



Indian and
Northern Affairs

Affaires indiennes
et du Nord



P.O. Box 269
Watson Lake, Yukon
August 18, 1976

REGIONAL DIRECTOR RESOURCES

Your file *Votre référence*

Attention: Supervising Mining
Recorder

Our file *Notre référence*

R E S T R I C T E D

REGISTERED MAIL

Please find attached Diamond Drilling Log covering renewal of the Jason mineral claims which have been approved in the amount of \$74,973.10 for your attention and file.

Yours truly,

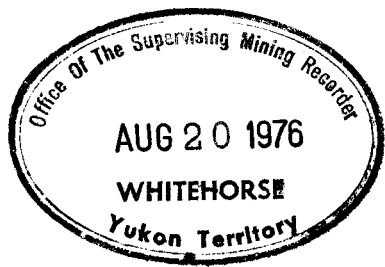
V.W. Johanson
Mining Recorder
Watson Lake District

VWJ/lt
Encl.

DIAMOND DRILLING
on the JASON claims,
Located about 10 miles SW of MacMillan Pass
Claim Sheet 105-0-1, $63^{\circ}09'N$ $130^{\circ}15' W$.

by
Clyde L. Smith, Ph.D., P.Eng.
August 9, 1976

021285



AUG 20 1976

WHITEHORSE

Yukon Territory

I. INTRODUCTION

A claim map of the Jason Property is enclosed showing the location of Diamond Drill Holes numbers one through eight. Drill Holes numbers one through seven were put down during the period October 1 to November 5, 1975. Drill Hole number eight was located between the period July 9 to 29, 1976.

Also enclosed are the Diamond Drill Logs for the above holes.

The core is currently located at the Ogilvie Joint Venture base camp situated about 3 miles southwest of the airstrip on the Tom Property southwest of Macmillan Pass, and located along the side of the Canol Road.

II. COSTS INCURRED

<u>Claim</u>	<u>Drill Hole</u>	<u>Footage</u>	<u>Drill Costs</u>	<u>Mobilization, Moving, etc. Costs</u>	<u>Totals</u>	
#21	#5	472'		\$ 7,734.50	\$ 3,617.00	\$11,351.50
#57	#1	102'	\$ 1,685.40			
	#2	385'	6,145.85			
	#3	176'	3,450.10			
	#4	<u>222'</u>	<u>6,150.10</u>			
		885'		17,431.45	8,154.00	25,585.45
#59	#6	386'	7,624.95			
	#7	<u>419'</u>	<u>8,491.55</u>			
		805'		<u>16,116.50</u>	<u>7,541.15</u>	<u>23,657.65</u>
				<u>\$41,282.45</u>	<u>\$ 19,312.15</u>	<u>\$60,594.60</u>
#32	#8	11,651'		\$22,790.00	\$ 2,940.00	\$25,730.00

AUG - 2 1976

E. Carson Diamond Drilling Limited

CONTRACT DIAMOND DRILLING

HEAD OFFICE:
7 ROUND ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

VANCOUVER OFFICE:
YVR-547-80-1000
VANCOUVER, B.C. V6C 2A9
PHONE 687-4634

July 15, 1976

Invoice #-152

IN ACCOUNT WITH:

Ogilvie Joint Venture,
c/o Brown, Farris & Jefferson,
1860 - 200 Granville Street,
Vancouver, B. C.

Drilling Charges July 9 to 15, 1976

(McMillan Pass Project)

Mobilization Charge

(Re: Article 10 of Contract)

= \$ 1,500.00

Moving In (From Ross River)

Labour

75 man hrs. @ \$11.75 per hr. = \$ 881.25

Third Party Air Charge

July 11 Terr Air #28 = \$234.00

" 15 Terr Air #504 = \$118.00 \$ 352.00

Third Party Truck Charge

To Follow Re: D-6 Cat = Nil

Caron Truck

(No charge Re: Last Year's Agreement) = Nil \$ 1,233.25

D-6 Cat

15 machine hrs. @ \$37.50 per hr. = \$ 562.50

Hole: 8 x 90° x BQ

Reaming Cave

12 man hrs. @ \$11.75 per hr. = \$141.00

6 machine hrs. @ \$8.00 per hr. = \$ 48.00 \$ 189.00

Mud Time

8 man hrs. @ \$11.75 per hr. = \$ 94.00

4 machine hrs. @ \$8.00 per hr. = \$ 32.00 \$ 126.00

Travelling Time

3 man hrs. @ \$11.75 per hr. = \$ 35.25

Time Not Acct'd

6 man hrs. @ \$11.75 per hr. = \$ 70.50

Casing

0 - 46 = 46 ft. @ \$15.95 (EW) per ft. = \$ 733.70

Drilling

0 - 285 = 285 ft. @ \$15.75 per ft. = \$4,488.75 \$ 5,643.20

387
8/11/76

OK
CLS
The mentioned
letter.

E. Carson Diamond Drilling Limited

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

CONTRACT DIAMOND DRILLING

VANCOUVER OFFICE:
1103 HASTINGS STREET
VANCOUVER, B.C. V6C 2A9
PHONE 687-4634

Supplies

18 only bags of Quik Gel	@ \$10.75 each	= \$193.50	
160 only BQ core boxes	@ \$6.00 each	= <u>\$960.00</u>	\$ 1,153.50

Freight Charge

June 17 Carl Rauber #198480		=	\$ 73.50
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Camp Charge

June 1 - July 9	1 month @ \$600.00	=	<u>\$ 600.00</u>
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Total Invoice \$10,765.95

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E. Carson Diamond Drilling Limited

CONTRACT DIAMOND DRILLING

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

VANCOUVER OFFICE:
~~425 HOWE STREET~~
~~VANCOUVER, BRITISH COLUMBIA~~
PHONE 687-4634

July 31, 1976

Invoice #-163

IN ACCOUNT WITH:

Ogilvie Joint Venture,
c/o Brown, Farris & Jefferson,
1860 - 200 Granville Street,
Vancouver, B. C.

Drilling Charges July 16 to 31, 1976

(McMillan Pass Project)

HOLE: 8 x 90° x BQ

Moving

18 man hrs.	@ \$11.75 per hr.	= \$	211.50	
1 machine hr.	@ \$8.00 per hr.	= \$	<u>8.00</u>	\$ 219.50

Reaming Cave

48 man hrs.	@ \$11.75 per hr.	= \$	564.00	
24 machine hrs.	@ \$8.00 per hr.	= \$	<u>192.00</u>	\$ 756.00

Mud Time

1 man hrs.	@ \$11.75 per hr.	= \$	164.50	
7 machine hrs.	@ \$8.00 per hr.	= \$	<u>56.00</u>	\$ 220.50

Testing

24 man hrs.	@ \$11.75 per hr.	= \$	282.00	
12 machine hrs.	@ \$8.00 per hr.	= \$	<u>96.00</u>	\$ 378.00

D-6 Cat

17 machine hrs.	@ \$37.50 per hr.	=		\$ 637.50
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Casing

0 - 42 = 42 ft.	@ \$16.95 (NW) per ft.	= \$	711.90	
46 - 345 = 299 ft.	@ \$15.95 (BW) per ft.	= \$	<u>4,769.05</u>	\$ 5,480.95

Drilling

285 - 500 = 215 ft.	@ \$15.75 per ft.	= \$	3,386.25	
500 - 1000 = 500 ft.	@ \$16.25 per ft.	= \$	8,125.00	
1000 - 1151 = 151 ft.	@ \$17.75 per ft.	= \$	<u>2,680.25</u>	\$14,191.50 \$21,883.95

Hole: 9 x 50° x BQ

Moving

126 man hrs.	@ \$11.75 per hr.	= \$	1,480.50	
29 machine hrs.	@ \$8.00 per hr.	= \$	<u>232.00</u>	\$ 1,712.50

D-6 Cat

16 machine hrs.	@ \$37.50 per hr.	=		\$ 600.00 \$ 2,312.50
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Moving In (From Ross River)

(Re: D-6 Cat) Ed's Construction #140335	=			\$ 450.00
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E. Caron Diamond Drilling Limited

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

CONTRACT DIAMOND DRILLING

VANCOUVER OFFICE:
~~XXXXXX HOWE STREET~~
~~VANCOUVER B.C. V6C 2K9~~
PHONE 687-4634

Supplies Chargeable

35 only bags of Quik-Gel	@ \$10.75 each	= \$	376.25	
11 only bags of Quik-Trol	@ \$7.75 each	= \$	<u>85.25</u>	\$ 461.50

Camp Rental

July 9 - 31/76	2/3 month @ \$600.00 per month	=		\$ 400.00
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Coresplitter Rental

July 9 - 31/76	2/3 month @ \$100.00 per month	=		\$ <u>65.00</u>
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Total Invoice				<u>\$25,572.95</u>
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E. Caron Diamond Drilling Limited

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

CONTRACT DIAMOND DRILLING

VANCOUVER OFFICE:
~~XXXX-424 HORNBY STREET~~
VANCOUVER, B.C. V6C-2A9
PHONE 687-4634

July 31, 1976

Invoice #-164 Credit

IN ACCOUNT WITH:

Ogilvie Joint Venture,
c/o Brown, Farris & Jefferson,
1860 - 200 Granville Street,
Vancouver, B. C.

