

6096

DU PONT OF CANADA EXPLORATION LIMITED

ASSESSMENT REPORT

ON

CHAPPELLE

THE CHAPPELLE PROPERTY

OMINECA MINING DIVISION

NTS: 94-E-6

1976

PREPARED BY

K.A. MACLEAN, P.ENG.

94E/6E

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6096

4N076

K.A. Maclean

TABLE OF CONTENTS

SUMMARY OF COSTS - Northward Mining Invoices	1
SUMMARY OF WORK APPLIED TO GROUPS 15-16	1
SUMMARY OF MINING ADVANCE (metric)	2
COST ALLOCATIONS	
Chappelle Group 15	3
16	4
STATEMENT OF QUALIFICATIONS (K. A. MacLean)	5

LIST OF DRAWINGS (In pocket)

- MAP*
- #1 Location map of Chappelle mineral claims (Scale 1:250,000)
  - #2 Chappelle Mineral Claims (Scale 1:31,680)
  - #3 Chappelle Surface Plan, Drill Hole Locations (Scale 1:240)
  - #4 Chappelle 5420 Level Plan "Survey" (Scale 1:240)
  - #5 Chappelle 54.50 Raise (Scale 1:240)
  - #6 Chappelle 54.54 Raise (Scale 1:240)

LIST OF APPENDICES

Agreement between Northward Mining and Du Pont of Canada  
Exploration Limited

Northward Mining Invoices

Diamond Drill Logs 1976 Drilling

*K. A. MacLean*

SUMMARY OF COSTSInvoices from Northward Mining

Diamond Drilling on Chappelle Claim 3	June 1-15/76	No.101	\$ 8,585.46
	July 1-15/76	No.104	\$17,668.63
	July 16-31/76	No.106	\$21,626.08
			<u>\$47,880.17</u>

Total Footage = 2496'

DDH 76-4	107'
DDH 76-5	253'
	<u>360'</u>

$$\frac{360'}{2496'} \times \$47,880.17 = \$6,905$$

Mining of Chappelle Claim 4	June 16-30/76	No.102	\$28,375.32
	July 1-15/76	No.103	\$42,278.10
	July 16-31/76	No.105	\$57,732.59
	Aug. 1-18/76	No.107	\$12,928.44
			<u>141,314.45</u>

Of this amount, \$14,000 will be applied for assessment purposes. This is the maximum amount possible in view of the expiry date of the claims.

SUMMARY OF WORK APPLIED

To Chappelle Group 15 (Drilling)	\$ 6,800
Group 16 (Mining)	\$14,000
	<u>\$20,800</u>

*K. M. Alchorn*

SUMMARY OF MINING ADVANCE, 1976

DRIFTING:- 5400' LEVEL 54.50 DRIFT SOUTH 7.9 m x 2.4 m x 2.4 m  
 54.50 DRIFT NORTH 38.1 m x 2.4 m x 2.4 m

RAISING:- 54.50 RAISE  
 TIMBERED 32.6 m x 1.8 m x 1.8 m  
 OPEN 21.9 m x 1.5 m x 1.8 m

54.54 RAISE (OPEN)  
 MAIN RAISE A 61 m x 1.5 m x 1.8 m  
 B 9.1 m x 1.5 m x 1.5 m  
 C 12.1 m x 1.5 m x 1.5 m

*Kinnear*

APPLICATION OF 1976 DRILLING COSTS TO CHAPPELLE GROUP NO. 15

<u>Claim No.</u>	<u>Record No.</u>	<u>Assessment Due Date</u>	<u>No. of Claims</u>	<u>No. of Years Work</u>	<u>Claim Years</u>
* 3	60863	16 July '85	1	-	-
5	60865	16 July '85	1	-	-
47-48	89817-8	31 July '85	2	-	-
84-86	95507-7	10 Nov. '85	3	-	-
96-7	95963-4	10 Nov. '85	2	-	-
112-4	95971-3	10 Nov. '85	3	-	-
115	95974	10 Nov. '86	1	-	-
120-1	95635-6	9 Nov. '85	2	-	-
171	95686	9 Nov. '84	1	-	-
172	95687	9 Nov. '83	1	-	-
184	95699	9 Nov. '82	1	-	-
186	95701	9 Nov. '82	1	-	-
188	95703	9 Nov. '82	1	-	-
190	95705	9 Nov. '82	1	-	-
192	95707	9 Nov. '82	1	-	-
194	95709	9 Nov. '81	1	1	1
195-7	95710	9 Nov. '80	3	2	6
201	96069	12 Nov. '81	1	1	1
203-5	96071-3	12 Nov. '81	3	1	3
206-9	96074-7	12 Nov. '80	4	2	8
217-21	96085-9	12 Nov. '80	5	3	15
247	95530	10 Nov. '85	1	-	-
			<u>40</u>		<u>34</u>

Amount to be applied, holes 76-4 (107'), 76-5 (253') = 360'

÷ 2496' = 14.42% of \$47,880.17 = \$6,905

Calculation: 34 claim yrs x \$200/clm/yr = \$6,800

Rental: 34 x \$10/claim/year \$ 340

\*Claim on which work was done

*Kenneth Leon*

APPLICATION OF 1976 PHYSICAL WORK TO CHAPPELLE GROUP 16

<u>Claim No.</u>	<u>Record No.</u>	<u>Assessment Due Date</u>	<u>No. of Claims</u>	<u>No. of Years Work</u>	<u>Claim Years</u>
1-2	60861-2	16 July '85	2	3	6
*4	60864	16 July '85	1	3	3
25-30	84385-90	11 Feb. '86	6	2	12
44	89814	31 July '85	1	3	3
49-54	93313-18	8 Sept '84	6	0	0
57	95478	12 Nov. '85	1	2	2
59-70	95480-91	10 Nov. '85	12	2	24
79-83	95500-04	12 Nov. '85	5	2	10
94-5	95961-2	10 Nov. '85	2	2	4
248-50	95531-3	10 Nov. '85	3	2	6
			<u>39</u>		<u>70</u>

Calculations

Total work required: 70 claim years x \$200 = \$14,000

Rentals: 70 claim years x \$10/clm/yr = \$ 700

\*Claim on which work was done.

*K. M. Maclean*


STATEMENT OF QUALIFICATIONSKEITH A. MACLEAN

1. I was graduated from Carleton University, Ottawa, Ontario, Canada, as a Bachelor of Science in Geology on May 29, 1963, and from McGill University, Montreal, Quebec as a Master of Science (Applied) in Mineral Exploration on June 2, 1971.
2. I have been practising my profession of mining and exploration geologist for thirteen years, with Inco Ltd. at Thompson, Manitoba and Copper Cliff, Ontario and with John S. Vincent Limited, Brascan Resources Limited and Du Pont of Canada Exploration Limited in Vancouver, B.C.
3. I am a registered Professional Engineer in Ontario (April 23, 1970) and British Columbia (NO.9140, November 7, 1973).
4. I hold memberships in the Canadian Institute of Mining and Metallurgy the Society of Mining Engineers of the AIME, and am a Fellow of the Geological Association of Canada.

Signed



K. A. MacLean

November 1, 1976

APPENDIX NO.1

AGREEMENT BETWEEN NORTHWARD MINING CONTRACTORS

AND

DU PONT OF CANADA EXPLORATION LIMITED



THIS AGREEMENT made this 30<sup>th</sup> day of March 1976.

BETWEEN: DUPONT OF CANADA EXPLORATION  
102 - 1550 Alberni St.  
Vancouver, B. C. V6G - 1A5

Hereinafter referred to as  
"The Company"

OF THE FIRST PART

AND: NORTHWARD MINING CONTRACTORS LTD.  
256A Simpson Road  
Richmond B. C. V6X - 2P9

Hereinafter referred to as  
"The Contractor"

OF THE SECOND PART

WHEREAS the Company has requested the Contractor to complete a minimum of 2000 feet of diamond drilling and other mining services as herein set forth, on the property of the Company in the Black Lake area in the Province of British Columbia.

AND WHEREAS the Contractor has agreed to do the said diamond drilling and to perform the other services requested upon the terms, conditions and provisos herein contained.

NOW THEREFORE this Agreement Witnesseth that in consideration of the payment of the amounts herein stipulated and of the mutual covenants hereinafter contained, the parties hereto agree as follows:

SCHEDULE OF RATES - MINE DEVELOPMENT

(a) Drifting on the 5400' level.

Size: 7' x 7'

Footage: 140'

The Contractor agrees to complete the above footage requirements at the rate of \$135.00 per foot of advance employing a mucking machine, trammer, two ton cars and laying 20# rail (schedule #1) or at the rate of \$137.00 per foot of advance employing a mucking machine and scot cretes (schedule #2).

The Company has requested schedule #2 if approval can be obtained from the mining inspectors. The Contractor is responsible for requesting this authorization.

The Contractor includes in his schedule the installing of pipe, vent pipe, and headers at 200 foot intervals.

(b) Raising - Open

Size: 5' x 8'

Decline: 50°

Open:

Footage: 325'

Measurement: From rail on 5400' level.

<u>Footage</u>	<u>Price/Foot Advance</u>	
	<u>Schedule #1</u>	<u>Schedule #2</u>
0 - 150' from track	\$176.50	\$180.50
150 - Plus	\$181.00	\$185.00

The breakthrough to surface and preparing the suitable protection as required by good safety practices and government regulations

would be performed on a field cost basis.

(c) Raising - Timbered

Size: 6' x 8'

Timbered:

Incline: 83°

Footage: 180'

Measurement: From rail on 5400' level.

<u>Footage</u>	<u>Price/Foot Advance</u>	
	<u>Schedule#1</u>	<u>Schedule#2</u>
0 - 125' from track	\$237.00	\$240.00
125' Plus	\$245.00	\$248.00

Breakthrough to surface and preparing the suitable protection as required by good safety practices and government regulations would be performed on a field cost basis. The above schedule includes the cost of timber and labour employed timbering the raise.

MOBILIZATION - DEMOBILIZATION

THAT the Contractor agrees to move his men, equipment and supplies to the Smithers airstrip, load the aircraft at Smithers, unload the aircraft at the Black Lake strip, move the major pieces of equipment and supplies to the camp and portal site. Upon completion of the Contract the reverse would be true and is included in the quoted lump sum.

The mobilization - demobilization figure also includes the following:

(1) Fixing up the camp, setting up camp, wiring camp and upon completion tearing down the camp.

(2) The lump sum figure allows 5 complete days to move from the airstrip at Black Lake to job site and an allowance of 5 complete days to move from job site to strip at Black Lake.

Should more time be required than above due to weather, road or tractor problems then the Contractor would be reimbursed on the following basis:

Labour-----\$15.25 per man hour  
Equipment standby per day-----\$225.00

(3) The mobilization - demobilization also includes setting up compressor, lighting plant etc. at the portal site.

Mobilization - demobilization --lump Sum

Schedule #1 \$17,400

Schedule #2 \$16,000

(4) The Company would supply, at no cost to the Contractor the following:

(a) All air transportation from Smithers to Black Lake and return and all necessary flights as the job progresses.

(b) The camp, as is, and the canvas for the tents.

(c) Tractor and cat skinner and 4 x 4 truck to haul equipment from the strip, and return to strip and to haul fuel and supplies and move the drill as the job progresses.

ROCK BOLTING AND TIMBERING

THAT the Company agrees that should ground be encountered in the drift and or open raises that require timbering or rock bolting for the safe carrying out of the desired development, then such timbering or rock bolting would be performed on a man hour basis plus materials consumed. Should the workings be closed due to the timbering, then there would be a day standby charge.

Labour-----\$15.45 per man hr.  
Materials Consumed-----Cost on job site plus  
15 percent.  
Equipment standby (if applicable)-----\$250.00 per day.

SLASHING OR UNAVOIDABLE OVERBREAK

THAT the Company agrees that slashing when requested or unavoidable overbreak would be charged by the cubic foot and at the same rate as the comparable cost per cubic foot in the drift or raise depending on the situation.

REHABILITATING PRESENT DRIFTS, X-CUTS AND DUMP AREAS

That the Company agrees that all time and materials required to rehabilitate the present mine workings and dump area as required would be charged on a man hour basis plus materials consumed.

Labour-----\$15.45 per man hour  
Materials Used-----Cost on job site plus  
15 percent.

GROUTING

THAT the Company agrees that should grouting ever be necessary it would be performed employing a chemical grout. Charges would be on a labour rate per hour plus material consumed. Should the headings be closed due to the grouting, then there would be an equipment standby charge.

Labour-----	\$15.45 per man hour
Materials Consumed-----	Cost on job site plus fifteen percent
Equipment standby----- (if headings halted)	\$275.00 per day

SURVEY LINES

THAT the Company agrees to supply survey control points at 100 foot intervals.

BOARD AND LODGING

THAT the Contractor agrees that the above schedule of rates include the board and lodging for his crews.

Board, if requested, would be supplied to Company personnel at the rate of \$4.50/meal.

SURFACE DRILLING

1. Schedule of Rates - Core Drilling

<u>From</u>	<u>To</u>	<u>Price/Foot</u>	
		<u>NQ</u>	<u>BQ</u>
0	500' in depth	\$13.80	\$13.60

2. Schedule of Rates Overburden

<u>From</u>		<u>To</u>	<u>Price/Foot</u>
0	-	25' in depth	\$13.80
25'	-	50' in depth	\$14.50
50'	-	100' in depth	\$17.00
100' plus			Field Costs

3. Moving Between Holes - Setting Up - Tearing Down

THAT the Contractor agrees that the above schedule includes the first 10 man hours spent moving between holes. Time greater than above would be charged on a field cost basis. The Company would provide a tractor to move between holes at no cost to the Contractor.

4. Water Supply

THAT the Company agrees that the above schedule includes the supplying of the water up to a distance of 1000 feet and/or lift of 200'. Should the distance ever be greater, then the supplying of the water would be pro rated, the above distances to the Contractors account and the "over" to the Company on a field cost basis.

5. Reaming Casing

THAT the Company agrees that all reaming and casing that is necessary to stop cave-ins or maintain the return flow of water shall be completed at the Company's request and that the cost of performing such reaming and placing of such casing as may be required will be charged on a field cost basis.

Casing would be charged at the rate of \$.90 per reamed foot.

6. Cementing

THAT the Company agrees to pay the Contractor for the cementing of bore holes to stop cave-ins on an operating field cost basis.

Waiting for cement to set would be charged on a non-operating field cost basis.

7. Drilling with Mud

THAT it is mutually agreed that should mud be required to penetrate the overburden and/or aid in core recovery while core drilling, such mud employed will be charged on a cost at job site/basis plus fifteen percent.

Time employed mixing mud and stabilizing the drill hole would be charged on a field cost basis.

8. Core Boxes

THAT the Company agrees to pay the Contractor \$4.50 per box and \$1.50 per lid, supplied at their request.

9. Drilling Sites

THAT the Contractor agrees to case and drill on the sites and at angles and azimuths selected by the Company representative and to follow the instructions of the said representative relating to place and time of drilling.

10. Acid Tests

THAT the Contractor agrees to take acid tests at the depths as instructed by the Company's engineer. Such tests will be charged at the rate of three feet of drilling at the depth the tests were taken.



11. Field Costs

THAT the Company agrees that the following rates shall apply when certain work as defined in this contract is performed on a field cost basis. "Field Cost" is defined as all direct labour, including supervision, drill and support equipment per hour, and cost of pipe or casing lost, diamond loss, and materials and supplies consumed in this work.

Operating Field Costs:

Labour-----	\$14.00 per man hour
Drill-----	\$ 9.50 per hour
Pump-----	\$ .80 per hour
Mud Mixer-----	\$ .75 per hour
Materials Consumed-----	Cost at job site plus 15 percent.

Non-Operating Field Costs: (Maximum 8 hrs. per day)

Labour-----	\$12.00 per man hour
Drill - pumps, etc.-----	\$ 5.00 per hour

PAYMENTS

THAT the Company agrees to make payments at the rates hereinbefore specified in accordance with the terms hereinafter set out, that is: For all work done hereunder between the first and 15th day and the 16th and last day of the month, payment shall be due and payable in 15 days. Interest at a rate of twelve percent per annum shall be added to all accounts more than thirty days overdue, from date of invoice. These payments shall be made as the work progresses in conformity with the Contractor's semi-monthly invoices.

RIGHTS OF WAY

THAT the Company agrees at its own expense to provide all rights-of-way, all rights of ingress and egress and all real property that may be required in connection with said work, including real property upon which all necessary temporary buildings may be erected, and other facilities required, and shall also warrant the quiet and peaceful possession of all such real property and shall save the Contractor harmless from any and all damages, claims, demands, costs or charges of whatever kind or character incident to the occupation of said real property.

ENVIRONMENT

THAT during the course of the work, the Contractor shall at all times keep the clients premises free from accumulation of waste materials or rubbish and upon completion of the work shall remove all tools, scaffolding and surplus material and leave the premises in a clean condition. The Contractor shall observe and comply with all applicable Federal and Provincial laws, regulations and orders relating to prevention of forest fires, sanitation in the bush and mine safety.

COMPENSATION

THAT the Contractor agrees that the men employed by him in the performance of this Contract shall be fully covered under the Worker's Compensation laws according to the Province of British Columbia and will keep such men covered and will pay the assessment required and will protect the Company from any action arising therefrom, excluding however, claims arising out of any negligent act or omission of the Company, its servants or agents.

INSURANCE

THAT the Contractor, during the entire term of this agreement, will keep in full force and effect a policy of public liability and property damage insurance with respect to the work undertaken in this agreement, in the amount of \$1,000,000 for any one accident.

The insurance shall be with an insurance company duly licensed to do business in the Province of British Columbia.

RIGHT OF CANCELLATION

THAT the Contractor reserves the right to cancel this contract should its fulfillment be rendered impossible by:

(a) War, invasion, insurrection, riot, the order or regulations of any civil or military authority, or by strikes, lockouts, or labour disputes, whether in or in the neighbourhood of the Contractor's plant or of that of any supplier of materials necessary for the completion of the contract.

(b) The inability to obtain essential materials and supplies due to priority restriction.

(c) The inability to secure labour due to restrictions or causes beyond the Contractor's control, and the Contractor shall not be liable for any loss or damage directly or indirectly suffered by the Company by reason of exercise of such right of cancellation.

THAT it is mutually agreed that this agreement shall be binding upon and enure to the benefit of the parties hereto, their respective successors and permitted assigns, but shall not be assignable by either party without the consent in writing of the other party first had and obtained.

THAT it is further agreed that this agreement and any dispute arising hereunder shall be interpreted and determined in accordance with the laws of the Province of British Columbia.

THAT any notice required to be given hereunder shall be properly given if mailed by registered letter addressed to the Company as follows:

DUPONT OF CANADA EXPLORATION  
102 - 1550 Alberni St.  
Vancouver, B. C. V6G - 1A5

or to the Contractor by registered letter addressed a follows:

NORTHWARD MINING CONTRACTORS LTD.  
256A Simpson Road  
Richmond B. C. V6X - 2P9

IN WITNESS WHEREOF these presents have been executed by the parties hereto the day and year first above written:

SIGNED, SEALED AND DELIVERED  
In the presence of

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DUPONT OF CANADA EXPLORATION

*D. J. Durr*

\_\_\_\_\_  
\_\_\_\_\_

NORTHWARD MINING CONTRACTORS LTD.

*M. W. Coates*  
*R. J. Simpson*

\_\_\_\_\_  
\_\_\_\_\_

APPENDIX NO. 2

MINING AND DRILLING INVOICE

*Misc fwd copy to K.A. Maclean.*

INVOICE

NORTHWARD MINING  
256A Simpson Rd.  
Richmond, B.C.  
V6X 2P9

Invoice No.: 101  
Job No.: M-1  
Date: June 25/76

Dupont of Canada Exploration  
102 - 1550 Alberni St.  
Vancouver, B. C. V6G - 1A5

Re: Black Lake  
Period: June 1 - 15, 1976

Mobilization  
Drilling with Mud  
Core Boxes

\$8,000.00  
457.96  
127.50  
\$8,585.46

DATE	JUN 28 1976
CHARGE	301-01-16.
APPROVED	<i>[Signature]</i>
APPROVED	<i>[Signature]</i>

PAID  
D.O.X.  
DISBURSEMENT  
ACCOUNT  
CK. No. 01507

JUN28 1976

Mobilization

Lump Sum - 50% x \$16,000 \$8,000.00

Drilling with Mud

50 Bags Quik Gel (Thiessen Inv. #113)	\$232.73	
Plus freight: 2500# @ \$662/100	165.50	
	<u>\$398.23</u>	
Plus 15%	59.73	\$457.96

Core Boxes

20 NQ Core boxes @ \$4.50/box	\$90.00	
25 NQ Core box lids @ \$1.50/lid	37.50	\$127.50

PAID  
D.C.M.  
DISBURSEMENT  
ACCOUNT  
CK. No. 01507

JUN 28 1976



# THIESSEN EQUIPMENT LTD.

1170 GLEN DRIVE, VANCOUVER, B.C. V6A 3M6 • TEL. 254-6258

TELEX 04-55221

NOTE: June 4/76

INVOICE TO: Northward Mining Contractors Ltd.  
256 A Simpson Road  
Richmond, B.C.

