

GEOPHYSICAL REPORT

on the JASON claims,
located about 10 miles SW of Macmillan Pass.
Claim sheet 105-0-1, 63°09'N 130°15'W.

by

Clyde L. Smith, Ph.D., P. Eng.
August 25 through 31, 1975
and
July 1 through 19, 1976

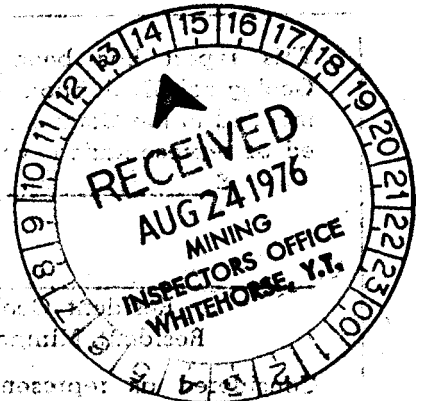


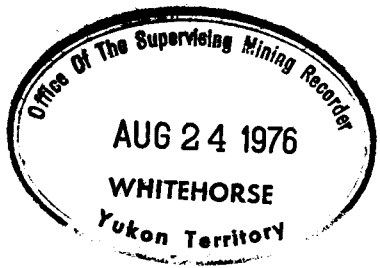
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Fig 2. Residual Geology Map	pocket

090153



This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of \$ 2200⁰⁰

2200

W. Sinclair

Resident Geologist or
Resident Mining Engineer

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

B.R. Baxter

B.R. BAXTER
Supervising Mining Recorder

for Commissioner of Yukon Territory

I. INTRODUCTION AND GENERAL GEOLOGY

During the period August 30 through September 6, 1975, and July 1 through July 19, 1976, gravity surveys were conducted by Airborne Geophysics Limited of Calgary, Alberta. The initial survey was conducted on a 5 line mile grid on the western portion of the Jason property. The base line trends northwesterly with cross lines at 1500 foot intervals trending southwest-northeast. Stations were located at 100 foot intervals. During the latter period an additional 24.7 line miles of grid were added to the above grid and again surveyed by gravity meter on 100 foot stations. A total of 8 days were involved in the initial survey, and 20 days in the latter survey. The Jason claims were staked during 1974 and 1975 by Ogilvie Joint Venture in order to cover an area of geological interest and geochemical anomalies similar in character to those known to occur over the Tom lead-zinc-silver property located a few miles to the east.

The regional geology in the vicinity of the Jason claims is shown on the Niddery Lake Sheet of the Geological Survey of Canada. Three main units outcrop on the Jason property, as listed below:

Devonian

Black Shale (Unit 3)

Conglomerate (Unit 2)

Ordovician-Silurian

Argillite (Unit 1)

The principle structures are a gently plunging anticline and syncline that are terminated to the west by a major fault that brings the underlying Ordovician-Silurian Road River formation into contact with the younger rocks listed above.

II. LIST OF CLAIMS

<u>Claim Name</u>	<u>Holder</u>	<u>Recording Date</u>
Jason 1-6	British Newfoundland Exploration Limited - In Trust	August 21-23, 1974
Jason 7-32	British Newfoundland Exploration Limited - In Trust	August 21-23, 1974
Jason 33-34	British Newfoundland Exploration Limited - In Trust	August 21-23, 1974
Jason 35-40	British Newfoundland Exploration Limited - In Trust	August 21-23, 1974
Jason 41-44	British Newfoundland Exploration Limited - In Trust	August 21-23, 1974
Jason 45-48	British Newfoundland Exploration Limited - In Trust	July 23, 1975
Jason 49-82	British Newfoundland Exploration Limited - In Trust	August 8, 1975
Jason 84	British Newfoundland Exploration Limited - In Trust	August 7, 1975
Jason 85-92	British Newfoundland Exploration Limited - In Trust	August 7, 1975
Jason 93-114	British Newfoundland Exploration Limited - In Trust	August 8, 1975
Jason 115-116	British Newfoundland Exploration Limited - In Trust	August 7, 1975
Jason 117-122	British Newfoundland Exploration Limited - In Trust	August 8, 1975
Jason 123-124	British Newfoundland Exploration Limited - In Trust	August 7, 1975
Jason 125-130	British Newfoundland Exploration Limited - In Trust	August 8, 1975
Jason 131-134	British Newfoundland Exploration Limited - In Trust	August 7, 1975
Jason 135-136	British Newfoundland Exploration Limited - In Trust	March 15, 1976 ?
Jason 138-140	British Newfoundland Exploration Limited - In Trust	March 15, 1976 ?
Jason 141-160	British Newfoundland Exploration Limited - In Trust	August 8, 1975
Jason 161-176	British Newfoundland Exploration Limited - In Trust	November 12, 1975
Mike 1-2	British Newfoundland Exploration Limited - In Trust	June 7, 1976 ?

