

DONALD W. SMELLIE, P. ENG.  
CONSULTING ENGINEER

1666 WEST BROADWAY  
VANCOUVER 9, B.C.  
731-6584

2661

GEOPHYSICAL REPORT

KAT GROUP

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# FIGURE - Electromagnetic survey,  
Kat group, September 1970

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2661 M.P. ....

## INTRODUCTION

An electromagnetic survey has been carried out on the KAT group. This property is located east of Retallack, B.C., and is owned by the author. Field work was carried out on September 4, 1970, by the author assisted by John Sladen, on the KAT 13 and KAT 15 Fraction claims.

## INSTRUMENTATION

The Sharpe SE 600 electromagnetic unit was used. This can be operated on either the "vertical - coil tilt - angle" or "horizontal - coil" techniques. Only the latter was employed, the in-phase and quadrature components of the secondary field detected by the receiver being measured as a function of the primary field intensity.

## FIELD PROCEDURE

The solenoidal transmitter and receiver coils were operated with their axes parallel and at a spacing of 200 ft. This was accomplished by slope-chaining the stations.

## RESULTS

Readings were taken at 100 ft. intervals along the Base Line and line 24W, and at 50 ft. intervals along lines 36+50W and 38W. In-phase and quadrature readings are plotted at the mid-point between transmitter and receiver coils, on the accompanying Figure. A moderate - intensity good - quality anomaly is marked at 900N on line 38W and 925N on line 36+50W. This correlates well with the geochemical anomaly described in my assessment report dated September 12, 1968.

Other anomalies occur at 200-300N and 600-700N on line 24W but will require detailing in order to disclose the strike of the source .

Respectfully submitted,



D. W. SMELLIE, P.Eng.

October 23, 1970



L38W L36+50W

L24W

REVENUE

OHIO CREEK

98	-2	
96	-2	97 -4
96	-4	90 -11
94	-13	96 -12
90	-14	91 -20
93	-15	91 -13
92	-11	94 -13
93	-7	92 -11
94	-11	96 -7
97	-5	
100	-2	
105	0	
110	-3	

KAT 15 FR

96	-5
97	-7
90	-8
95	-10
98	-8
96	-7
97	-8
90	-11
92	-13
100	-6
96	-8
96	-15
95	-13
97	-14
99	-6
96	-6


KAT 13


102	-5	100	-4	101	-8	98	-11	99	-7	99	-6	96	-6	100	-4	103	-14	104	-6	101	-6	103	-9	105	-10	106	-8	105	-9
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ELECTROMAGNETIC SURVEY

KAT GROUP

SCALE 1" = 200 FT E.M. ANOMALIES 1" = 20  $\gamma$

IN-PHASE COMPONENT  L.H. FIGURE

QUADRATURE COMPONENT  R.H. FIGURE

ANOMALY AXIS

D.W. SMELLIE SEPT. 1970

*D.W. Smellie*