CONSIGNED TO: SAME

INVOICE No 113

SHIPPED VIA Will Call	PREPAID	COLLECT XXXXX	SHIPPING ORDER No. 14293
SHIPPING DATE June 3/76	FEDERAL SALES TAX Exempt	PROVINCIAL SALES TAX 7% SS Tax Extra	CUSTOMER'S ORDER No. 111

Quantity	Unit	Description	Unit Price	Amount
2	only	NW Casing Box - 2-3/8" API Box	\$50.00/ea	\$100.00
50	50# Bags	QUIK-GEL	\$4.35/ea	\$217.50
				<hr/>
				\$317.50
			7% SS Tax	22.25
				<hr/>
				\$339.73
		<i>Charge Dupont</i>		217.50
		<i>Plus 7%</i>		15.23
				<hr/>
				232.73

PAID  
D.O.X.  
DISBURSEMENT  
ACCOUNT  
CR. NO. 01597

JUN 28 1976

ALL INVOICES NET 30 DAYS  
REMIT FROM THIS INVOICE — NO STATEMENTS ISSUED

INVOICE  
 NORTHWARD MINING CONTRACTORS LTD.  
 256A Simpson Road  
 V6X 2P9

Invoice No.: 102  
 Job No.: M-1  
 Date: July 12/76

Dupont of Canada Exploration  
 102 - 1550 Alberni St.  
 Vancouver, B. C. V6G - 1A5

Re: Black Lake Project

Period: June 16 - 30, 1976

Drifting	\$ 3,562.00
Raising - Timbered	17,520.00
Rehabilitating	1,371.48
Timbering	393.20
Mobilization	4,590.50
Diamond Drill Crew Standby	2,089.25
Miscellaneous	396.89
	<u>\$29,923.32</u> ✓

**PAID**  
 D.O.X.  
 DISBURSEMENT  
 ACCOUNT  
 CK. No. 01635

JUL 30 1976

DATE	JUL 14 1976
CHARGE	301-01-16
APPROVED	
APPROVED	<i>[Signature]</i>

*Approved for payment subject to adjustment  
 on certain items by final invoice payment date*

*[Signature]*  
 27<sup>th</sup> July 1976

Drifting:

54 - 50 N. Drift S. - 26 feet @ \$137.00/foot

\$3562.00 ✓  
                    

Raising - Timbered:

54 - 50 N. Raise - 73 feet @ \$240.00/foot

\$17,520.00 ✓  
                    

Rehabilitating:

(a) Labour & Equipment

<u>Date</u>	<u>Memo</u>	<u>ManHrs.</u>
June 18	Open up portal	14
June 20	Open up portal	30
June 21	Clean up main drift	36
June 26	Work on portal	6
		<u>86 hrs. ✓</u>

Labour: 86 hrs. @ \$15.45/hr.

\$1328.70 ✓

(b) Materials

30' 8" x 8" timber @ \$1.00/foot

\$30.00 ✓

4 10' x 2" x 8" lumber @ \$1.80/each

7.20 ✓

\$37.20 ✓

Plus 15%

5.58 ✓

\$ 42.78 ✓

\$1371.48 ✓

PAID  
D.O.X.  
DISBURSEMENT  
ACCOUNT  
CX. No. 01035

JUL 30 1976

Timbering

(a) Labour

<u>Date</u>	<u>Memo</u>	<u>ManHrs.</u>
-------------	-------------	----------------

June 22	Timbering	<u>16</u>
---------	-----------	-----------

Labour: 16 hours @ \$15.45/hr. \$247.20 ✓

(b) Material

22'	8" x 8" timber @ \$1.00/foot	\$22.00 ✓	
4	Bullhorns @ \$31.00/each	<u>124.00 ✓</u>	\$146.00 ✓
			<u>\$393.20 ✓</u>

Mobilization

<u>Date</u>	<u>Memo</u>	<u>ManHrs.</u>
-------------	-------------	----------------

June 17	Move equipment from Black	36
June 18	Lake strip to mine site over	36
June 19	day 5	56
June 20	" " " " " "	50
June 22	" " " " " "	6
June 23	" " " " " "	4
June 25	" " " " " "	25
June 27	" " " " " "	6
June 28	" " " " " "	6
June 29	" " " " " "	11
June 30	" " " " " "	6

242 ✓

Labour: 242 hours @ \$15.25/hr. \$3690.50 ✓  
 Equipment: 4 days @ \$225.00/day 900.00 ✓ \$4590.50

**PAID**  
 D.O.X.  
 DISBURSEMENT  
 ACCOUNT  
 CK. No. 01635

**JUL 30 1976**

Diamond Drill Crew Standby

Date ManHrs.

July 16	64
July 17	66
July 18	64

194 ✓

Less 50%

97 97 -

July 19 Travel from job

40

137 hrs. @ \$15.25/hr.

\$2089.25 ✓

Miscellaneous

E. G. Whalley & Sons Ltd.	Inv. # 7588	\$207.10
J. K. Smit & Sons	Inv. #149-6-76	122.52
15 EXT Coretube		<u>15.50</u>

\$345.12 ✓

Plus 15%

51.77 ✓

\$ 396.89 ✓

PAID  
D.O.X.  
DISBURSEMENT  
ACCOUNT  
CK. No. 01635

JUL 30 1976

# J. K. SMIT & SONS DIAMOND PRODUCTS LIMITED

81 ...COS DRIVE  
TORONTO, ONTARIO M6B 1W5  
Tel: 781-3534

1401 PITFIELD BOULEVARD,  
VILLE ST. LAURENT, QUEBEC H4S 1G3  
Tel: 332-0250

46 EAST 3rd. AVENUE,  
VANCOUVER, B.C. V5T 1C3  
Tel: 879-9251

PLEASE REMIT TO:  V.P. REMETTEZ À

XX

K.S. ORDER NO. K.S. COMMANDE 2296	CUSTOMER OR KR NO./NO. COMMANDE DU CLIENT 128	AND DATE REC'D/ ET DATE REÇUE June 15, 1976	INVOICE DATE DATE DE FACTURE June 16, 1976
---	---	--	---

SOLD TO  
VENDU À  
Northward Mining Contractors Ltd.  
256 A Simpson Road  
Richmond, B.C. V6X 2P9

F.O.B./F.A.B.	COMP PART	BAL.
TERMS/TERMES		
INVOICE NO. DE FACTURE 149-6-76	P.P.D.	COLL.

SHIP VIA:

Pick up

SHIP TO  
EXPÉDIE À

B/O	ORDERED COMMANDE	THIS SHIP CETTE EXP.	DESCRIPTION & SERIAL NUMBERS DESCRIPTION & NO DE SÉRIE	UNIT UNITÉ	UNIT PRICE PRIX UNITAIRE	AMOUNT MONTANT
	4	4	211EW2 EW 2 ft. drill rods steel c/w coupling		19.75	79.00 ✓
	2	2	211EW1 EW 1 ft. drill rods steel c/w coupling		17.75	35.50 ✓
SUB/SOUS TOTAL						114.50 ✓

**PAID**  
D.O.X.  
DISBURSEMENT  
ACCOUNT  
CK. No. 01635  
JUL 30 1976

AMOUNT SUBJ. TO P.S.T. MONTANT SUJET A T.V.P.	PED. SALES TAX TAX DE VENTE FEDERALE	SUB TOTAL SOUS TOTAL	AMOUNT SUBJ. TO P.S.T. MONTANT SUJET A T.V.P.	PROV. SALES TAX TAX DE VENTE PROV.	SHIPPING CHARGES FRAIS D'EXPEDITION	TOTAL/MONTANT
Schedule III	*		114.50 <del>TAXES</del>	8.02		\$122.52 ✓

**CONDITIONS OF SALE FOR DIAMOND SET MINING PRODUCTS INDUSTRIAL BITS AND SAWS.**

AS A SERVICE TO OUR CUSTOMERS AND TO FACILITATE THE USE OF DIAMONDS, WE WILL ACCEPT USABLE STONES RECOVERED FROM USED ITEMS AS A CREDIT ONLY AGAINST SUBSEQUENT ORDERS FOR NEW ITEMS IN THE SAME PRODUCT LINE. WHERE THE WEIGHT OF DIAMONDS SET IN THE NEW ITEMS ORDERED DOES NOT EQUAL THE WEIGHT OF DIAMONDS RECOVERED FROM USED ITEMS, WE WILL HOLD ANY EXCESS OF USABLE DIAMONDS IN SAFE-KEEPING FOR YOU AND SUBJECT TO YOUR ORDER, WE DO NOT OBLIGATE OURSELVES AT ANY TIME TO PURCHASE OR TAKE BACK NEW OR USED DIAMONDS FOR CREDIT.

**CONDITIONS DE VENTE CONCERNANT LES ARTICLES DIAMANTES**

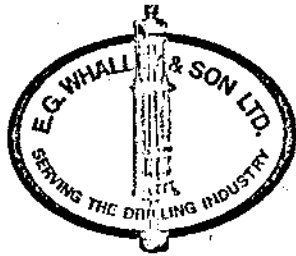
AFIN D'ACCOMMODER NOS CLIENTS ET POUR FACILITER LA ROTATION DES DIAMANTS, NOUS ACCEPTERONS DE CRÉDITER LES DIAMANTS RÉCUPÉRÉS PROVENANT DES ARTICLES DIAMANTÉS USAGÉS; LEQUEL CRÉDIT POURRA ÊTRE UTILISÉ SEULEMENT CONTRE DES ACHATS SUBSÉQUENTS DE PRODUITS NEUFS DE LA MÊME CATÉGORIE, LORSQUE LE POIDS TOTAL DES ARTICLES NEUFS AINSI COMMANDES N'ÉGALERA PAS LE POIDS DES DIAMANTS RÉCUPÉRÉS DES ITEMS USAGÉS. NOUS RETIENDRONS L'EXCÉDENT EN SÛRETÉ, SUJET À VOS COMMANDES SUBSÉQUENTES, NOUS NE NOUS ENGAUONS EN AUCUN CAS À ACHETER OU REPRENDRE AUCUN DIAMANT NEUF OU USAGÉ.

NOTE: NO GOODS MAY BE RETURNED WITHOUT OUR AUTHORIZATION. SETTING CHARGES ON UNUSED BITS ARE NOT REFUNDABLE.

AVIS: AUCUN ARTICLE RETOURNÉ NE SERA ACCEPTÉ SANS AUTORISATION PRÉALABLE. LE PRIX DU MONTAGE DES COURONNES DIAMANTÉES NEUDES N'EST PAS REMBOURSABLE.

INVOICE

PHONE: 433-5141



5791 BERESFORD STREET  
BURNABY, B.C. V5J 1J9

DIAMOND DRILL  
REPAIRS & SERVICE  
CORE BOXES  
WIRE-LINE HOISTS

June 18/76

SOLD TO Northward Drilling Contractors Ltd.,  
256A Simpson Road,  
RICHMOND, B.C.

SHIP TO Above, c/o Harrison Airways,  
Burns Lake Airport, Burns Lake.

ORDER DATE  
June 11/76

VIA Carson Trucklines

OUR ORDER No. 2902

TERMS: NET 15th OF MONTH FOLLOWING	
SALES TAX LIC. No.	
EXEMPT	
S.S.M.A. TAX No.	
EXTRA	
CUSTOMER'S ORDER No.	129
SHIPPING DATE	June 16/76
P.P.D.	X
COLL.	

QTY. ORDERED	BACK O.	DESCRIPTION	UNIT PRICE	QTY. SHIPPED	AMOUNT
		<b>EQUIPMENT RENTAL</b>			
1 only		Boyles Bazooka Drill c/w Bipod Mounting Assembly			
1 "		Airline Lubricator			
		RENTAL: June 16/76 to July 16/76	7		\$ 190.00
		SS & MA 7% Tax			13.30
		Insurance			3.80
					\$ 207.10

**PAID**  
C.O.X.  
DISBURSEMENT  
ACCOUNT  
CK. No. 01635

*OK*  
*Ed*

JUL 30 1976

RECEIVED

No 7588

TOTAL \$ 207.10

INVOICE  
 NORTHWARD MINING CONTRACTORS LTD.  
 256A Simpson Road  
*Richmond*  
 V6X 2P9

Invoice No.: 103  
 Job No.: M-1  
 Date.: July 29/76

Dupont of Canada Exploration  
 102-1550 Alberni St.  
 Vancouver, B. C. V6G 1A5

Re: Black Lake Project  
 Period: July 1 - 15/76

Drifting	\$17,125.00
Raising	\$17,214.75
Rehabilitating, Rock Bolting & Timbering	\$ 2,807.07
Bazooka Drilling	\$ 3,322.58
Test Hole Drilling	\$ 30.90
Sundry Labour & Truck	\$ 468.60
Other Charges	\$ 251.70
Board & Lodging	\$ 1,057.50
	\$42,296.10
	\$ 42,278.10

*Error in addition*

DATE	AUG 3 1976
CHARGE	301-01-16
APPROVED	<i>[Signature]</i>
APPROVED	<i>[Signature]</i>

**PAID**  
 D.O.X.  
 DISBURSEMENT  
 ACCOUNT  
 CK. No. 01698

**AUG 23 1976**



Drifting:

5450 N. Drift S. - 125 feet @ \$137.00/foot

\$17,125.00 ✓

Raising

5450 N. Raise - Timbered - 73' to 107.5' = 34.5' @ \$240./ft. \$8280.00  
Open - 107.5' to 141' = 33.5' @ \$180.50/ft. 6046.75

\$14,326.75 -

5454 N. Raise-Open - 0' to 16' = 16' @ \$180.50/ft.

2,888.00 -

\$17,214.75 -

Rehabilitating, Rock Bolting & Timbering

(a) Labour & Equipment

PAID  
D.O.X.  
DISBURSEMENT  
ACCOUNT  
CK. No. 01698

AUG 23 1976

<u>Date</u>	<u>Memo</u>	<u>ManHrs.</u>	<u>Equipment</u>
July 2	Lay pipe & rehab. 5450 drift	14	-
July 2	Clean up old drift etc.	32	1 day
July 3	Rehab. & timber	10	-
July 3	Rehab. & timber	10	-
July 6	Rock bolting	1 ✓	-
July 8	Excessive scaling on walls & back	12 ✓	-
July 9	Laying pipe	1 ✓	-
July 10	Timbering	12 ✓	-
July 13	Timbering in raise	40 ✓	1 day
		<u>132</u>	<u>2 days</u>

Labour: 132 hrs. @ \$15.45 \$2039.40  
 Equipment: 2 days @ 250.00 500.00 \$2539.40

(b) Material

<u>Date</u>	<u>Item</u>	<u>Amount</u>	
July 3	39' 8' x 8" timber @ \$1.00/foot	\$39.00	
	4 Bullhorns @ 31.00/ea.	124.00	
July 10	64' 8' x 8" timber @ 1.00/foot	64.00	
	32' 2' x 8" timber @ .18/foot	5.76	
		<u>\$232.76</u>	
	Plus 15%	34.91	\$267.67
			<u>\$2807.07</u> ✓

PAID  
D.O.X.  
DISBURSEMENT  
ACCOUNT  
CK. No. 01698

AUG 23 1976

Bazooka Drilling

(a) Labour & Equipment

<u>Date</u>	<u>Memo</u>	<u>ManHrs.</u>	<u>Compressor</u>
July 1	Travel to job site	8 ✓	-
July 2	Move & setup Bazooka	8 ✓	-
July 7	Drilling 5450 N. Raise	22 ✓	12
July 8	Drilling 5450 N. Raise	12 ✓	12
July 9	" " " "	12 ✓	10
July 10	" " " "	14 ✓	11
July 11	" " " "	17 ✓	11
July 12	" " " "	18 ✓	10
July 13	" " " "	12 ✓	5
		<u>123</u>	<u>71</u>

Labour: 123 hrs. @ \$15.45/hr. \$1900.35  
 Compressor: 71 hrs. @ 7.50/hr. 532.50 \$2432.85

(b) Materials

J. K. Smit & Sons Ltd. #104-7-71	\$163.51	
J. K. Smit & Sons Ltd. #41-7-76	511.30	
Boyles Industries Ltd. #37862	98.87	
	<u>\$773.68</u>	
Plus 15%	116.05	\$889.73
		<u>\$3322.58</u>

RECEIVED  
 CK. No. 01698  
 AUG 23 1976

Test Hole Drilling

(a) Labour & Equipment

<u>Date</u>	<u>Memo</u>	<u>ManHrs.</u>
-------------	-------------	----------------

July 2	Drill 5 test holes	2
--------	--------------------	---

Labour: 2 hours @ \$15.45/hr. \$ 30.90

Sundry Labour & Truck

<u>Date</u>	<u>Memo</u>	<u>ManHrs.</u>	<u>Truck</u>
-------------	-------------	----------------	--------------

July 1	Pick up rock supplies - Smithers	2½	2½
July 7	" " " " "	½	½
July 14	" " " " "	½	½
July 8	Pick up 4x4 parts etc.-Vancouver	4	4
July 1	Hauling samples etc. to airstrip-Blk.	6	-
July 7	" " " " " Lake "	6	-
July 14	" " " " " " "	3	-
July 8	Tune up 4x4 truck	4	-
July 10	Change brakes etc. on 4x4	4	-
		<u>30½</u>	<u>7½</u>

Sundry Labour & Truck Cont'd

Labour: 7½ hours @ \$10.00/hr.	\$75.00	
23 hours @ 15.45/hr.	355.35	
Truck : 7½ hours @ 7.50/hr.	<u>56.25</u>	<u>\$486.60</u> ✓

Other Charges

Dennison Chev. Ltd. Inv.# 76128	\$54.25	
Giant Tires Ltd. Inv. 60285	110.15	
150 gals. diesel fuel .582/gal	<u>87.30</u>	<u>\$251.70</u> ✓

Board & Lodging

June 16 - 30	90 meals	
July 1 - 15	<u>145 meals</u>	
	235 meals @ \$4.50/meal	<u>\$1057.50</u> ✓

PAID  
D.O.K.  
DISBURSEMENT  
ACCOUNT  
CK. No. 01698

AUG 23 1976

INVOICE  
 NORTHWARD MINING CONTRACTORS LTD.  
 256A Simpson Road  
 V6X 2P9

Invoice No.: 104  
 Job #: M-L  
 Date: July 30/76

Dupont of Canada Exploration  
 102 - 1550 Alberni St.  
 Vancouver, B . C. V6G 1A5

Re: Black Lake Project  
 Period: July 1 - 15, 1976

Drilling Detail	\$14,062.20
Mobilization	\$ 1,232.00
Moving, Setting Up & Tearing Down	\$ 1,036.00
Water Supply	\$ 238.00
Reaming Casing	\$ 223.55
Drilling with Mud	\$ 876.88
	<u>\$17,668.63</u>

DATE	AUG 3 1976
CHARGE	301-01-16
APPROVED	<i>[Signature]</i>
APPROVED	<i>[Signature]</i>

*NB. Paid subject to clarification of  
 items indicated below - on final  
 invoicing - Dec. Aug 20/76.*

*Deficit Inspecting 12 hours page 2 - \$108 credit  
 Should be charged 4.7 hrs additional pages = 65.50 debit  
 Charge for change price by Credit Dupont? 500.00*

*Total Credit due # 492.20*

**PAID**  
 D.D.  
 DISBURSEMENT  
 ACCOUNT  
 CK. No. 01698

**AUG 23 1976**

Drilling Detail

Hole#	Size	From	To	Footage	Rate	Amount
1	NQ	0	7	7✓	\$13.80	\$ 96.60 ✓
1	NQ	7	364	357✓	13.80	4926.60
2	NQ	0	4½	4½✓	13.80	62.10
2	NQ	4½	188	183½✓	13.80	2532.30
3	NQ	0	9	9✓	13.80	124.20
3	NQ	9	107	98✓	13.80	1352.40
4	NQ	0	18	18✓	13.80	248.40
4	NQ	18	107	89 ✓	13.80	1228.20
5	NQ	0	16	16 ✓	13.80	220.80
5	NQ	16	253	237 ✓	13.80	3270.60
				<u>1019 ✓</u>		<u>\$14,062.20 ✓</u>

Mobilization

Labour

Date	Memo	ManHrs.
June 30	Travel time to Pr. George	16 ✓
July 1	Travel time to camp	32 ✓ 20
July 1	Move & setup on 1st hole Max from camp	10
July 2	Build setup on Hole# 1	30 ✓
		<u>88 76</u>

Labour: 88 hrs. @ \$14.00/hr.  
76 hrs @ 14.00

\$1232.00  
1061.00

PAID  
 O. O. X.  
 DISBURSEMENT  
 ACCOUNT  
 CK. No. 01698

AUG 23 1976

Moving, Setting Up & Tearing Down

<u>Date</u>	<u>Memo</u>	<u>ManHrs.</u>
July 7	Moving supplies to drill site	5 ✓
July 8	Prepare setup Hole #2, one man working	24 30
July 9	Finished setup Hole#2, one man helping on cut	12
		<u>41 47</u>
	Less Northward Portion	10 31 31
July 10	<del>Prepare setup Hole#3</del> <i>Swamping on cut</i>	10 ✓
July 11	<del>" " "</del> <i>" " "</i>	10 ✓ 20
July 12	Teardown & move & setup-Hole#3	21
		<u><del>41</del> 21</u>
	Less Northward Portion	<u><del>5 36</del> 6.3 14.7 D-1</u>
July 13	Move & setup on Hole# 4	10
	Less Northward Portion	<u>3 7</u>
		<u>74 78.7</u>

Labour: 74 hours @ \$14.00/hr.

\$1036.00

1101.80

PAID  
D.O.X.  
DISBURSEMENT  
ACCOUNT  
CK. No. 01698

AUG 23 1976

Water Supply

<u>Date</u>	<u>Memo</u>	<u>ManHrs.</u>
July 2D	Lay waterline - 345' lift	1½
July 3D	" " - 345' lift	16
July 3N	" " - " "	8
July 4D	Maintain waterline	3
July 5N	" "	2
		<hr/>
		30½
	Northward Portion 200/345	17½ 13
		<hr/>
July 8D	Move supply pump - 330' lift	6
July 10D	Maintain waterline	2
July 13D	" "	2
		<hr/>
		10
	Northward portion 200/330	6 4
		<hr/>
		17

Labour: 17 hours @ \$14.00/hr.

\$238.00 ✓

PAID  
D.O.X.  
DISBURSEMENT  
ACCOUNT  
CK. No. 01698

AUG 23 1976



Reaming Casing

(a) Labour & Equipment

Date	Hole#	Memo	ManHrs.	Drill
July 30	1	Ream casing 7-10'	2	1½
July 90	2	Ream casing 4½-13'	3	1½
July 120	3	Ream casing 9-17'	2	1
July 130	4	Ream casing 18-21'	1	½
July 140	5	Ream casing 16-19'	2	1
			<u>10</u>	<u>5½</u>

Labour:	10 hours @ \$14.00/hr.	\$140.00	
Drill :	5½ hours @ 9.50/hr.	52.25	
Pump :	5½ hours @ 2 x .80	8.80	\$201.05 ✓

(b) Material

Casing wear:	25' @ .90/foot	\$22.50
		<u>\$223.55</u> ✓

PAID  
D.O.X.  
DISBURSEMENT  
ACCOUNT  
CK. No. 01698

AUG 23 1976

Drilling with Mud

(a) Labour & Equipment

Date	Hole#	Memo	ManHrs.	Mixer
July 4D	1	Mix Mud	2	1
July 4N	1	" "	2	1
July 5D	1	" "	4	2
July 5N	1	" "	1	1/2
July 6D	1	" "	2	1
July 6N	1	" "	4	2
July 7D	1	" "	3	1 1/2
July 8D	1	" "	1	1/2
July 12N	3	" "	1	1/2
July 13D	4	" "	1	1/2
July 14D	4	" "	2	1
July 14N	5	" "	2	1
July 15D	5	" "	2	1
July 15N	5	" "	2	1
			<u>29</u>	<u>14 1/2</u>

Labour: 29 hrs. @ \$14.00/hr. \$406.00  
 Mixer : 14 1/2 hr. @ .75/hr. 10.88  
\$416.88

(b) Materials

25 bags Quik Gel	Charged on Inv.#101	----	
60 bags Quik trol	@ \$6.50/bag	\$390.00	
1/3 Bag cal seal	@	10.00	
		<u>\$400.00</u>	
	Plus 15%	60.00	\$460.00
			<u>\$876.88</u>

**PAID**  
 O.O.X.  
 DISBURSEMENT  
 ACCOUNT  
 CK. No. 01698

AUG 23 1976

INVOICE

NORTHWARD MINING CONTRACTORS LTD.