Re: 1975 Drilling Charges

(McMillan Pass Project)

Misc.

June 18/76 White Pass Petroleum # 21496 = \$1,041.00

Total Credit Invoice \$1,041.00

E. Caron Diamond Drilling Limited

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

CONTRACT DIAMOND DRILLING

VANCOUVER OFFICE:
3-425 HOWE STREET
VANCOUVER, B.C. V6C-2A9
PHONE 687-4634

October 15, 1975

Invoice #-92

IN ACCOUNT WITH:

Ogilvie Joint Venture,
c/o Brown, Farris & Jefferson Ltd.,
1860 - 200 Granville Street,
Vancouver, B. C.
V6C 1S4

Drilling charges October 1 to 15, 1975

(McMillan Pass Project)

Mobilization Charge

(Re: Clause 10 of Contract) $\frac{1}{2}$ of \$4000.00
(1 trip less Whitehorse to Faro)

= \$2,000.00 ✓
= \$ 367.50

\$ 1,632.50 ✓

Moving In - From Ross River

Labour

238 man hrs. @ \$10.05 per hr.

= \$2,391.90 ✓

Third Party Trucking

Oct. 1/75 Carl Rauber #008436
Ed's Construction Ltd. #165274

= \$ 202.50 ✓
= \$1,230.00 ✓ \$1,432.50

Third Party Air

Oct. 1/75 Globe Air Service #4850

= \$ 266.25 ✓

Caron Trucks

Oct. 1/75 Tractor & Trailer

Ross River to McMillan Pass unload
and back to Ross River

20 hrs. @ \$25.00 per truck hr.

= \$ 500.00 ✓

Oct. 1/75 Pickup

13 hrs. @ \$15.00 per hr.

= \$ 195.00 ✓ \$ 4,785.65 ✓

Hole: 1 x 90° X BQ

Casing

0 - 27 = 27 ft. @ \$13.50 (EW) per ft.

= \$ 364.50

Drilling

0 - 102 = 102 ft. @ \$12.95 per ft.

= \$1,320.90 \$ 1,685.40 ✓

Hole: 2 x 50° x BQ

Moving

12 man hrs. @ \$10.05 per hr.

= \$ 120.60

3 machine hrs. @ \$8.00 per hr.

= \$ 24.00 \$ 144.60

E. Carson Diamond Drilling Limited

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

CONTRACT DIAMOND DRILLING

VANCOUVER OFFICE:
3-425 HOWE STREET
VANCOUVER, B.C. V6C-2A9
PHONE 687-4634

<u>Casing</u>			
0 - 30 = 30 ft.	@ \$14.50 (NW) per ft.	= \$ 435.00	
0 - 43 = 43 ft.	@ \$13.50 (BW) per ft.	= \$ 580.50	\$1,015.50
<u>Drilling</u>			
0 - 385 = 385 ft.	@ \$12.95 per ft.	=	<u>\$4,985.75</u> \$ 6,145.85 ✓
<u>Hole: 3 x 50° x BQ</u>			
<u>Moving</u>			
14 man hrs.	@ \$10.05 per hr.	= \$ 140.70	
7 machine hrs.	@ \$8.00 per hr.	= \$ 56.00	\$ 196.70
<u>Mud Time</u>			
4 man hrs.	@ \$10.05 per hr.	= \$ 40.20	
2 machine hrs.	@ \$8.00 per hr.	= \$ 16.00	\$ 56.20
<u>Casing</u>			
0 - 68 = 68 ft.	@ \$13.50 (BW) per ft.	=	\$ 918.00
<u>Drilling</u>			
0 - 176 = 176 ft.	@ \$12.95 per ft.	=	<u>\$2,279.20</u> \$ 3,450.10 ✓
<u>Hole: 4 x 50° x BQ</u>			
<u>Moving</u>			
20 man hrs.	@ \$10.05 per hr.	= \$ 201.00	
10 machine hrs.	@ \$8.00 per hr.	= \$ 80.00	\$ 281.00
<u>Reaming Cave</u>			
6 man hrs.	@ \$10.05 per hr.	= \$ 60.30	
3 machine hrs.	@ \$8.00 per hr.	= \$ 24.00	\$ 84.30
<u>Mud Time</u>			
8 man hrs.	@ \$10.05 per hr.	= \$ 80.40	
4 machine hrs.	@ \$8.00 per hr.	= \$ 32.00	\$ 112.40
<u>Casing</u>			
0 - 30 = 30 ft.	@ \$14.50 (NW) per ft.	= \$ 435.00	
0 - 175 = 175 ft.	@ \$13.50 (BW) per ft.	= \$2,362.50	\$2,797.50
<u>Drilling</u>			
0 - 222 = 222 ft.	@ \$12.95 per ft.	=	<u>\$2,874.90</u> \$ 6,150.10 ✓
<u>D-6 Cat Charges</u>			
54 machine hrs.	@ \$35.00 per hr.	=	\$ 1,890.00 ✓
<u>Supplies</u>			
<u>Groceries</u>			
Oct. 1/75	Super Valu #26115	= \$ 573.45	
	Kelly Douglas #32853	= \$ 101.10	
	#32854	= \$ 8.00	\$ 682.55
<u>Propane (Canadian Propane #254920)</u>			
30 bottles of propane	@ \$15.00 per refill	=	\$ 450.00
			<u>\$1,132.55</u>
			\$ 113.25
			<u>\$1,245.80</u>
	Plus 10%		

E. Caron Diamond Drilling Limited

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

CONTRACT DIAMOND DRILLING

VANCOUVER OFFICE:
3-425 HOWE STREET
VANCOUVER, B.C. V6C-2A9
PHONE 687-4634

<u>Core Boxes</u>					
128 boxes	@ \$6.00 each	=	\$ 768.00		
<u>Quik Gel</u>					
11 only bags	@ \$10.75 each	=	<u>\$ 118.25</u>	\$ 2,132.05	✓
<u>Camp Rental</u>					
Oct 1-15/75	$\frac{1}{2}$ month @ \$800.00 per month	=		\$ 400.00	✓
<u>Cook Charge</u>					
Oct 1-15/75	$\frac{1}{2}$ month @ \$1,450.00 per month	=		\$ 725.00	✓
<u>Coresplitter Rental</u>					
Oct 1-15/75	$\frac{1}{2}$ month @ \$100.00 per month	=		<u>\$ 50.00</u>	✓
			Total Invoice	<u>\$29,046.65</u>	

OGILVIE JOINT VENTURE	
Client
Project	W. Jason (drill) I.
Extensions
Voucher No.	262
Approved	CS
Date Paid	Dec 11/75

E. Caron Diamond Drilling Limited

CONTRACT DIAMOND DRILLING

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

VANCOUVER OFFICE:
3-425 HOWE STREET
VANCOUVER, B.C. V6C-2A9
PHONE 687-4634

November 8, 1975

Invoice #-97

IN ACCOUNT WITH:

Ogilvie Joint Venture,
c/o Brown, Farris & Jefferson Ltd.,
1860 - 200 Granville Street,
Vancouver, B. C.
V6C 1S4

Drilling charges November 1 to 8, 1975

(McMillan Pass Project)

Hole: 7 x 50° x BQ

Mud Time

8 man hrs.	@ \$10.05 per hr.	= \$ 80.40	
4 machine hrs.	@ \$8.00 per hr.	= \$ 32.00	\$ 112.40

Testing

2 man hrs.	@ \$10.05 per hr.	= \$ 20.10	
1 machine hr.	@ \$8.00 per hr.	= \$ 8.00	\$ 28.10

Time Not Acc't

1 man hr.	@ \$10.05	=	\$ 10.05
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Drilling

419 - 500 = 81 ft.	@ \$12.95 per ft.	= \$1,048.95	
500 - 538 = 38 ft.	@ \$13.95 per ft.	= \$ 530.10	\$1,579.05 \$1,729.60

Moving Out (To Ross River)

Labour

181 man hrs.	@ \$10.05 per hr.	=	\$1,819.05
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D-6 Cat Charges

85 machine hrs.	@ \$35.00 per hr.	=	\$2,975.00
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Supplies

8 only bags of Quik Gel @ \$10.75 each		=	\$ 86.00
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Camp Rental

Nov. 1-5/75	5/30 @ \$800.00 per month	=	\$ 133.33
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Cook Charge

Nov. 1-7/75	8/30 @ \$1450.00 per month	=	\$ 386.66
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E. Caron Diamond Drilling Limited

CONTRACT DIAMOND DRILLING

VANCOUVER OFFICE:
3-425 HOWE STREET
VANCOUVER, B.C. V6C-2A9
PHONE 687-4634

HEAD OFFICE:
7 ROUND EL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

<u>Coresplitter Rental</u>			
Nov. 1-4/75	5/30 @ \$100.00 per month	=	\$ 16.66
<u>Demobilization Charge</u>			
(Re: Article 10 of Contract)	$\frac{1}{2}$ of \$4,000.00	= \$2,000.00	= \$ Nil
(Not charged due to equipment remaining of job)			
Total Invoice			<u>\$7,146.30</u>

(Total Contract = 2,281 ft.)