III. TECHNIQUES EMPLOYED

Including tie lines there are 29.7 miles cut on the West Jason grid. These lines run from southwest to northeast intersecting in northwest-southeast trending base line and are spaced between 500 and 1000 feet apart, gravity stations being located at 100 foot intervals.

The level surveying and gravity work were carried out by Airborne Geophysics Limited of Calgary, Alberta. The SCINTREX CG2 gravity meter used measures variations in the Earth's gravity field to an accuracy of ± 0.01 mgals. Values of observed gravity were obtained every 100 feet along the picket line. Corrections for meter drift were obtained every 100 feet along the picket line. Corrections for meter drift were made by tying in to previously established base station at intervals not exceeding 2 to 3 hours. Drift of over 0.10 mgal/hour was not allowable. Elevations of gravity stations were determined by rod and transit using the stadia method. Errors in the tying-in of loops were kept to a minimum, this being dependent on the severity of the topography, but was less than 1.0' per loop. A density of 2.5 was used in calculations of the gravity results.

IV. RESULTS AND INTERPRETATION

Figure number 2 shows gravity values as residuals in mgals above regional gradients. The contour interval used on the map is 0.2 mgals. A number of distinctly anomalous areas may be noted, the most intense of which occurs in the central portion of the Jason grid wherein a feature of several thousand feet in length striking northerly is clearly outlined. The trend of the anomaly is broad but generally well defined having marked gradients particularly on the west side and as well on the east. Maximum amplitude is 3 mgals in the centre of the feature on line 10 southeast. During the fall of 1975 a Diamond Drilling program was conducted to test the geophysical feature and a zone of bedded barite containing several percent lead and zinc was

intercepted in the area of station number 10 southwest on line 15 southeast. The bed does not outcrop but its geological position may be traced in a general fashion to the north and south from this area of intersection and appears to have a correspondence with the direction of the gravity anomaly. In the surveyed area the stratigraphy is similar to that at the nearby Tom property, although obscured by quaternary overburden. A corresponding geochemical soil anomaly to be described in accompanying reports shows the strong association with the gravity feature on the Jason property and has been used as an aid in selecting locations for diamond drilling.

V. CONCLUSIONS AND RECOMMENDATIONS

The intersection of a 60 foot thick bedded barite zone with significant content of lead-zinc and silver associated with the gravity feature indicates that the size potential for a lead-zinc deposit of the type known to occur on the nearby Tom property is of good potential. It is strongly recommended that diamond drilling be continued to test the gravity feature and associated geochemical anomalies.

VI. PERSONNEL EMPLOYED

Airborne Geophysical Surveys Limited,
#600, 330-9th Avenue S.W.,
Calgary, Alberta.

Geological Supervision by C. L. Smith,
5354-6th Avenue,
Delta, British Columbia.

VII. QUALIFICATIONS OF C. L. SMITH, AUTHOR

Education

Carleton College, Northfield, Minn., U.S. - B.A. received 1959

University of B.C., Vancouver, B.C. - M.Sc. received 1962

University of Idaho, Moscow, Idaho, U.S. - Ph.D. received 1966

Employment

1970 - present: Consulting Geologist, Vancouver, B.C.

