

86-951-15478

DRILLING REPORT

ON THE

DAG GROUP

N.T.S. 93 N/12W

OMINECA MINING DIVISION

Situated at Coordinates:  $55^{\circ} 40.9' N$   
 $125^{\circ} 53.7' W$

Owner(s): NORANDA EXPLORATION COMPANY, LIMITED  
(NO PERSONAL LIABILITY)

A. Halleran

Operator: Noranda Exploration Co. Ltd.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

15,478

FILMED

By: Gordon Maxwell

February, 1987



TYPE OF REPORT/SURVEY(S)	TOTAL COST
DRILLING	\$6,645.50

AUTHOR(S) .... Gordon Maxwell ..... SIGNATURE(S) *Gordon Maxwell* .....

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED ... Nov. 3/86 ..... YEAR OF WORK ~~1986~~ .....

PROPERTY NAME(S) .....  
DAG .....

COMMODITIES PRESENT ~~.....~~ .....

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN ~~.....~~ .....

MINING DIVISION .. OMINECA ..... NTS .. 9.3N/12.W. ....

LATITUDE ..... 55° 40.9' ..... LONGITUDE ..... 125° 53.7' .....

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:  
DAG 1 (16 units), DL 1 (20 units), PEN (9 units), PAD (20 units),  
STEVE (9 units), BEV 10 (15 units)

OWNER(S)  
(1) .. Noranda Exploration Company Limited (2) ..... Art Halleran .....  
(No Personal Liability) .....

MAILING ADDRESS  
P.O. Box 2380 .....  
Vancouver, B.C. V6B 3T5 .....  
Apt. 207 - 604 1st Ave. N.W. ....  
Calgary, Alberta T2N 0A3 .....

OPERATOR(S) (that is, Company paying for the work)  
(1) .. Noranda Exploration Company Limited (2) .....  
(No Personal Liability) ..... FEB 6 1987 .....

MAILING ADDRESS  
P.O. Box 2380 .....  
Vancouver, B.C. V6B 3T5 .....

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):  
The <sup>claim</sup> area is underlain by a north trending sequence of intermediate to felsic volcanics and sediments of Upper Triassic to Lower Jurassic age, which belong to the Sitlika Group.

REFERENCES TO PREVIOUS WORK .....

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	COST APPORTIONED
<b>GEOLOGICAL (scale, area)</b>			
Ground	.....	.....	.....
Photo	.....	.....	.....
<b>GEOPHYSICAL (line-kilometres)</b>			
<b>Ground</b>			
Magnetic	.....	.....	.....
Electromagnetic	.....	.....	.....
Induced Polarization	.....	.....	.....
Radiometric	.....	.....	.....
Seismic	.....	.....	.....
Other	.....	.....	.....
<b>Airborne</b>			
<b>GEOCHEMICAL (number of samples analysed for ....)</b>			
Soil	.....	.....	.....
Silt	.....	.....	.....
Rock	.....	.....	.....
Other	.....	.....	.....
<b>DRILLING (total metres; number of holes, size)</b>			
Core	<u>DIAD</u> . 46.9 m; 1 hole; BQ	DAG 1	\$6,645.50
Non-core	.....	.....	.....
<b>RELATED TECHNICAL</b>			
Sampling/assaying	.....	.....	.....
Petrographic	.....	.....	.....
Mineralogic	.....	.....	.....
Metallurgic	.....	.....	.....
<b>PROSPECTING (scale, area)</b>			
<b>PREPARATORY/PHYSICAL</b>			
Legal surveys (scale, area)	.....	.....	.....
Topographic (scale, area)	.....	.....	.....
Photogrammetric (scale, area)	.....	.....	.....
Line/grid (kilometres)	.....	.....	.....
Road, local access (kilometres)	.....	.....	.....
Trench (metres)	.....	.....	.....
Underground (metres)	.....	.....	.....
<i>Balance - nil</i>			<b>TOTAL COST</b> \$6,645.50

