

FISH LAKE

1963

I.P.

860980

(27)

PHELPS DODGE

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REPORT ON
INDUCED POLARIZATION SURVEY
PROJECT 36

TASEKO LAKE, B. C.

by

J.H. RATCLIFFE

October, 1963.

SUMMARY

An induced polarization survey was conducted by a Company crew over Fish Creek valley in the summer of 1963. The data obtained during this survey were combined with those obtained during a similar survey in 1961. The combined survey has defined four anomalous zones, one of which was intersected by three diamond drill holes in 1962. These holes all returned low values in copper. Two of the remaining zones have much more impressive Metal Factor anomalies than those obtained over the drilled zone. Test drill holes have been recommended for these zones. No further work is recommended at this time for the other anomalous zone.

INTRODUCTION

During the period July 6, 1963 to August 7, 1963, an induced polarization survey was carried out on a Phelps Dodge Corporation of Canada, Limited property known as Project No. 36-Taseko Lake.

At the time of the survey, Project 36 consisted of 75 claims and fractions, five of which were due to lapse on August 3, 1963 and twenty-nine on October 20, 1963.

LOCATION AND ACCESS

The property is situated immediately north of a small lake known as Fish Lake which lies some 160 air miles north and very slightly west of Vancouver, B.C. Normal transportation to the property is by aircraft, but it is possible to drive to within 2 miles of the property by means of the

Hanceville-Taseko Lakes Trail. Pack trails suitable for horses provide access from this trail to the property along the northeast side of Fish Creek. Alternatively, it is understood that the 0+00 picket line for Grid 2 on the property has been driven to the southwest at least as far as the Hanceville-Taseko Lakes Trail.

TERRAIN

Fish Creek flowing northwesterly from Fish Lake to the Taseko River occupies a broad, open valley which is sometimes used for grazing cattle. At about line 66+00', the creek enters Fish Creek Canyon which is marked by very steep slopes and difficult terrain.

HISTORY

The claim group was staked in October, 1960. In 1961, a ground magnetometer survey and a geochemical soil sampling survey were conducted over the entire property using pace and compass lines as control. Three areas were selected for further detail work and picket line grids were prepared. These grids known as Grid 1, Grid 2 and Grid 3, had detail magnetometer and soil sampling surveys carried out over them, and, late in the season an induced polarization survey was performed. The I.P. work, under the direction of Mr. S. Caytan, Research Physicist, Geophysical Research and Exploration Department, Phelps Dodge Corporation, Douglas, Arizona, revealed three minor anomalies which were tested by drilling in 1962.

The 1952 drilling program consisted of 6 holes aggregating 2005 feet. Holes 1, 2 and 3 were located in Grid 1; holes 4 and 5 in Grid 2; and hole 6 near Fish Creek on the Connecting Grid.

GEOLOGY

The geology of the area is known only in a general sense since outcrops are few and badly weathered. Additional clues have been provided by the magnetometer survey, air photograph studies and diamond drilling. It would appear that a flat lying basalt flow caps an intrusive complex consisting of feldspar porphyry, diorite, and porphyritic granodiorite which has intruded acid to intermediate volcanics and tuffs.

Two sets of topographic lineaments appear to intersect in the Fish Creek valley between Grid 1 and Grid 2. The northwesterly trending lineaments are believed to represent a major shear zone which can be traced some 120 miles to the southeast to Lytton and perhaps 190 miles to the northwest to a point near Bone Lake. The northerly trending lineaments possibly represent more localized shears in the valley of Fish Creek.

At the point of intersection it was thought that the intrusive rocks would be highly fractured and possibly amenable to the introduction of mineralizing solutions. A "fence" of diamond drill holes across this zone of interest and joining Grid 1 to Grid 2 suggests that this interpretation may be valid. All of the holes encountered copper bearing

rocks but the grade was very low. The best intersections were 143 feet grading 0.13% copper in hole number 6, and 303 feet grading 0.12% in hole number 3. Both of these holes are located in the vicinity of the intersection of the lineaments.