1968 - 1970: Director and Exploration Manager,
Spartan Explorations Limited

1966 - 1968: Chief Geologist, Atlas Explorations Limited

1965 - 1966: Senior Geologist, Kerr-Addison Mines Ltd.

Professionals

Registered Professional Engineer, Association of
Professional Engineers, Province of British Columbia.

VIII. EXPENDITURES

August 30 - September 6, 1975

5 line miles, geophysical surveying \$ 3,000.00
8 days @ \$375.00/day + travel

July 1-19, 1976

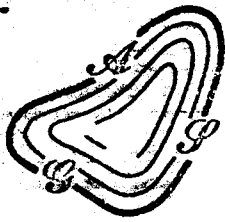
24.7 line miles requiring 20 days @
\$375.00/day + travel and interpretation 10,000.00

Linecutting - between June 24 and July 9, 1976

24.7 line miles @ \$180.00/mile 4,446.00

TOTAL \$17,446.00

13,800.19



Airborne Geophysical Surveys Ltd.

Calgary Alberta

#600. 330 - 9TH AVE. S.W.
CALGARY, ALBERTA T2P 1K7
PHONE 403 - 264-3434

August 4, 1976

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

AUG - 9 1976

STATEMENT - GRAVITY SURVEY

Pete Grid:

June 18-25 (Incl.)
June 28 (1/2 day)
June 30
= 9 1/2 days @ \$375. \$ 3,562.50



oat

East Jason

June 26-27
July 17
= 3 days @ \$375. \$ 1,125.00

West Jason

June 28 (1/2 day)
June 29
July 1-7
July 10-16
July 18
= 16 1/2 days @ \$375. 6,187.50

Travel Faro-Prospect (June 17)
" Prospect-Faro (July 20)
= 2 days @ \$375 750.00

Mob.-demob. (Calgary-Faro-Calgary)
Your share 31/50 x \$2,500 1,550.00

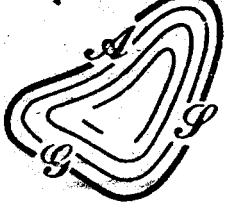
Misc expenses (see attached)
R. Arsenault exp. \$ 89.12
Cigarettes, etc. credit (18.16) 70.96

Consulting trips - RB Galeski (airfare = \$50/day expenses)
June 15-19 \$611., your share 1/3 203.67
July 19-22 \$561., your share 1/3 187.00

TOTAL \$13,636.63

369
8/11/76

OK
C. Smith
See application above



Airborne Geophysical Surveys Ltd.

Calgary Alberta

#600.330 - 9TH AVE. S.W.
CALGARY, ALBERTA T2P 1K7
PHONE 403 - 264-3434

September 10, 1975

Ogilvie Joint Venture
c/o Brown, Farris & Jefferson
200 Grandville St.
Vancouver, B.C.

STATEMENT

Gravity Crew

8 days (30 Aug. to 6 Sept. incl.) @ \$395.00/day\$3,160.00

Travel - Ross River to prospect & return
360 miles @ .25¢/mile 90.00

Ross River Store credit on propane tank
applied against our account (55.00)

Share in mob. and demob. 8/54 X 3,814.00
(see attached) 565.04

TOTAL \$3,760.04

(Any invoices not yet received will follow)

OK C/S
- geophysical

225

Please see check for: Box of material
Main St. Branch, White # 9/1/1976-257

OUR NUMBER	19149
DATE	AUG 7, 1976
CUSTOMER'S ORDER	
TERMS	VANCOUVER B.C.
F.O.B.	

