

ASSESSMENT REPORT

LOG NO: 30-08	RD.
ACTION:	
FILE NO:	

for the

VOLT 1, VOLT 2, VOLT 3, & VOLT 4 CLAIMS

Greenwood Mining Division, B.C.

NTS 82E/7W

Latitude 49° 29' W, Longitude 118° 53' N

Prepared by

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Submitted - August 27, 1990

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

20,216

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## SUMMARY

This report describes the results of a reconnaissance exploration program which was carried out by the author and an assistant on June 10, 1990, on the VOLT 1 - 4 claims, which are located on the west side of the Kettle River 15 km east of Beavercreek. The work was carried out in conjunction with a similar program on the AMP 1 - 4 claims to the SW.

Assessment work for 1990 on the VOLT 1 - 4 claims consisted of prospecting, reconnaissance geological mapping and a 1.7 line km VLF-EM survey. This work covered each of the four claims equally. The claims are contiguous with a group of reverted crown grants which have been actively explored for gold since the turn of the century. The 1990 program was implemented to check the relation of the ground covered by the VOLT claims to this known mineralization.

The prospecting and mapping revealed little in the way of economic mineralization on the claims, but overburden cover prevented a more detailed examination. The VLF-EM survey responded weakly to what appears to be the buried contact between sediments and volcanic on the property but no other anomalies were observed.

A more detailed program of mapping and geochemical sampling is recommended to relate these claims to the known mineralization in the Barnato Camp.

**LOCATION, ACCESS, TITLE**

The VOLT 1 - 4 claims are located in south-central B.C., 40 kms north of Rock Creek in the Greenwood Mining Division and are centred at about 49° 28' 55" N latitude, 118° 53' 10" W longitude on NTS Sheet 82E/7W (Figure 1, 2). The claims lie to the west of the Kettle River on the eastern edge of Lake Ridge, at an elevation of 4500' (1375 m.). They were staked to cover a gap at the edge of a contiguous group of 16 crown grants which straddle Lake Ridge.