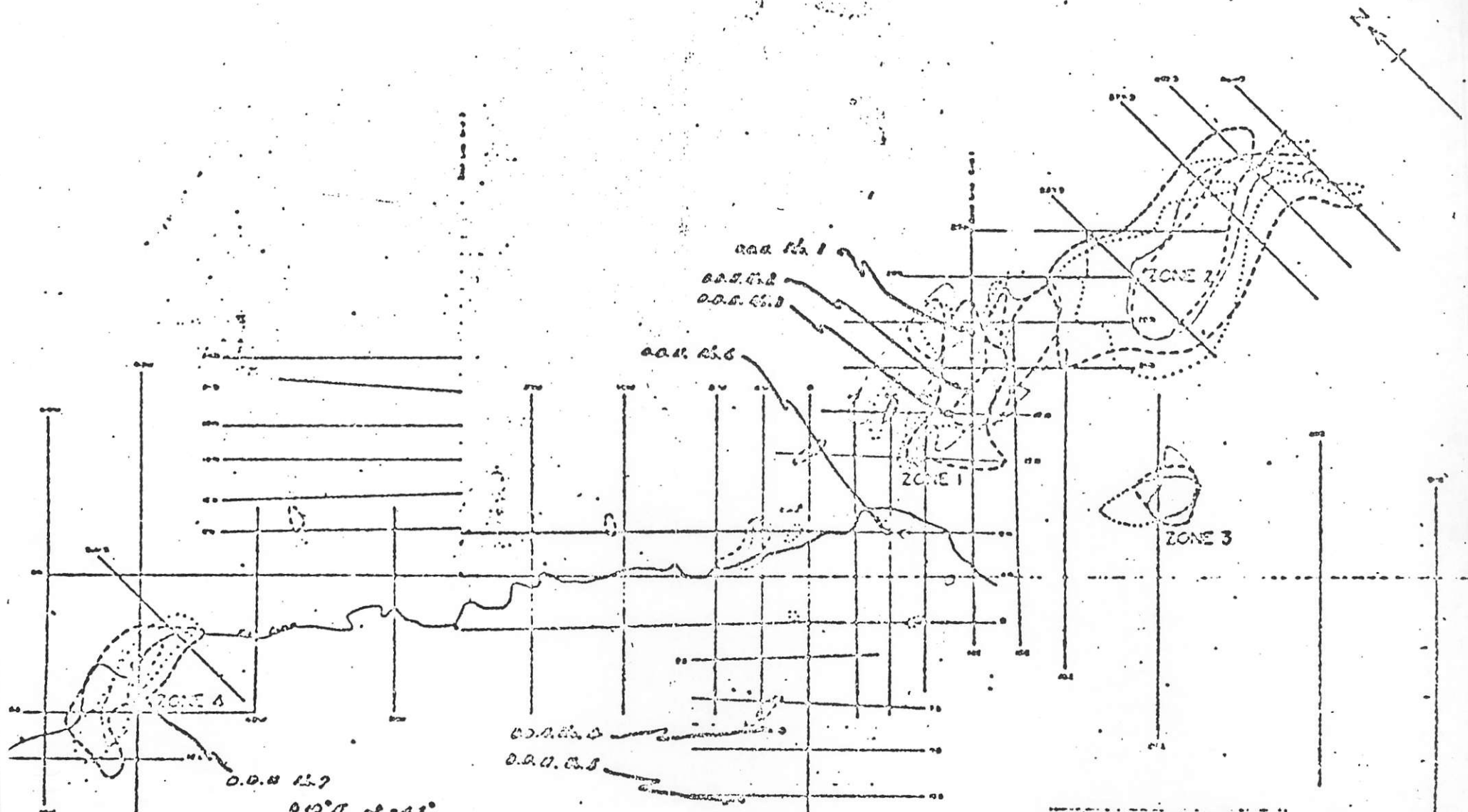
PURPOSE OF THE SURVEY

The original induced polarization survey had been confined to the three detailed grids with minor coverage in Fish Creek valley to permit tying the three grids together. The purpose of the new survey was to provide reconnaissance coverage of the entire Fish Creek valley lying within the property, and detail coverage of the anomalous areas disclosed by the original survey and the reconnaissance work.

PERSONNEL

The crew consisted of W. Meyer, J.S. Bortnick, M.J. Esley, T. Morris and the author from July 6 until July 26. At that time the author left the party with somewhat over 60% of the work completed. Supervision of the work from July 26 to completion on August 7, 1963 was delegated to W. Meyer.

Initially the work proceeded very slowly, the period between July 6 and July 15 being plagued by rainy weather. This time was utilized however in setting up camp, laying out picket line control and training the crew. From July 15 to August 7 efficient survey operations were maintained without a break.