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report) . 6645.50	<i>Noranda Exploration Company, Limited</i>	.....	.....	
Value of work approved . 6645.50		.....	.....	
Value claimed (from statement) . 5600.00		.....	.....	
Value credited to PAC account . 1045.50		.....	1045.50	
Value debited to PAC account .		.....	.....	
Accepted . 50 . . . . . Date <u>March 11/87</u>	Rept. No. <u>86-951-15478</u>	.....	.....	Information Class <u>(4)</u>

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SUMMARY:

The DAG group of claims were staked to cover airborne EM anomalies in favourable volcanic stratigraphy of the Sitlika Assemblage in the Diver Lake area. Following ground geophysical, geological and geochemical surveys, a decision was made to drill test a geophysical target on the Dave grid.

The conductive horizon was found to be associated with a series of weakly graphitic, dark grey to black shales.

## INTRODUCTION:

The DAG Group consists of six contiguous claims, totalling 89 units, grouped together for the purpose of assessment. All claims, with the exception of DAG 1, which was optioned from Art Halleran in March of 1985, were staked by Noranda Exploration personnel. The ground was acquired to cover airborne EM anomalies detected in an Aerodat survey contracted by Noranda Exploration in June of 1985.

Ground follow-up, including linecutting, detail HLEM and Mag Surveys, soil sampling and geologic mapping was conducted during the 1985 and 1986 field seasons. Three grids were established on the DAG Claim; the Dave, the Dag and the Gil grids. Drill hole #268-86-5 tested an HLEM anomaly on the Dave grid.

## LOCATION AND ACCESS:

The group covers an area which stretches from Diver Lake northwest to Beaverpond Lake. Diver Lake is located approximately 25 kilometers north of the village of Takla Landing in central B.C. (Figure 1). Access to the area is via a series of logging roads of the Takla Landing access road or by helicopter to more remote areas. The Beaverpond Lake area is also accessible by float plane from Fort. St. James.

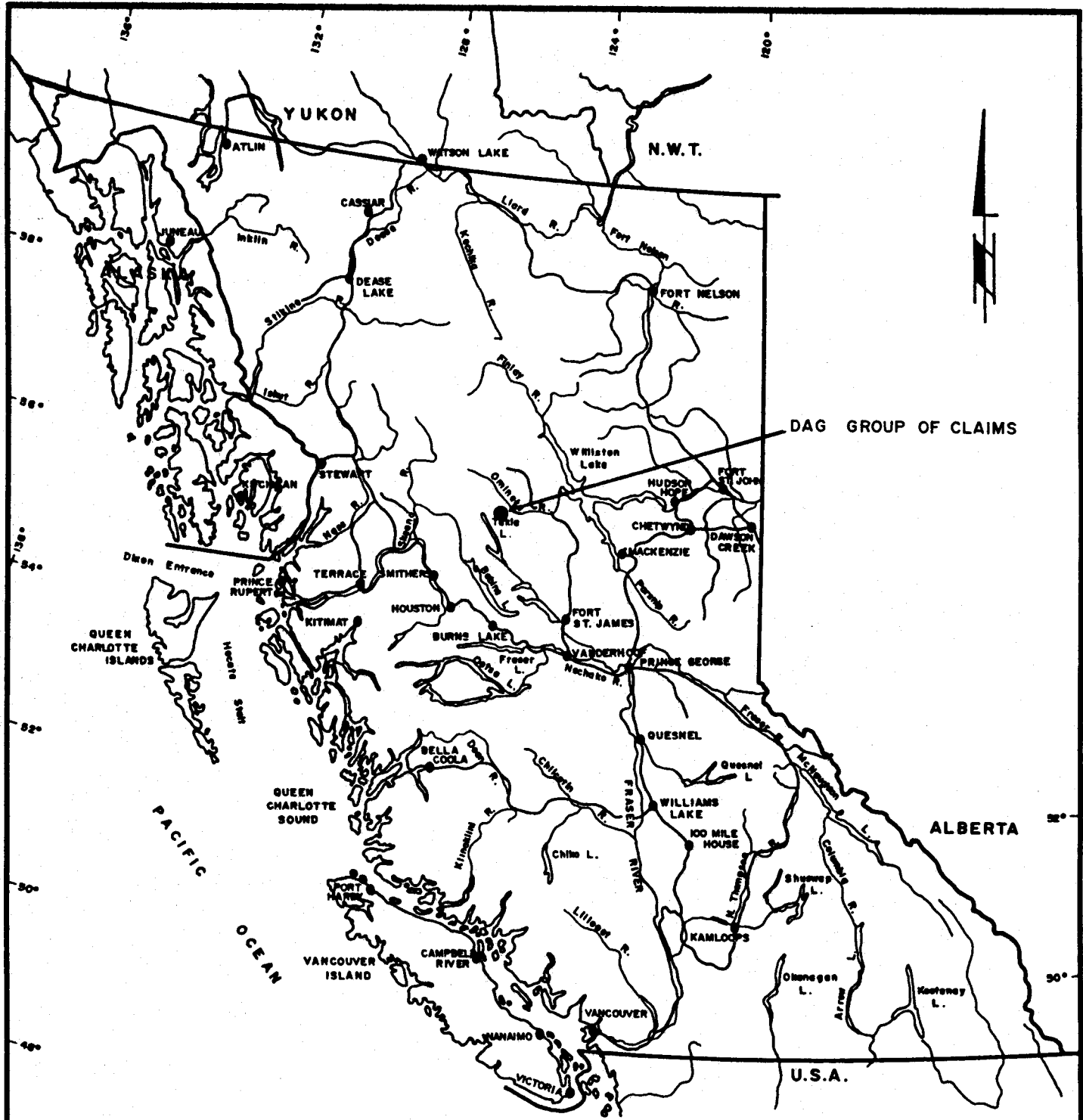
## CLAIM STATISTICS:

All claims were staked using the modified grid system and are found on claim map 93N/12W of the Omineca Mining Division. All claims have been grouped for the purpose of assessment.

<u>Claim Name</u>	<u># Units</u>	<u>Record #</u>	<u>Record Date</u>
Dag 1	16	6253	May 31/84
DL 1	20	6813	Nov. 14/84
Pen	9	7287	Oct. 24/85
Pad	20	7368	Oct. 24/85
Steve	9	7358	Oct. 9/85
Bev 10	15	7310	Sept. 23/85

## REGIONAL GEOLOGY:

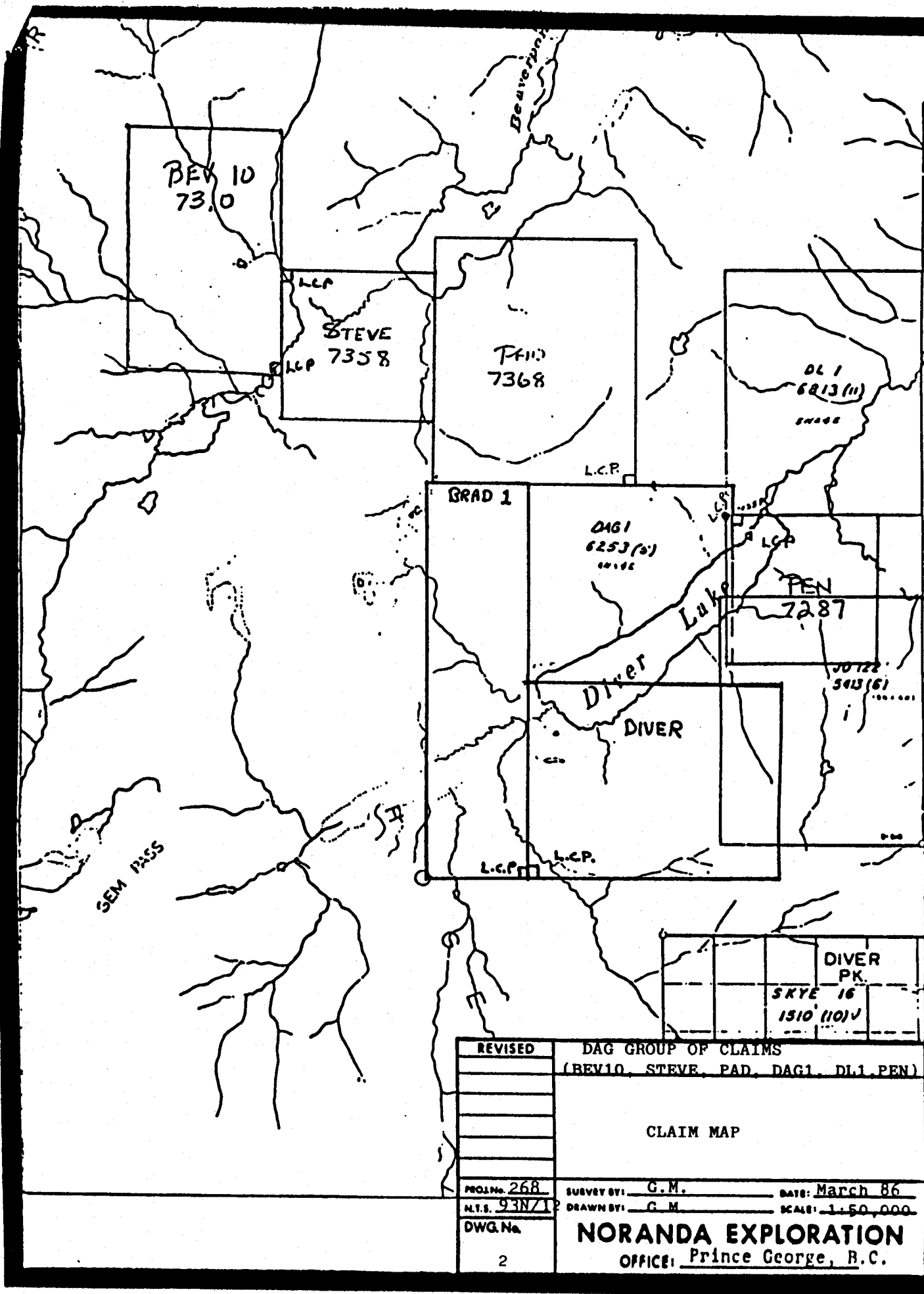
The area is underlain by Upper Triassic to Lower Jurassic volcanic and sedimentary rocks of the Sitlika Assemblage which have been regionally metamorphosed to greenschist facies (Paterson, 1974). This assemblage is comp sed mainly of well foliated andesitic to rhyolitic pyroclastics and flows with lesser amounts of greywacke, siltstone and phyllite. The Sitlika volcanics are characterized by local development of sericite,



