'79-#602-# 7716

ASSESSMENT REPORT

on a

Self Potential Geophysical Survey

of portions

of the

BIG KIDD GROUP of MINERAL CLAIMS

covering the

Big Kidd Breccia Pipe

Aspen Grove Area

Nicola Mining Division

Latitude 49°47'N; Longitude 120°35'W

N.T.S. 92H/15E

Field Work November 16 to 20th, 1979

and December 6, 1979

on behalf of

DAVID MINERALS LTD

Report by

D. R. Cochrane, P. Eng.
December 7, 1979,
Delta, B. C.

Cochrane Consultants Limited
4882 Delta St., Delta, B.C. V4K 2T8 946-9221
Geotechnical Consulting / Exploration Services

geology
geophysics
geochemistry

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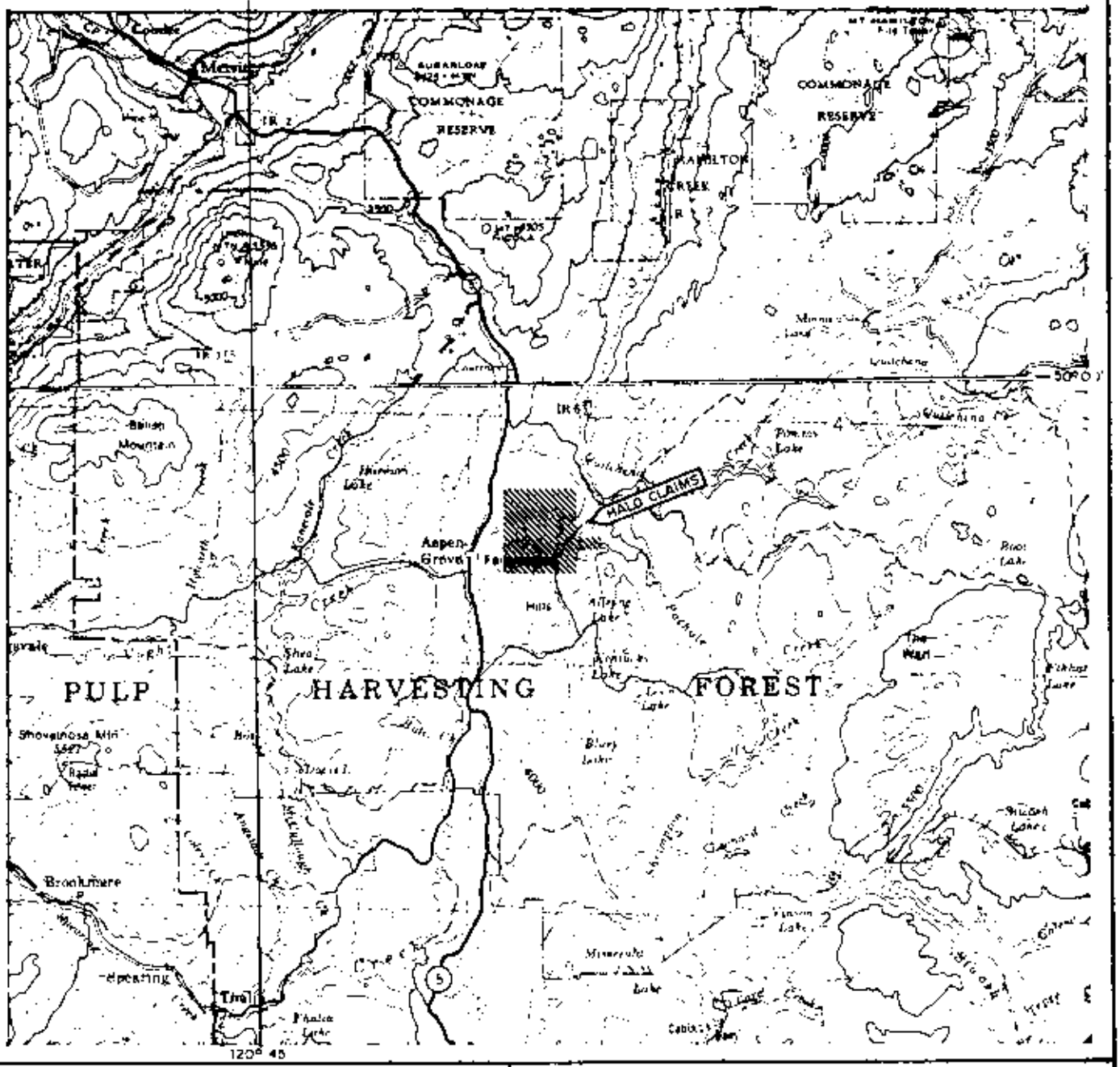
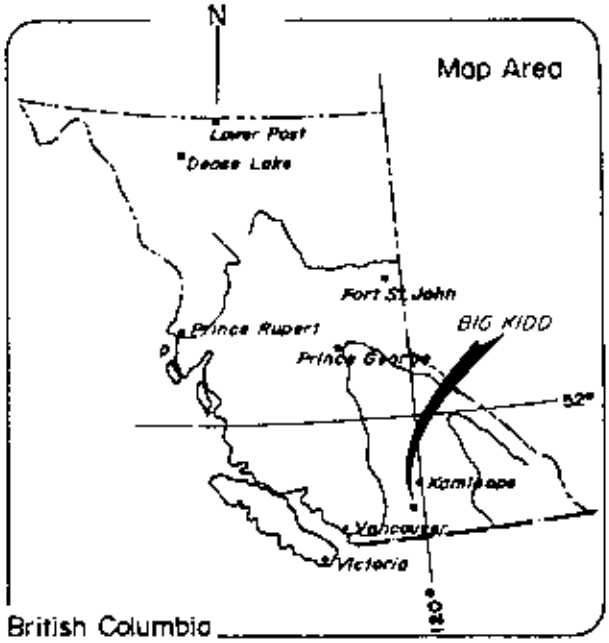
INTRODUCTION