SOLD TO OGILVIE JOINT VENTURE
1860 GRANVILLE SQUARE-200 GRANVILLE ST
 SHIPPED TO EASTERN ASSOCIATES REG
 ADDRESS BOX 4152 WHITEHORSE VIA YUKON TERR

REF PROJECT LINE GRID				
WEST JASON 20.8 MILES				
EAST JASON 3.2 MILES				
EAST JASON 1.0 MILES				
PETE GRID 9.0 MILES				
34.0 M				
34.0 M @ 180 PER MILE COST			4/	6,120.00
THANK YOU Rogee 8/10/76	#366	8/10/76		
TOTAL COST			4/	6,120.00

42
1
85
27

Rediform 7M32

thh
 1170



GEOCHEMICAL REPORT
on the JASON claims,
located about 10 miles SW of Macmillan Pass.
Claim Sheet 105-0-1, 63°09'N, 130°15'W

by

Clyde L. Smith, Ph.D., P.Eng.

July 1 through 19, 1976

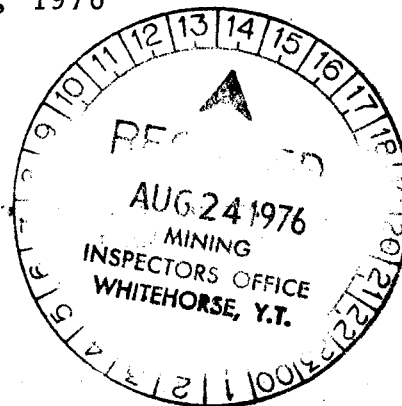


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Fig 2.	Values Map for Lead, Zinc and Barium in ppm	Pocket
Fig 3.	Lead Contour Map	Pocket
Fig 4.	Zinc Contour Map	Pocket
Fig 5.	Barium Contour Map	Pocket

090153



This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of \$ 2100⁰⁰

2100

W. Sinclair

~~Resident Geologist or
Resident Mining Engineer~~

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

[Signature]
S.R. BAXTER
Supervising Mining Recorder

[Signature]
Commissioner of Yukon Territory

I. INTRODUCTION AND GENERAL GEOLOGY

During the period July 1 to July 19, 1976, a total of 24.7 line miles of geochemical soil sampling was conducted on the grids shown on the accompanying location sketch (Fig 1, Page 2). Samples were taken from the upper portion of B horizon at an average depth of around six inches on stations spaced at 100 foot intervals along the lines shown; tie lines were not sampled.

The Jason claims were staked by Ogilvie Joint Venture in 1974 and 1975 and contain an area of geological, geophysical and geochemical interest which was diamond drilled in late 1974 and is currently being drilled in an effort to delineate a bedded barite horizon containing lead-zinc content lying at a stratigraphic level similar to that of the Tom deposit a few miles to the east. The regional geology in the vicinity of the Jason claims is shown on the Nidderly Lake sheet of the Geological Survey of Canada. Three main rock units outcrop on the Jason property, as listed below:

Devonian

Black shale (unit 3)

Conglomerate (unit 2)

Ordovician-Silurian

Argillite (unit 1)

The principal structures are a gently plunging anticline and syncline that are terminated to the west by a major fault that brings the underlying Ordovician-Silurian Road River formation into contact with the younger rocks listed above.

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Mike 1-2	British Newfoundland Exploration Limited - In Trust	June 7, 1976 ?

III. TECHNIQUES EMPLOYED

Soil samples were collected from the B horizon in pits dug by iron madock at a spacing of 100 feet along lines of the Jason grid. Geochemical sample sites coincide with gravity stations. Sample drying and analysis were carried out by Barringer Research of Whitehorse. After being dried and screened, 250 mg of -80 mesh material was digested for 4 hours in perchloric acid, the volume diluted to a standard volume and this solution analysed on an atomic absorption spectrometer for Pb and Zn. For barium a 250 mg sample was digested for one hour in EDTA, the volume adjusted and the solution analysed by atomic absorption spectrometer.

IV. RESULTS AND INTERPRETATIONS

Figure 3 is a geochemical lead contour map showing values in ppm with contour intervals of 100 ppm. Statistical plots of Pb values from the entire grid area indicated a threshold at approximately 100 ppm. An intense and distinct lead geochemical anomaly may be traced on the grid from line 10 southeast in a southerly direction toward line 44 southeast where the anomaly is clearly outlined by the 100 ppm contour and shows peak values of up to 1,000 ppm. It should be noted that deeper pits dug in locations of intense lead values have returned results of up to 2300 ppm lead. The geochemical anomaly shows a strong correlation with the gravity anomaly described in an accompanying report on the geophysics of the Jason property. Drilling in 1975 and that which is currently being conducted in the area of the lead anomaly has resulted in the interception of a 60 foot thick bedded barite zone containing significant content of lead and zinc. It appears that the lead geochemistry is one of the primary features on which the location of diamond drill holes may be located.