262
Rec'd 11/75

E. Caron Diamond Drilling Limited

CONTRACT DIAMOND DRILLING

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 868-2424 - 668-2425
TELEX 036-8-337

VANCOUVER OFFICE:
3-425 HOWE STREET
VANCOUVER, B.C. V6C-2A9
PHONE 687-4634

October 31, 1975

Invoice #-95

IN ACCOUNT WITH:

Ogilvie Joint Venture,
c/o Brown, Farris & Jefferson Ltd.,
1860 - 200 Granville Street,
Vancouver, B. C.
V6C 1S4

Drilling charges October 16 to 31, 1975

(McMillan Pass Project)

Hole : 5 x 50° x BQ

<u>Moving</u>			
34 man hrs.	@ \$10.05 per hr.	= \$ 341.70	
11 machine hrs.	@ \$8.00 per hr.	= \$ 88.00	\$ 429.70
<u>Mud Time</u>			
8 man hrs.	@ \$10.05 per hr.	= \$ 80.40	
4 machine hrs.	@ \$8.00 per hr.	= \$ 32.00	\$ 112.40
<u>Casing</u>			
0 - 80 = 80 ft.	@ \$13.50 (BW) per ft.	=	\$1,080.00
<u>Drilling</u>			
0 - 472 = 472 ft.	@ \$12.95 per ft.	=	<u>\$6,112.40</u> \$ 7,734.50

Hole: 6 x 50° x BQ

<u>Moving</u>			
52 man hrs.	@ \$10.05 per hr.	= \$ 522.60	
14 machine hrs.	@ \$8.00 per hr.	= \$ 112.00	\$ 634.60
<u>Reaming Cave</u>			
6 man hrs.	@ \$10.05 per hr.	= \$ 60.30	
3 machine hrs.	@ \$8.00 per hr.	= \$ 24.00	\$ 84.30
<u>Mud Time</u>			
10 man hrs.	@ \$10.05 per hr.	= \$ 100.50	
5 machine hrs.	@ \$8.00 per hr.	= \$ 40.00	\$ 140.50
<u>Time Not Acct. - (Moving supplies from airstrip)</u>			
7 man hrs.	@ \$10.05 per hr.	=	\$ 70.35
<u>Casing</u>			
0 - 36 = 36 ft.	@ \$14.50 (NW) per ft.	= \$ 522.00	
0 - 87 = 87 ft.	@ \$13.50 (BW) per ft.	= \$1,174.50	\$1,696.50
<u>Drilling</u>			
0 - 386 = 386 ft.	@ \$12.95 per ft.	=	<u>\$4,998.70</u> \$ 7,624.95

E. Caron Diamond Drilling Limited

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

CONTRACT DIAMOND DRILLING

VANCOUVER OFFICE:
3-425 HOWE STREET
VANCOUVER, B.C. V6C-2A9
PHONE 687-4634

Hole: 7 x 50° x BQ

<u>Moving</u>				
17 man hrs.	@ \$10.05 per hr.	= \$	170.85	
10 machine hrs.	@ \$8.00 per hr.	= \$	80.00	\$ 250.85
<u>Mud Time</u>				
16 man hrs.	@ \$10.05 per hr.	= \$	160.80	
8 machine hrs.	@ \$8.00 per hr.	= \$	64.00	\$ 224.80
<u>Time Not Acct.</u> - (Moving supplies from airstrip)				
5 man hrs.	@ \$10.05 per hr.	=		\$ 50.25
<u>Casing</u>				
0 - 60 = 60 ft.	@ \$13.50 (BW) per ft.	=		\$ 810.00
<u>Drilling</u>				
0 - 419 = 419 ft.	@ \$12.95 per ft.	=	\$5,426.05	\$ 6,761.95
<u>D-6 Cat Charges</u>				
26 machine hrs.	@ \$35.00 per hr.	=		\$ 910.00
<u>Supplies</u>				
16 only bags of Quik Gel @ \$10.75 each		= \$	172.00	
3 only bags of Quik Trol @ \$7.75 each		= \$	23.25	\$ 195.25
<u>Camp Rental</u>				
Oct 16-31/75	½ month @ \$800.00 per month	=		\$ 400.00
<u>Cook Charge</u>				
Oct 16-31/75	½ month @ \$1,450.00 per month	=		\$ 725.00
<u>Coresplitter Rental</u>				
Oct 16-31/75	½ month @ \$100.00 per month	=		\$ 50.00

Total Invoice

\$24,401.65

262
Dec 11/75



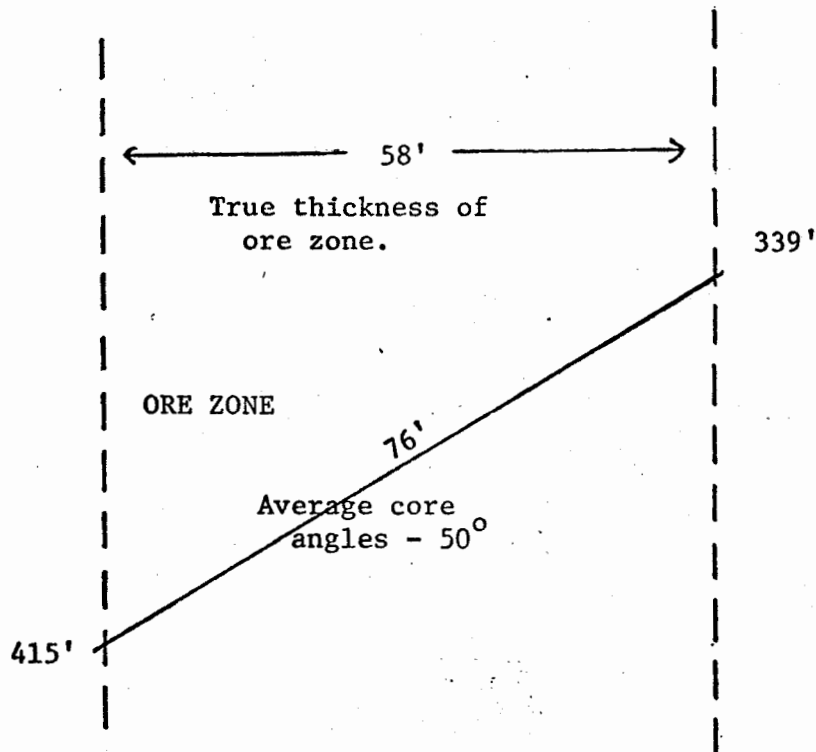
LOGS OF 1975 DIAMOND DRILL HOLES

	FOOTAGE		<u>ROCK DESCRIPTION</u>	CORE ANGLES	
	<u>FROM</u>	<u>TO</u>		<u>ANGLE</u>	<u>AT</u>
DDH #1	0	26	Overburden	20°	26'
15SE, 12SW	26	102	Unit #1 - well bedded and laminated gray shale; alternate light gray and gray beds; light gray commonly silty or sandy.	0	36
-90°				40	45
				40	51
				30	59
				0	62
				5	67
				50	76
				10	80
				0	87
				30	92
				10	98
				20	102
DDH #2	0	40	Overburden	35°	40'
5SE, 12SW	40	109	Unit #1 - laminated, homogenous gray shale; pyritic beds (up to 1/2" wide) and laminae; thin beds of intraformational breccia - conglomerate are common; light gray beds are commonly sandy; most of unit is massive and homogeneous - only well laminated in part; fractured throughout.	0	42
-50° EAST				25	60
				0	73
				0	77
				0	80
				50	88
				30	92
				0	100
				45	102
	109	112	Unit #1 - sandstone bed.	20	100
	112	126	Unit #1 - homogeneous gray shale.		
	126	132	Unit #1 - gray shale with fragments and pebbles of pyrite-rich quartzose material. Core angles very variable and fractures common; probable fault zone.	60	128
	132	145	Unit #1 - intraformational breccia; pyritic fragments common.	10	137
	145	165	Unit #1 - gray shale, homogeneous and poorly bedded; rare breccia beds, rare pyritic laminae.	45	143
	165	171	Unit #1 - homogeneous gray shale; fractured and offset pyrite beds and laminae; pyrite content probably 5%.	30	162
	171	176	Unit #1 - intraformational breccia; most fragments are rounded to very angular gray quartzose material in gray shale and are up to 2" across; many fragments have high pyrite content; shale matrix also high in pyrite; ratio of fragments to shale matrix about 2:3; the unit has appearance of a "dumped-in" breccia.	40	165

