe Fluxgate magnetometer, following which a reconnaissance electromagnetic survey was completed employing the vertical loop electromagnetic system. Detailed electromagnetic surveying was then completed where any indication of conductors was apparent.

Discussion of Results

The magnetic survey indicated considerable

variations in relief. Magnetic anomalous indications were apparent on Claims 94091, 94077, 94083, and 94085. However, most of the anomalous indications covered a limited area, and consisted mainly of single high readings on individual lines, and produced a random effect to the magnetic results. However, a general magnetic trend in a roughly east-west direction was established and indicated that the geological formations underlined the claim group at an approximate east-west strike. General magnetic anomalous areas were located in the vicinity of Lines 40 to 52E - 8N, 36 to 40E - 8S, and a major anomalous area with widely varying intensities from 84E - 120E and from 4S - 12S.

A reconnaissance electromagnetic survey was conducted over all lines and at right angles to the general geological strength. Several minor conductors were located in the coverage survey. Detailed surveying carried out on the reconnaissance conductors tended to eliminate all except one conductive zone.

This conductive zone is located at the baseline on Line 100E and running in a general north easterly direction through Line 104E - 4N. Although it is not associated directly with a magnetic anomaly, it is within an area of varied magnetic relief.

Conclusions

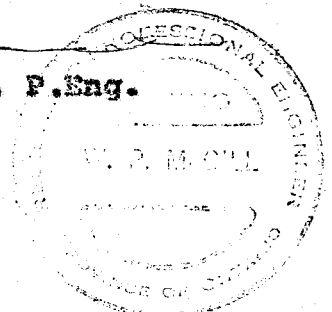
A single conductor of low intensity in an area of varied magnetic relief has been located on the property along with several other reconnaissance type conductors which have been limited by detailed work. Because of the lead-zinc type of mineral being sought in this general area, the single conductor becomes of interest and should be investigated further. Should either prospecting or testing by drilling prove mineral of value to be the cause of this conductor, the remaining weaker reconnaissance conductors should be reconsidered.

It is suggested that the single conductor be tested by drilling in conjunction with the programme of drilling which is to be carried out on the adjacent property of Kamloops Copper Consolidated Limited in the same manner as the joint geophysical survey was carried out. If this was done, the testing costs would be very markedly reduced.