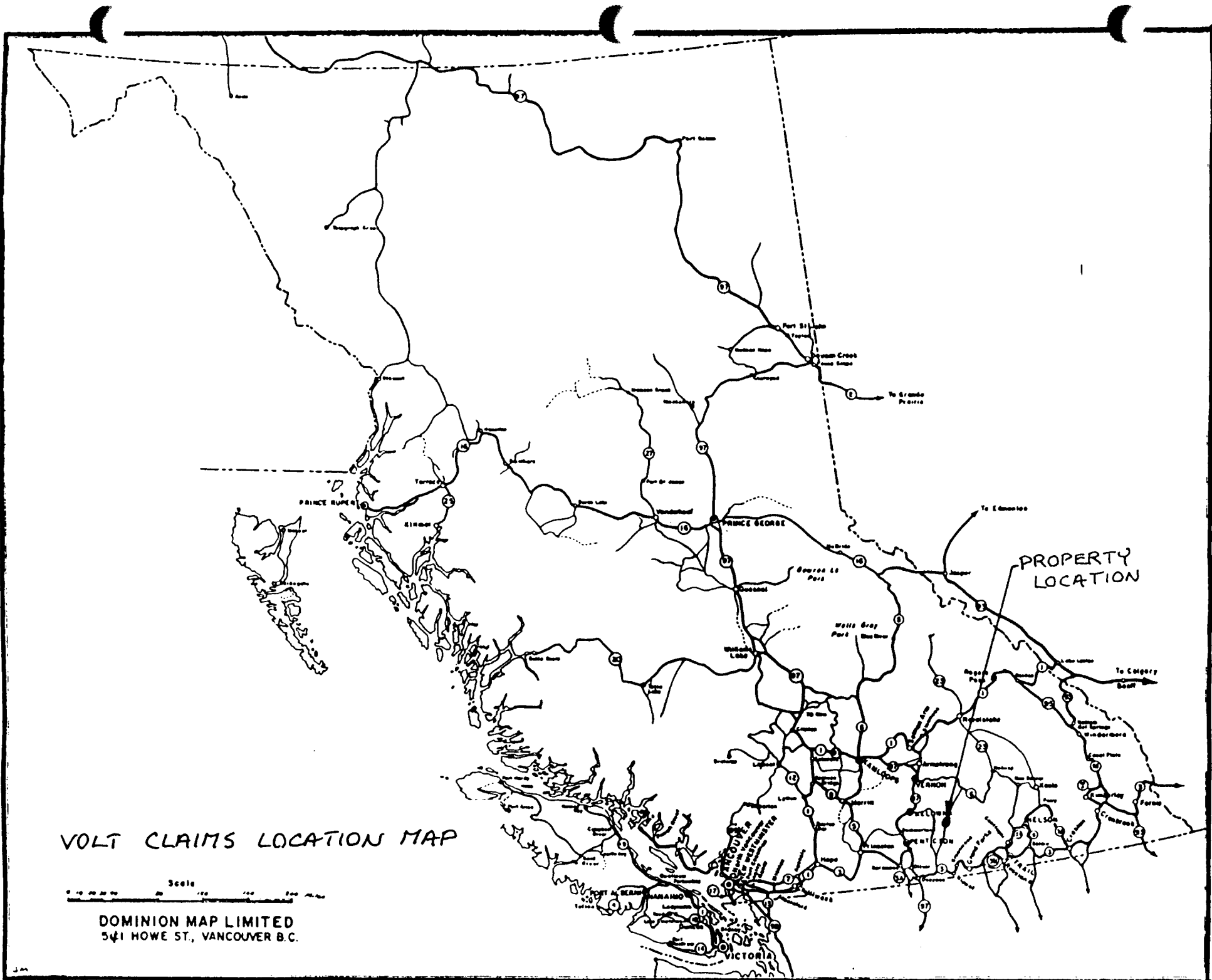
Vegetation on the property consists mainly of immature pine and spruce with more mature growth along creeks. Outcrop, totalling approximately 30%, occurs in creek valleys and on steep slopes at the eastern claim boundary.

Access to the property is made from Highway #3 at Rock Creek 54 km north via Hwy #31 and the Kettle River Forest Service Road to Fourth of July Creek. From here a Forest Service Road climbs 6 km to the summit of Lake Ridge, where an old access road to the Barnato crown grant leaves the road and heads north for 3.2 km. The Volt 1,2 F.P / Volt 3,4 I.P. is located at the end of this road beside a cat trail on a south flowing tributary to Stewartson Creek.

The four claims are contiguous and are summarized below;

<u>Claim Name</u>	<u># of Units</u>	<u>Record Number</u>
VOLT 1	1	5493(6)
VOLT 2	1	5494(6)
VOLT 3	1	5495(6)
VOLT 4	1	5496(6)

The VOLT claims were recorded on June 17, 1989 and are still held by D. Dylan Watt.



VOLT CLAIMS LOCATION MAP

Scale  
 0 20 40 60 80 100 120 140 160 180 200 Miles

DOMINION MAP LIMITED  
 541 HOWE ST., VANCOUVER B.C.

## PREVIOUS WORK

This part of B.C. was one of the first to see serious mineral exploration when prospectors moved into the Kettle River Valley in the 1880's. In 1896, the Barnato claim was staked 1.2 km SW of the VOLT claims to cover a quartz/pyrite vein that carried values up to 0.3 opt Au. Interest in the area waned until 1928 when the Mogul vein was discovered .8 km north of the Barnato, and minor production ensued. Work continued until 1939 with Consolidated Mining and Smelting completing drilling and trenching on many claims in the area. No further work was recorded in this area except minor sampling in 1965 until the crown grants were acquired by Carmac Resources in 1979. Since that time the claims have been explored under option to various junior exploration firms - completing geochemical sampling, trenching and some drilling.