0 100 200 KILOMETRES  
SCALE: 1:8,000,000

REVISED	DAG GROUP	
	LOCATION MAP	
PROJ. No. <u>268</u>	SURVEY BY: <u>G. Maxwell</u>	DATE: <u>Apr/86</u>
N.T.S. <u>93N/12</u>	DRAWN BY: <u>S.K.B.</u>	SCALE: <u>1:8,000,000</u>
DWG. No.	<b>NORANDA EXPLORATION</b>	
1	OFFICE: <u>PRINCE GEORGE, B.C.</u>	

VANCAL 11827



REVISED	DAG GROUP OF CLAIMS	
	(BEV10, STEVE, PAD, DAG1, DL1, PEN)	
	CLAIM MAP	
PROJ. No. 268	SURVEY BY: G.M.	DATE: March 86
N.T.S. 93N/1	DRAWN BY: G.M.	SCALE: 1:50,000
DWG. No.	NORANDA EXPLORATION	
2	OFFICE: Prince George, B.C.	



quartz-sericite and chlorite schists. The Takla Fault separates the Sitlika rocks from the Tertiary Sustat Group to the west. The Permian Cache Creek rocks to the east are separated from the Sitlika by the Vital Fault and a serpentinite melange. The Cache Creek Group is bounded to the east by the Pinchi Fault and the Jurassic Hogem Batholith (Figure 3).