During the third week of November, 1979, and on December 6, 1979, a field crew conducted a reconnaissance type self potential (SP) geophysical survey over portions of the Halo claims, situated near Aspen Grove in South Central British Columbia. The claims cover the Big Kidd Breccia Pipe, a circular intrusive which is mineralized with varying proportions of magnetite, chalcopyrite and pyrite. The purpose of the SP work was to determine if high sulphide portions of the breccia pipe could be outlined with "standard" wide spaced SP work. Resistivity and IP survey had been conducted previously, overburden conditions indicated that SP work may be an expedient technique to outline exploration targets.

This report was prepared for assessment work credits, and assessment work details are appended.





DAVID MINERALS LTD. (N.P.L.)

Big Kidd Property (Halo Claims). 92H/15

Aspen Grove, B.C. Nicola M.D.

Figure 1
Location Map

Scale: 1 to 250000 or 1 inch equals approx. 4 miles

4 0 4 miles

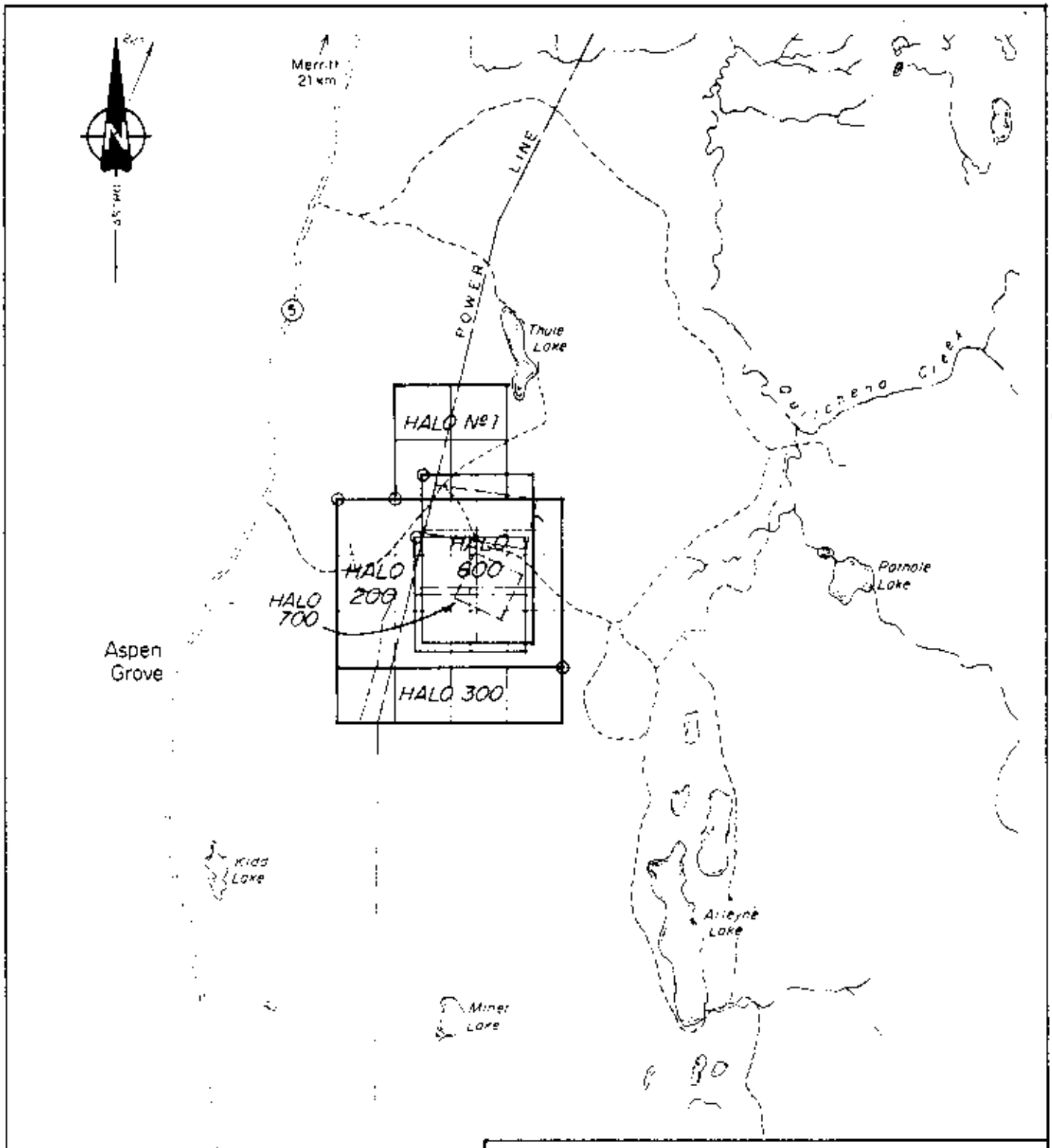
5 0 5 kilometres

B.A.C. Jan '79

Cochrane Consultants Limited

LOCATION AND ACCESS

The Big Kidd property lies immediately east of the Aspen Grove store on highway No. 5 and some 61 kilometres north of the town of Princeton and 29 kilometres south of Merritt in the southern interior of British Columbia. Access by car or truck to the center of the claims area may be made via dirt road which proceeds south-easterly, then east, from the highway at a point 3 kilometres north of the store in Aspen Grove. The National Topographic System code for the area is 92H/15E: the latitude 49°47'N and longitude 120°35'W. (See Figure 1)



DAVID MINERALS LTD. (N.P.L.)

Big Kidd Property (Halo Claims) 92H/15
Aspen Grove, B.C. Nicola M.D.

Figure 2
Claims Map

Scale 1:50,000 - 1.25 = 1 mile approx.

1000 m 0 1 kilometre

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CLAIMS INFORMATION:

The Halo Claims are located on Mineral Titles Reference Map 92H/15E. The Halo No. 1, Halo 200 and Halo 300 are owned by David Minerals Ltd., and the Halo 600 and 700 are owned by D. R. Cochrane and are in the process of being transferred to David Minerals Ltd. The following table summarizes pertinent claims information.