256A Simpson Road

Richmond B. C.

V6X 2P9

Invoice No.: 105

Job No. : M-1

Date: : Aug 11/76

Dupont of Canada Exploration  
102 - 1550 Alberni St.  
Vancouver B. C. V6G 1A5

Re: Black Lake Project

Period: July 16 - 31/76

Raising	55 786.50	\$55,966.50
Rehabilitating, Rock Bolting & Timbering		695.71
Sundry Labour		355.35
Board & Lodgings		666.00
Other Charges		229.03

\$57,912.59 ✓

*Adjustment as raised charge*

180.00

57 732.59

DATE	AUG 17 1976
CHARGE	301-01-16
APPROVED	57,732.59 <i>K. Alward</i>
APPROVED	<i>D. [Signature]</i>

**PAID**  
B.O.X.  
DISBURSEMENT  
ACCOUNT  
CK. No. 01722

AUG 30 1976

*Page 2*

*raising charge should be reduced by 180.00 as 46' of  
since  
the raise was below 150'.*

Raising

5450 N Raise - Open - 141' to 150' = 9' @ \$180.50/ft. \$1624.50  
 150' to 183' = 33' @ 185.00/ft. 6105.00

5454N Raise - Open - 16' to 150' = 134' @ 180.50/ft. 24187.00  
 150' to 280' = 130' @ 185.00/ft. 24050.00

includes 40' of "C" raise, 51'-9 1/2' since this is less than 150' above track \$55966.50

reduce charge by 40'(185.00-180.50) = 180.00 Less 180.00

55786.50

Rehabilitating, Rock Bolting & Timbering

(a) Labour & Equipment

Date	Memo	ManHrs.
July 18	Timbering	21 -
July 19	Timbering	4 -
July 28	Moving down raise	4 -
July 30	Moving down raise	4 -
July 31	Timbering & moving	8 -
		<u>41</u>

PAID  
 D.O.X.  
 DISBURSEMENT  
 ACCOUNT  
 CK. No. 0722

AUG 30 1976

Labour: 41 hours @ \$15.45/hr. \$ 633.45

(b) Materials

Date	Item	Amount
July 18	27' 8"x8" timber @ \$1.00/foot	\$27.00
July 18	48' 2"x8" timber @ .18/foot	8.64
July 18	10' 4"x4" timber @ .25/foot	2.50
July 19	16' 8"x8" timber @ 1.00/foot	16.00
		<u>\$54.14</u>
	Plus 15%	8.12

\$ 62.26

\$695.71

Sundry Labour

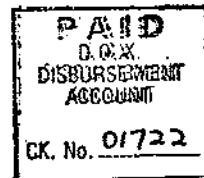
<u>Date</u>	<u>Memo</u>	<u>ManHrs.</u>
July 17	Changed brakes on pick up	2
July 18	Change oil in pick up	1
July 28	Repairing truck	6
July 29	Repairing truck	1
July 29	Repairing John Deere	7
July 31	Repairing truck	6
		23

Labour: 23 hours @ \$15.45/hr.

\$355.35 ✓

Board & Lodgings

148 meals @ \$4.50/meal



\$666.00 ✓

AUG30 1976

Other Charges

160 gals. Diesel fuel @ .582/gal.

\$ 93.12 ✓

Jack leg rental July 13-31 @ 187.25/mo.

114.77 ✓

Freight on truck repairs PWA#697627

11.14 ✓

PWA#697626

10.00 ✓

\$229.03 ✓

INVOICE

NORTHWARD MINING CONTRACTORS LTD.

256A Simpson Road

Richmond B. C.

V6X 2P9

Invoice No.: 106

Job No.: M-1

Date: August 13/76

Dupont of Canada Exploration  
102 - 1550 Alberni St.  
Vancouver, B. C. V6G 1A5

Re: Black Lake Project

Period: July 16 - 31, 1976.

Drilling Detail  
Moving, Setting Up & Tearing Down  
Reaming Casing & Hole Stabilizing  
Drilling with Mud  
Cementing  
Water Supply  
Core Boxes  
Walking Time  
Demobilization Credit

\$20,396.40  
574.00  
327.65  
1,190.26  
611.20  
238.00  
126.00  
21.00  
(998.80)  
\$22,485.71

PAID  
D.O.X.  
DISBURSEMENT  
ACCOUNT  
CK. No. 01722

AUG30 1976

DATE	AUG 17 1976
CHARGE	301-01- <del>16</del>
APPROVED	<i>[Signature]</i>
APPROVED	<i>[Signature]</i>

*(Adjust)*

(859.63)  
21,626.08

*Note*  
\$859.63 charge at p. 5 not OK as this material was on job  
from 1975 program (see ledger invoice No 917 Sept 3, 1975) and  
was paid for by Dupont in 1975.

Drilling Detail

Hole#	Size	From	To	Footage	Rate	Amount
6	NQ	0	7	7	\$13.80	\$ 96.60
6	NQ	7	296	289	13.80	3988.20
7	NQ	0	10	10	13.80	138.00
7	NQ	10	245	235	13.80	3243.00
8	NQ	0	7	7	13.80	96.60
8	NQ	7	125	118	13.80	1628.40
9	NQ	0	8	8	13.80	110.40
9	NQ	8	182	174	13.80	2401.20
10	NQ	0	9	9	13.80	124.20
10	NQ	9	171	162	13.80	2235.60
11	NQ	0	23	23	13.80	317.40
11	NQ	23	181	158	13.80	2180.40
12	NQ	0	5	5	13.80	69.00
12	NQ	5	152	147	13.80	2028.60
13	NQ	0	3	3	13.80	41.40
13	NQ	3	126	123	13.80	1697.40
				<u>1478'</u>		<u>\$20,396.40</u>

PAID  
D.O.X.  
DISBURSEMENT  
ACCOUNT  
CR. No. 01722

AUG30 1976

Moving, Setting Up & Tearing Down

<u>Date</u>	<u>Memo</u>	<u>ManHrs.</u>
July 16D	Move & setup on Hole# 6	17
	Less Northward Portion	<u>10</u> 7 ✓
July 20D	Move & setup on Hole# 7	11
July 20N	" " " " " "	<u>4</u>
		15
	Less Northward Portion	<u>10</u> 5 ✓
July 22D	Move & setup on Hole# 8	11
July 22N	" " " " " "	<u>4</u> ✓
		15
	Less Northward Portion	<u>8</u> 7 ✓
July 24D	Move & setup on Hole# 10	6
July 24N	" " " " " "	<u>8</u>
		14
	Less Northward Portion	<u>6</u> 8 ✓
July 25D	Prepare setup On hole# 11	4
July 26D	" " " " " "	<u>12</u>
		16
	Less Northward Portion	<u>6</u> 10 ✓
July 27D	Move & Setup on Hole# 12	11
	Less Northward Portion	<u>7</u> 4 ✓
		<u>41</u>
	Labour: 41 hrs. @ \$14.00/hr.	

PAID  
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DISBURSEMENT  
ACCOUNT  
CK. No. 01722

AUG 30 1976

\$574.00



Reaming Casing & Hole Stabilizing

(a) Labour & Equipment

<u>Date</u>	<u>Hole#</u>	<u>Memo</u>	<u>ManHrs.</u>	<u>Drill</u>
July 16D	6	Ream casing 7½' to 12'	2	1
July 23D	9	Ream casing 7' to 11'	2	1 ✓
July 23D	9	Ream rods to bottom	4	2
July 24D	9	Ream rods to bottom	4	2
July 24D	9	Stabilize Hole	2	1
July 26D	11	Ream casing 23' - 27'	1	½ ✓
July 28D	13	Ream casing 3' - 7'	1	½ ✓
			<u>16</u>	<u>8</u>

Labour:	16 hrs. @ \$14.00/hr.	\$224.00	
Drill :	8 hrs. @ 9.50/hr.	76.00	
Pumps :	8 hrs. @ 2 x .80/hr.	<u>12.80</u>	\$312.80

(b) Material

Casing usage charge:	16½' @ .90/foot	\$ 14.85
		<u>\$327.65</u>

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ACCOUNT  
CK. No. 01722

AUG30 1976

Drilling with Mud

(a) Labour & Equipment

Date	Hole#	Memo	ManHrs.	Mixer
July 16D	6	Mix Mud	1	1/2
July 16N	6	" "	1	1/2
July 17D	6	" "	2	1
July 17N	6	" "	2	1
July 18D	6	" "	2	1
July 19D	6	" "	2	1
July 19N	6	" "	2	1
July 20D	6	" "	2	1
July 21N	7	" "	1	1/2
July 22D	7	" "	1	1/2
July 23D	8	" "	1	1/2
July 23N	9	" "	2	1
July 24D	9	" "	2	1
July 26D	11	" "	1	1/2
			<u>23</u>	<u>11 1/2</u>

Labour: 23 hrs. @ \$14.00/hr. \$322.00  
 Mixer : 11 1/2 hrs. @ .75/hr. 8.63

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AUG 30 1976

\$330.63

(b) Materials

2 Bags quik gel - charged on Inv. #101 --  
 115 Bags quik trol- @ \$6.50/bag \$747.50  
 Plus 15% 112.13 \$859.63

\$1190.26 330.6

Material was left on site from 1975 drilling programme and utilized this season. No change required.

Cementing

(a) Labour & Equipment

<u>Date</u>	<u>Hole#</u>	<u>Memo</u>	<u>ManHrs.</u>	<u>Drill</u>
July 19D	6	Cement hole	8	1
July 19N	6	Drill and cement	8	1
			<u>16</u>	<u>2</u>
		Labour: 16 hrs. @ \$14.00/hr.	\$224.00	
		Drill : 2 hrs. @ 9.50/hr.	19.00	
		Pump : 2 hrs. @ (2 x .80)	3.20	\$246.20
			<u>3.20</u>	

(b) Materials

1 BQ core bit	\$276.80	
2 Bags cal seal @ \$15.00/bag	30.00	
Plus freight: 160# @ \$6.62/cwt.	10.59	
	<u>\$317.39</u>	
Plus 15%	47.61	\$365.00
	<u>47.61</u>	
		<u>\$611.20</u>

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ACCOUNT  
CK. No. 01722

AUG30 1976

Water Supply

<u>Date</u>	<u>Memo</u>	<u>ManHrs.</u>	
July 16N	Lay waterline 340' lift	3	
July 17D	" " " "	6½	
July 17N	Maintain waterline 340' lift	2	
July 18D	Maintain waterline 340' lift	12	
		<u>23½</u>	
	Less Northward portion 200/340	<u>13½</u>	10
July 25	Move pump	<u>7</u>	7
			<u>17</u>

Labour: 17 hrs. @ \$14.00/hr.

\$238.00 ✓

Core Boxes

28 NQ core boxes @ \$4.50/box

\$126.00 ✓

Walking Time

<u>Date</u>	<u>Memo</u>	<u>ManHrs.</u>	
July 17	Travel to & from drill	1	
July 21	" " " " "	½	
		<u>1½</u>	

Labour: 1½ hrs. @ \$14.00/hr.

\$ 21.00 ✓

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DISBURSEMENT  
ACCOUNT  
CK. No. 01722

AUG30 1976

Demobilization Credit

2497' @ .40/foot

(\$998.80)

INVOICE

NORTHWARD

MINING CONTRACTORS LTD.

256A Simpson Road

Richmond B.C. V6X 2P9

Invoice No.: 107

Job#: M-1

Date: Sept. 1/76

Department of Canada Expl.

1550 Alberni St.

Vancouver B. C.

6G 1A5

Project: Black Lake Project

Period: August 1 - 8, 1976

Raising  
 Clean Up - Mine Entrance  
 Demobilization  
 Sundry Labour  
 Board & Room  
 Other Charges

\$ 4,440.00  
 77.25  
 8,000.00  
 118.95  
 261.00  
 139.24  
\$13,036.44

DATE	SEP 7 1976
CHARGE	301-01-16
APPROVED	As to 11,380.44 Kitchman
APPROVED	<i>[Signature]</i>

Adjustments: raise rate for 24', less \$ 108 -  
 Mobilization charges, excess, on Juv 102, less \$ 1,548 -  
 pay net \$ 11,380.44 -  
 Kitchman

PAID  
 D.O.X.  
 DISBURSEMENT  
 ACCOUNT  
 CK. No. 01775

SEP 23 1976

Raising

5454 N Raise - Open - 280' - 304' = 24' @ \$185.00 <sup>ok</sup> \$4,440.00

\* rate should be \$180.50/foot as this work was less than 150' from the track in Crain

Clean Up Mine Entrance

Date Memo ManHrs.

Aug 7 Bulkhead entrance 5

Labour: 5 hours @ \$15.45/hr. \$ 77.25 ✓

Demobilization

Lump Sum 50% x \$16,000 \$8,000.00 ✓

Sundry Labour

Date Memo ManHrs. Truck

Aug 8 Prepare 1/2 ton for winter storage 6 -

Aug 7 Haul Ore samples - Smithers 1 1/2 1 1/2

Labour: 6 hrs. @ \$15.45/hr. \$92.70

1 1/2 hrs. @ 10.00/hr. 15.00

Truck : 1 1/2 hrs. @ 7.50/hr. 11.25 \$ 118.95 ✓

PAID  
D.O.X.  
DISBURSEMENT  
ACCOUNT  
CK. No. 01775

SEP 23 1976

Board & Room

58 meals @ \$4.50/meal

\$261.00

Other Charges

Jackleg rental Aug. 1 - 7 @ \$187.25/mo. \$42.28

V.K. Grout Plugs Ltd. Inv.#1026 55.00

Carson Motorways #1360002 23.80

121.08

Plus 15%

18.16 \$139.24

PAID  
D.O.X.  
DISBURSEMENT  
ACCOUNT  
CK. No. 01775

SEP 23 1976

APPENDIX NO. 3

DIAMOND DRILL LOGS



DIAMOND DRILL LOGS

SURFACE

<u>HOLE NO.</u>	<u>AZIMUTH</u>	<u>INCLINATION</u>	<u>ELEVATION</u>	<u>N</u>	<u>E</u>	<u>DIAM.</u>	<u>LENGTH(m)</u>
76-1	130°	-65°	5754.5'	6818.7	39298.4	NQWL	110.9 m
76-2	130°	-60°	5719.3'	6733.7	39398.3	NQWL	57.3
76-3	130°	-55°	5689.7'	6623.4	39374.1	NQWL	32.6
76-4	130°	-50°	5715.6'	6812.3	39525.0	NQWL	32.6
76-5	130°	-60°	5716.3'	6812.9	39523.0	NQWL	77.1
76-6	130°	-65°	5737.6'	6814.9	39425.1	NQWL	90.2
76-7	130°	-46.5°	5713.4'	6718.0	39266.4	NQWL	74.6
76-8	130°	-45°	5671.8'	6597.0	39259.8	NQWL	38.1
76-9	130°	-69°	5671.8'	6597.0	39257.8	NQWL	55.2
76-10	130°	-65°	5709.5'	6741.9	39463.0	NQWL	52.1
76-11	130°	-46°	5654.4'	6537.3	39171.0	NQWL	51.2
76-12	130°	-52°	5644.5'	6390.8	39037.6	NQWL	46.3
76-13	130°	-75°	5644.5'	6390.8	39034.6	NQWL	38.4
						TOTAL	760.8

UNDERGROUND

76-U-1	130°	0	5507.5'	6433.7	39179.2	IEX	13.1
76-U-2	310°	+ 2°	5508.0'	6434.7	39180.1	IEX	7.6
76-U-3	130°	+35°	5510.0'	6436.7	39171.5	IEX	15.5
76-U-4	130°	+ 2°	5433.0'	6673.5	39353.0	IEX	7.0
76-U-5	310°	+ 2°	5433.0'	6678.0	39348.0	IEX	7.3
76-U-6	130°	+ 2°	5433.1'	6649.0	39343.5	IEX	4.3
76-U-7	310°	+ 2°	5432.5'	6654.0	39380.0	IEX	4.6
						TOTAL	59.4

Core stored in core rack at the campsite, vein sections were removed for assays.

*K. M. ...*

# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Contractors Ltd. G. Adam, M. Grexton.  
 HOLE NUMBER: 76-1 LENGTH: 364'  
 LOCATION: Chappelle DIP: -65°  
 LATITUDE: 6,818.7 DEPARTURE: 39,298.4  
 ELEVATION: 5754.5 AZIMUTH: 130°  
 HOLE STARTED: July 3, 1976 HOLE COMPLETED: July 8, 1976

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 4  
 HOLE NUMBER: 76-1  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: NQWL  
 % CORE RECOVERY:        
 LOGGED BY: K.A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY				
0.0	6.0	6.0		Collar, rock debris, start of core 6.0.										
0.0	10.0			N casing										
6.0	10.5	4.5		Felsite, slight porphyritic, vague fragment outlines, numerous closely spaced fractures coated with limonite, mainly along core.										
10.5	30.0	19.5		Augite phenoandesite, black porphyroblasts, vague foliation @ 60°, numerous open rusty fractures 45°-60°, occasional 0.05' pyrite fracture filling.										
30.0	67.5	37.5		Quartz feldspar porphyry, upper contact indistinct, possibly intrusive contact, rich in pk feldspar for 1.5' from 30.0. Local colour variations of grey to pink subhedral 2-5mm feldspar and quartz in a light grey fine matrix. Numerous prominent limonite coated fractures 45°-75° occ 0.01' wide to 44'. Py in 0.05'-0.005' fracture fillings 20°-45°.										
67.5	72.0	4.5		Quartz vein, grey quartz with chlorite-epidote patches and completely altered remnants. Py in fine fracture fillings and occasionally fine dissems, rare small speck argentite? Highly pyritized at upper contact, in fract	3501	10%	67.5	72.0	4.5	100				

*K.A. MacLean*

# DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 76-1

 SHEET NUMBER 2 OF 4

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS							
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE									
							FROM	TO	WIDTH	RCVRY						
72.0	90.2	18.2		Augite phenoandesite, dk grn with subhedral to anhedral phenocrysts lightly dispersed, purplish red hematite coating on fractures, bleached for 2' @ u ct 0.5' bleached and silicic @ 86.5, occ mg py xtal coated fractures, broken core.												
90.2	94.0	3.8		Quartz vein, massive, occ remnants and epidotized streaks, angles of 90° @ 90.2, occ 0.1' streaks py and fine fracture fillings to 0.001', minor dk grey dissem mineral (argentite?) in 0.15' zone @ 93.5.	3502	10%	90.2	94.0	3.8	100						
94.0	147.5	53.5		Augite phenoandesite, f.g dk grn matrix, loc num py frags 55°, 2.0' feldspar phenocryst rich band @ 102', 0.5' silic band @ 110.5', 1' pink felsitic band @ 114, 2' felsitic @ 121.5, 131.5, chlor & epidote on jt faces, rare 0.01 qtz str, 30°.												
147.5	152.3	4.5		Feldspar porphyry, 0.01' pk-orange feldspar, med-lt grey pyritic groundmass, py 25-30% as disseminations and 0.01' long patches, upper contact sharp @ 70°.												
152.3	164.0	11.5		Feldspar porphyry, finer grained variant of unit above, variable texture along core within a few tenths, occ silica rich light grey layers, some are densely packed crystals, occ locally numerous py str.												
164.0	172.0	8.0		Fault, gouge light grey colour, 3.5' mud, derived from feldspar porphyry, pyritic, vague angles 45°-70°.												
172.0	173.5	1.5		Feldspar porphyry, fg dacitic, brecciated, fragments to 0.05', occ 0.01' qtz str and 0.005' py fract filling, 5-10% sulph.												
173.5	197.6	24.1		Feldspar phenodacite, light grey, fine pale pk-white phenocrysts, 10% dissem py, some 0.005' fract fillings, 3.5' mud												

*K. M. Williams*

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 76-1

SHEET NUMBER 3 OF 4

FOOTAGE				DESCRIPTION	SAMPLE						ASSAYS								
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE												
							FROM	TO	WIDTH	RCVRY									
197.6	259.0	61.4		seam @ lower contact.															
				Augite pheno andesite, dk grn groundmass and black to green anhedral phenocrysts, which are locally cored with py. Mud seams 201.6-206.0, 256.0-259, occ pk zeolite and carb fract fillings at random angles, some to 0.02' wide & vuggy, core fractures along 45°-30° planes, occ 2.0' very dark grn bnd with 20% py in angular grains, as @ 240'. 2.5' fault-mud seam at lower contact.															
259.0	265.0	6.0		Augite pheno andesite, med grey green, core highly broken and blocky, prominent moderately dense distribution of 0.01' grey to pale greenish grey phenocrysts usually anhedral to sub-rounded, occ carb and pk zeol filled fract 40°-60°, 5% py in dissems and fract fillings, 2.5' mud at lower contact.															
265.0	286.5	21.5		Augite phenoandesite, med grey grn, core hly broken, several 2' bands m-cg, magnetic, anhedral feldspar rich bands, dark grey-black matrix, mud seam 281.5-284. Last 2' brecciated and healed with quartz and py.															
286.5	292.5	6.0		Mixed phenoandesite and augite phenoandesite, occ white carb and pk zeolite fract fillings 40°-60°.															
292.5	320.5	28.0		Fault zone at low angles to core axis, rock types as @ 292.5, 1' mud @ 302 304-316 highly broken, much fine sand around 308, last 5' shows bx and healing with zeolite, carb, silica, minor pale py.															
320.5	334.6	14.1		Dacite(?) med-lt grey vfg dense, tough, brittle, num subrounded phenocrysts and/or fragments to 0.1', occ to locally numerous															

*K. M. ...*

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 76-1

SHEET NUMBER 4 OF 4

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY				
				white carb fract fillings 0.01' wide @ 20°-10°, occ show off-sets to 0.2', occ 0.1' silica streaks are offset by carb fract, occ ff fine py loc numerous, last 3' dk gy, angles vague @ 45°.										
334.6	339.6	5.0		Quartz vein, grey to white, strongly bx'd @ upper contact, locally vuggy 0.01'-0.1' wide py fg dk brn in some bx zones, paler in ff and more mg, occ dark xenoliths dacite or andesite, altered.	3503	10%	334.6	339.6	5.0	100				
339.6	343.6	4.0		Quartz vein, massive, fewer remnants, lower contact 60°	3504	10%	339.6	343.6	4.0	100				
343.6	345.6	2.0		Dacite, fg, brittle, bx'd and faulted for 1' @ upper contact @ 30°.										
345.6	352.5	6.9		Dacite, less affected by faulting, med lt grey green, num variations in texture in vague bands, possibly welded, num grey quartz strs to 0.01' @ 45°, some with patches py occ sly offset by carb filled fract along core, hly bx'd from 350' where core contains much clay and gouge.										
352.5	356.5	4.0		Quartz vein, contains num alt'd bands and streaks dacite, loc vuggy along fract 5% pale dissem py, poss some cp @ 356.0, blobby texture in quartz vein.	3505		352.5	356.5	4.0	100				
356.5	364.0	7.5		Dacite, med green grey, vague frag outlines near upper contact, some bands lt grey 0.01' phenocrysts, pyritic 20-40%, quartz veinlets offset 0.02' along later silica filled fractures, some subrounded phenos to 0.03' have pyritic cores.										
	364.0			Foot of hole.										
				NOTE: Very blocky ground, core is mainly chips except for vein which cores well, ran mud 152-364. Sand @ 308'.										