#### DIAMOND DRILLING:

One BQ size diamond drill hole totalling 46.9 metres was completed on the Dave grid to test a HLEM conductor believed to be hosted in favourable volcanic stratigraphy. The drill hole was completed between May 31, 1986 and June 1, 1986, by Core Enterprise Ltd. of Clinton, B. C., using a helicopter supported BBS1 drill. The core is stored at the camp site situated on the Diver Lake Logging road approximately 2 kilometres from the drill site.

#### DRILL HOLE SUMMARY:

Hole #268-86-5      Dave Grid

Dip                    -45 degrees  
Azimuth                260 degrees  
Location               2010N - 1865E  
Depth                  154 feet

Summary Log	(feet)
0 - 16	casing
16 - 154	gray shale
	included 110-140 weakly graphitic
154	End of Hole

#### CONCLUSIONS AND RECOMMENDATIONS:

The conductive horizon appears to be associated with a series of weakly graphitic zones within a dark grey to black shale unit. There is no further work proposed for this grid at the present time.

REFERENCES:

- BAERG, R.J. Geochemical Report on the Diver Lake Option (Dag Claim). Assessment Report for Noranda Exploration Company, Limited, 1985.
- BRADISH, L. & MAXWELL, G. Geophysical Report on the Dag Group Claims. Assessment Report for Noranda Exploration Company, Limited, 1985.
- FRANCOER, D. Geological, Geophysical and Geochemical Report on TAKLA Project for McIntyre Mines Limited, 1977.
- MAXWELL, G. & BRADISH, L. Geological, Geophysical & Geochemical Report on the Dag Group of Claims. Assessment Report for Noranda Exploration Company, Limited (No Personal Liability), 1986.
- MONGER, J.W.H. Lower Mesozoic Rocks in McConnell Creek Map Area, (94E), British Columbia. Geological Survey of Canada, Paper 76-1A.
- PATERSON, I.A. Geology of Cache Creek Group and Mesozoic Rocks at the Northern end of the Stuart Lake Belt, Central B.C., Geol. Survey of Canada, Paper 74-1, Part B, 1974.

APPENDIX I

STATEMENT OF COSTS  
DIAMOND DRILLING REPORT

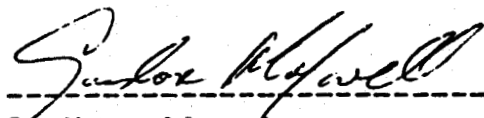
1)	Drilling Costs:	
	154 feet (46.9 m) @ \$20.75/foot (includes mob-demob, man hours moving, casing and mud)	\$ 3,195.50
2)	Transportation:	
	Bell 206 helicopter 3.2 hrs @ \$500/hr	\$ 1,600.00
3)	Wages:	
	Site preparation - faller (A. Raven) 2 days @ \$150/day	\$ 300.00
	Engineering - geologist (G. Maxwell) 4 days @ \$150/day	\$ 600.00
4)	Food & Accommodation:	
	14 mandays @ \$50/day (including drillers)	\$ 700.00
5)	Cost of Report Preparation:	
	Author	\$ 150.00
	Drafting & Typing	\$ 100.00
		-----
	TOTAL	\$ 6,645.50

APPENDIX II

STATEMENT OF QUALIFICATIONS

I, Gordon Maxwell of Prince George, Province of British Columbia, do hereby certify that:

1. I am a Geologist residing at 6162 Caledonia Crescent, Prince George, British Columbia.
2. I am a graduate of the University of Manitoba with an Hons. B. Sc. (geology).
3. I am a member in good standing of the Canadian Institute of Mining and the Prospector's and Developer's Association.
4. I presently hold the position of Project Geologist with Noranda Exploration Company, Limited and have been in their employ since 1980.