BIG KIDD GROUP

CLAIM NAME	RECORD NO.	UNITS	ANNIVERSARY DATE	EXPIRY BEFORE CREDITS	EXPIRY AFTER CREDITS
Halo No. 1	775	4	December 3	1980	1981
Halo 200	193	12	November 22	1979	1980
Halo 300	194	*4	November 22	1979	1980
Halo 600	206	6	December 30	1979	1980
Halo 700	219	4	March 23	1980	1981

* Claim reduced from 8 units

GENERAL SETTING

The Halo group is situated in the Thompson plateau sub-division of the British Columbian interior plateau physiographic system. This is, in general, a gently rolling upland of low moderate relief. The local Aspen Grove area lies within the Fairweather Hills, with elevations normally between 1,000 and 1,400 metres above sea level. It is rather an impressive area of British Columbia, with a moderately dry climate, open fields, bushy draws and the landscape dotted with lakes.

The general region is underlain predominantly by the Upper Triassic Nicola group of intermediate stocks, plugs and dikes of Jurrasic (?) age. A series of north striking faults trend across the claims area. One of the focal points of economic interest is the Big Kidd Breccia, consisting of altered, brecciated diorite. A number of pits, adits, trenches and drill holes have partially explored the north portion of the breccia and the area around the Breccia Pipe.

FIELD PROCEDURES

From November 16 to November 20, 1979, SP survey work was conducted on seven (7) previously cut crosslines. The instrument used was the SP portion of a Hew 200 IP unit, in a gradient array with a station interval of 50 m. On December 6, 1979, a new tie line (or base line) was run north-south, along 4+00 E, perpendicular to the cross lines, and SP surveying was with use of the standard porous pots, wire, and a MICRONTA LCD digital multimeter. (model 22-198). The field readings were normalized (algebraically added) and the accompanying Self Potential plan shows values in millivolts relative to an arbitary "zero" position located in the extreme north-west corner of the survey area at 2+50E on line 64+50N.