Figure 4 is a zinc contour map having contour intervals at 400, 600, 1000 and 2000 + ppm. The large area of anomalous zinc may be seen along the southwestern margin of the grid lying west of the boundary fault separating an area of folded units one, two and three on the east outcropping Road River formation to the west. It is believed that the high zinc values in the main are expressing background content in the Road River shale. An intense zinc geochemical anomaly is located along the base line between lines 30 and 40 southeast. An explanation for this anomaly has not been obtained, and it could perhaps indicate the position of a bedded barite zone such as that intercepted on line 15 southwest of the base line. Other areas of anomalous zinc content occur on the East Jason grid located to the north of the main grid area where values reach in excess of 700 ppm and again correspond in a general fashion with a previously located gravity anomaly. High values in excess of 600 ppm are also found along the northern edge of a grid in the northeast corner of the map area. These two areas of zinc geochemistry are believed to correspond with hydromorphically dispersed zinc lying in the river valley of the South Macmillan River which divides areas of outcrop through the central part of the Jason property.

Figure 5 is a barium contour geochemical map showing a number of scattered anomalous areas on the Jason grids. Maximum values of 3000 and 4000 ppm have been found in the northern portion of the grid areas. Explanations for these features have not been obtained, however they show a general correspondence with zinc geochemical anomalies in some cases with gravity features. A pronounced anomaly appearing along the southwestern portion of lines 15 and 20 southeast correspond in a general way with both lead and zinc geochemical anomalies and appear to correspond with an area of geochemical dispersion perhaps related to the bedded barite occurrence intersected in drilling in 1975 and mentioned above.

V. CONCLUSIONS AND RECOMMENDATIONS

The general correspondence between the lead geochemical feature described above and the gravity feature described in the accompanying geophysical report indicates an extensive area of anomalous geophysical and geochemical results exists in the central portion of the principal grid on the Jason property. Diamond drilling has successfully located a bedded barite occurrence with lead and zinc content corresponding with the lead and gravity features and it is strongly recommended that additional drilling be conducted to trace the distribution of this barite zone and to test the lead-zinc content within it.

VI. PERSONNEL EMPLOYED

C. L. Smith, Geologist,
5364 - 6th Avenue,
Delta, B.C.

J. Fairbank, Geochemical Sampler,
Galiano Island, B.C.

J. Russell, Geochemical Sampler,
General Delivery,
Ross River, Y.T.

T. McClymont, Geochemical Sampler,
General Delivery,
Ross River, Y.T.

C. Devin, Geochemical Sampler,
General Deliver,
Whitehorse, Y.T.

VII. QUALIFICATIONS OF C. L. SMITH, AUTHOR

Education

Carleton College, Northfield, Minn., U.S. - B.A. received 1959
University of B.C., Vancouver, B.C. - M.Sc. received 1962
University of Idaho, Moscow, Idaho, U.S. - Ph.D. received 1966

Employment

1970 - present: Consulting Geologist, Vancouver, B.C.
1968 - 1970: Director and Exploration Manager,
Spartan Explorations Limited
1966 - 1968: Chief Geologist, Atlas Explorations Limited
1965 - 1966: Senior Geologist, Kerr-Addison Mines Ltd.

Professionals

Registered Professional Engineer, Association of
Professional Engineers, Province of British Columbia.