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# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Contractors Ltd. G. Adam  
 HOLE NUMBER: 76-2 LENGTH: 188'  
 LOCATION: Chappelle DIP: -60°  
 LATITUDE: 6733.7 DEPARTURE: 39,398.3  
 ELEVATION: 5719.3 AZIMUTH: 130°  
 HOLE STARTED: July 9, 1976 HOLE COMPLETED: July 12, 1976

ACID &/OR TRO-PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 3  
 HOLE NUMBER: 76-2  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: NQWL  
 % CORE RECOVERY:    
 LOGGED BY: K.A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY					
0.0				Collar											
	4.5			Start of core											
0.0	13.0	13.0		N casing											
4.5	35.0	30.5	85.3	Augite phenoandesite, med grn with dk grn blk phenos 0.01'-0.005' numerous rusty limonite coated fractures, occ vuggy carb, occ 0.1' bleached zones as @ 20.5, pyritic 10%.											
35.0	54.8	19.8	88.9	Quartz feldspar porphyry, massive, light grey, with white and occ pk porphyroblasts, distinct compositional banding, with vague contacts, ranging from fine to coarse grained, foliation @ 50°, occ fine fracture fillings pyrite, limonite coated fract to 48'.											
54.8	85.0	29.2	95.0	Feldspar porphyry, appears to be a number of contacts with slight compositional variations, probably a breccia or agglomerate, loc dk grey fg, some light coloured 0.05' wide along fine fract, 12" gouge 62.5-63.5.											
84.0	127.0	43	100.0	Augite phenoandesite, num compositional variations within 0.5' in matrix and phenocrysts, loc num vuggy zeolite-carb fract fillings @ 35°-along-core @ 89'.											

*K.A. MacLean*

# DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 76-2

 SHEET NUMBER 2 OF 3

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY				
				Py, pale, mg in 0.2' ff occ ragged dissem as @ 107, 5% Py.										
127.0	142.0	15	100.0	Augite pheno andesite, mg variant, mg euhedral feldspars to 0.01' core extremely broken and blocky. Intense epidotization from 135 to 142, 20% Py, with much mg py on fract, minor carb, no zeolite.										
142.0	146.0	4.0	100.0	Vein zone, mg Dacite, mg brownish grey vague fragment outlines, vague foln. at 50° num strcs & sml bnds grey qtz to 0.2', occ small ff py & fine dissem py 25%, qtz 60%, poss some cp 144.5.	3517	25	142.0	146.0	4.0	100				
146.0	149.6	3.6	100.0	Vein zone, hly alt'd @ 146.0, heavily pyritized, occ bnd with mg euhedral cream felds, 0.5' qtz vein, massive, appears to be coagulated white to grey globs with vague outlines. Vein contains fine dissem py. 4' fault gouge @ 148.6 20% py, 20% silica in veins.	3518	20	146.0	149.6	3.6	100				
149.6	153.0	3.4	100.0	Quartz vein, massive grey and white quartz, locally extremely vuggy, vague glob shapes, occ outlined by brown py at 153.5, 5% py, some fine cpy, arg.	3519		149.6	153.0	3.4	100				
153.0	154.3	1.3	100.0	Dacite breccia, mg med grey massive brittle unit with prom angular frags 0.01 to 0.05' of grey quartz vein and phenoandesite	3520		153.0	154.3	1.3	100				
154.3	159.3	5.0	100.0	Quartz vein, massive as to 153.0, vague patchy appearance, fracture fillings py also sparse in vug linings and fine disseminations, occ subtle dark grey swirls and irreg diffuse patches, poss some argentite, rare glint of cp grain, rare large vugs to 0.15', grey clay gouge in 0.2' fault @ 156.	3521		154.3	159.3	5.0	100				
159.3	164.0	4.7	100.0	Quartz vein, massive, as @ 159.3, loc very vuggy, loc bx'd & healed, colliform shapes over 0.4' @ 162 dk gre' 0.05'-0.1'										

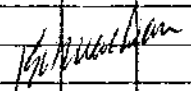
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# DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 76-2

 SHEET NUMBER 3 OF 3

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE							
							FROM	TO	WIDTH	RCVRY				
					3522		159.3	164.0	4.7	100				
164.0	169.0	5.0	100.0	Quartz vein, massive, grey and white, occ bx'd colliform masses containing argentite at 164 & 168, one is 0.2' wide, other is 0.3' plus occ strks and dissem argentite, a few strong epid-chlor alt'n zones. (specimen)	3523		164.0	169.0	5.0	100				
169.0	174.0	5.0	100.0	Quartz vein, massive, occ hly alt'd strks, occ diffuse patch & spks argentite, occ carb wh fract fillings, num sml vugs.	3524		169.0	174.0	5.0	100				
174.0	176.0	2.0	100.0	Vein zone, sheared & bx'd, healed, strong chlor & epidote, compositional layering @ 65° layers 0.02-0.10, soft but well cored, hly pyritic, 0.05' angular qv frags at L ct.	3525		174.0	176.0	2.0	100				
176.0	181.0	5.0	100.0	Quartz vein, num rems pheno dacite, with alt'd white phenocrysts 5-10% py, a few specks argentite.	3526		176.0	181.0	5.0	100				
181.0	184.0	3.0	100.0	Pheno dacite, light yellowish green grey, brittle, some silicic bx'd frags visible occ vuggy patches, 15% py, very broken & blocky.	3527		181.0	184.0	3.0	100				
184.0	188.0	4.0	90.0	Dacite, med-lt brn occ yellowish alt'd patches, a few sml qtz str.	3528		184.0	188.0	4.0	90				
	188.0			Foot of hole.										
				DRILLER: George Adam										





# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Mining Contractors Ltd. G. Adam, H. Harvey.  
 HOLE NUMBER: 76-3 LENGTH: 107.0  
 LOCATION: Chappelle DIP: -55°  
 LATITUDE: 6,623.4 DEPARTURE: 39,374.1  
 ELEVATION: 5689.7 AZIMUTH: 130°  
 HOLE STARTED: July 12, 1976 HOLE COMPLETED: July 14, 1976

ACID &/OR TRO-PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No.1 OF: 2  
 HOLE NUMBER: 76-3  
 PROPERTY: Chappelle  
 ACCOUNT No.1: 301-01  
 CORE SIZE: NQWL  
 % CORE RECOVERY:    
 LOGGED BY: K. A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY					
	0.0			Collar											
0.0	9.0			Start of core, overburden											
0.0	17.0			N casing											
9.0	32.7	23.7	87.1	Augite phenoandesite, med green, both light and dark rounded phenocrysts, num limonite coated fractures, generally @ 45°, rare 0.01 vuggy carb 60°-90°, loc heavy dissems py for 0.2', occ tuffaceous looking.											
32.7	33.3	0.6	100.0	Quartz vein, massive, crosscutting @ 20° grey white irreg dark streak in middle, some py, poss cp, rusty fract.	3529		32.7	33.3	0.6	100.0					
33.3	37.0	3.7	100.0	Augite phenodacite, occ orange felsic bands, 0.4' @ 33.3, spotted variant, dk grey blk phenos in lt brn-grey fg matrix, rusty fractures, 15% py blebs and ragged disseminations.											
37.0	42.5	5.5	75.0	Augite phenoandesite, med grey groundmass, occ light coloured bands with 0.02' dk rounded phenocrysts, rare 0.05 grey qv @ 40°, rusty fract, 10% py.	3530		37.0	42.5	5.5	100.0					
42.5	45.0	2.5	100.0	Quartz vein, 0.15' wide, wanders along core-20°, diffuse margins in a fg dacite, some shearing and 0.05" gouge evident near u ct, minor epidote, 10% py.	3531		42.5	45.0	2.5	100.0					

# DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 76-3

 SHEET NUMBER 2 OF 2

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE							
							FROM	TO	WIDTH	RCVRY				
45.0	49.0	5.0	100.0	Vein zone, altered augite phenoandesite and dacite, several 0.1' grey quartz bands, 10% py.	3532		45.0	49.0	5.0	100.0				
49.0	55.0	6.0	71.4	Vein zone, dacite porphyry, num silic bands with fine rems, med grn brn, loc bx'd & healed.	3533		49.0	55.0	6.0	71.4				
55.0	58.0	3.0	100.0	Quartz vein, massive, grey and white, occ dark streaks, epidotized patches, bx frags 57-58, uc @ 30°, occ sml vugs, py dissem & fract 5-10% sulp, minor cp?	3534		55.0	58.0	3.0	100.0				
58.0	60.3	2.3	100.0	Quartz vein, massive, as in previous entry.	3535		58.0	60.3	2.3	100.0				
60.3	63.3	3.0	100.0	Dacite, fw, sheared, hly bx'd and gouged, occ quartz str 60.2-61.0, 55°, one band 62-63.3 has dark grey strks & irreg bands @ 20°.	3536		60.3	63.3	3.0	100.0				
63.3	65.0	1.7	100.0	Fault gouge, rems dacite, qv, 55°.	3537		63.3	65.0	1.7	100.0				
65.0	70.0	5.0	85.7	Fw dacite, med grey brown, massive, brittle, rare (0.1' qv.	3538		65.0	70.0	5.0	85.7				
70.0	75.0	5.0	50.0	Dacite, as @ 70.0, no qv, L's vague @ 70°.										
75.0	84.5	9.5	96.2	Andesite, fg-mg, massive, dk grn-blk, occ bx'd appearance large frags, some vague comp'banding, pk to orange zeol filled fract 81-84, 5-10% py.										
84.5	107.0	22.5	80.2	Dacite, med-lt grn, grey, massive, commonly altered and bleached along fract 0.1', locally very vuggy and sheared as @ 92 & 97.5, num carb zeol epid fract & jt linings 99-107, pale mg py common in fract, 15% py.										
	107.0			Foot of hole.										

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# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Mining Contractors Ltd.  
 HOLE NUMBER: 76-4 LENGTH: 107.0  
 LOCATION: Chappelle DIP: -50°  
 LATITUDE: 6812.3 DEPARTURE: 39525.0  
 ELEVATION: 5715.6 AZIMUTH: 130°  
 HOLE STARTED: July 13, 1976 HOLE COMPLETED: July 14, 1976

ACID &/OR TRO - PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 2  
 HOLE NUMBER: 76-4  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: NQWL  
 % CORE RECOVERY:    
 LOGGED BY: K.A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE					
							FROM	TO	WIDTH	RCVRY		
	0.0			Collar								
0.0	18.0			Overburden, start of core 18'								
0.0	21.0			N casing								
18.0	22.0	4.0	75.0	Quartz feldspar porphyry, leached and very rusty, "core" mostly chips.								
22.0	27.0	5.0	85.7	Augite phenoandesite, core severely bx'd and alt'd, chloritic, angles vague @ 58°, num rusty fract, some silic str & bnds 15% py.								
27.0	35.0	8.0	80.2	Quartz feldspar porphyry, highly sheared and altered to clay, minor epidote, occ silicified streaks.								
35.0	62.0	27.0	72.9	Augite phenoandesite, fine-medium grained greenish fract along core to 45°, py and carb, altered pyritic cores on phenos.								
62.0	95.0	33.0	51.7	Quartz feldspar porphyry, silicic, bx'd, hly altered, fractured, limonitic, very vuggy in 70°-30° fract, mg quartz eye? texture but no good textures are distinguishable because of extreme fracturing and alteration, fault 68-77, oxidized.	3539		81.0	85.0	4.0	51.7		
95.0	107.0	12.0	53.9	Phenodacite, fg dense, brittle light grey, 5%-10% py.								

*K.A. MacLean*



# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Mining Contractors Ltd.  
 HOLE NUMBER: 76-5      LENGTH: 253.0  
 LOCATION: Chappelle      DIP: -60°  
 LATITUDE: 6812.9      DEPARTURE: 39523.8  
 ELEVATION: 5716.3      AZIMUTH: 130°  
 HOLE STARTED: July 14, 1976      HOLE COMPLETED: July 15, 1976

ACID &/OR TRO-PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 2  
 HOLE NUMBER: 76-5  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: NQWL  
 % CORE RECOVERY:        
 LOGGED BY: K.A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY				
	0.0			Collar										
0.0	16.0			Overburden, start core 16'										
0.0	19.0			N casing										
16.0	26.0	10.0	36.9	Augite phenoandesite, med grn, loc hly sheared and altered to chlorite, carb chlor frags, rusty fractures and joints.										
26.0	28.0	2.0	20.0	Fault, mud seam.										
28.0	60.0	32.0	23.6	Augite phenoandesite, med grn sheared and altered, rusty frags.										
60.0	81.0	21.0	36.7	Feldspar porphyry? brecciated, very rusty, pyritic, num frags, 15%										
81.0	107.0	26.0	4.6	Fault zone, no core recovery, grey sludge to 103, green sludge to 104, grey dacite, porphyry chips to 106.5, grn sludge to 107.0.										
107.0	111.5	4.5	88.9	Quartz feldspar porphyry, lt-med grey matrix, grey and occ pk porphyro blasts.										
111.5	123.0	11.5	0.0	Med greenish grey sludge										
123.0	170.0	47.0	44.3	Quartz feldspar porphyry, grey, occ bnd andesite to 0.5 @ 167', all chips no core.										
170.0	200.0	30.0	59.2	Augite phenoandesite, med-dk grn, chips, 6" core @ 170, mg py on frags, wh carb, zeol to 185.										

*K.A. MacLean*

# DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 76-5

 SHEET NUMBER 2 OF 2

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS									
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE											
							FROM	TO	WIDTH	RCVRY								
200.0	215.0	15.0	62.4	Quartz feldspar porphyry, med grn, locally epidotized, fragmental frags have vague corroded outlines, 25% dissem py, occ augite phenoandesite bands.														
215.0	228.0	13.0	67.8	Andesite, fg dk grn, blk fract coatings, rare indistinct light phenos or frags.														
228.0	253.0	25.0	65.3	Augite phenoandesite, medium green grey, prom dark augite, coarse dissem py, occ fract filling pk zeolite, wh carb strs @ 45°.														
	253.0			Foot of hole. No vein to this depth, probably faulted out. Set up is 137' from surface outcrop of vein.														
				DRILLERS: George Adam, Harold Harvey.														

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# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Mining Contractors G. Adam, H. Harvey  
 HOLE NUMBER: 76-6 LENGTH: 296.0  
 LOCATION: Chappelle DIP: -65°  
 LATITUDE: 6842.9 DEPARTURE: 39425.1  
 ELEVATION: 5737.6 AZIMUTH: 130°  
 HOLE STARTED: July 16, 1976 HOLE COMPLETED: July 20, 1976

ACID &/OR TRO-PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 2  
 HOLE NUMBER: 76-6  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: NOWL  
 % CORE RECOVERY:   
 LOGGED BY: K. A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE					
							FROM	TO	WIDTH	RCVRY		
	0.0			Collar								
0.0	8.0			Overburden, start of core 7.9								
0.0	12.0			N casing								
8.0	31.0	23.0	68.3	Augite phenoandesite, mg, occ cg, num limonite coated fractures @ 45°, 20°, 60°, limonite mud from 28.								
31.0	39.0	8.0	86.7	Quartz feldspar porphyry, sheared, mixed with occ augite phenoandesite bands, core coated heavily with limonite mud, occ rusty fract, prom compositional banding foliation vague to strong at 55°, chloritic alteration strong in places, py in fract 45°-60°.								
39.0	66.0	27.0	87.6	Quartz feldspar porphyry, massive, med-light grey, mg occ py fract 30°, rare alt'd bx frags to 0.07', several 0.1' mud & clay gouge @ 60°, occ silic strgs-grey, to 0.02' abrupt lower contact.								
66.0	76.0	10.0	83.3	Dacite, fine grained med brownish grey, num sml 0.005 blue grey silica strgs 5/foot.								
76.0	121.6	45.6	99.0	Augite phenoandesite, med grn with dk grn phenos angles 73°, pk zeol fract 0-50° also 0.005' carb wh fract, fine py ff, some coarse dissem in .6' bnds @ 100', occ weak fa'sic bands 10% py, sly chloritic.								

*MacLean*

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 76-6

SHEET NUMBER 2 OF 2

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY				
121.6	157.0	35.4	67.3	Quartz feldspar porphyry, med grey mg, pk & wh porphyroblasts, occ vuggy fract's @ 65° sheared 0.2' @ 147.										
157.0	160.5	3.5	77.3	Quartz feldspar porphyry, gradual change (specimen) appears sly silicified, a few sml offset str's grey qtz.										
160.5	224.0	63.5	83.6	Augite phenoandesite, verging on dacite comp, occ silic str's @ low angles locally very chloritic for 2', occ py filled 0.005' fract's and bands with ragged disseminated py 160-170, pk zeol fract's 170, blotchy orange felds flooding for 1.0' bnds 176-183.5 various compositionally and texturally different bnds.										
224.0	231.0	7.0	76.2	Quartz feldspar porphyry, med grey, clayey in part, 0.05 rounded cream alt'd por'blasts, occ bright green unidentified mineral, loc num grey qtz str's to 0.02', fract's @ 55°, pyritic, 15%.	3559		224.0	231.0	7.0	76.2				
231.0	240.6	9.6	91.6	Quartz feldspar porphyry, prom cream porphyroblasts, a few alt'd fract's, loc vuggy.										
240.6	248.6	8.0	0.0	No recovery, fault or void, (lost water return in this interval).										
248.6	254.0	5.4	98.0	Fault zone, highly sheared, brecciated and altered, epidote and chlorite in gouge with indistinct sml frags, angles vague @ 65°, occ pyritic.										
254.0	262.0	8.0	56.3	Fault gouge, clayey, with med grey bx'd frags.										
262.0	296.0	34.0	12.7	Andesite, dk grn aphanitic, blue grey surface when dry, core mainly rounded chips, occ wh carb coatings on fract's.										
	296.0			Foot of hole.										
				NOTE: Fault at 248 caused difficulty. Cemented twice, 2 bits burned off. Ground beyond did not core well after 262'. No vein intersection, apparently faulted off on this section.										