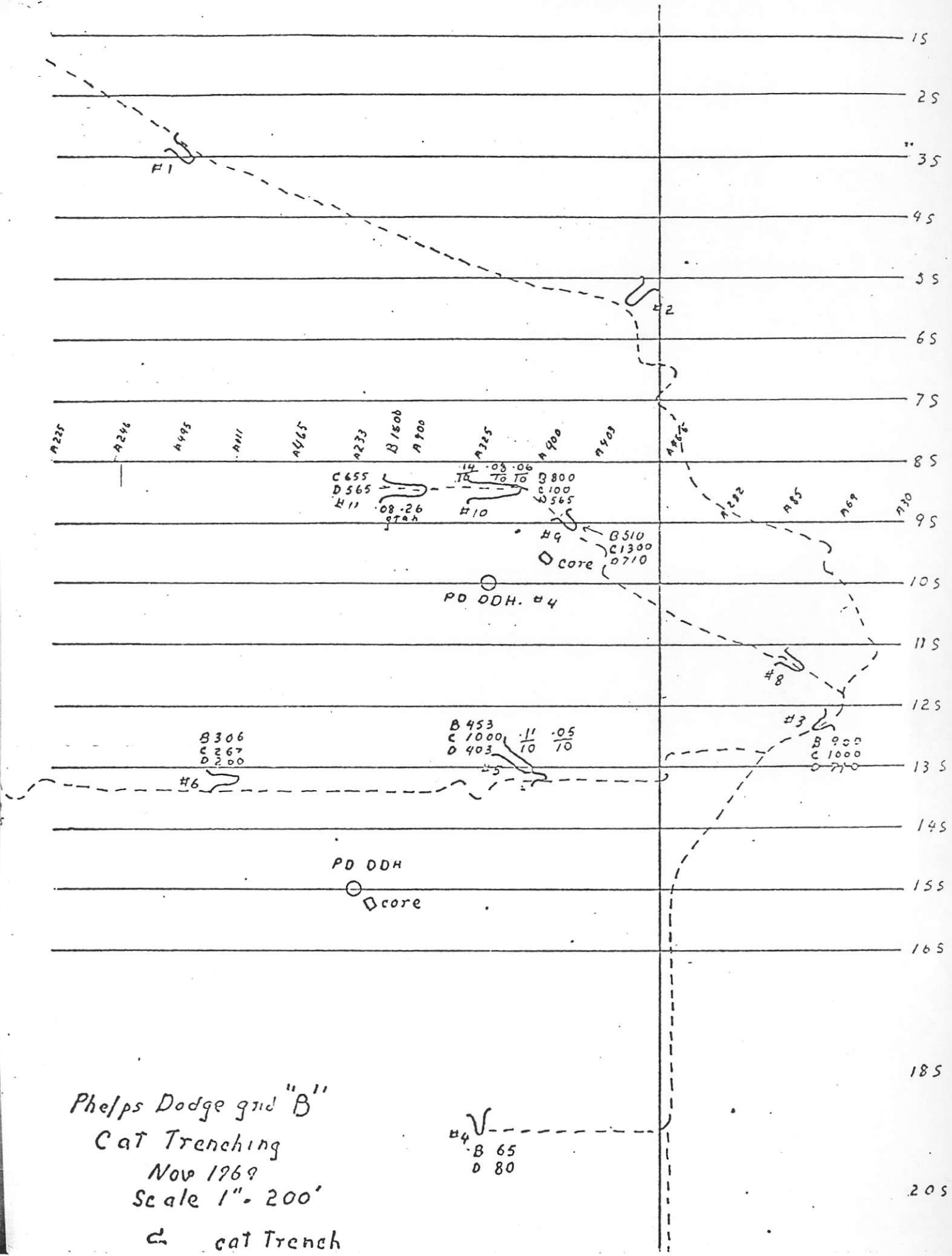
D.O.B. 12.7
010° 0' S-43°

D.O.B. 12.1
D.O.B. 12.2
D.O.B. 12.3
D.O.B. 12.6

D.O.B. 12.4
D.O.B. 12.5

- Legend
- Boundary Line 001
 - Boundary Line 002
 - Boundary Line 003
 - Boundary Line 004

REPUBLIC OF THE PHILIPPINES
LAND SURVEY DEPARTMENT
MINDANAO
Davao Region
Davao City
OFFICE OF THE SURVEYOR GENERAL
Davao City
NOV 10 1974
Davao City



Phelps Dodge grid "B"
 Cat Trenching
 Nov 1969
 Scale 1" = 200'
 --- cat Trench

#4
 B 65
 D 80