FOOTAGE		ROCK DESCRIPTION	CORE ANGLES	
FROM	TO		ANGLE	AT
168	178	165-168 - very high grade Pb-Zn-pyrite. Unit #3CS - extremely carbonaceous black shale - nearly coal; light, porous, homogeneous; no bedding	30°	166'
178	190	Unit #2U - conglomerate with about 40% carbonaceous black shale matrix; upper unit overlying 2 conglomerate.		
190	222	Unit #2 - conglomerate.	40	190
0	10	Overburden		
10	55	Unit #1 - finely bedded and laminated gray shale. 52-55 - carbonaceous interval.	60 55 60 50 50 60	10 14 27 39 44 50
55	92	Fault zone - all rock fractured. 62-65 - sandy conglomerate chips.		
92	290	65-92 - gray shale and sandy conglomerate chips. Unit #3CS - homogeneous, poorly bedded, soft, coaly, mildly pyritic black shale; 131-138 quartz veinlets in random pattern; rare pyrite laminae and thin beds	30 15 45 55 60 60 80 50 60 40 40 40 35 45 40 40 40 45 45 50 45 40 45 60 35	93 98 128 144 146 153 163 170 174 184 187 190 194 203 206 220 224 228 230 245 253 265 280 297
		142-153 - pyrite-rich laminae and thin beds make up 20% of this interval; rock is well bedded by the laminae; brown colouring may be sphalerite in these laminae.	60 40 40 40 35 45 40 40 40 45 45 50 45 40 45 60 35	174 184 187 190 194 203 206 220 224 228 230 245 253 265 280 297
		156-159 - quartz veining.	40 40 40 45 45 50 45 40 45 60 35	208 220 224 228 230 245 253 265 280 297
		240-250 - well bedded shale.	45 45 50 45 40 45 60 35	224 228 230 245 253 265 280 297
		245-250 - pyrite rich beds up to 1/2" thick.	50 45 40 45 60 35	230 245 253 265 280 297
		266-290 - extremely carbonaceous.	40 45 60 35	253 265 280 297
290	308	280-281 - very pyritic. Unit #3CS - intraformational conglomerate.	60 35	280 297
308	313	303-304 - extremely carbonaceous black shale. Unit #3CS - extremely pyritic black shale; well bedded, possibly sphalerite.		
(ASSAY: 309-313)				
313	328	Unit #3CS - very carbonaceous black shale; about 40% has high pyrite beds	40 25	311 320

5
ORTH
SE,
-50°

FOOTAGE		ROCK DESCRIPTION	CORE ANGLE	
FROM	TO		ANGLE	AT
328	339	Unit #3CS - intraformational conglomerate - black shale.	70°	332'
339	415	Ore zone - bedded barite; fine bedded with alternate beds of barite and pyrite-sphalerite-galena; sphalerite(?) is very pale pinkish tan, some has greenish tone.	30	338
(ASSAYS:			50	340
339-346			50	349
346-351			50	354
351-356			40	366
356-361			30	375
361-366			50	392
366-371		362-363 - brecciated	55	401
371-376			45	406
376-381		384-396 - sphalerite(?) has pale greenish yellow-tan colour.	65	409
381-386			70	414
386-391		396-413 - sphalerite(?) has pale tannish orange colour.		
391-396		413-415 - very high grade Pb-Zn-pyrite.		
396-401				
401-406				
406-411				
411-416)				
415	420	Unit #3CS - pyritic black shale.		
420	440	Unit #2 - conglomerate; rare shale intervals	70	424
			70	430
			60	438
440	<u>462</u>	Unit #1 - well bedded, pyritic gray shale; rare intraformational conglomerate beds; sections of very carbonaceous shale.	30	440
			60	461



	FOOTAGE		ROCK DESCRIPTION	CORE ANGLE		
	FROM	TO		ANGLE	AT	
#6 on ing from 7.5 SE, 45°	0	67	Overburden			
	67	147	Unit #1 - finely laminated shale	40°	68'	
			115-133 - carbonaceous, massive shale	20	133	
				40	146	
		147	216	Unit #1 - intraformational breccia alternates with laminated shale; pyritic-quartzose pebbles common in breccia; most pebbles angular; some white colored pebbles possibly barite	50	151
				40	157	
				50	161	
				40	190	
				20	193	
				40	195	
				5	197	
				40	198	
				50	215	
		216	221	Unit #1 - shale	40	225
		221	241	Unit #1 - intraformational conglomerate	20	228
		241	263	Unit #1 - porous matrix intraformational conglomerate	50	237
				50	239	
				245-248 - yellow iron oxide matrix	40	247
					40	267
		263	305	Unit #1 - thin beds and laminae of pyrite throughout; carbonaceous - shale	50	283
					20	295
					50	299
				284-286 - intraformational conglomerate		
				286-295 - very carbonaceous shale		
		305	319	Unit #1 - intraformational conglomerate		
		319	386	Unit #1 - finely laminated shale; light gray laminae are very pyritic and sandy	40	311
				55	316	
				50	321	
				50	330	
				50	340	
				40	343	
				50	364	
				40	371	
				55	380	
#7 on ing 45° 18SW, 7.5SE, 225°	0	75	Overburden			
	75	82	Unit #1 - finely laminated shale	60	72	
				55	78	
		82	182	Unit #1 - intraformational conglomerate; alternate beds of shale and conglomerate;	60	82
				40	105	
				30	116	
				40	122	
				25	131	
				50	160	
				50	165	
				50	170	
		182	248	Unit #1 - shale	45	210
					45	225
		248	282	Unit #1 - intraformational conglomerate; about 30% of unit is shale with pyritic-quartzose fragments	45	250
					50	255
					40	265
				40	285	
				60	290	
				55	300	

FOOTAGE		ROCK DESCRIPTION	CORE ANGLE	
FROM	TO		ANGLE	AT
282	297	Unit #1 - shale	60°	310'
			40	320
297	531	Unit #1 - siltstone-shale; evenly distributed quartzose fragments in dark gray shale matrix; more homogeneous and less laminated than above; locally very pyritic	35	330
			40	340
			30	350
			20	357
			50	370
			40	380
			40	395
			40	407
		305-306 - lighter colored sandy bed	35	430
			40	450
		308-309 - lighter colored sandy bed	50	470
			60	507
Assay checks at 312'		312-313 - lighter colored sandy bed	80	522
			50	534
320		319-324 - lighter colored sandy bed		
323		(Assays all negative for Pb and Zn - suspected sphalerite.)		
331				
326				
331	395	Road River? - very homogeneous, carbonaceous laminated shale		
		371 - one foot bed of solid pyrite		
395	<u>538</u>	Road River? - carbonaceous, well laminated shale; slip surfaces are carbon smeared.		

LOGS OF 1976 DIAMOND DRILL HOLES

DDH #8 17S, Line 0 on East East Jason Grid Claim Number 32 -90°	<u>FOOTAGE</u>		<u>ROCK DESCRIPTION</u>
	<u>FROM</u>	<u>TO</u>	
	0	56	Overburden
	56	84	Unit #3 - siliceous argillite containing thin lamina of pyrite and rare disseminated pyrite
	84	93	graphitic argillite, very porous and silty, high percentage disseminated pyrite, core angle in bedding 10 to 15 degrees.
	93	110	silicious argillite
	110	112	highly silicious siltstone including thin high percentage carbonate interbed
	112	121	silicious argillite
	121	122.4	calcareous siltstone with high pyrite content
	122.4	138	silicious argillite, good carbonaceous parting, few barite-pyrite laminae, core angles in bedding 3°
	138	139.6	silicious argillite containing contorted barite-galena-sphalerite-pyrite laminae
	139.6	141	silicious argillite
	141	144	silicious siltstone well laminated by pyrite and carbonaceous partings
	144	147.8	silicious argillite, core angle 2°
	147.8	152	highly silicious argillite, evenly disseminated pyrite throughout
	152	158	silicious argillite pyrite as concentrations in erratically spaced laminae, core angle 5°
	158.2	163	silicious argillite, pyrite as light peppered dissemination
	163	166.9	silicious argillite containing small irregular incomplete laminae rimmed by barite
	166.9	169	silicious argillite, pyrite increasing from irregular incomplete laminae to peppered disseminations
	169	179.6	silicious argillite, core angle 2°
	179.6	190	silicious argillite, pyrite as irregular small nodules and beds
	190	200	silicious argillite, pyrite as peppered disseminations, core angles 5°
	200	278	silicious argillite containing pyrite as peppered disseminations and incomplete laminae, occasional pyrite quartz laminae
	278	279.2	chert
	179.2	315.2	silicious argillite with spotted barite intervals, core angles generally 30°
	315.2	327.5	limestone beds in spotted barite-pyrite silicious argillite
	327.5	330	limestone bed
	330	366.8	silicious argillite with minor carbonaceous content, finely laminated and disseminated pyrite throughout, core angles generally 30°
	366.8	375	well laminated limestone