Respectfully submitted,

SULMAC EXPLORATION SERVICES LIMITED


W. P. McGill, M.A., P.Eng.



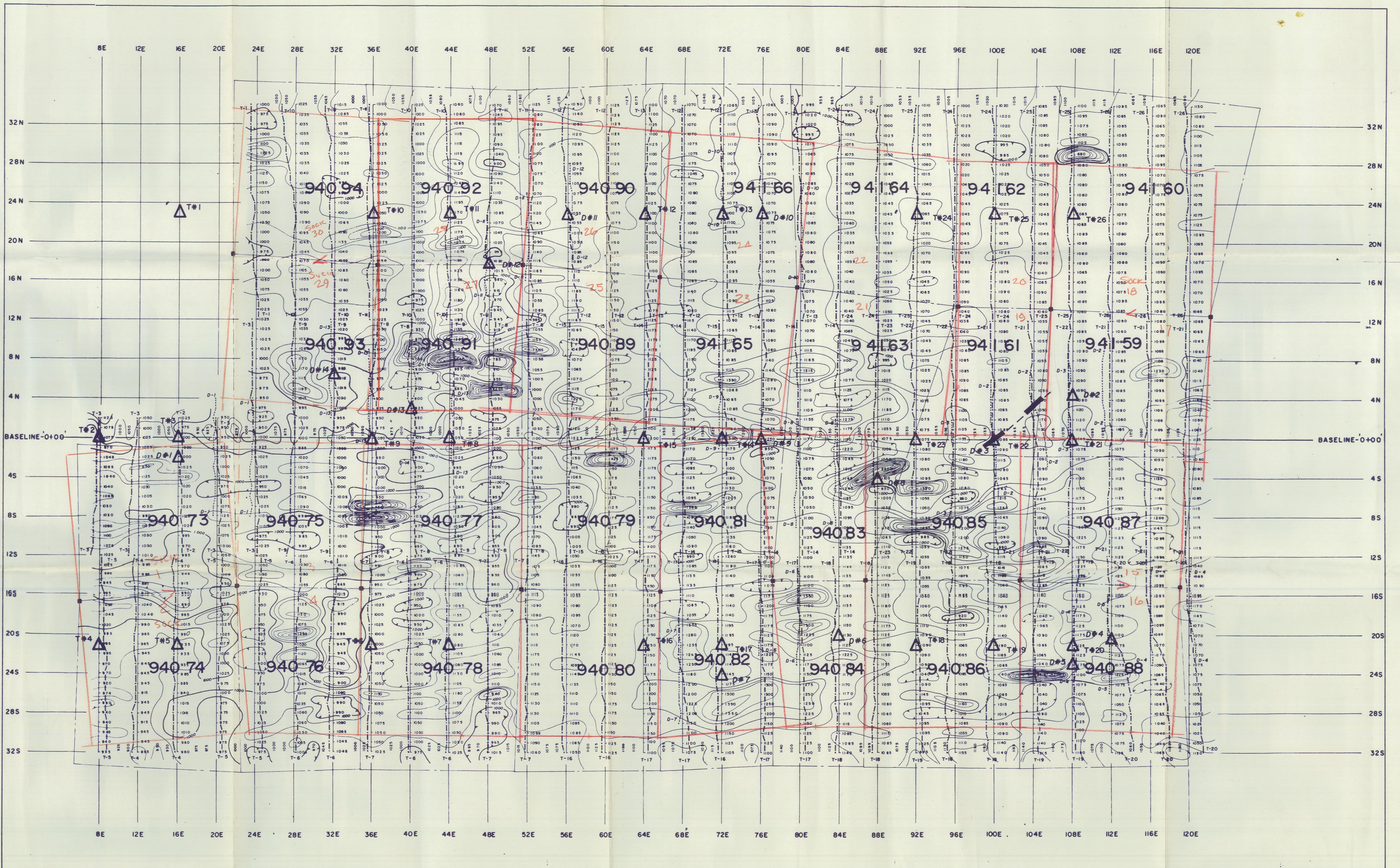
June 6, 1966.

A P P E N D I X

List of Personnel Employed on Geophysical Survey, and

Dates:

L. Savard	Line cutter	February 25 to March 20, 1966.
C. Chevrieux	Line cutter	February 25 to March 20, 1966.
J. McNeil	Line cutter	February 25 to March 20, 1966.
R. Arsenault	Geophysical Operator	April 20 to May 13, 1966.
E. Martin	Geophysical Assistant	April 20 to May 13, 1966.
G. Engberg	Geophysical Operator	April 20 to May 13, 1966.
J. Winton	Geophysical Assistant	April 20 to May 13, 1966.
D. Grant	Draftsman	April 20 & 25, 1966. May 4, 16 & 18, 1966.
W. P. McGill	Consulting Engineer	June 6, 1966.
V. Shim	Typist	June 6, 1966.



LEGEND

MAGNETOMETER SURVEY
 Contour Interval 50 Gammas
 1000 Gamma Contour
 50,100 Gamma Contour
 Magnetic Depression