## REGIONAL GEOLOGY

The VOLT claims lie at the southern end of the Intermontane Belt, where the geology is dominated by the volcanic and volcanically derived sediments of the Late Palaeozoic Wallace Formation of the Anarchist Group. West of the Kettle River Graben, this package has been extensively intruded by Jurassic plutonic activity and subsequently covered by Tertiary intermediate flows of the Eocene Marron Formation. Late Tertiary extension dropped the Kettle River Valley to its present level.

Mineralization discovered to the west of the claims on the Barnato, Mogul and other claims consists mainly of mineralized shears and quartz veins which transect the contact between the volcano-sedimentary package and the granodiorites. The veins trend variably north-east to east and seem to occur as "stockworks" rather than concentrated in any particular orientation. Most of the veins exposed to date are less than 1.0 m. in width and carry up to 1.68 opt gold with minor silver values. The best mineralization appears to be associated with arsenopyrite and/or pyrrhotite.

## PROPERTY GEOLOGY

Past work in this area had indicated that the northern end of Lake Ridge covered a complex mixture of Anarchist Group lithologies intruded by Jurassic granodiorites and later dykes. The 1990 work on the VOLT claims confirmed this observation as it was found that the claims cover four lithologies; mafic to intermediate volcanic and volcanoclastic rocks, calcareous sediments, (both part of the Wallace Formation), Jurassic(?) granodiorites and lesser quartz diorites, and younger (Tertiary??) feldspar porphyry bodies. The

volcanic/sedimentary rocks cover most of the property and appear to lie in a N-S trending band. The quartz diorites and granodiorites are in contact with the volcanic along the NW edge of the VOLT 4 claim. A small feldspar porphyry dyke is exposed in the road cut on the VOLT 3, 4 claims.

No economic mineralization was discovered on the claims during this program. Some pits and small trenches were noted along the western claim boundary which are probably related to work on the Gold Dollar Fraction and Yorkshire Lass crown grants.





**CURRENT PROGRAM**

The 1990 reconnaissance program on the VOLT claims was designed to gather information to be used in implementing a Phase 1 program. 1.7 line kilometres of VLF-EM using 25 m. stations on three NE-SW lines approximately 200 m. apart were completed while the property was mapped at a 1:10,000 scale and prospected. A Phoenix Model VLF-2 Receiver tuned to the Cutler Me. (24.0 kHz) and Annapolis Md. (21.4 kHz) transmitters was used to collect VLF-EM readings.

## RESULTS

The results of the VLF-EM survey were mixed. No significant anomalies were detected, however the readings did locate a response on Line 0, probably related to the contact between the sedimentary and volcanic rocks on the VOLT 4 claim. The results of the prospecting and mapping were also generally poor and have already been dealt with under property geology.

## CONCLUSIONS AND RECOMMENDATIONS

The 1990 exploration program on the VOLT claims failed to locate any new zones of mineralization. The mapping and prospecting did indicate similar geology to the Barnato and Mogul claims to the west, however no new mineralization was discovered in bedrock exposures.

It is recommended that a program of soil and/or bio-geochemistry be conducted over the claims to check for any anomalies which might indicate gold mineralization. Particular attention to Au and As results is warranted. Further work with a magnetometer is also recommended to outline any possible pyrrhotite concentrations in bedrock. The claim posts should be tied into the corners of the adjacent crown grants to give a more accurate idea of the property boundaries.

**REFERENCES:**

Hewett, F.G; "Geochemical Report on Barnato One Group; Private Report to Carmac Resources"; M.E.M.P.R. Assessment Report #10,456; 1982.

Little, H.W.; "Kettle River (West Half), B.C.; Geological Survey of Canada, Map 15-1961; 1961.

Ministry of Energy Mines and Petroleum Resources; various Annual Reports 1896 - 1934

CERTIFICATE OF QUALIFICATIONS:

I, D. Dylan Watt, hereby certify that:

1. I am a Geologist resident at #309-1996 Trutch Street, Vancouver
2. I am a graduate of the University of British Columbia of Vancouver, B.C. having received a Bachelor of Science degree in Geological Sciences in 1984.
3. I have practised my profession continuously since 1984.
4. This report is based on data collected during my visit to the property in June of this year and a review of various government and private publications.