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# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Mining Contractors Ltd.  
 HOLE NUMBER: 76-7 LENGTH: 245'  
 LOCATION: Chappelle DIP: -46.5°  
 LATITUDE: 6718.0 DEPARTURE: 39266.4  
 ELEVATION: 5713.4 AZIMUTH: 130°  
 HOLE STARTED: July 20, 1976 HOLE COMPLETED: July 22, 1976

ACID &/OR TRO-PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 3  
 HOLE NUMBER: 76-7  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: NQWL  
 % CORE RECOVERY:        
 LOGGED BY: K.A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY					
	0.0			Collar											
0.0	10.0	10.0		NW casing											
	10.0			Start of core											
10.0	42.6	32.6	80.7	Augite phenoandesite, rounded and angular dark phenocrysts, bands vary in concentration of phenos, numerous rusty fractures, 45°-60°, 1' felspathic @ 22.6.											
42.6	103.0	60.4	69.7	Quartz feldspar porphyry, fg grey matrix with fine altered light coloured porphyro-blasts, loc high conc light fels, 10-15% py as dissems & occ fract fillings, rusty fract to 55' coarser grained after 58, occ 1' sheared as @ 82'.											
103.0	115.8	12.8	99.0	Augite phenoandesite, dark green fract'd, with py fillings, esp @ uct, some phenos have partial py cores, occ sml chloritic shears.											
115.8	116.5	0.7	100.0	Quartz vein @ 45°, argentite prominent, grey qtz, along a chlor shear @ 45°.	3560		115.8	116.5	0.7	100.0					
116.5	157.0	41.0	100.0	Augite phenoandesite, fg dk grn, occ pyritic bnds in dissems & strks, 1' Qfp @ 141, 1' dacitic @ 142, phenos prom last 10'.											
157.0	162.0	5.0	100.0	Augite phenoandesite prom phenos, med grn, chloritic, occ zeol fract fillings.	3561		157.0	162.0	5.0	100.0					

*K.A. MacLean*

# DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 76-7

 SHEET NUMBER 2 OF 3

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE							
							FROM	TO	WIDTH	RCVRY				
162.0	167.0	5.0	100.0	Augite phenoandesite occ 0.2' grey quartz vein, streak argentite, py in fract.	3562		162.0	167.0	5.0	100.0				
167.0	172.0	5.0	100.0	Augite phenoandesite, silicic, 40% grey gv's, loc qtz sat'd, sl'y bx'd, chlor, epid, 60% qtz, occ muddy slip 0.2', num sml carb fract @ various angles.	3563		167.0	172.0	5.0	100.0				
172.0	177.0	5.0	30.0	Augite phenoandesite, 40% quartz, sheared, last 2' muddy.	3564		172.0	177.0	5.0	30.0				
177.0	181.0	4.0	60.0	Augite phenoandesite, silicic, 50% quartz, some in bands.	3565		177.0	181.0	4.0	60.0				
181.0	186.0	5.0	100.0	Vein zone, wide bands and strgs grey quartz with dissem and strks argentite, 75-80° brownish-grey and grey remnants to 0.4'.	3566		181.0	186.0	5.0	100.0				
186.0	188.0	2.0	100.0	Vein zone, as @ 186', 1.5' alt'd rem near end of interval.	3567		186.0	188.0	2.0	100.0				
188.0	192.0	4.0	100.0	Quartz vein, massive, white and grey, prominent fused blobby texture, chloritic altered xenoliths @ 55°, a few sml diffuse argentite strks.	3568		188.0	192.0	4.0	100.0				
192.0	197.0	5.0	100.0	Vein zone, dacitic, grey brown brittle, locally quartz rich, occ bnds with dark grn blk phenos, large angular fragments in grey quartz matrix.	3569		192.0	197.0	5.0	100.0				
197.0	202.0	5.0	100.0	Vein zone, includes 1' massive grey-white quartz, poss some argentite, occ wh g v with vague cockscomb structure, a few brecciated fragments dacite, 10% py.	3570		197.0	202.0	5.0	100.0				
202.0	205.0	3.0	100.0	Vein zone, grey quartz and num bx'd frags alt'd dacite, pyritic on fract, poss some argentite strks, 1.3' fault zone @ 205.	3571		202.0	205.0	3.0	100.0				
205.0	210.0	5.0	100.0	Dacite breccia, consists of large fragments of altered light grey to brown rock vuggy pk carb fract num, shr'd @ 35-40°, first 0.4' grey mud, chlor, clay; 40% qtz.	3572		205.0	210.0	5.0	100.0				

*W. Maclean*

# DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 76-7

 SHEET NUMBER 3 OF 3

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY				
210.0	215.0	5.0	100.0	Dacite breccia, some bands quartz 45°, 10°, 0.1-0.4' contain dark grey streaks poss argentite, dacite is highly altered generally, sheared 10° @ 212.5 good cockscomb structure in a quartz band at 214, graphite(?) on some slips.	3573		210.0	215.0	5.0	100.0				
215.0	217.0	2.0	100.0	Shear zone, sheared and bx'd dacite breccia, 60% quartz, shear angle 15°, carb, chlor.	3574		215.0	217.0	2.0	100.0	0.38	0.012		
217.0	222.0	5.0	54.0	Quartz vein, massive, void filling type with cockscomb structure, although brecciated and recemented texture prevails, angles 40°-70°, dark grey-black argentite, specks and streaks; occ hly alt'd rems-chloritic and epidotitic.	3575		217.0	222.0	5.0	54.0				
222.0	227.0	5.0	100.0	Quartz vein massive white, occ small vugs dissem mg py poss some cp, argentite.	3576		222.0	227.0	5.0	100.0				
227.0	232.0	5.0	100.0	Quartz vein, massive, num sml hly alt'd rems and streaks, epidote & chlor, 5-10% py in diss strks, angles 70°-80°, some argentite, white qtz 0.3'x-ing 60°.	3577		227.0	232.0	5.0	100.0				
232.0	237.0	5.0	100.0	Q.V. massive, as @ 232.	3578		232.0	237.0	5.0	100.0				
237.0	239.7	2.7	100.0	Quartz vein, massive, num bx'd alt'd inclusions, occ fract with chlor, banded at lower ct.	3579		237.0	239.7	2.7	100.0				
239.7	245.0	5.3	90.0	Augite phenoandesite fg, altered, med grey brown, dk phenos in it brn matrix rare 0.01' qtz str @ 70°, loc bleached along fract	3580		239.7	245.0	5.3	90.0				
	245.0			Foot of hole.										
				NOTE: Used qui ctrol throughout. Broke 2 N rods in quartz section.										
				DRILLERS: G. Adam, H. Harvey.										

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# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Mining Contractors Ltd.  
 HOLE NUMBER: 76-8      LENGTH: 125'  
 LOCATION: Chappelle      DIP: -45°  
 LATITUDE: 6,597      DEPARTURE: 39,259.8  
 ELEVATION: 5,671.8      AZIMUTH: 130°  
 HOLE STARTED: July 22, 1976      HOLE COMPLETED: July 23, 1976

ACID &/OR TRO - PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 2  
 HOLE NUMBER: 76-8  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: NQWL  
 % CORE RECOVERY:        
 LOGGED BY: K. A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE						ASSAYS				
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE								
						FROM	TO	WIDTH	RCVRY						
	0.0			Collar											
0.0	11.0	11.0		NW Casing, Start of core 7'											
7.0	40.5	33.5	75.2	Augite phenoandesite, phenos vary in intensity in bands crossing core, occ felsic bands, one from 19-20, num rusty fract, occ zeolite, py ff 20° 60°, py 10-15%.											
40.5	51.5	11.0	80.0	Shear zone, muddy, chloritic, carb and zeolite near lower contact rusty fract end.											
51.5	63.0	11.5	90.0	Augite phenoandesite, med grn-dark grn chloritic, num pk zeol filled fract, occ muddy slips and sml shears 10°-40° compositional banding, angles 72° @ lower ct.											
63.0	68.0	5.0	100.0	Dacite, med brn grey, pyritic 15-25% loc bx'd & recemented.	3581		63.0	68.0	5.0	100.0					
68.0	73.0	5.0	100.0	Vein zone, hly alt'd dacite with num bands and strrs grey qtz at various low angles, prom turquoise alt'n mineral unident, 60% qtz.	3582		68.0	73.0	5.0	100.0					
73.0	78.0	5.0	100.0	Vein zone, altered dacite or augite phenoandesite, light brown, very friable highly sheared, talcy, vague 80° angles, fault zone.	3583		73.0	78.0	5.0	100.0					
78.0	82.0	4.0	100.0	Qtz vein massive, grey & white, loc num sml vugs, dk silica strks "zebra stripes" to 0.01' 50°, argentite 2%.	3584		78.0	82.0	4.0	100.0					

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 76-8

SHEET NUMBER 2 OF 2

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE							
							FROM	TO	WIDTH	RCVRY				
82.0	83.8	1.8	100.0	Qtz vein massive, grey & white, 5% cpy, 3% py as dissems and fracture fillings, very strong cp, 2-3% argentite.	3585		82.0	83.8	1.8	100.0				
83.8	89.0	5.2	100.0	Qtz vein, massive grey & white, vague subangular brecciated blobs, vuggy, with py, dk grey partial dendritic pattern amongst frags, arg.	3586		83.8	89.0	5.2	100.0				
89.0	92.0	3.0	100.0	Qtz vein dark grey, pyritic, bx'd silica and alt'd talcy material arg?.	3587		89.0	92.0	3.0	100.0				
92.0	93.0	1.0	100.0	Quartz vein, massive, grey, 5-7% cp, Argentite 3%.	3588		92.0	93.0	1.0	100.0				
93.0	95.4	1.4	100.0	Quartz vein, grey and white, dissem py, some cp, arg?	3589		93.0	95.4	2.4	100.0				
95.4	97.0	1.6	100.0	Quartz vein, prom large bx frags qtz, subangular in dk matrix of silica, occ vugs with py, 15-20% py, 5% cp in dissems and ff, argentite 2-5%.	3590		95.4	97.0	1.6	100.0				
97.0	102.0	5.0	100.0	Quartz vein massive, white highly altered streaks, loc vuggy.	3591		97.0	102.0	5.0	100.0				
102.0	108.0	6.0	100.0	Quartz vein massive white, rare 0.05' chloritic alt'd bnd, loc vuggy, 5% py.	3592		102.0	108.0	6.0	100.0				
108.0	113.0	5.0		Quartz vein, massive, white, occ altered rems, some talcy, med grey, first foot grey fault gouge with silicic fragments.	3593		108.0	113.0	5.0	100.0				
113.0	118.5	5.5		Quartz vein, massive, white, as @ 108.0	3594		113.0	118.5	5.5	100.0				
118.0	121.0	3.0		Vein zone, dacite, altered, med grey with talcy and chloritic bands, num bands & strrs white quartz 45°-55°, 5-15% py, 50% quartz.	3595		118.0	121.0	3.0	100.0				
121.0	125.0			Dacite, med brown, brittle, altered along fractrs, loc muddy shears to 0.4'.	3596		121.0	125.0	4.0					
	125.0			Foot of hole.										
				NB: Ran quiktrd throughout. Slow going through quartz.										

*M. M. Miller*

# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Mining Contractors Ltd.  
 HOLE NUMBER: 76-9 LENGTH: 181.0  
 LOCATION: Chappelle DIP: -69°  
 LATITUDE: 6597.0 DEPARTURE: 39,257.8  
 ELEVATION: 5671.8 AZIMUTH: 130°  
 HOLE STARTED: July 23, 1976 HOLE COMPLETED: July 26, 1976

ACID &/OR TRO - PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 3  
 HOLE NUMBER: 76-9  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: NQWL  
 % CORE RECOVERY:    
 LOGGED BY: K. A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE						
						FROM	TO	WIDTH	RCVRY				
	0.0			Collar									
0.0	5.0			Overburden, start of core 5.0									
0.0	11.0			NW casing									
5.0	16.0			Augite phenoandesite, med grn, pyritic in fract 15-20%, occ compositional and texturally distinct bands to about 2'.									
16.0	17.0			Silicic, quartz rich band, contains breccia fragments altered augite phenoandesite.	3597		16.0	17.0	1.0				
17.0	37.0			Andesite, aphanitic dark green, num narrow pyritic fractures, 1.5' felsitic band @ 32', num small rusty fract at various angles, 10% py.									
37.0	64.0			Augite phenoandesite, dark green chloritic, occ 1.2' felsic bands, at 54', 57', num small chloritic slips around 45°, occ carb wh ff, 10-25% pyrite.									
64.0	71.0			Dacite, bx'd & recemented, med green grey, altered, chloritic, carbonate and quartz, num sml muddy chloritic slips, occ pk zeol ff, 0.5' gouge at end, 10% pyrite.									
71.0	87.0			Augite phenoandesite, loc hly shr'd, chloritic mud in several									

*K. A. MacLean*

# DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 76-9

 SHEET NUMBER 2 OF 3

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS								
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE										
							FROM	TO	WIDTH	RCVRY							
				places, occ wh carb filled fract, 2" gouge and earthy breccia @ lower contact, pyrite 15%.													
87.0	92.0			Dacite, med grey, massive, brittle, occ augite phenos in bands, vague 0.2' fragment outlines, num pk-orange zeolite filled fract, pyritic in dissems & fract, 15%, quartz 15%.													
92.0	97.0	5.0	100.0	Dacite, med grey, occ bnd augite phenoandesite, some phenos with py cores, occ grey and white quartz str, @ various angles, occ bx'd, healed appearance, pyritic, 10%, 20% quartz.	3598		92.0	97.0	5.0	100.0							
97.0	102.0	5.0	83.3	Dacite, as @ 97, sheared, chloritic at end of entry, earthy friable gouge pyritic 10%, 20% qtz.	3599		97.0	102.0	5.0	83.3							
102.0	106.0	4.0	50.0	Dacite, sheared and altered, num sml silicic str	3600		102.0	106.0	4.0	50.0							
106.0	111.0	5.0	33.8	Fault zone, no recovery.													
111.0	116.0	5.0	21.4	Dacite, highly altered, phenos chloritic, earthy, bx frags in chloritic matrix, 20% silica.	3451		111.0	116.0	5.0	21.4							
116.0	121.0	5.0	80.0	Dacite, highly altered, sheared, num alt'd phenos, as @ 116, 20% quartz.	3452		116.0	121.0	5.0	80.0							
121.0	126.0	5.0	80.0	Dacite, as @ 121, 20% quartz, highly broken core.	3453		121.0	126.0	5.0	80.0							
126.0	131.0	5.0	100.0	Dacite, slightly less altered, 0.5' grey quartz vein, bright orange zeol(?) on some fract faces, hly broken core.	3454		126.0	131.0	5.0	100.0							
131.0	136.0	5.0	73.9	Augite phenoandesite, med grn, dk phenos, chloritic, 10% quartz.	3455		131.0	136.0	5.0	73.9							
136.0	139.0	3.0	98.0	Augite phenoandesite, dark chloritic phenos.	3456		136.0	139.0	3.0	98.0							
139.0	144.0	5.0	100.0	Dacite, aphanitic, med brn, grey quartz veins vague bx appearance, hard and brittle, 10% SiO <sub>2</sub> .	3457		139.0	144.0	5.0	100.0							
144.0	149.0	5.0	95.0	Dacite, as @ 144, 50% SiO <sub>2</sub> , altered and bleached along fract.	3458		144.0	149.0	5.0	95.0							
149.0	154.0	5.0	66.0	Dacite, med grey, siliceous, bands and str grey quartz, sheared													

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# DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 76-9

 SHEET NUMBER 3 OF 3

FOOTAGE				DESCRIPTION	SAMPLE						ASSAYS								
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE												
							FROM	TO	WIDTH	RCVRY									
154.0	159.0	5.0	69.9	and fractured. Quartz, massive, grey, chalcopyrite and a few wisps and specks argentite.	3459		149.0	154.0	5.0	66.0									
					3460		154.0	159.0	5.0	69.9									
159.0	164.0	5.0	80.0	Quartz vein, massive white, some grey, prom argentite in wisps and specks, py smears, 1-3% dissem cp.	3461		159.0	164.0	5.0	80.0									
164.0	169.0	5.0	60.0	Quartz vein, massive grey, num alt'd rems, chloritic carbonate fracts, some zeol, 85% SiO <sub>2</sub> .	3462		164.0	169.0	5.0	60.0									
169.0	171.6	2.6	100.0	Quartz vein chloritic rems more prominent, 75% SiO <sub>2</sub> , some pk carb and zeol fract fillings.	3463		169.0	171.6	2.6	100.0									
171.6	176.6	5.0	100.0	Augite phenoandesite, carb fracts @ 80°, chloritic, very fine- grained groundmass, sml blk phenos, 5% py.	3464		171.6	176.6	5.0	100.0									
176.6	181.0	4.4	22.7	Augite phenoandesite, dark green-grey, zeolite fract fillings and py smears 10%.	3465		176.6	181.0	4.4	22.7									
	181.0			Foot of hole.															
				NB: Ran mud and quicktrol throughout.															
				DRILLERS: G. Adam, H. Harvey.															



# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Mining Contractors Ltd.  
 HOLE NUMBER: 76-10 LENGTH: 171.0  
 LOCATION: Chappelle DIP: -65°  
 LATITUDE: 6,741.9 DEPARTURE: 39463.0  
 ELEVATION: 5,709.5 AZIMUTH: 130°  
 HOLE STARTED: July 24, 1976 HOLE COMPLETED: July 25, 1976

ACID &/OR TRO-PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 3  
 HOLE NUMBER: 76-10  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: NQWL  
 % CORE RECOVERY:        
 LOGGED BY: K. A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE					
							FROM	TO	WIDTH	RCVRY		
	0.0			Collar								
0.0	9.0			Overburden, start of core 9.0'								
0.0				NW casing								
9.0	17.5			Augite phenoandesite, med grn, fg, andesitic sheared, 1.3' mud and silicic breccia @ 14 rusty fract, pyritic, offset fract.								
17.5	41.5			Quartz feldspar porphyry, med grey mg. pk porphyroblasts feldspar, occ pyritic fracture fillings, round quartz eyes, massive.								
41.5	56.5			Augite phenoandesite, highly altered and talcy, rusty fract and strks to 0.05', lower contact 45°(?).								
56.5	79.0			Quartz feldspar porphyry, light grey, fine white and occ pk porphyroblasts, rare faint dark grey fract fillings.								
79.0	92.0			Quartz feldspar porphyry, coarser grained and darker than above, generally more altered appearance, chloritic, loc talcose.								
92.0	100.0			Andesite, dark grey, altered, local variations in grain size and composition, sly altered.								
100.0	101.0	1.0	100.0	Andesite, as @ 100.0, one 0.03' bnd grey qtz with py, small vugs, one sml irreg strk qtz wh 0.01', 25°, 40% qtz.	3466		100.0	101.0	1.0	100.0		

*K. A. MacLean*

# DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 76-10

 SHEET NUMBER 2 OF 3

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE							
							FROM	TO	WIDTH	RCVRY				
101.0	105.6	4.6	84.3	Augite phenoandesite, variable composition, siliceous.	3467		101.0	105.6	4.6	84.3				
105.6	111.6	6.0	100.0	Augite phenoandesite, as @ 105.6, rare silicic band.	3468		105.6	111.6	6.0	100.0				
111.6	116.6	5.0	90.0	Augite phenoandesite, prom blk augite phenocrysts with pyrite cores, one 0.5' grey and white quartz band @ 111.8 @ 15°.	3469		111.6	116.6	5.0	90.0				
116.6	121.6	5.0	60.0	Augite phenoandesite, med-dk grn with occ 0.01 silic strcs, 0.4' muddy chloritic shear @ 50° @ 117' & 118'.	3470		116.6	121.6	5.0	60.0				
121.6	122.6	1.0	100.0	Fault, muddy, clay gouge, 50°.										
122.6	124.0	2.4	100.0	Quartz vein, grey, with argentite, included in fault gouge, 0.4' qtz., 0.4' gouge, 0.3' qtz.	3471		121.6	124.0	2.4	100.0				
124.0	126.0	2.0	83.3	Quartz feldspar porphyry, altered, grey with white porphyroblasts and grey siliceous streaks, angles in veins vary widely, some fault displacement 15% py.	3472		124.0	126.0	2.0	83.3				
126.0	130.0	4.0	83.3	Quartz feldspar porphyry, occ silica streaks, 55°-35°, 15% pyrite.	3473		126.0	130.0	4.0	83.3				
130.0	133.0	3.0	83.3	Quartz feldspar porphyry, altered white patches, silicic streaks to 0.01', cream porphyroblasts, somewhat clay altered, 55° fol, silica x-cut @ 30, 15% py.	3474		130.0	133.0	3.0	83.3				
133.0	135.5	2.5	100.0	Quartz vein, mainly highly altered remnants of qfp healed by 0.05' bands and irreg patches grey to white quartz which forms a breccia matrix, remnants are light cream to white, mg. Py in fracts, some small wisps poss argentite. Quartz bands @ 45°, 35' @ 133, .2' @ 133.6. Interval is 50% quartz, 0.05' gouge & 37° @ lower ct.	3475		133.0	135.5	2.5	100.0				
135.5	140.0	4.5	100.0	Quartz feldspar porphyry, abundance of fresh pk felds porphyro- blasts to 0.005', occ mosaic texture, py 20% dissem, minor ff py										

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# DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 76-10

 SHEET NUMBER 3 OF 3

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY				
				.005', rare sml qtz strk.	3476		135.5	140.0	4.5	100.0				
140.0	143.0	3.0	95.6	Quartz feldspar porphyry breccia, altered brecciated and healed, a few irreg bx frags gray quartz to 0.1' subrounded to sub- angular, feldspars are altered to clay.	3477		140.0	143.0	3.0	95.6			*	
143.0	146.6	3.6	90.5	Quartz feldspar porphyry, med greenish grey, cream and white feldspar in altered matrix.	3478		143.0	146.6	3.6	90.5				
146.6	151.0	4.4	100.0	Dacite? med grn, finer grained variant than @ 146.6, fine porphyroblasts, a few silicic strcs crossing @ 65°, 0.01' occ with mg py, oxidized, lower contact 60°?	3479		146.6	151.0	4.4	100.0				
151.0	156.0	5.0	100.0	Quartz feldspar porphyry, med grey to med green, f-mg, white felds, dissem py 15%.	3480		151.0	156.0	5.0	100.0				
156.0	163.6	7.6	100.0	Quartz feldspar porphyry, as above.										
163.6	171.0	7.4	100.0	Andesite, fg dk green blk chloritic, 20% dissem py, aphanitic, occ bright green chlorite fract and slip faces.										
	171.0			Foot of hole.										
				NB: #3478 * assayed with #3477 (broken bag).										
				DRILLERS: G. Adam, H. Harvey.										
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# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Mining Contractors Ltd.  
 HOLE NUMBER: 76-11 LENGTH: 181.0'  
 LOCATION: Chappelle DIP: -48°  
 LATITUDE: 6537.3 DEPARTURE: 39,171.0  
 ELEVATION: 5654.4 AZIMUTH: 130°  
 HOLE STARTED: July 26, 1976 HOLE COMPLETED: July 26, 1976

ACID &/OR TRO-PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 3  
 HOLE NUMBER: 76-11  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: NQWL  
 % CORE RECOVERY:        
 LOGGED BY: K. A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY				
	0.0			Collar										
0.0	23.0			Overburden, start of core 27'.										
0.0	27.0			NW casing										
27.0	81.0			Augite phenoandesite, med-dk grn, various bands with differences in number and size of phenos and texture, local fractures and small shears to 0.1' usually with carbonate, red oxide coating on fract's intense to 68', light 68-72, num pk zeol & carb ff, 50°, 72-81, occ chlor and epidote alt'd zone.										
81.0	86.0	5.0	100.0	Augite phenoandesite, med grn, chloritic, rare grey quartz vein, mg py str.	3481		81.0	86.0	5.0	100.0				
86.0	88.0	2.0	100.0	Quartz vein, grey, mg, num rems hly chloritic, 5% py, poss some cp, looks bx'd, poss some dissem argentite, lower contact 55°, 0.2' chloritic shear @ 87.5.	3482		86.0	88.0	2.0	100.0				
88.0	91.6	3.6	100.0	Augite phenoandesite, med grn chloritic, rare sml silicic fract filling.	3483		88.0	91.6	3.6	100.0				
91.6	92.6	1.0	100.0	Qv, massive grey quartz, a few small wisps argentite, minor cp L contact bx'd, 45°.	3484		91.6	92.6	1.0	100.0				

*K. MacLean*

# DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 76-11

 SHEET NUMBER 2 OF 3

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE							
							FROM	TO	WIDTH	RCVRY				
92.6	94.0	1.4	100.0	Augite phenoandesite, small chloritic shears.	3485		92.6	94.0	1.4	100.0				
94.0	94.6	0.6	100.0	Quartz vein, massive, grey, 5-10% argentite, 2% cp.	3486		94.0	94.6	0.6	100.0				
94.6	99.0	4.4	71.4	Augite phenoandesite, bleached bands, dacitic bands to 0.5', prom offset along shear 0.2' wide @ 96.0, chloritic gouge, one 0.2' grey quartz vein @ 55° @ 98.0, pk zeol and carb fract fillings.	3487		94.6	99.0	4.4	71.4				
99.0	104.0	5.0	82.0	Augite phenoandesite, loc fractured, a few 0.02' grey quartz fract fillings @ 45°-20°.	3488		99.0	104.0	5.0	82.0				
104.0	109.5	5.5	100.0	Augite phenoandesite, phenos less prominent, num pk zeol filled fracts, py 15%, some chlor and epidote in fracts, mainly 45° to 0.005'.	3489		104.0	109.5	5.5	100.0				
109.5	113.5	4.5	100.0	Augite phenoandesite, silicified, num streaks and bands grey quartz, loc bx'd and healed, prom vugs, bleached, contacts 20°, w2 py prom as fract fillings, clots chlor, poss a few wisps argentite.	3490		109.5	113.5	4.5	100.0				
113.5	117.5	4.0	100.0	Vein zone, 2 x 0.7' bands grey quartz as a breccia matrix enclosing hly altered light grey green remnants, some dark grey quartz, 5% py, rare argentite & cp.	3491		113.5	117.5	4.0	100.0				
117.5	120.0	2.5	100.0	Quartz vein, three 0.3' highly altered rems in grey to white quartz, 5% diss py, angles 50°, rare argentite, some white carb specks.	3492		117.5	120.0	2.5	100.0				
120.0	123.0	3.0	100.0	Dacite, silicified, med-lt grey green, massive, a few 0.1' grey silicic bands @ 50° rare thin dark faced chlor strrs @ 40°-30° appear to be related to silicic bands, occ zeol ff @ 40°.	3493		120.0	123.0	3.0	100.0				

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# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 76-11

SHEET NUMBER 3 OF 3

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE							
							FROM	TO	WIDTH	RCVRY				
123.0	128.0	5.0	100.0	Dacite, as @ 123.0 silica flooded band @ 125' with later grey 0.01' vein x cutting 45°, occ pyrite filled fract to 0.01'.	3494		123.0	128.0	5.0	100.0				
128.0	145.0	17.0	100.0	Dacite, med green to grey vuggy carb and zeol fract fillings, 30° @ 55° @ 132, .3' fault gouge @ 140, 141, 143, 145.5, occ faint dark phenos.										
145.0	150.0	5.0	100.0	Dacite, as @ 145.0	3495		145.0	150.0	5.0	100.0				
150.0	154.0	4.0	100.0	Quartz vein, very prominent breccia texture with rounded to subangular dark quartz fragments to 0.07' in white matrix, a few srks py, poss some argentite.	3496		150.0	154.0	4.0	100.0				
154.0	159.0	5.0	100.0	Augite phenoandesite, dacitic bands to 0.04' num carb and pk zeol filled fract, some vuggy, 30°-0°, 0.001'-0.005', moderately fractured, occ dk grn-blk aphanitic.	3497		154.0	159.0	5.0	100.0				
159.0	165.0	6.0	74.3	Augite phenoandesite, as @ 159, core highly broken.	3498		159.0	165.0	6.0	74.3				
165.0	181.0	16.0	79.0	Andesite, dk green blk, occ 0.05' carb qtz along fract, core highly broken aphanitic with occ vague phenocrysts.										
	181.0			Foot of hole.										
				DRILLERS: G. Adam, H. Harvey.										