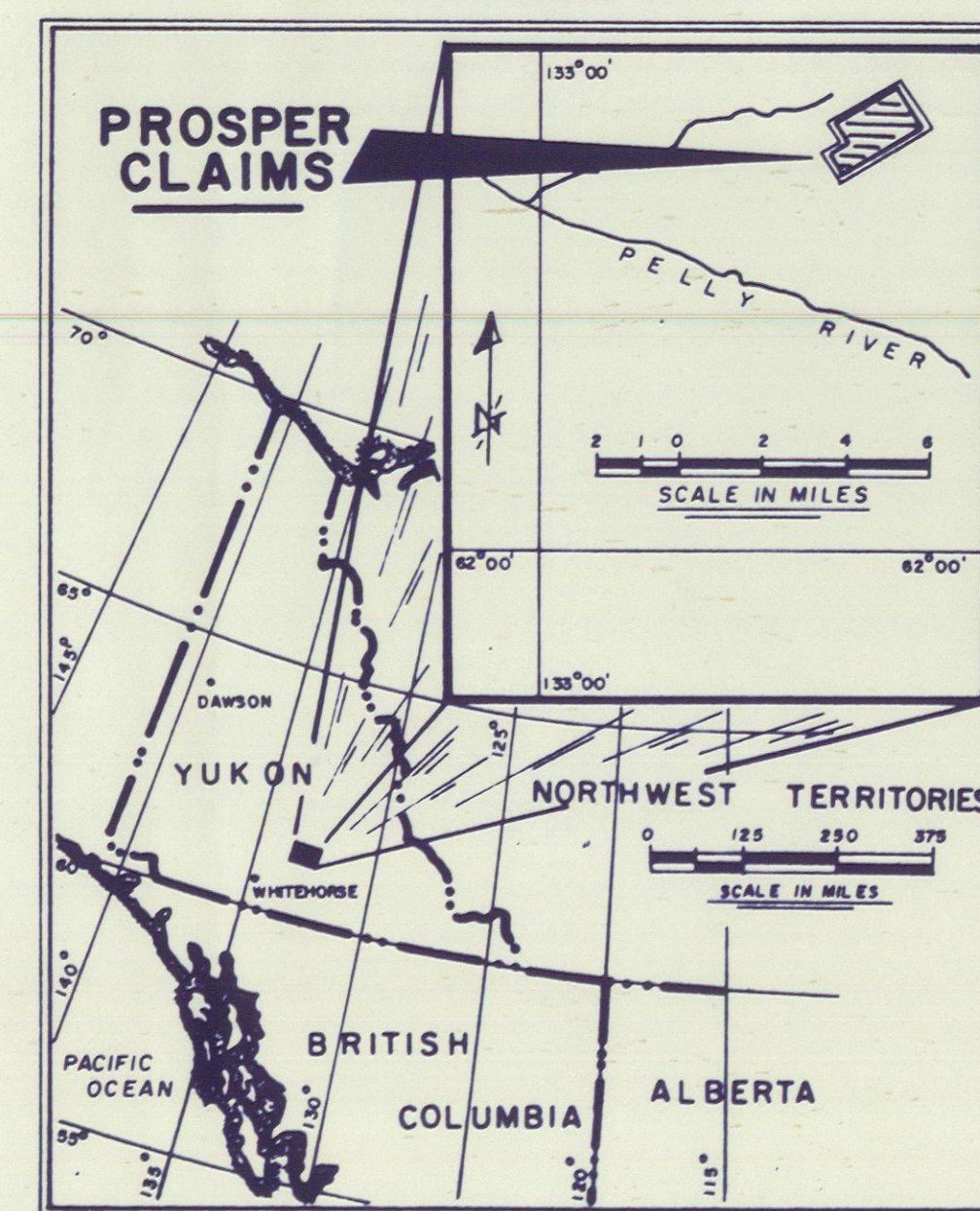
MAP SYMBOLS
 Claim Post and Claim Boundary (approx.)

ELECTROMAGNETIC SURVEY

RECONNAISSANCE
 Profile of Electromagnetic Readings (a)
 Dip Angle $\approx 20^\circ$

DETAIL
 Electromagnetic Transmitter Location (T#2)
 Transmitter Location Reference (T-2)
 Conductor

LOCATION MAP



PROSPER OILS LIMITED

ROSS RIVER-PELLY RIVER AREA-YUKON

VERTICAL LOOP ELECTROMAGNETIC AND MAGNETOMETER SURVEY



Scale 1:40,000
 One Inch = Four Hundred Feet

Drawn by D.A. Grant