<u>FOOTAGE</u>		
<u>FROM</u>	<u>TO</u>	
375	411.8	silicious argillite with few thin pyrite laminae and ubiquitous disseminated pyrite core angle 30°
411.8	422	very pyritic limestone bed
422	468.1	silicious argillite with minor laminated pyrite core angles generally 30°
468.1	483	graphitic or carbonaceous argillite with minor silica content containing barite-quartz stringers
483	517.9	silicious argillites containing intervals of spotted barite-pyrite, core angles generally 25°
517.9	584.8	carbonaceous argillites with cyclic alternating silty non-salicious spotted barite horizons and moderately salicious ubiquitous barite and pyrite intervals - core angles generally 50°
584.8	621	silicious argillites with barite-pyrite cycles continuing
621	652.6	silicious argillite containing silty horizons of spotted barite pyrite and graphitic zones - core angles 45°
652.6	708	silicious argillites with minor carbon content - core angles about 50°
708	847	interbedded carbonaceous and silicious argillites containing minor silty interbeds of carbonaceous siltstone
847	855.4	carbonaceous siltstone
855.4	943.3	silicious argillites containing cyclic repetitions of spotted barite intervals described above
943.3	980.5	interbedded carbonaceous and silicious argillites containing independent zones of minor spotted barite and heavily disseminated pyrite - core angles about 40°
980.5	992	silty limestone, badly broken core
992	1002.8	silicious argillite, very low pyrite content, uniform broken core, core angles 40°
1002.2	1002.8	calcareous siltstone
1002.8	1015	silicious argillite with angular pyritic calcareous clasts dispersed throughout
1015	1016.2	inter-formation all conglomerate with angular calcareous fragments
1016.2	1077.6	silicious argillite with minor carbonaceous content, tuffaceous interbeds and detrital grains of barite included
1077.6	1079.7	tuffaceous siltstone grading into vesicular flow, vesicular material very pyritic, fine volcanic breccia at base of interval
1079.7	1109.2	carbonaceous siltstone and silicious argillite interbedded, core angles 10°
1109.2	<u>1151</u>	carbonaceous siltstones and silicious argillites

Hole was terminated due to drilling problems encountered because of excessive flattening of the hole causing abnormal rod fatigue and failure.

22,990,000'

22,990,000'

LEGEND

MESOZOIC

CRETACEOUS

K4 DYKES OF GRANITIC COMPOSITION

DEVONIAN-MISSISSIPPIAN (BESA RIVER GROUP)

5b SILTSTONE, FINE-GRAINED SANDSTONE, ARGILLITE; GRAY, TAN-GRAY WEATHERING; IRREGULAR-BEDDED, BLOCKY OUTCROPS; SANDSTONE COMMONLY CROSS-BEDDED.

3c TUFT BRECCIA, WELDED TUFT, ARGILLITE (3c), TUFT AND TUFFACEOUS ARGILLITE (3b); GRAPHIC AND SILICEOUS ARGILLITE; GRAYISH-BLACK COLOR, WEATHERS LIGHT BLuish-GRAY, FLAT TO MASSIVE IN OUTCROPS, THIN- TO MEDIUM-BEDDED, UNIFORM TEXTURE.

3b TUFFACEOUS ARGILLITE; LIGHT GRAYISH-BLACK COLOR, WEATHERS PINKISH-TAN TO BROWN, LAMINATED TO THIN-BEDDED WITH FINE- TO MEDIUM-GRAINED, RHYOLITIC TUFFACEOUS INTERBEDS, INTERBEDS GENERALLY SPACED 1/4" - 2", LESS SILICEOUS THAN 3b, RARE INTERBEDDED VOLCANIC BRECCIA; A LOWER DIVISION OF VOLCANIC BRECCIAS AND TUFTS MAY BE DISTINGUISHED - AS IN DDH 76-77.

3a ORE ZONE; MAINLY LAMINATED TO THIN-BEDDED LIGHT-GRAY BARITE, TAN, PINK OF TANNISH-GRAY SPHALERITE, GALENA AND PYRITE; OTHER VARIETIES INCLUDE HIGH-GRADE MASSIVE GALENA-SPHALERITE, INTERBEDDED ARGILLITE AND BROWN TO GRAY SPHALERITE AND GALENA, MASSIVE PYRITE WITH INTERSTITIAL AND BEDDED, VARIABLE-COLORED SPHALERITE AND GALENA (CROSS-HATCHED).

2 VOLCANIC BRECCIA; SPICY, WEATHERS BROWNISH-GRAY, HARD MASSIVE, BLOCKY OUTCROPS; COARSE, INSULAR FRAGMENTS OF MAINLY RHYOLITIC COMPOSITION IN MATRIX OF LITHIC-CRYSTAL TUFT AND ARGILLITE (2b) OR SILICEOUS CEMENT (2a); RARE INTERBEDS OF TUFT AND ARGILLITE (2b).

1b TUFT, TUFFACEOUS ARGILLITE, VOLCANIC BRECCIA; INTERBEDDED; GRAY, MEDIUM-BEDDED, MEDIUM- TO COARSE-GRAINED LITHIC-CRYSTAL TUFT; DARK GRAY UNIFORM-BEDDED SILTY ARGILLITE; GRAY, THIN-BEDDED, FINE-GRAINED TUFT; SPICY, LAMINATED TUFFACEOUS ARGILLITE; GRAY, MASSIVE-BEDDED, LITHIC-CRYSTAL VOLCANIC BRECCIA WITH DARK GRAY TUFFACEOUS ARGILLITE MATRIX (SUB-FLOW?) 1b - AS ABOVE WITH HIGH PERCENTAGE OF MASSIVE VOLCANIC BRECCIA UNITS AND VOLCANIC BRECCIA-ARGILLITE MEGABRECCIAS.

1a TUFFACEOUS ARGILLITE; GRAY, LAMINATED AND THIN-BEDDED TUFFACEOUS AND SILTY ARGILLITE; CHARACTERIZED BY LAMINAE AND THIN BEDS OF FINE LITHIC-CRYSTAL RHYOLITIC TUFT; OCCASIONAL INTERBEDS OF FINE- TO MEDIUM-GRAINED TUFT AND RARE BEDS OF MASSIVE VOLCANIC BRECCIA.

ORDOVICIAN (ROAD RIVER GROUP)

R1 ROAD RIVER FORMATION; BLACK COLOR, GRAY TO BLACK WEATHERING, THIN- TO MASSIVE-BEDDED, CARBONACEOUS, SILICEOUS TO CHERT, GRAPTOLITES COMMON. R1Ls - Limestone

OUTCROP LIMITS

GEOLOGICAL BOUNDARY (DEFINED, APPROXIMATE, ASSUMED)

OUTLINE OF MEMBERS WITHIN FORMATIONS

BEDDING ATTITUDE

CLEAVAGE ATTITUDE

FAULT (APPROXIMATE AND ASSUMED; TEETH SHOWING OF THRUSTS)