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# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Mining Contractors Ltd.  
 HOLE NUMBER: 76-12 LENGTH: 152.0  
 LOCATION: Chappelle DIP: -52°  
 LATITUDE: 6,390.8 DEPARTURE: 39,037.6  
 ELEVATION: 5,644.5 AZIMUTH: 130°  
 HOLE STARTED: July 27, 1976 HOLE COMPLETED: July 27, 1976

ACID &/OR TRO-PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 2  
 HOLE NUMBER: 76-12  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: NQWL  
 % CORE RECOVERY:    
 LOGGED BY: K. A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY					
	0.0			Collar											
0.0	7.0	7.0		Overburden, start of core 5.0											
0.0	7.0	7.0		NW casing											
5.0	62.0	57.0		Augite phenoandesite, med grey, various colour and textural differences, size of phenos varies, most are augite, faulted 26-27, otherwise highly fractured with heavy oxide coatings, occ open vuggy fract's, bleached 42-54.											
62.0	67.0	5.0	83.9	Augite phenoandesite, med green altered, fract's @ 40°, numerous zeolite filled, occ vuggy, occ bx'd appearance.	3499		62.0	67.0	5.0	83.9					
67.0	72.0	5.0	95.6	Dacite breccia, large fragments of augite phenoandesite dacite, andesite in siliceous matrix, apparent displacement along some 0.01' fract's.	3500		67.0	72.0	5.0	95.6					
72.0	77.0	5.0	93.4	Dacite, highly silicified med to light green grey, occ vague augite phenoandesite band to 0.2', several clay quartz bands and stringers, 50% SiO <sub>2</sub> .	3301		72.0	77.0	5.0	93.4					

*K. A. MacLean*

# DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 76-12

 SHEET NUMBER 2 OF 2

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS							
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE									
							FROM	TO	WIDTH	RCVRY						
77.0	82.0	5.0	100.0	Quartz vein, massive, 3' sections are brecciated grey to white quartz with highly altered remnants, locally very vuggy, some faint streaks and wisps argentite, dissem and sml ff py 5% rare cp.	3302		77.0	82.0	5.0	100.0						
82.0	88.0	6.0	97.6	Quartz vein, brecciated, completely altered rems @ 40°, dissem and ff py, rare cp vague wisps argentite.	3303		82.0	88.0	6.0	97.6						
88.0	93.0	5.0	95.0	Dacite, med grn, pyritic 10-15%, rare silicic strrs, looks bx'd & healed @ 95.	3304		88.0	93.0	5.0	95.0						
93.0	99.0	6.0	76.9	Andesite, massive, med grn, fractrs @ various angles to 45°.	3305		93.0	99.0	6.0	76.9						
99.0	103.0	4.0		Fault zone 17°, dark pyritic gouge, tight, andesitic.												
103.0	112.0	9.0		Dacite, massive, med grey, core is mainly chips, mud fault gouge 106-112.												
112.0	120.0	8.0		Andesite, dark green massive, chips.												
120.0	126.0	6.0		Dacite, med green grey, chips.												
126.0	152.0	26.0		Andesite, dark green, fairly massive num pk zeol and wh carb fract fillings @ various angles, light oxide coatings 148.6-152, 2' fault zone 129'.												
	152.0			Foot of hole.												
				DRILLERS: G. Adam, H. Harvey												

*[Handwritten signature]*



# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Mining Contractors Ltd.  
 HOLE NUMBER: 76-13 LENGTH: 126.0  
 LOCATION: Chappelle DIP: -75°  
 LATITUDE: 6390.8 DEPARTURE: 39034.6  
 ELEVATION: 5644.0 AZIMUTH: 130°  
 HOLE STARTED: July 28, 1976 HOLE COMPLETED: July 28, 1976

ACID &/OR TRO-PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 1  
 HOLE NUMBER: 76-13  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: \_\_\_\_\_  
 % CORE RECOVERY: \_\_\_\_\_  
 LOGGED BY: K. A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE						
							FROM	TO	WIDTH	RCVRY			
	0.0			Collar									
0.0	3.0	3.0		Overburden, start of core 3.0									
3.0	7.0	7.0		NW Casing									
3.0	39.0	36.0		Augite phenoandesite, moderately fractured, fault 29-31, heavy oxide, fractured 40 to 41 @ 40°, 38-52 grey dacite, oxide coated frags to 46, sand and pea sized gravel 48-52.									
39.0	123.0	84.0		Augite phenoandesite, massive med grn. prom pk fract coatings @ .2' intervals.									
123.0	126.0	3.0		Sand fault.									
	126.0			Hole abandoned.									
				NB: Bit broke off in sand fault. An attempt was made to use a tap to retrieve the bit but the attempt was not successful.									
				DRILLERS: G. Adam, H. Harvey.									

*K. A. MacLean*

# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Contractors Ltd. M. Grexton  
 HOLE NUMBER: 76-U-1 LENGTH: 43.0  
 LOCATION: Chappelle DIP: 0°  
 LATITUDE: 6433.7 DEPARTURE: 39,179.2  
 ELEVATION: 5507.5 AZIMUTH: 130°  
 HOLE STARTED: July 7, 1976 HOLE COMPLETED: July 10, 1976

ACID &/OR TRO-PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 3  
 HOLE NUMBER: 76-U-1  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: IEX  
 % CORE RECOVERY:        
 LOGGED BY: K. A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY				
	0.0			Collar										
0.0	2.0	2.0	75.0	Augite phenoandesite, med green gry, loc abundant pk zeolite filled fracts 0.005', 30°-45°, one 0.1' grey to white quartz vein, vuggy with strks mg py, occ grey euhedral feldspar, 3% py.										
2.0	4.0	2.0	50.0	Augite phenoandesite, silicic, one 0.005 zeol ff @ 20°, 60° silic, med grey quartz strks, fg pale py & fine ff, 10% py.	3506		0.0	4.0	4.0	62.5				
4.0	6.0	2.0	70.0	Silicic augite-phenoandesite, 80% grey qtz strs, occ bnd 0.2' original rock, vague ct, strks py & occ fract fillings, 10%.										
6.0	8.0	2.0	85.0	Augite phenoandesite, occ pk zeol ff, occ bnd mg fels phenos, euhedral rare 0.05' grey qtz str, some dk chlor on sml shr faces 50°-70°.	3507		4.0	8.0	4.0	77.5				
8.0	10.0	2.0	35.0	Vein material, one 0.1' grey white massive qtz str @ 5° at start one 0.2' chlor, zeol, pk fels & silica band with large vugs occ dissem and fract fillings mg, py, 20% py 80% SiO <sub>2</sub> .										
10.0	12.0	2.0	55.0	Augite phenoandesite, silicified prom bnds grey fels phenos, chlor bands and 0.01-0.1 grey qtz strs, occ orange pk zeol ff.										

*K.A. MacLean*

## DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 76-U-1

SHEET NUMBER 2 OF 3

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS										
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE												
							FROM	TO	WIDTH	RCVRY									
12.0	13.0	1.0	30.0	strks coarse dissem & minor ff py 10-15%, Dacitic 0.01' bnd, 50% quartz.	3508		8.0	12.0	4.0	45.0									
13.0	15.0	2.0	27.5	Vein material, chlorite and silica strs, bx'dacitic, 0.01 wh carb and pk zeol, 60% Qtz, 10% coarse dissem py.															
13.0	15.0	2.0	27.5	Pheno andesite, little remaining original Tx, chlor carb and grey quartz, 25% coarse dissem py, 15% quartz.															
15.0	17.0	2.0	30.0	Augite phenoandesite, distinct & vague dark green rounded phenos chloritic & quartz bnds & strks, local heavy dissem f-mg py 20% py 15% quartz.	3509		12.0	17.0	5.0	28.3									
17.0	19.0	2.0	85.0	Augite phenoandesite, looks tuffaceous, light grey carb-silica matrix chloritic shears py replacing some phenos, wavy contact. @ 37.5° with dk chloritic bnd, occ 0.01' pk carb strs.															
19.0	21.0	2.0	90.0	Augite phenoandesite altered by silicification 10-20%, chloritization 10%, epidotization 15%. Pk-orange feldspar in last 3'. Has tuffaceous appearance, occ strs with vuggy white carb and pk zeol @ 0°, 45° minor py in fz dissem in darker portions.	3510		17.0	21.0	4.0	87.5									
21.0	23.0	2.0	40.0	Vein material 60%. Augite phenoandesite rem either dacitic or general silicification & some 0.05' grey Qtz strs, chlor altn along fracts & in darker portions, dark orange fels, zeol & carb fracts.															
23.0	25.0	2.0	70.0	Dacite, generally weak purplish med grey, occ light grey and dark green phenos num narrow quartz strs, minor chlorite, prom mg py 30-40%, 50% quartz.	3511		21.0	25.0	5.0	55.0									
25.0	27.5	2.5	40.0	Dacite, as to 25.0, broken and healed angular light purplish grey fragments in dark green chloritic matrix, some alt'd dk															

*J. M. Mather*

# DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 76-0-1

 SHEET NUMBER 3 OF 3

FOOTAGE				DESCRIPTION	SAMPLE						ASSAYS						
FROM	TO	WIDTH	RCVRT		NUMBER	% SULFIDES	FOOTAGE										
							FROM	TO	WIDTH	RCVRT							
				phenos occ 0.005' orange pk zeol ff loc heavy dissem & ff loc & fg py, all sml chunks, 25% py.													
27.5	28.4	0.7	100.0	Dacite, as @ 27.5 sheared and bx'd pk and orange zeol & carb alt'n, some pk feldspar poss some argentite associated with 0.01' quartz strs, 10% dissem and ff mg pale py.	3512		25.0	28.4	3.4	70.0							
28.4	30.8	2.4	100.0	Quartz vein, massive grey to white, contains num chlorite strks and patches @ 30°, several 0.01-0.05 offsets, blobby diffuse bordered quartz, healed breccia in some cases, occ dendritic patches, light brown to pale amber carbonate, 3% argentite in small irreg patches, especially 29.2-29.4, fine fract fillings pyrite, occ large sml vugs, 5% py.	3513		28.4	30.8	2.4	100.0							
30.8	33.0	2.2	78.5	Quartz vein, massive, grey white, blobby coagulated texture, locally vuggy, vugs to 0.05' occ sml spk argentite, esp @ upper contact. Less chloritic & not as remnant ridden as to 30.8.	3514		30.8	33.0	2.2	78.5							
33.0	35.0	2.0		Dacite? med grey massive fg, dense & brittle, diffuse light grey alteration along some fract, occ sml qtz strs carry py poss some cp.													
35.0	37.0	2.0		Dacite? med purplish grey massive, sly foliated texture, altered along healed fractures pyritic in blebs and ff cont fg pale py 15%, 0.15' bx'd and carb alt'd end entry.	3515		33.0	37.0	4.0	42.5							
37.0	43.0	6.0		Dacite, purplish grey massive, brittle, as @ 37.0 core hly broken & shattered, poss fw fault.	3516		37.0	43.0	6.0	16.0							
	43.0			Foot of hole.													
				CONSIDERABLE DIFFICULTY WITH BLOCKY GROUND AND CAVE													

*W. M. ...*

# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Contractors Ltd.  
 HOLE NUMBER: 76-U-2      LENGTH: 25.0  
 LOCATION: Chappelle      DIP: + 2°  
 LATITUDE: 6434.7      DEPARTURE: 39,180.1  
 ELEVATION: 5508'      AZIMUTH: 310°  
 HOLE STARTED: July 8, 1976      HOLE COMPLETED: July 8, 1976

## ACID &/OR TRO-PARI TESTS

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 1  
 HOLE NUMBER: 76-U-2  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: IEX  
 % CORE RECOVERY:    
 LOGGED BY: K.A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY				
	0.0			Collar										
0.0	10.0	10.0	75.0	Augite phenoandesite, med grn mg dissem & ff mg py, occ sml qtz vein, occ zeol & carb ff @ random angles 15-20% py.	3540		0.0	10.0	10.0	75.0				
10.0	12.0	2.0	69.0	Quartz vein, massive white, occ sml rems augite phenoandesite near contacts, occ vuggy, sparse py on fract, min r dissem py.	3541		10.0	12.0	2.0	69.0				
12.0	17.0	5.0	76.0	Augite phenoandesite, local vague appearance with colour and texture differences due to grain size and amount of silica, pk carb and zeolite fracture fillings 40°.	3542		12.0	17.0	5.0	76.0				
17.0	25.0	8.0	65.0	Augite phenoandesite, mg, py in cores of phenocrysts										
	25.0			Foot of hole.										
				NOTE: CONSIDERABLE DIFFICULTY WITH CAVE AND BLOCKY GROUND.										
				DRILLER: Merv Greston										

*K.A. MacLean*

# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Mining Contractors Ltd.  
 HOLE NUMBER: 76-U-3      LENGTH: 51.0'  
 LOCATION: Chappelle      DIP: + 35°  
 LATITUDE: 6436.7      DEPARTURE: 39,171.5  
 ELEVATION: 5510.0      AZIMUTH: 130°  
 HOLE STARTED: July 9, 1976      HOLE COMPLETED: July 10, 1976

ACID &/OR TRO - PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 2  
 HOLE NUMBER: 76-U-3  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: IEX  
 % CORE RECOVERY: .  
 LOGGED BY: K. A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY				
	0.0			Collar										
0.0	6.0	6.0	61.7	Augite phenoandesite, silicic, mg med grn to grey-grn, 10% py rare sml grey qtz strrs to 0.02' along core, occ pk zeol fract fillings along core.	3551		0.0	6.0	6.0	61.7				
6.0	12.0	6.0	35.0	Augite phenoandesite, as to 6.0 0.1' grey qv at 8.6 10% py.	3552		6.0	12.0	6.0	35.0				
12.0	16.8	4.8	75.0	Augite phenoandesite, f-mg med grn occ 0.05' grey quartz strrs, some py in dk phenos 10% py.										
16.8	24.0	7.2	45.0	Augite phenoandesite, several light coloured cg bnds with 70% + quartz, occ shears, rare pk zeolite filled fractures, 50% quartz overall, 15% mg py in fract fillings.	3553		12.0	24.0	12.0	60.0				
24.0	29.5	5.5	85.0	Augite phenoandesite, 20° carb-qtz fract fillings 0.05' @ 27.5, sheared chloritic last 1.5'.	3554		24.0	29.5	5.5	85.0				
29.5	33.0	4.5	73.0	Quartz vein massive, grey-white, occ vuggy along fractrs, py mg along 0.01' fractrs @ 45°, occ dk strks & sml irreg bnd argentite minor dissen py rare sml chloritic remss to 0.05	3555		29.5	33.0	3.5	73.0				
33.0	37.0	4.0	30.0	Quartz vein, massive, grey and white, loc sml vugs in fractrs, 10% py, occ alt'd remss, arg't.	3556		33.0	37.0	4.0	30.0				

*K. A. MacLean*



# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Contractors Ltd.  
 HOLE NUMBER: 76-U-4      LENGTH: 23.0  
 LOCATION: Chappelle      DIP: +2°  
 LATITUDE: 6673.5      DEPARTURE: 39353.0  
 ELEVATION: 5433.0      AZIMUTH: 130°  
 HOLE STARTED: July 11, 1976      HOLE COMPLETED: July 11, 1976

ACID &/OR TRO-PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 1  
 HOLE NUMBER: 76-U-4  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: IEX  
 % CORE RECOVERY:        
 LOGGED BY: K. A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE					
							FROM	TO	WIDTH	RCVRY		
	0.0			Collar								
0.0	3.0	3.0		Dacite, fg, med brn, brittle num fg light grey-white qtz strcs, some surround bx'd dacite frags, 50% qtz.	3543		0.0	3.0	3.0	65.0		
3.0	8.0	5.0		Dacite, brownish green, occ bnds augite phenodacite with dark phenocrysts with pyritic cores, occ qtz veinlets to 0.01'75°, 15-20% py.	3544		3.0	8.0	5.0	72.0		
8.0	23.0	15.0		Phenodacite, brown, occ py strcs & disseminations, local epidote, minor chlorite.								
	23.0			Foot of hole								
				NOTE: Blocky ground								
				DRILLER: Merv Grexton								

*K. A. MacLean*



# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Contractors Ltd.  
 HOLE NUMBER: 76-U-5 LENGTH: 24.0'  
 LOCATION: Chappelle DIP: +2°  
 LATITUDE: 6678.0 DEPARTURE: 39,348.0  
 ELEVATION: 5433.0 AZIMUTH: 310° + 2°  
 HOLE STARTED: July 12, 1976 HOLE COMPLETED: July 12, 1976

ACID &/OR TRO - PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 1  
 HOLE NUMBER: 76-U-5  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: IEX  
 % CORE RECOVERY:    
 LOGGED BY: K. A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS							
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE									
							FROM	TO	WIDTH	RCVRY						
	0.0			Collar												
0.0	4.0	4.0	30%	Quartz vein, massive, green chlor strks, poss fine dissem argen- tite, minor py dissems, included brown bx'd dacitic frags.	3545		0.0	4.0	4.0	30%						
4.0	6.5	2.5	40%	Dacite fg brown dense, 20% diss py rare qtz veinlet												
6.5	8.0	1.5	40%	Augite phenoandesite, occ andesitic and dacitic bands, 10% py	3546		4.0	8.0	4.0	40%						
8.0	24.0	16.0	40%	Augite phenoandesite, similar to last unit, occ pk zeolite fract fillings @ 23 .												
	24.0			Foot of hole												
				NOTE: Very blocky ground, only .7' of all core more than .1' long.												
				DRILLER: Merv Grexton												

*MacLean*

# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Contractors Ltd.  
 HOLE NUMBER: 76-U-6 LENGTH: 14.0'  
 LOCATION: Chappelle DIP: +2°  
 LATITUDE: 6649.8 DEPARTURE: 39,343.5  
 ELEVATION: 5433.1 AZIMUTH: 130° + 2°  
 HOLE STARTED: July 13, 1976 HOLE COMPLETED: July 13, 1976

## ACID &/OR TRO - PARI TESTS

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 1  
 HOLE NUMBER: 76-U-6  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: IEX  
 % CORE RECOVERY:    
 LOGGED BY: K. A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY				
	0.0			Collar										
0.0	2.0	2.0		Augite phenoandesite, brownish green, 25% diss py, vague frag forms										
2.0	7.0	5.0		Augite phenoandesite, similar to above	3547		2.0	7.0	5.0	50%				
7.0	9.0	2.0		Quartz vein, massive, white, sparse mg dissem py 3%	3548		7.0	9.0	2.0	30%				
9.0	14.0	5.0		Augite phenoandesite, med grn, py dissem and occ ft, 10%										
	14.0			Foot of hole, less than 9' of chips in total.										
				NOTE: Very poor recovery due to blocky ground and impatient driller.										
				DRILLER: Grexton										

*K. A. MacLean*

# DIAMOND DRILL HOLE RECORD

DRILLED BY: Northward Contractors Ltd.  
 HOLE NUMBER: 76-U-7 LENGTH: 15.0'  
 LOCATION: Chappelle DIP: +2°  
 LATITUDE: 6654.5 DEPARTURE: 39,380.0  
 ELEVATION: 5432.5 AZIMUTH: 310° + 2°  
 HOLE STARTED: July 13, 1976 HOLE COMPLETED: July 13, 1976

