This is Exhibit " A " referred to in the

DONALD W. SMELLIE, P.ENG advit of Thomas W. Connell CONSULTING GEOPHYSICIST Sworn before me at Veneouver

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1666 WEST BROADWAY VANCOUVER 9, B.C. REGENT 1-6584

in the Province of British Columbia this 1967 1gth day of .... April A Commissiopler for taking Affidavits within British Columbia

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SELF POTENTIAL SURVEY ON THE

BEA AND GIANT GROUPS, HOPE AREA, B.C.

for

KELSO EXPLORATIONS LTD.

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/ Fig. 1 - (in pocket) - Self Potential survey

### INTRODUCTION

At the request of James P. Elwell, P.Eng., a self potential survey was carried out on the BEA and GIANT group of claims for Kelso Explorations Ltd. The area surveyed lies 2<sup>1</sup>/<sub>2</sub> miles north of Hope, B.C. Field work was carried out by:

| D.1 | A. McDonald | Supervisor | November | 15-17; | 19-22;            |
|-----|-------------|------------|----------|--------|-------------------|
| G.  | Woodsworth  | Crew Chief | n        | 15-19; | 21; 22; 24; 26-29 |
| Τ.  | Dudley      | Helper     | 11       | 15-22; | 24; 28; 29        |
| R.  | Hagerman    | Kelper     | 77       | 17-22; | 24; 26-29         |
| R.  | Henderson   | Helper     | t:       | 15; 16 |                   |

#### FIELD PROCEDURE

The natural potential was measured between the rear electrode at one station and the forward electrode at the next station. The array was then moved to successive pairs of stations, so that the resultant self potential was the cumulative total of the potential differences up to a particular station. Station separation was 100 feet.

The self potential measurements were made in continuous loops and adjustments for errors in closure have been made.

The stations were located by a compass and chain survey.

### INSTRUMENTATION

The McPhar self potential unit was used for the survey. This consists of two porous pot electrodes connected by wires to a null-type potentiometer.

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## RESULTS

The enclosed plan, Fig. 1, is a map of self potential values contoured in 100 millivolt intervals.

The survey discloses four interesting anomalies which are labelled A, B, C and D on Fig. 1.

Anomaly A, located in the south part of 3 BEA, can be interpreted as a mineralized zone dipping steeply to the east. Probably this feature is part of a northsouth trend which extends southward under Schkam Lake and northward under a topographic high composed of conglomerate. It is recommedned that this anomaly be tested by a vertical hole located between stations A-7 and A-8.

The work on Anomaly B, located in the east part of 1 GIANT, was done under adverse conditions and consequently the values are less reliable than the values controlling Anomaly A. In fact it was necessary to apply adjustments of about 25 millivolts per station in order to tie the lines in this part of the area. Notwithstanding these adjustments, this feature could be the expression of an ore body because regardless of what method of adjusting is used the negative anomaly cannot be eliminated. Additional self potential lines should be assigned to both verify the magnitude of and detail the shape of this anomaly.

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Anomaly C is located partly in the east part of 5 BEA and partly off the east edge of the claim group. The control on this feature is not sufficient to any more than suggest a north-northwest striking mineralized trend. This anomaly would appear to warrant further investigation. It is interesting to note that surface outcrops of conglomerate were observed at and near the location of Anomaly C.

The significance of the positive Anomaly D, located in the southeast part of BEA 23, is not clear. Possibly this feature is the partial expression of the positive values that normally form the boundary of a negative anomaly. If this is true then presumably a negative anomaly, either east or west of D, has been masked by overburden. As the conglomerate topographic high lies to the east of D, this reasoning leads to the speculation that a mineralized zone may occur under the conglomerate in the southwest part of BEA 21.

Respectfully submitted,

99 The Donald

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D. A. McDONALD, P.Geoph. (Alberta)

approved, Martinellie, P. E.g.

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