FOLD AXIS

MIN-CURVED SECTION

REGIONS (SIBL) STRATIONS

FLCAT (SIBL) BRITTE, SPHALERITE, GALENA

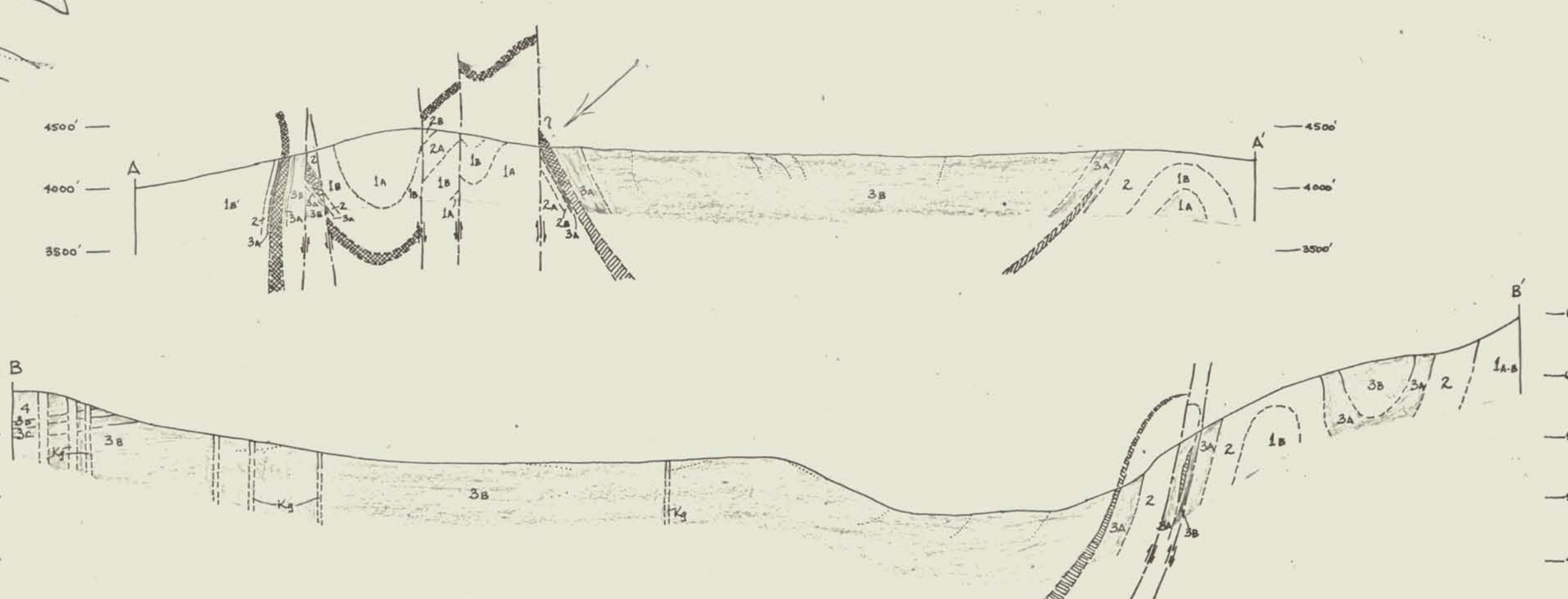
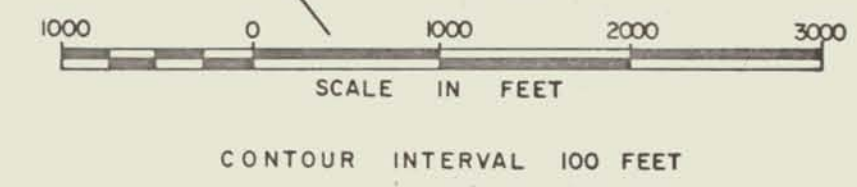
CLAM POSTS

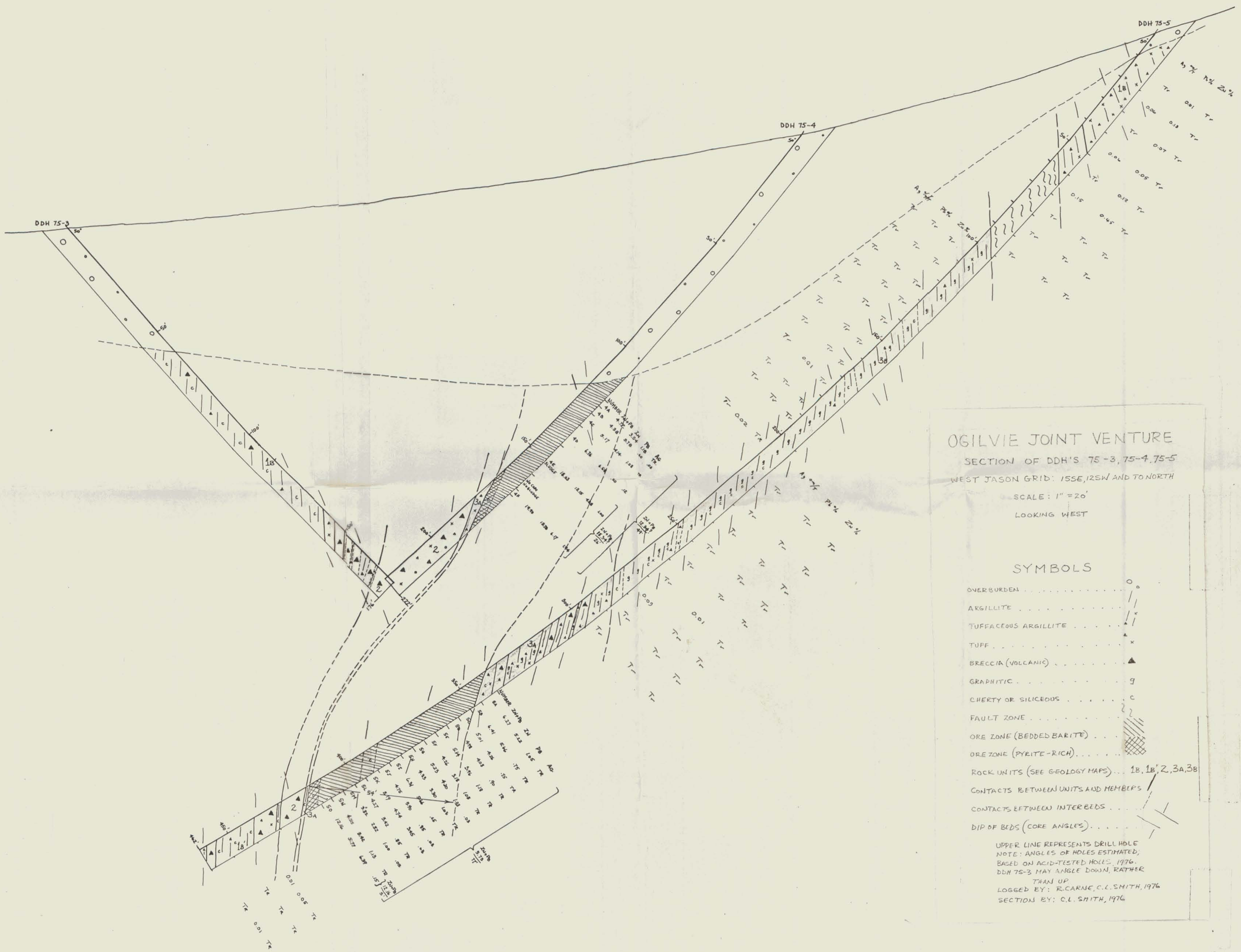
DIAMOND DRILL HOLES (SHOWING HORIZONTAL PROJECTIONS)