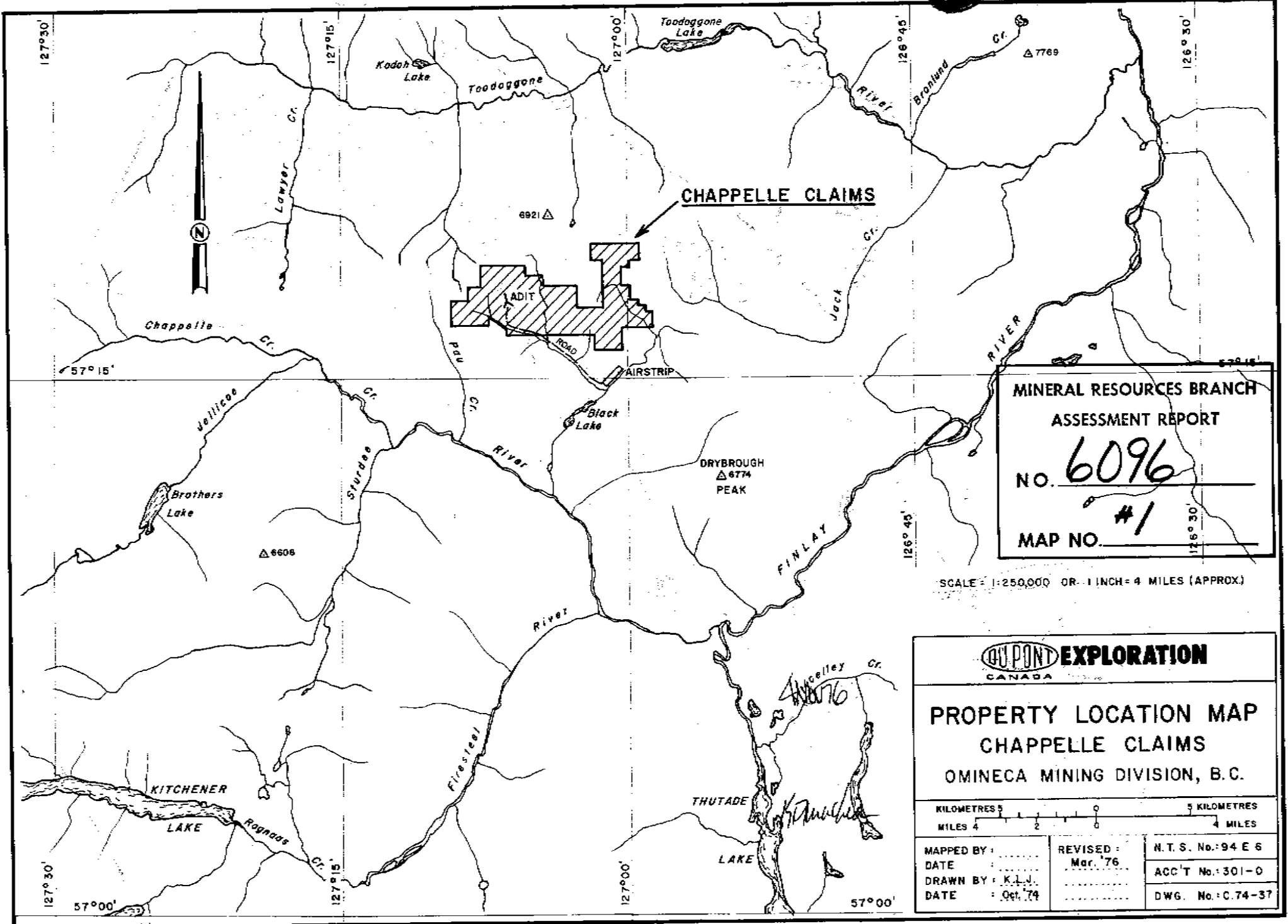
ACID &/OR TRO - PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 1  
 HOLE NUMBER: 76-U-7  
 PROPERTY: Chappelle  
 ACCOUNT No.: 301-01  
 CORE SIZE: IEX  
 % CORE RECOVERY:        
 LOGGED BY: K. A. MacLean

FOOTAGE				DESCRIPTION	SAMPLE				ASSAYS									
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE											
							FROM	TO	WIDTH	RCVRY								
	0.0																	
0.0	6.0				3549		0.0	6.0	6.0	50%								
6.0	11.0																	
					3550		6.0	11.0	5.0	50%								
11.0	15.0																	
	15.0																	
				NOTE: Very poor recovery due to blocky ground and impatient driller.														
				DRILLER: Merv Grexton														

*K. A. MacLean*

6096



MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
 No. 6096  
 #1  
 MAP NO. \_\_\_\_\_

SCALE: 1:250,000 OR 1 INCH = 4 MILES (APPROX.)

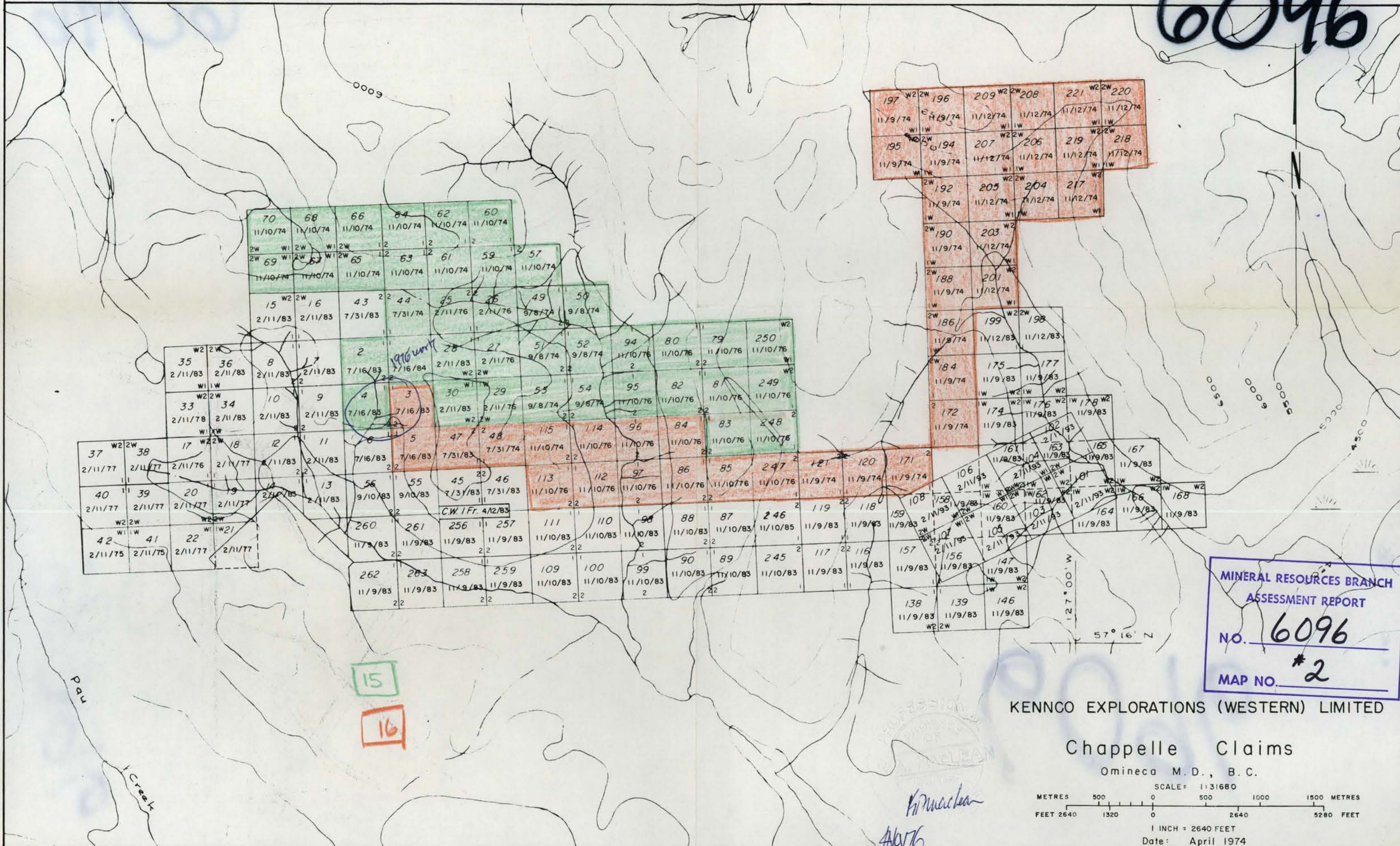
**DU PONT EXPLORATION**  
 CANADA

**PROPERTY LOCATION MAP**  
**CHAPPELLE CLAIMS**  
 OMINECA MINING DIVISION, B.C.

KILOMETRES 0 5 KILOMETRES  
 MILES 0 2 4 MILES

MAPPED BY: .....	REVISED: .....	N.T.S. No.: 94 E 6
DATE: .....	Mar. '76	ACC'T No.: 301-0
DRAWN BY: K.L.J.	.....	DWG. No.: C.74-37
DATE: Oct. '74	.....	

6096

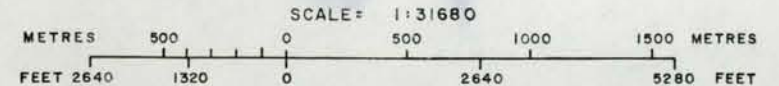


MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
 NO. 6096  
 \*2  
 MAP NO. 2

KENNCO EXPLORATIONS (WESTERN) LIMITED

Chappelle Claims

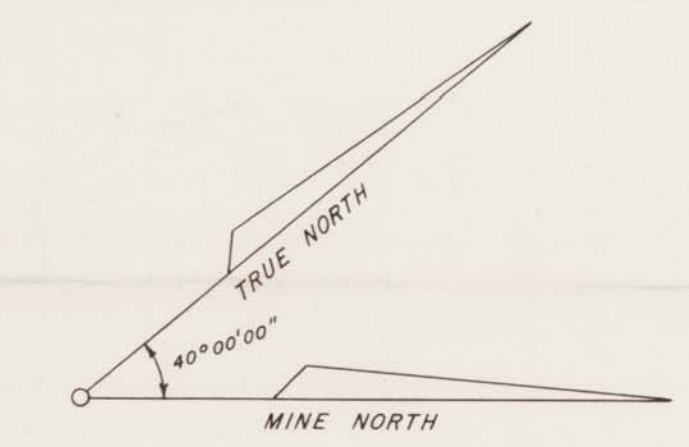
Omineca M.D., B.C.



1 INCH = 2640 FEET  
Date: April 1974



6096



6096  
 MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
 NO. 6096  
 MAP NO. #3

**COPPER EXPLORATION CANADA**

**SURFACE PLAN**  
**SHEET 48 n - 5e**  
**CHAPPELLE MINE**  
 OMINECA MINING DIVISION, BRITISH COLUMBIA

7.2 4.8 2.4 0 METRES 7.2 14.4  
 30 15 7.5 0 CALS  
 1 INCH = 20 FEET

MAPPED BY: KRM/KEL  
 DATE: \_\_\_\_\_  
 DRAWN BY: K.L.J.  
 DATE: SEPT. 76

REVISED: \_\_\_\_\_  
 N.T.S. No. 84 E 8  
 ACCT. No. 301-01  
 DRWG. No. C.76-60

CLAIM POST FOR CHAPPELLE CLAIMS 3, 4, 5 AND 6 95' SW OF THIS POINT



STATION	NORTHING	EASTING	ELEVATION
54-4	6,166.39	39,220.75	5,429.44
54-5	6,251.83	39,210.26	5,430.20
54-7	6,457.01	39,189.57	5,432.38
54-12	6,575.83	39,293.39	5,433.46
54-16	6,340.70	39,198.55	5,431.57
54-17	6,406.10	39,191.26	5,431.59
54-18	6,458.86	39,186.02	5,432.45
54-19	6,498.10	39,221.00	5,432.30
54-20	6,617.06	39,310.85	5,435.04
54-21	6,661.76	39,347.06	5,437.97
54-22	6,695.09	39,362.66	5,439.61
54-100	6,442.80	39,162.37	5,436.61
54-101	6,431.29	39,215.42	5,403.93
54-102	6,418.61	39,203.18	5,373.12
54-103	6,434.29	39,176.01	5,351.87
54-104	6,439.94	39,163.05	5,432.98
54-110	6,702.03	39,378.51	5,445.16
54-111	6,701.16	39,385.45	5,440.05
54-112	6,680.25	39,408.97	5,430.26
54-113	6,687.18	39,429.00	5,517.22
54-114	6,700.42	39,463.50	5,564.60
SPAD	6,434.63	39,214.19	5,600.47

6096

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
NO. 6096  
MAP NO. #4

**OU POND EXPLORATION**  
CANADA

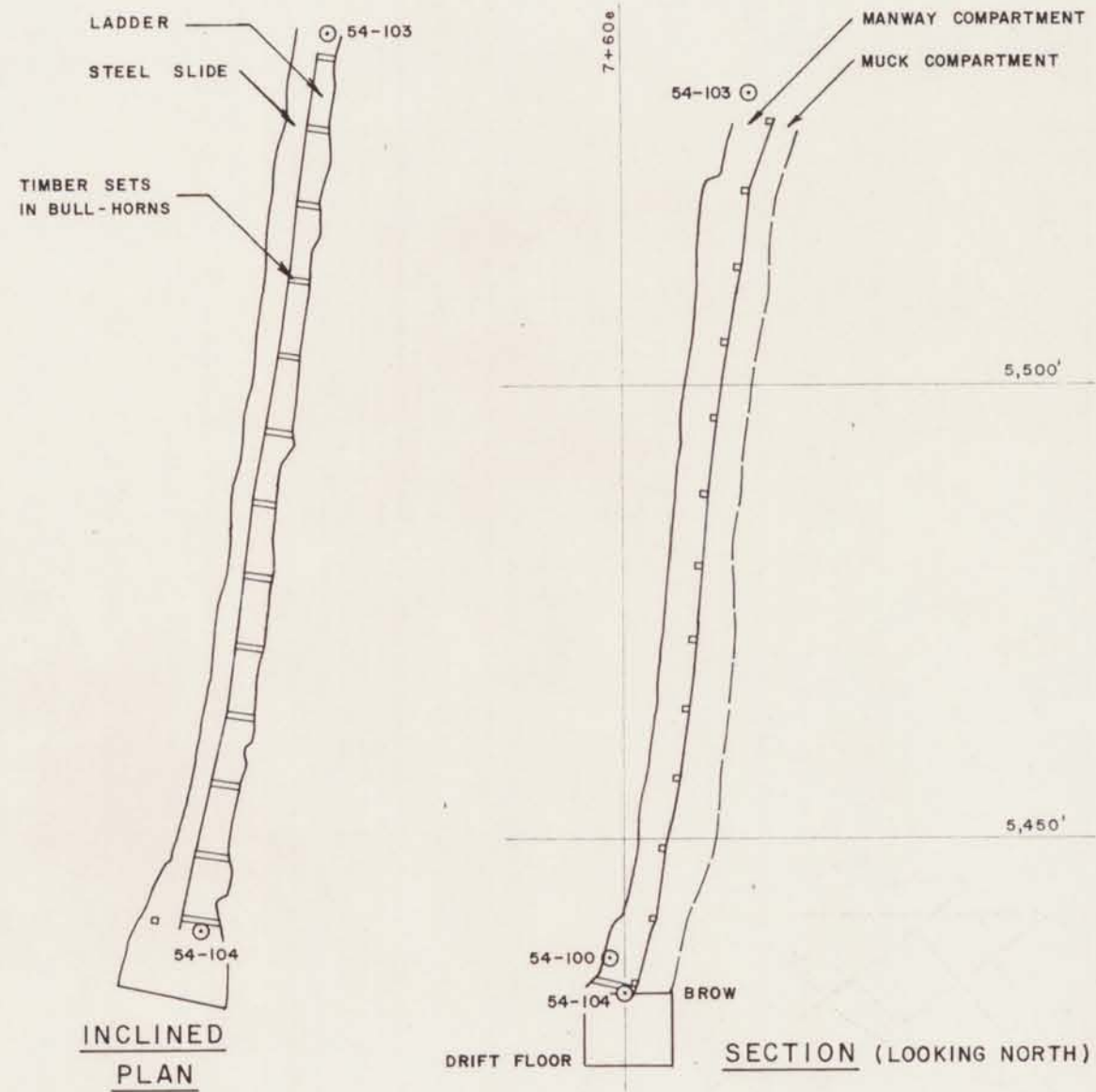
**SURVEY**  
5400' LEVEL  
SHEET 48 n - 5e  
CHAPPELLE MINE  
OMINECA MINING DIVISION, BRITISH COLUMBIA

7.2 4.8 54 0 METRES 7.2 14.4  
SCALE

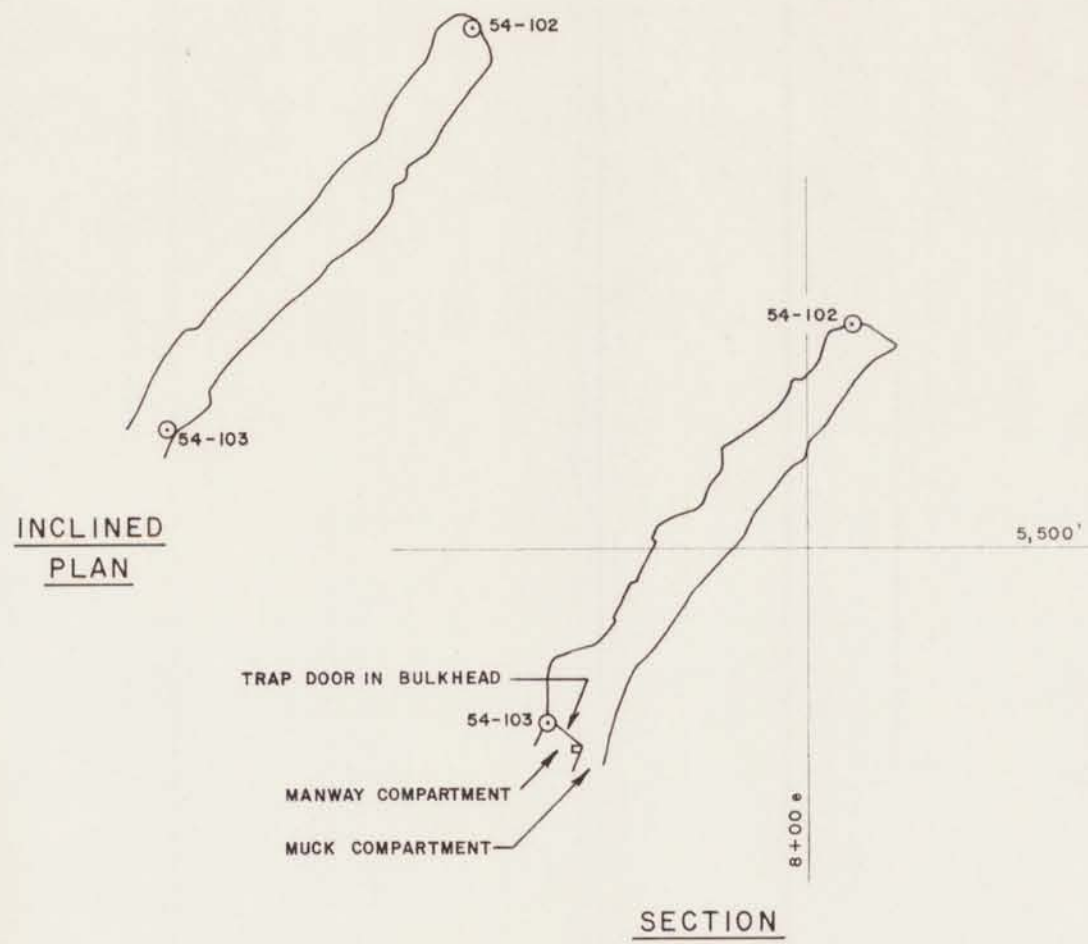
20 40 80 160 320 640 1280  
INCH = 20 FEET

MAPPED BY: KAN, GMA  
DATE: JULY 78  
DRAWN BY: K.L.J.  
DATE: AUG. 78

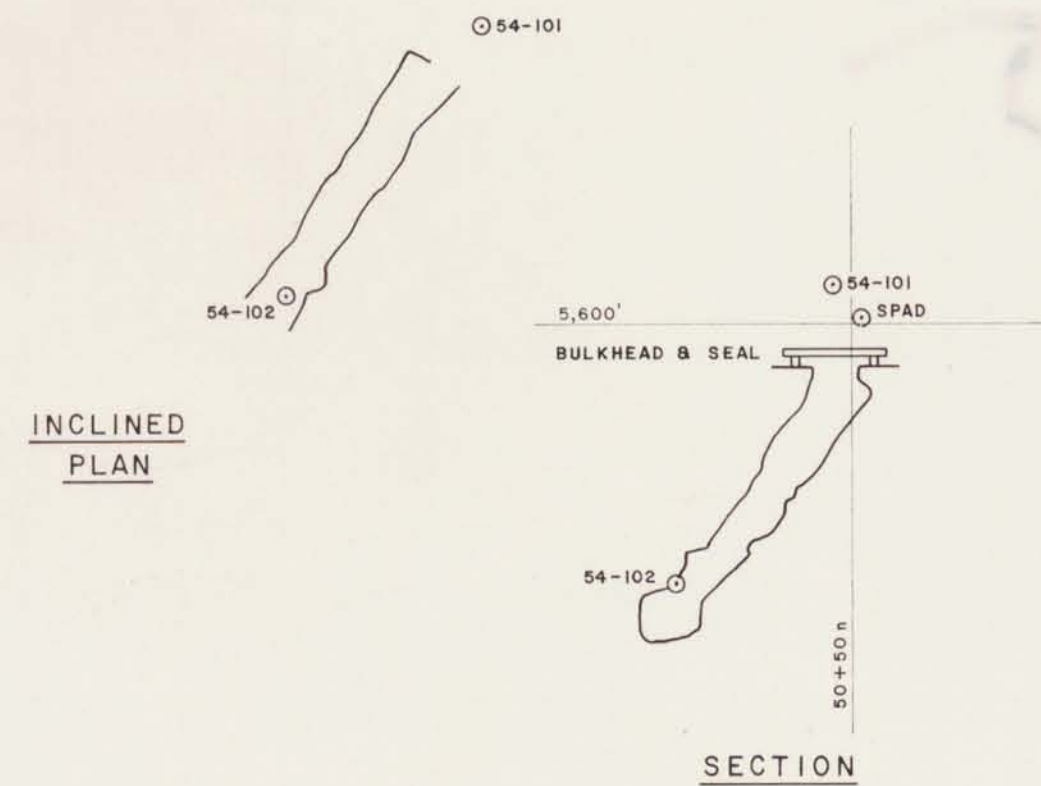
REVISED  
BY: S.D. 94 E 6  
ACCT NO: 301-01  
DWN NO: C.76-4