Dated at Vancouver, this 27th day of August, 1990.

A handwritten signature in black ink, appearing to read 'D. Watt', written in a cursive style.

D. Dylan Watt, B.Sc.

APPENDIX I:**LIST OF PERSONNEL AND STATEMENT OF EXPENDITURES**

The following expenses were incurred on the VOLT 1 - 4 Claims as defined in this report for the purposes of mineral exploration between the dates of June 9, 1990 and June 14, 1990.

**Personnel:**

Geologist - D. Dylan Watt, B.Sc.	
2 days @ \$200.00/day	\$400.00
Assistant - M. Poliquin	
1.5 days @ \$90.00/day	<u>\$135.00</u>
	\$535.00

**Disbursements:**

Food and Accommodation	
3 man days @ \$37/day	\$ 111.00
VLF_EM	
1.5 days @ \$15/day	22.50
Vehicle Rental	
2 days @ \$40/day	80.00
557 kms @ \$.15/km	83.55
Fuel & Oil	47.00
Report Materials	
copies, materials, etc.	<u>11.95</u>
	\$356.00

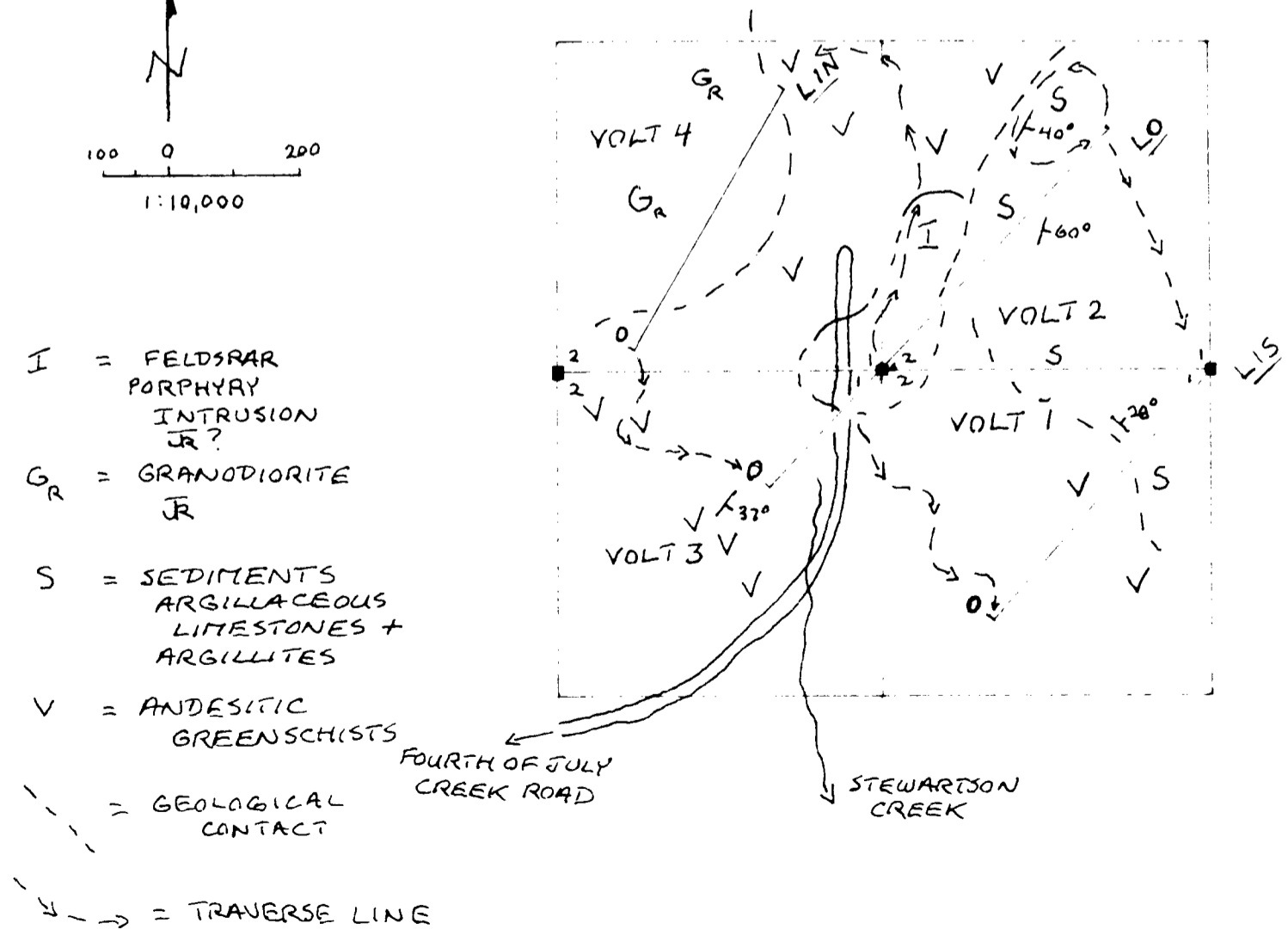
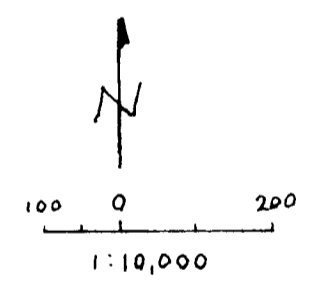
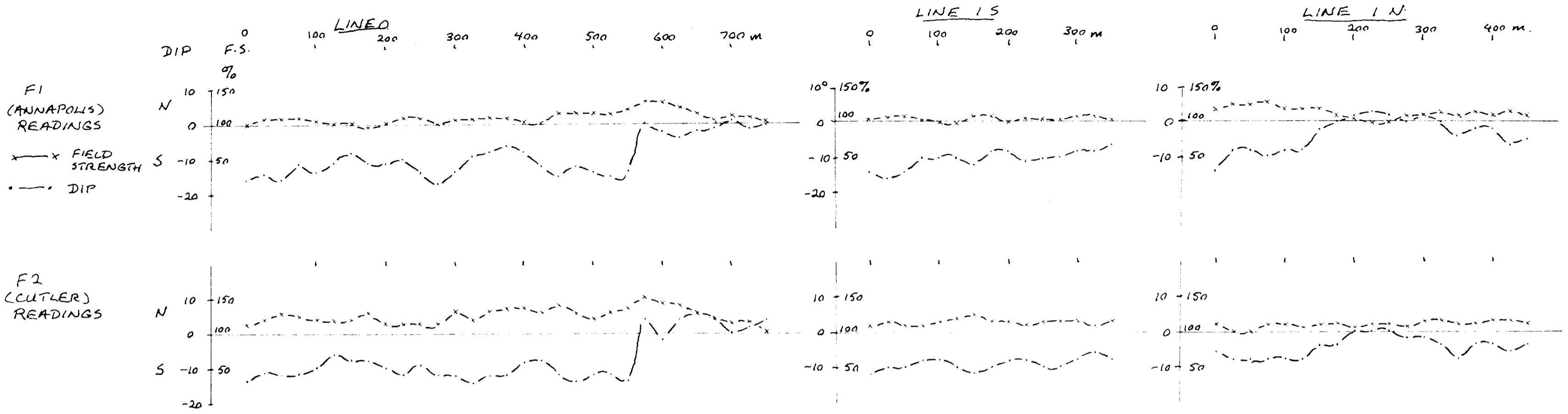
**TOTAL EXPENSES**


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**\$891.00**



CUTLER (F2)  
ANNAPOLIS (F1)

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**20,216**

VOLT 1-4 CLAIMS  
1990 COMPILATION  
GEOLOGY, VLF-EM  
+ PROSPECTING

NTS 82E/7W GREENWOOD M.D.  
DWG BY: DDW JUNE, 1990