GEOLOGY BY C. L. SMITH, 1974
TOPOGRAPHY FROM 1"=1000' AEROPHOTO
MAP PREPARED BY NORTHWEST SURVEY CORP., 1974



OGILVIE JOINT VENTURE
GEOLOGY
AREA OF JASON AND TOM
PROPERTIES





OGILVIE JOINT VENTURE

SECTION OF DDH'S 75-3, 75-4, 75-5
 WEST JASON GRID: 15SE, 12SW AND TO NORTH

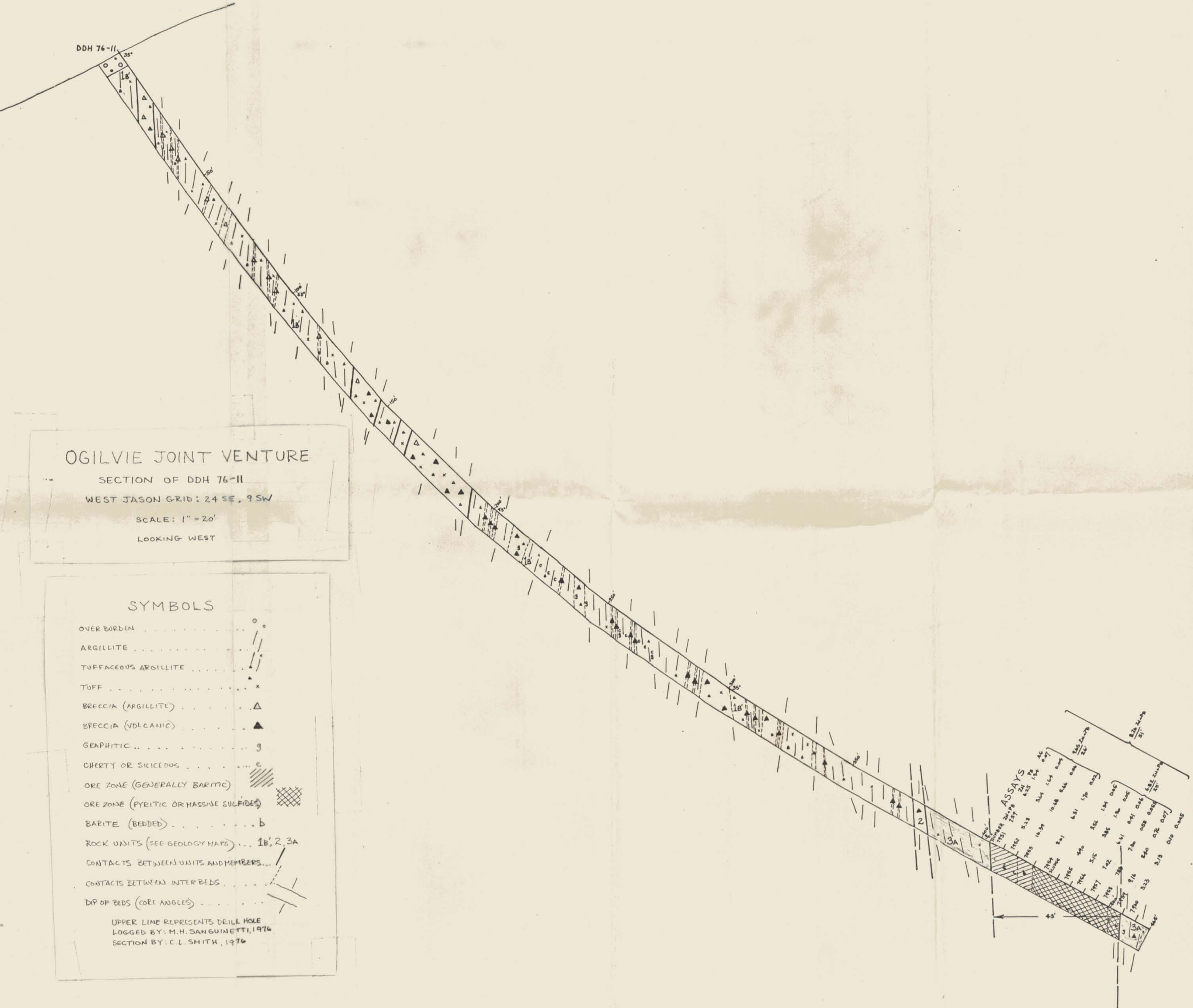
SCALE: 1" = 20'
 LOOKING WEST

SYMBOLS

- OVERBURDEN ○
- ARGILLITE /
- TUFFACEOUS ARGILLITE \
- TUFF x
- BRECCIA (VOLCANIC) ▲
- GRAPHITIC 9
- CHERTY OR SILICEOUS c
- FAULT ZONE - - - - -
- ORE ZONE (BEDDED BARITE) [Hatched]
- ORE ZONE (PYRITE-RICH) [Cross-hatched]
- ROCK UNITS (SEE GEOLOGY MAPS) 1B, 1B', 2, 3A, 3B
- CONTACTS BETWEEN UNITS AND MEMBERS [Dashed]
- CONTACTS BETWEEN INTERBEDS [Wavy]
- DIP OF BEDS (CORE ANGLES) [Tilted line]

UPPER LINE REPRESENTS DRILL HOLE
 NOTE: ANGLES OF HOLES ESTIMATED;
 BASED ON ACID-TESTED HOLES, 1976.
 DDH 75-3 MAY ANGLE DOWN, RATHER
 THAN UP
 LOGGED BY: R. CARNE, C.L. SMITH, 1976
 SECTION BY: C.L. SMITH, 1976

DDH 76-11



OGILVIE JOINT VENTURE

SECTION OF DDH 76-11

WEST JASON GRID: 24 SE, 9 SW

SCALE: 1" = 20'

LOOKING WEST

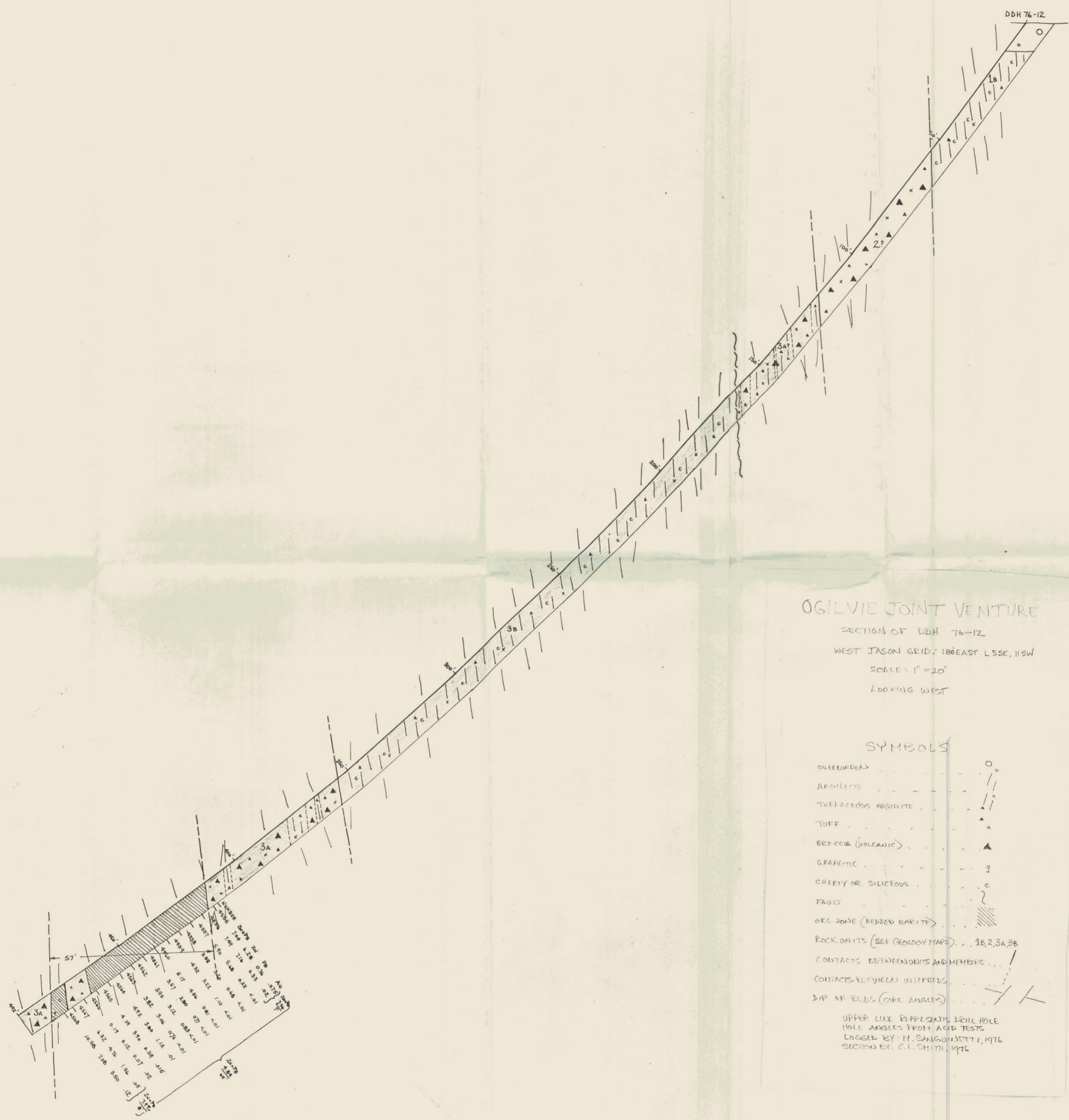
SYMBOLS

- OVER BURDEN
- ARGILLITE
- TUFFACEOUS ARGILLITE
- TUFF x
- BRECCIA (ARGILLITE) Δ
- BRECCIA (VOLCANIC) ▲
- GRAPHITIC g
- CHERTY OR SILICEOUS c
- ORE ZONE (GENERALLY BARITIC)
- ORE ZONE (PYRITIC OR MASSIVE SULFIDES)
- BARITE (BEDDED) b
- ROCK UNITS (SEE GEOLOGY MAPS) 1B, 2, 3A
- CONTACTS BETWEEN UNITS AND MEMBERS
- CONTACTS BETWEEN INTERBEDS
- DIP OF BEDS (CORE ANGLES)

UPPER LINE REPRESENTS DRILL HOLE
 LOGGED BY: M.H. SANGUINETTI, 1976
 SECTION BY: C.L. SMITH, 1976

ASSAYS

7951	24.19	2.25	1.34	Ac	24.19	2.25	1.34	0.07
7952	2.28	2.4	1.44	0.07	2.28	2.4	1.44	0.07
7953	10.34	10.16	6.16	0.04	10.34	10.16	6.16	0.04
7954	4.31	1.76	0.07		4.31	1.76	0.07	
7955	4.0	3.6	1.94	0.07	4.0	3.6	1.94	0.07
7956	7.02	6.41	1.6	0.07	7.02	6.41	1.6	0.07
7957	7.02	7.16	0.41	0.07	7.02	7.16	0.41	0.07
7958	9.16	8.40	0.76	0.07	9.16	8.40	0.76	0.07
7959	3.23	3.13	0.10	0.04	3.23	3.13	0.10	0.04