  
-----  
G. Maxwell

APPENDIX III

DRILL LOGS AND SECTIONS

NORANDA EXPLORATION COMPANY LIMITED  
(NO PERSONAL LIABILITY)

D.D.H. #

DATE COLLARED:  
May 31, 1986

DATE COMPLETED:  
June 1, 1986

CORE SIZE: BQ

PROPERTY: Dave Grid

N.T.S. NO: 93 N/12

PROJECT: 268

FIELD CO-ORDINATES

LINE: L2010N DIP: -45 Degrees

PAGE 1 OF 1

LINE: L186SE BEARING: 235 Degrees

HOLE NO: 268-86-5

LENGTH: 46.9 metres

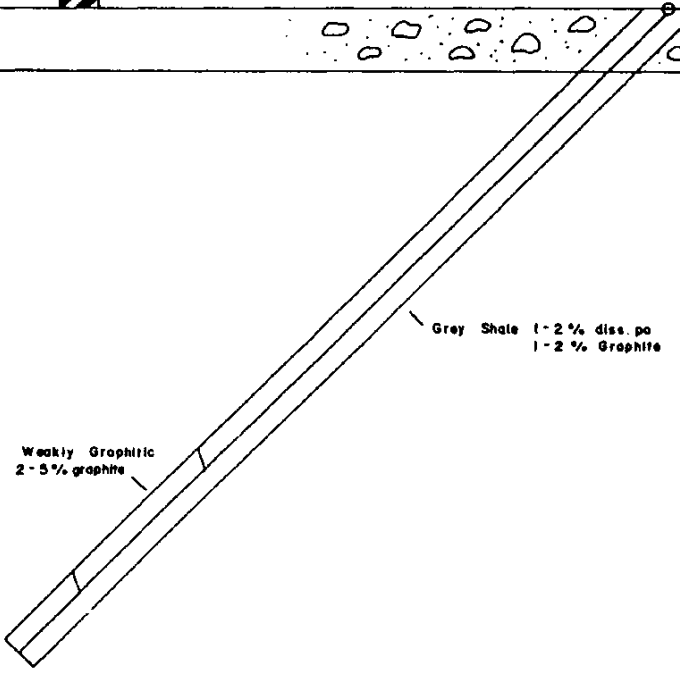
ELEV: 1085 metres

FROM (m)	TO (m)	REC (%)	DESCRIPTION	STRUCTURE m/deg. WCA	% SULPH.	SAMPLE NO.	INTERVAL	WIDTH (m)	AU (ppb)	AS AG (ppm)	SS CU (ppm)	AYS ZN (ppm)	PS PB (ppm)
0	4.6	0	Casing										
4.6	46.9		Grey to black shale massive to weakly schistose, grey to black shale, some sections tuffaceous in nature with 3-5mm white clasts and 1-2% diss. po, py. 1-2mm thin veins of calcite, 1-2% graphite. 33.5m-42.7m locally cleave planes contain considerable graphite and 3-5% diss. pyrite, 5-10% graphite.		1-2% 3-5%								
46.9			END OF HOLE										
			LOGGED BY: GORDON MAXWELL										
			DATE: JUNE 3, 1986										

*Gordon Maxwell*

D.D.H. - 268-86-5  
DAVE GRID  
L. 2010 N. / 1865 E.  
Az. 260°  
ANGLE - 45°

H.L.E.M.