RESULTS OBTAINED/DISCUSSION

Self Potential (SP) results ranged from a low of -106 millivolts to a high of +29 millivolts. The isoself-potential plan is rather complex but shows an overall negative gradient southerly. For interpretive purposes the approximate position of the breccia pipe is outlined on the plan and, in general, there are anomalous low SP responses on the southern flanks of the pipe. The general pattern of isoself-potential response changes rapidly from a NW by W bias on the north end of the survey area, to a northeast directed bias in the southeast portion of the survey area. This pattern appears to reflect the change in lithology and structure.

The -100 millivolt response areas in southeast survey area are worthy of further investigation.

More detailed self potential work, and/or depth probe induced polarization work is recommended

prior to further diamond drilling.

Respectfully submitted

D. R. Cochrane, P. Eng.

Delta, B. C.

APPENDIX I

ASSESSMENT WORK DETAILS

Personnel and Dates Worked

D. R. Cochrane, P. Eng.,	December 6 and 7, 1979
W. F. Chase, instrument operator	November 13, 14, 16 to 22, December 6 and 7, 1979
Field Man,	November 13, 14, 16 to 22, 1979
Field Man,	November 14, 16 to 20, 1979
Field Man,	December 6, 1979
Cochrane Consultants Ltd.,	staff, various dates throughout project including report preparation

COST STATEMENT

D. R. Cochrane, P. Eng. 1 1/2 days at $250/day	$ 375.00
W. F. Chase, 8 3/4 days at $120/day	1,050.00
Field Man, 5 3/4 days at $100/day	575.00
Field Man, 5 days at $100/day	500.00
Field Man, 1 day at $100/day	100.00
Vehicle: one 4x4, 8 days at $25/day	200.00
2584 km at $0.15/km	387.60
Fuel	173.81
Accomodation, motel.....	154.35
Meals	349.82
Field Supplies	56.93
Draftspersons, 40 hrs at $14/hr	560.00
Typing, office work, 8 hrs at $10/hr	80.00
Reproduction	88.45
Total	$ 4,650.96

Cont'd.....

COST DISTRIBUTION

1 year each to Big Kidd Group (30 units)	$ 3,000.00
P.A.C. deposit to David Minerals Ltd.	$ 1,650.96
Total	$ 4,650.96

APPENDIX II

CERTIFICATE

I, Donald Robert Cochrane, of the Municipality of Delta, British Columbia, do hereby certify that:

1. I am a consulting geological engineer with an office at 4882 Delta Street, Delta, B. C.

2. I am a graduate of the University of Toronto (1962) with a degree in Applied Geology (B.A.Sc.) and a graduate of Queen's University (1964) with a degree in Economic Geology (M.Sc., Eng.)

3. I have practiced my profession continuously since graduation while being employed by such companies as Noranda Exploration Co. Ltd., Quebec Cartier Mines, and Meridian Explorations Syndicate. I have been in private independent practice since 1969.

4. I am a member in good standing of the Association of Professional Engineers (A.P.E.) of the Province of British Columbia, and also a member of the A.P.E. in the Province of Ontario, Saskatchewan, Alberta and the Yukon Territories.

D. R. Cochrane, P. Eng.,
December 7, 1979,
Delta, B. C.

THULE LAKE

3700

L.C.P. HALO 200 (4E x 3S UNITS)

L.C.P. HALO N° 1 (2E x 2N UNITS)

L.C.P. HALO ~~500~~ (2E x 3S UNITS)

L.C.P. HALO 700 (2E x 2S UNITS)

L.C.P. HALO 300 (4W x 1S UNITS)

B.C. HYDRO RIGHT OF WAY

64+50N.

60+00N.

55+50N.

51+00N.

46+50N.

42+00N.

37+50N.

100m E.

400m E.

700m E.

1000m E.

1300m E.

Legend:

- Shaft
- Trench, bulldozer, hand
- Diamond Drill Hole
- (2) Area N°
- Claim Line
- Unit Line
- Grid Line
- Legal Corner Post
- $\overline{61}$ Negative Reading
- 25 mv Contour Interval

DAVID MINERALS LTD. (N.P.L.)

Big Kidd Group (Halo Claims) 92H/15E
Aspen Grove, B.C. Nicola Mining Division

0 50 100 200 400 metres
1:4800 1" = 400'
0 100 200 400 800 1600 feet

Base map from Amax Exploration 1972 work traced by E.K.C., Jan 1979 Rev. Dec 1979
To accompany a report by D.R. Cochrane, P. Eng., on the Big Kidd Group, dated Dec. 7, 1979.

SELF POTENTIAL PLAN (millivolts) Figure 3

MINERAL RESOURCES ASSESSMENT REPORT NO. 7716

D.R. COCHRANE PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA

PROJECT N° 2527

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