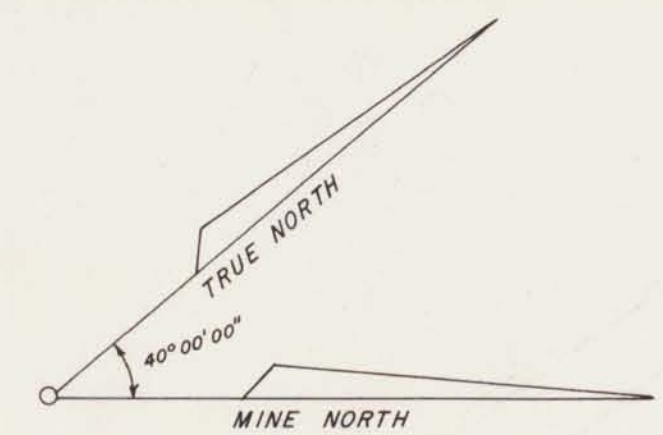
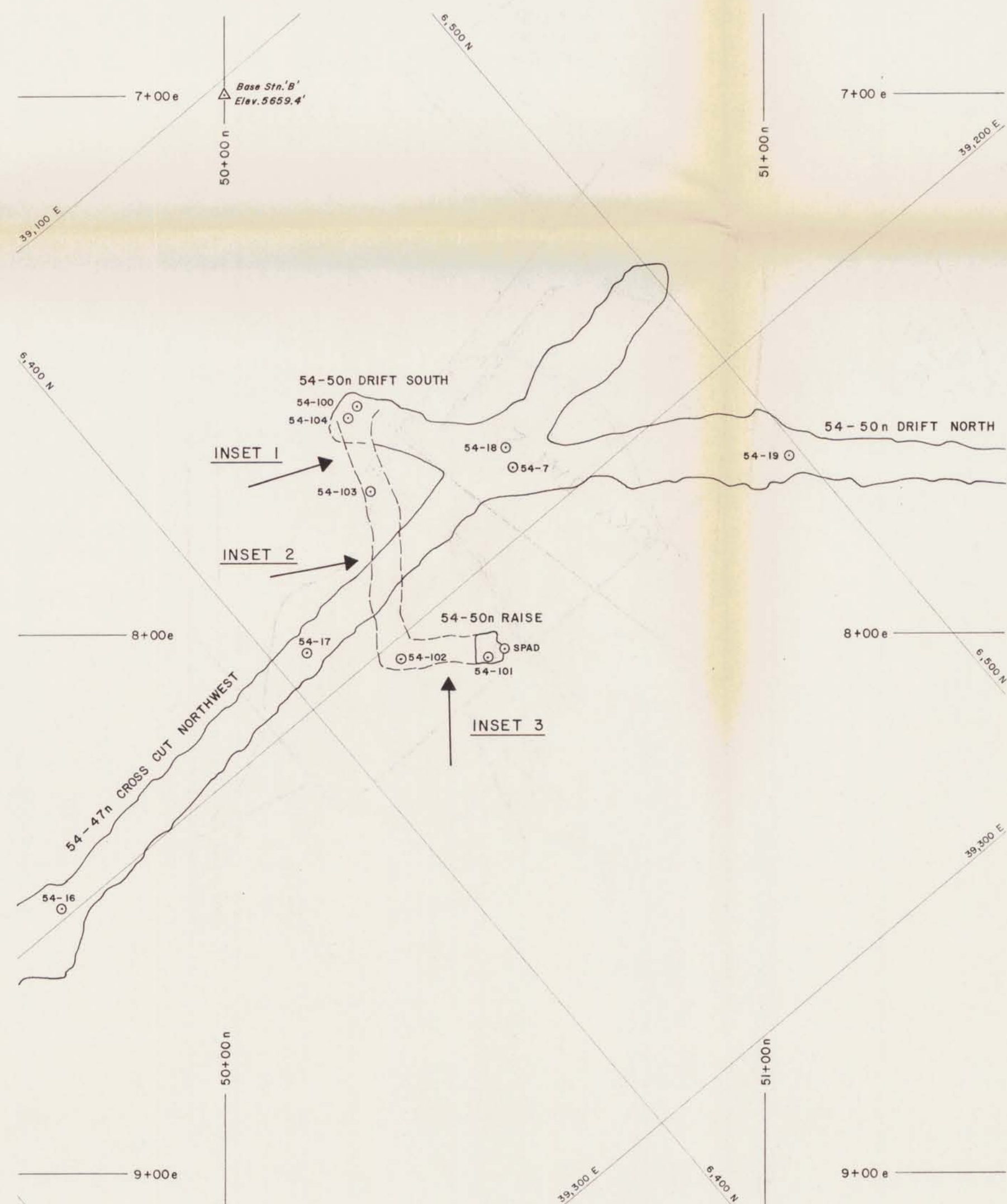
INSET 1



INSET 2



INSET 3

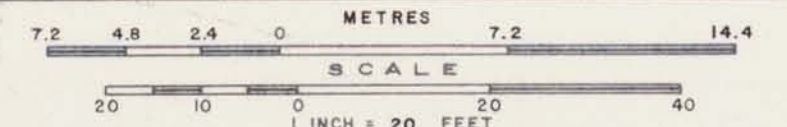


6096

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
No. 6096  
# 5  
MAP NO.

**DU PONT EXPLORATION**  
CANADA

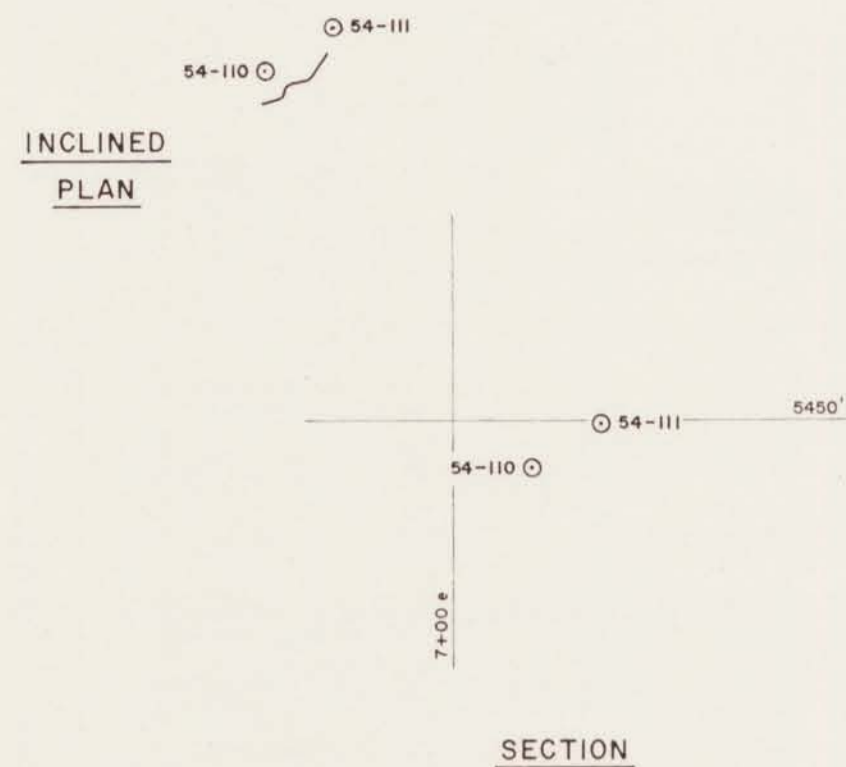
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**CHAPPELLE MINE**  
OMINECA MINING DIVISION, BRITISH COLUMBIA



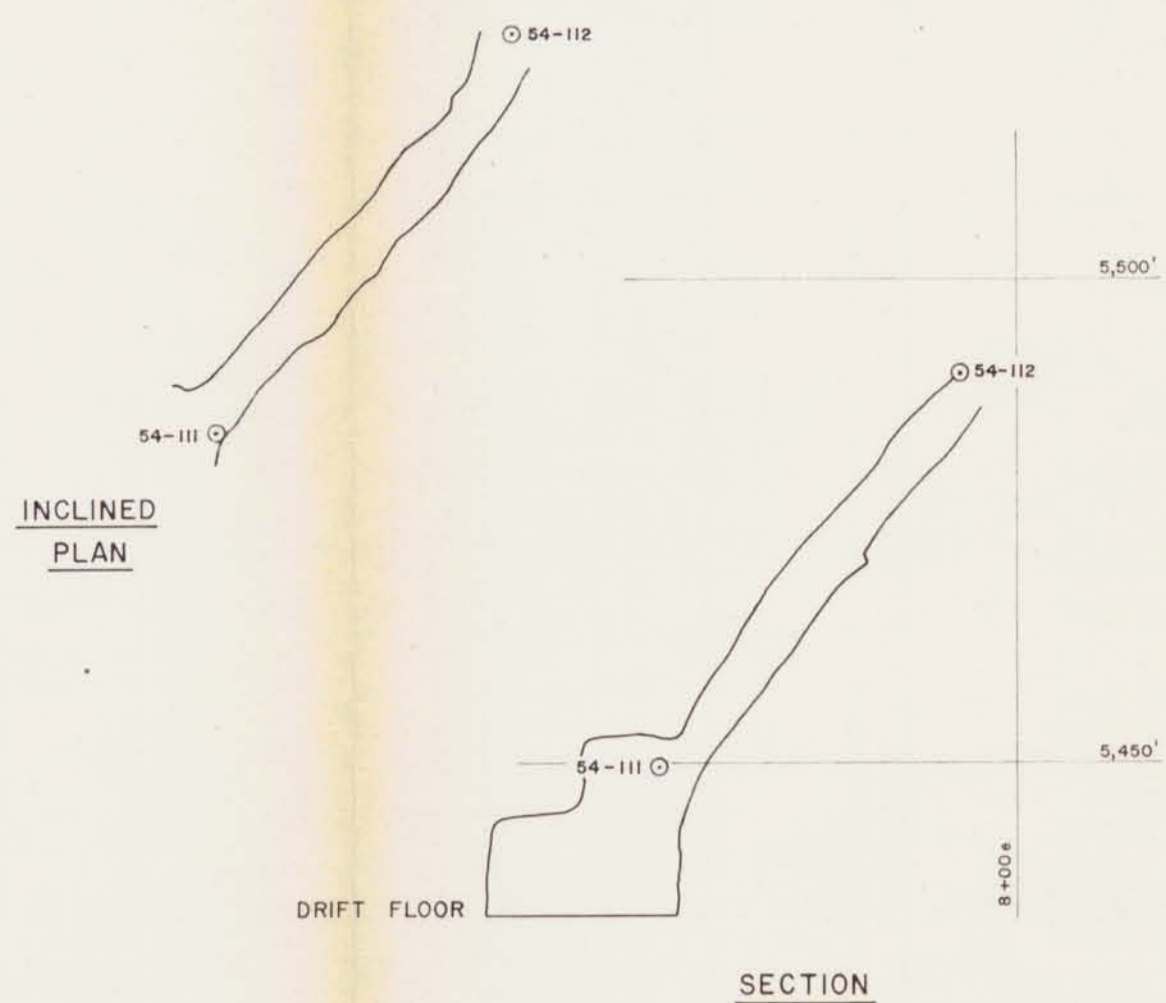
MAPPED BY: C.M.A.	REVISED:	N.T.S. No.: 94 E 6
DATE: JUL.-AUG. '76		ACCT No.: 301-01
DRAWN BY: K.L.		DRWG. No.: C.76-44
DATE: SEPT. '76		

AN076  
K. D. WICKER

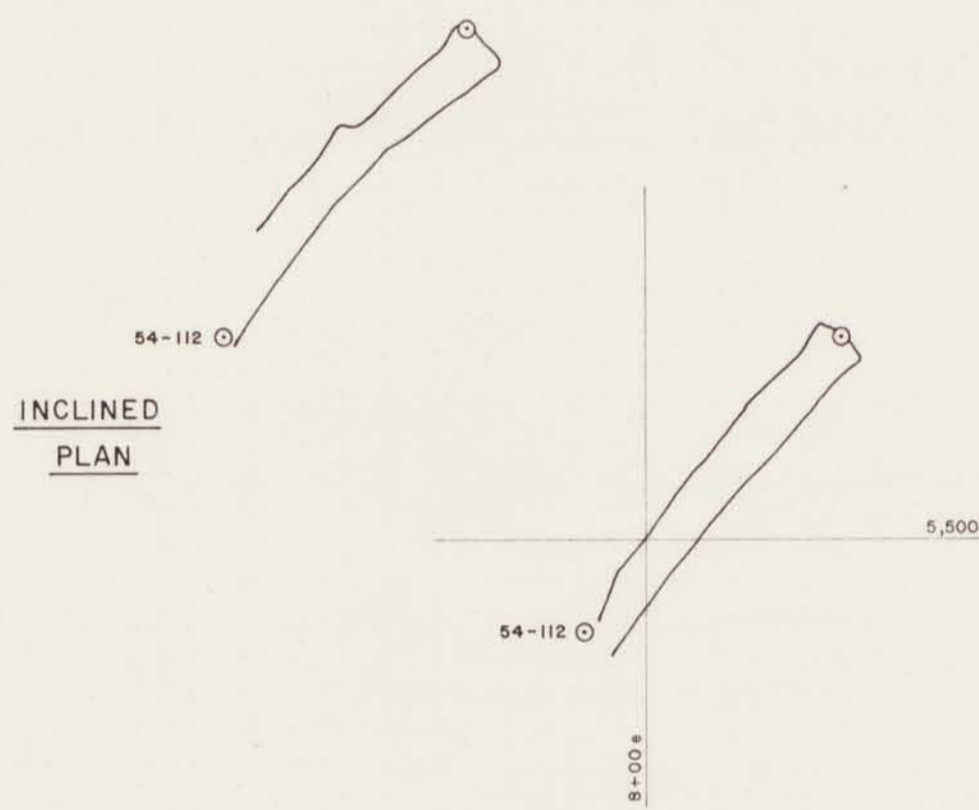




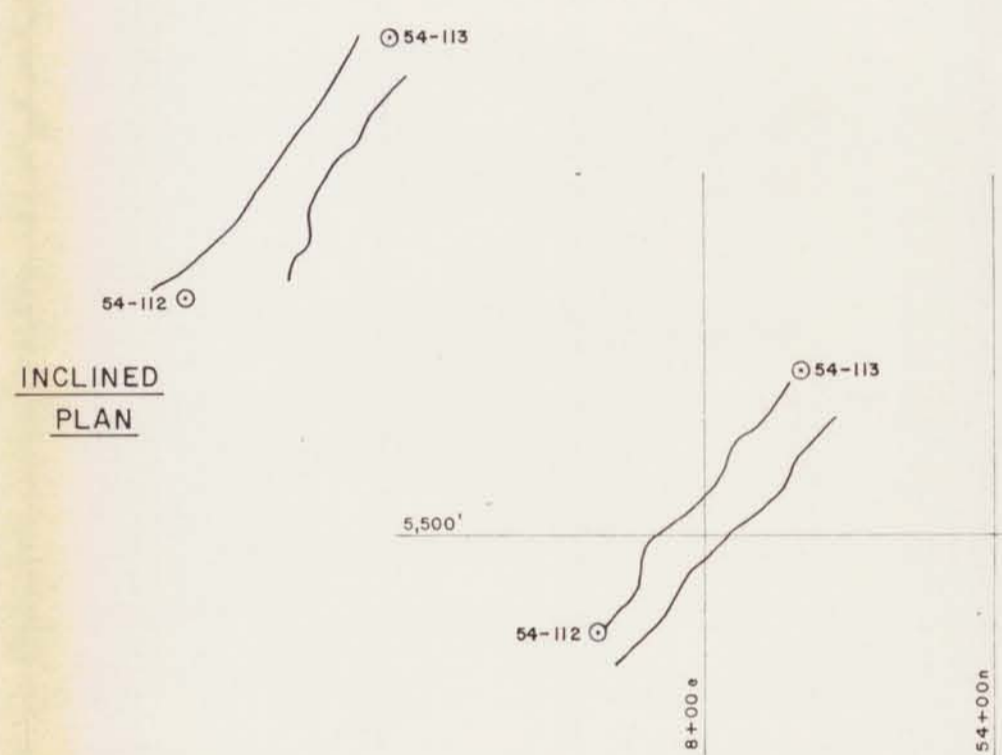
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INSET 2



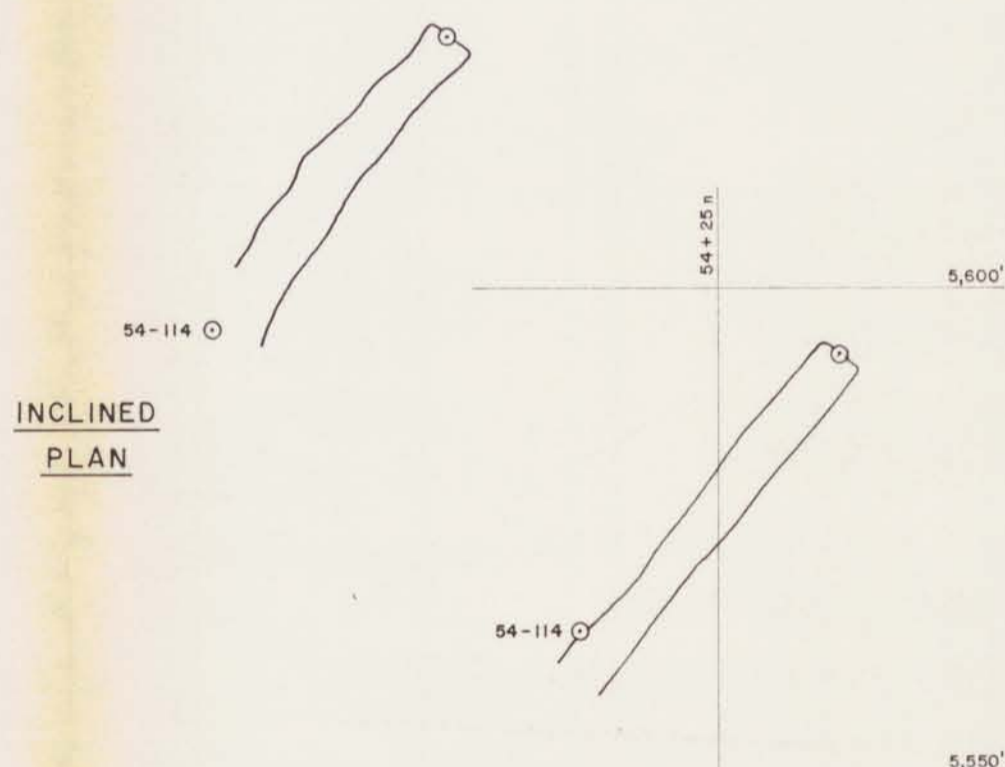
INSET 3  
C' RAISE



INSET 4



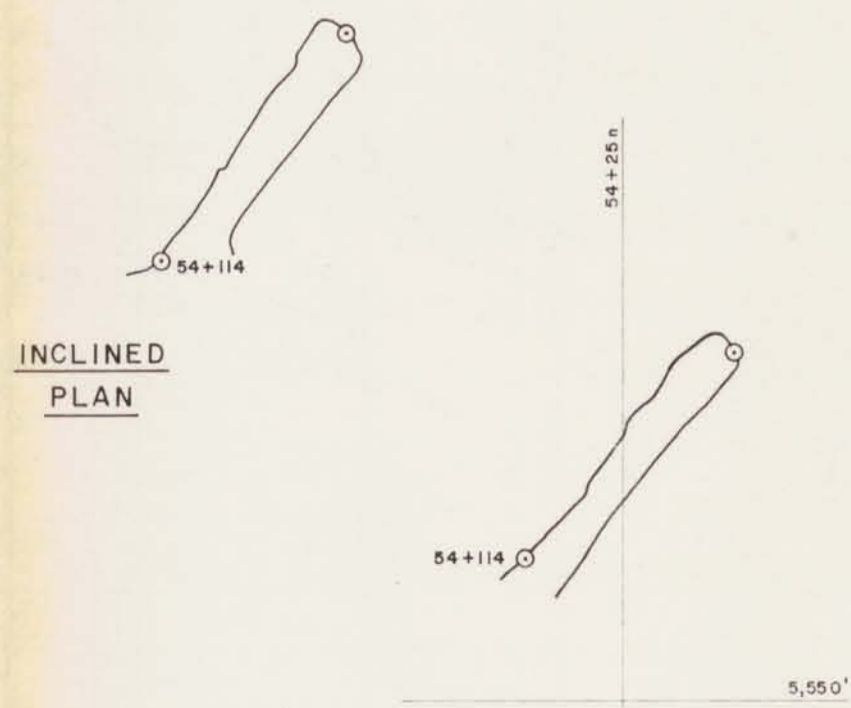
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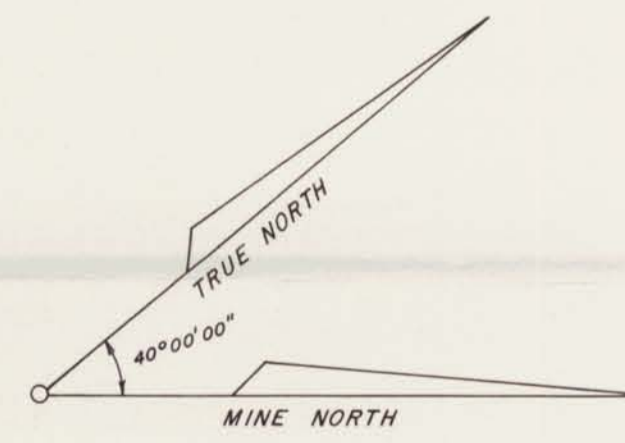
INSET 6



INSET 7  
B' RAISE



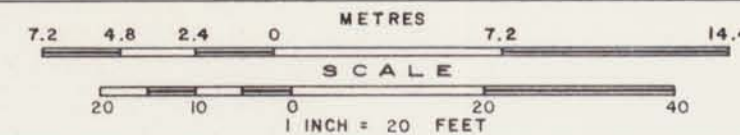
INSET 8  
A' RAISE



MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
NO. 6096  
MAP NO. #6

DUPONT EXPLORATION  
CANADA

54-54n RAISE  
CHAPPELLE MINE  
OMEGA MINING DIVISION, BRITISH COLUMBIA



MAPPED BY: S.W.A. REVISION: N.T.S. No. 94 E 6  
DATE: JUL-AUG-78 ACCT No. 301-01  
DRAWN BY: K.L.A. DATE: SEPT. 78 DRWS. No. C.76-42

6096