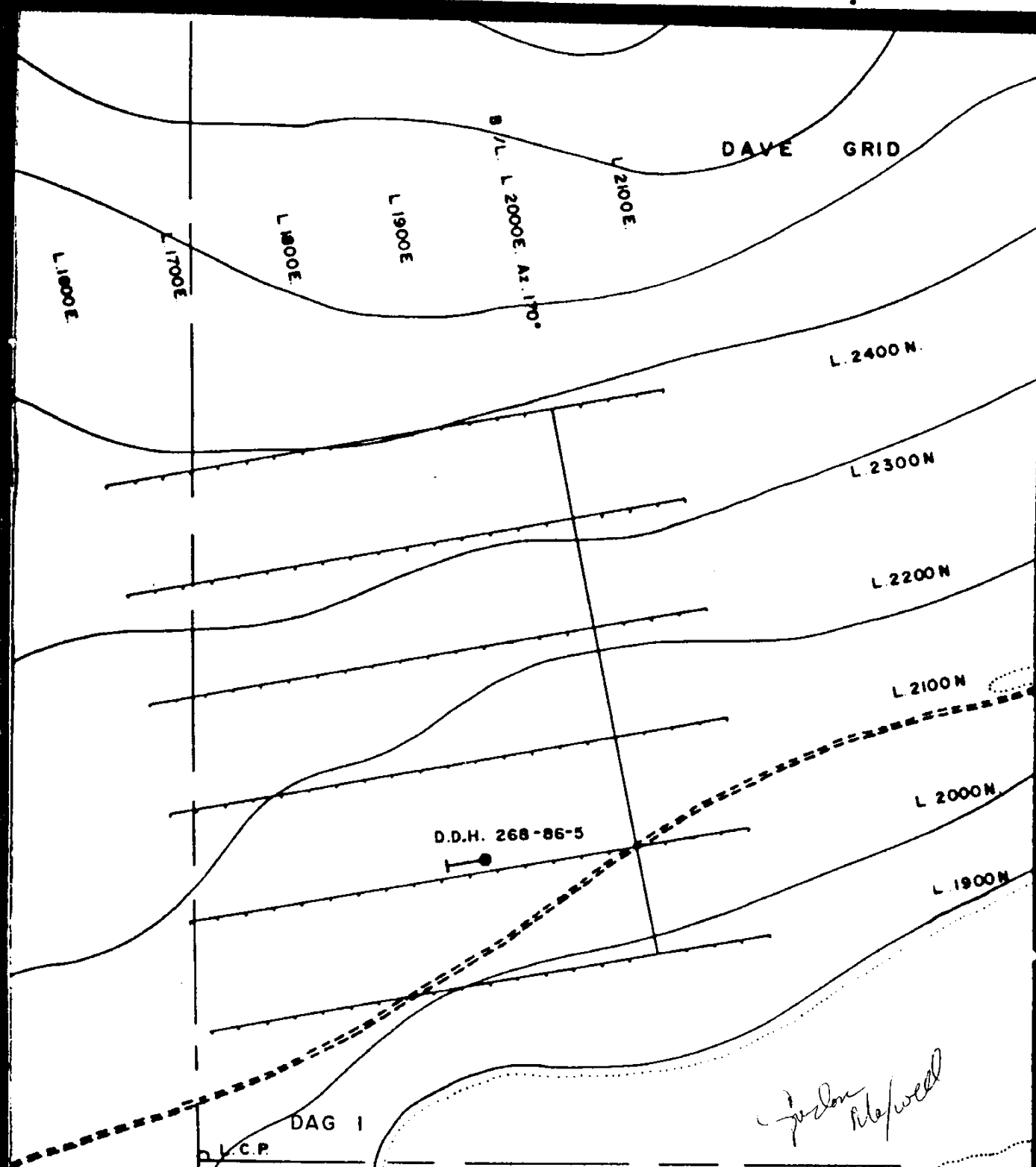
46.9 m.

*Justin Maxwell*



SCALE 1 : 250

REVISED	DIVER LAKE OPTION	
	DAVE GRID	
	D.D.H. 268-86-5	
	L. 2010 N. / 1865 E.	
PROJ. No. 888	SURVEY BY: S.M.	DATE: JUNE, 1988
N.T.S. 888/18	DRAWN BY: S.M.	SCALE: 1:250
DWG. No.	<b>NORANDA EXPLORATION</b>	
	OFFICE: PRINCE GEORGE, B.C.	



BRAD I

DIVER

DAG I

L.C.P.

D.D.H. 268-86-5

REVISED	DIVER LAKE OPTION	
	DRILL HOLE LOCATION	
	268-86-5	
PROJ. No. 268	SURVEY BY: CM	DATE: 1:5000
N.T.S. 93N/12	DRAWN BY: CM	SCALE: Jan/86
DWG. No. 3	<b>NORANDA EXPLORATION</b>	
	OFFICE: _____	