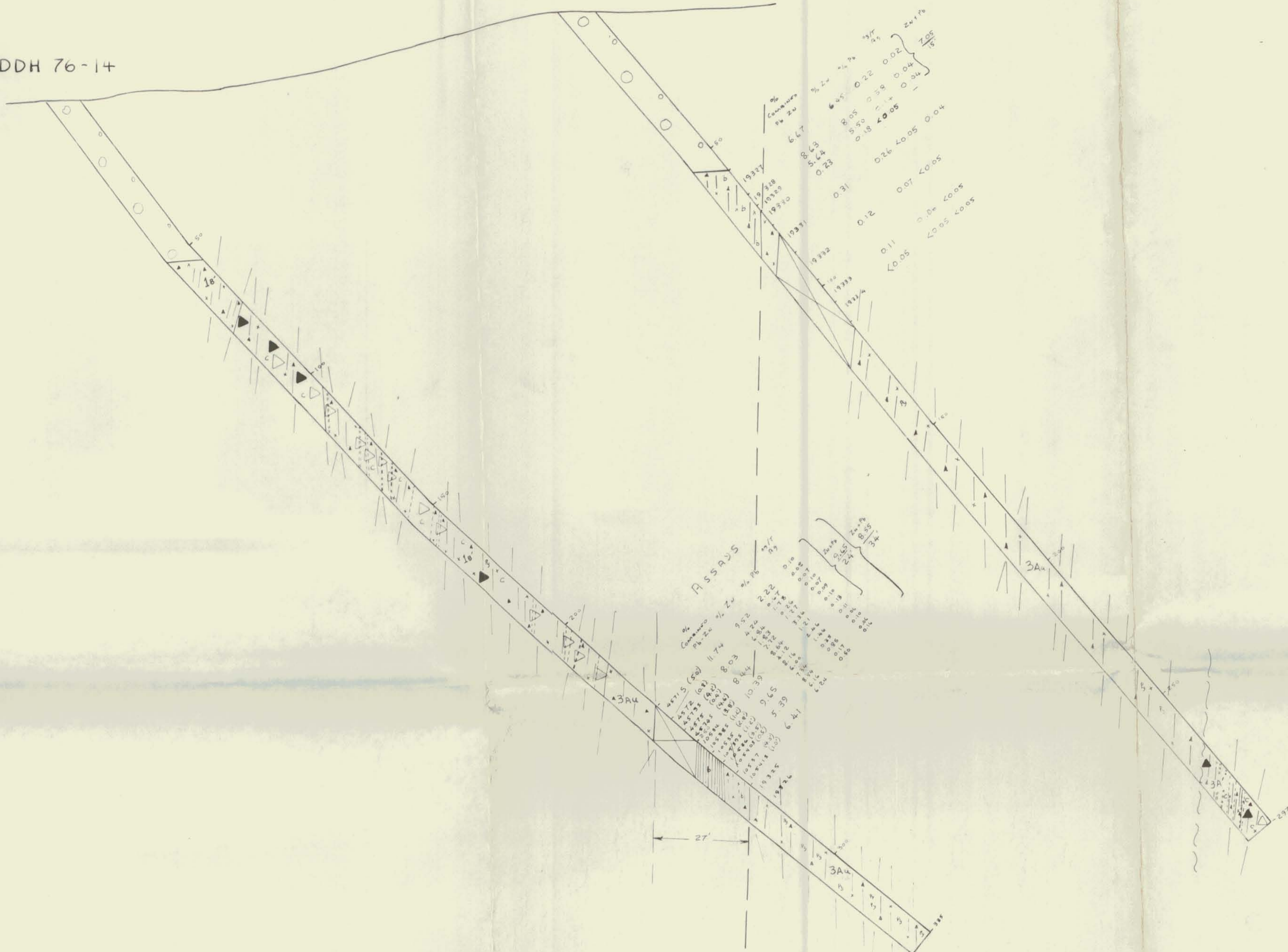


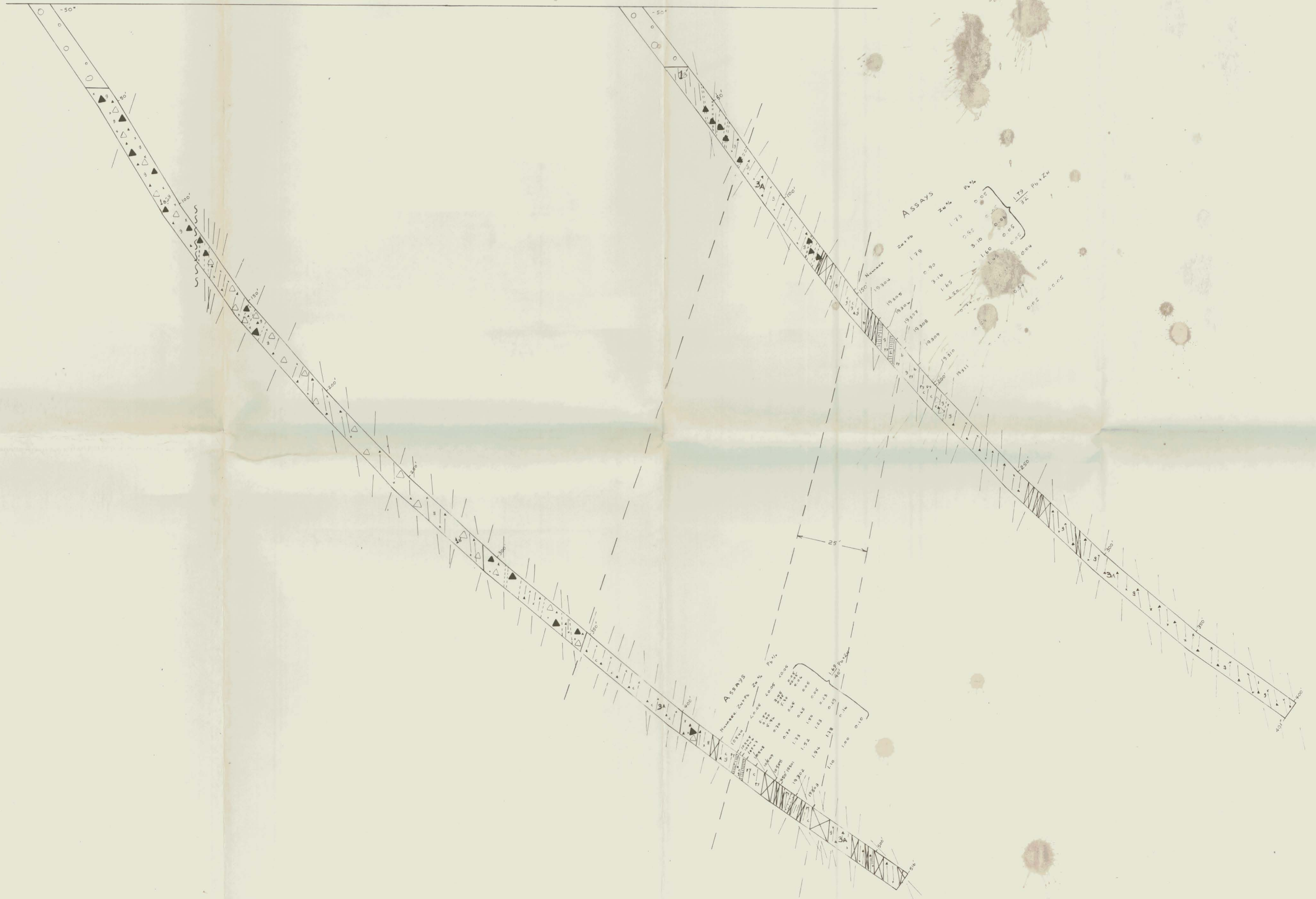
OGILVIE JOINT VENTURE
 SECTION OF DDH 76-12
 WEST JASON GRID: 180EAST L5SE, 11SW
 SCALE: 1" = 20'
 LOOKING WEST

- SYMBOLS
- OVERLAPED
 - ARGILLITE
 - TUFFACEOUS ARGILLITE
 - TUFF
 - BRECCIA (VOLCANIC)
 - GRAPHITE
 - CHESTY OR SILICEOUS
 - FAULT
 - ORE ZONE (BEDDED BARITE)
 - ROCK UNITS (SEE GEOLOGY MAPS) 1B, 2, 3A, 3B
 - CONTACTS BETWEEN UNITS AND MEMBERS
 - CONTACTS BETWEEN INTERPRETS
 - DIP OF BEDS (CORE ANGLES)
- UPPER LINE REPRESENTS DRILL HOLE
 HOLE ANGLES FROM ACID TESTS
 LOGGED BY: H. SANGUINETTI, 1976
 SECTION BY: C.L. SMITH, 1976

DDH 76-13A

DDH 76-14







BOX NO.	N.T.S. LOC.	PROPERTY	DRILLED FOR	YR.	HOLE NO.	INTERVAL		LIBRARY LOCATION	REMARKS
						FROM	TO		
3183	105/01	JASON	OGILVIE JOINT VENTURE		75 - 1	0		Rack 19	
3184									
3185									
3186					75 - 2				
3187									
3188									
3189									
3190									
3191									
3192									
3193									
3194									
3195									
3196									
3197									
3198									
3199									
3200									
3201					75 - 3				
3202									
3203									
3204					75 - 4				
3205									
3206									
3207					75 - 5				

COMPANY	OGILVIE JOINT VENTURE
PROPERTY	JASON
N.T.S.	105/0-1
LIBRARY LOCATION	19-20
BOX NOS.	3183 - 3540
OTHER	
REMARKS	<u>NOTE</u> BOXES MISSING. 3240-41-42-43-44-45 - hole 7 3373 74-75 hole (3) 3422-23 hole 15 3510-11-12 hole 20.