VIII. EXPENDITURES

Salaries - an average of \$40/day for 2 men for 20 days =	\$ 1,600.00
Subsistence and accommodation	600.00
Travel	300.00
Geochemical analysis - 1285 samples @ \$3.25/sample =	4,175.00
Linecutting - 24.7 line miles @ \$180.00/mile =	<u>4,446.00</u>
	<u>\$ 11,121.00</u>

PAY ROLL RECORD

No. _____ Period July 1-31/76

NAME John Russell

Wages { Regular . . . \$ 1000⁰⁰~~xx~~
Overtime . . . \$ _____

_____ \$ _____

TOTAL WAGES - \$ 1000⁰⁰~~xx~~

DEDUCTIONS FROM WAGES:

- 1. Can. Pension Plan - \$ _____
- 2. Unemployment Ins. - \$ _____
- 3. Comp. Pension Fund \$ _____
- 4. Income Tax - . . - \$ _____
- 5. Hospitalization Ins. - \$ _____
- 6. Group Insurance - \$ _____
- 7. Bonds - . . . - \$ _____
- 8. _____ \$ _____
- 9. _____ \$ _____

Total Deductions \$ _____

NET WAGES \$ _____

PAY ROLL RECORD

No. _____ Period July 1-8/76

NAME Jay Fairbank

Wages { Regular . . . \$ 272⁷⁰
Overtime . . . \$ _____

Holiday pay \$ 41⁸²

TOTAL WAGES - \$ 314⁵²

DEDUCTIONS FROM WAGES:

- 1. Can. Pension Plan - \$ 5⁰⁶
- 2. Unemployment Ins. - \$ 5¹⁹
- 3. Comp. Pension Fund \$ _____
- 4. Income Tax - . . - \$ 42⁵⁰
- 5. Hospitalization Ins. - \$ _____
- 6. Group Insurance - \$ _____
- 7. Bonds - . . . - \$ _____
- 8. _____ \$ _____
- 9. _____ \$ _____

Total Deductions \$ 53⁰⁵~~xx~~

NET WAGES \$ 261⁴⁷~~xx~~

July 19, 76

Received from C.L.
Smith for 6 days
of soil sampling on
W. Toon grid. \$300⁰⁰
each.

Signed —

\$300 →

Jane McClaymont

\$300 →

~~Carol Jones~~

OK CS



BARRINGER RESEARCH LIMITED

JUL 23 1976

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-677-2491
CABLE: BARESEARCH

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE EARTH SCIENCES

DATE: July 19, 1976

PROJECT: 119.41

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT:

FED. SALES TAX:

ONT. SALES TAX:

#19-A

N/A

N/A

Ogilvie Joint Venture
c/o Brown, Farris & Jefferson
1860-200 Granville Street
VANCOUVER, British Columbia.

TERMS: NET 30 days

AUTHORITY: C. Smith

TO: GEOCHEMICAL ANALYSIS

217 HClO ₄ samples analyzed for lead	@1.30 each	282.10
217 HClO ₄ samples analyzed for zinc	@ .50 each	108.50
217 EDTA samples analyzed for barium	@1.30 each	282.10
217 Soil sample preparation	@ .35 each	75.95

TOTAL INVOICE

\$748.65

INVOICE N° 3617

BARRINGER RESEARCH LIMITED

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-677-2491
CABLE: BARESEARCH

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE EARTH SCIENCES

DATE: July 9, 1976

PROJECT: 119.41

• Ogilvie Joint Venture
• c/o Brown, Farris & Jefferson
• 1860 - 200 Granville Street
• VANCOUVER, British Columbia.

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: #11-A

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

TERMS: NET 30 days

AUTHORITY: C. Smith

TO: GEOCHEMICAL ANALYSIS

233 HClO ₄ samples analyzed for lead	@1.30 each	302.90
233 HClO ₄ samples analyzed for zinc	@ .50 each	116.50
233 EDTA ₄ samples analyzed for barium	@1.30 each	302.90
233 Soil sample preparation	@ .35 each	<u>81.55</u>

TOTAL INVOICE

\$803.85
=====

COPY

INVOICE N^o 3590

BARRINGER RESEARCH LIMITED

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-677-2491
CABLE: BARESEARCH

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE EARTH SCIENCES

DATE: July 19, 1976

PROJECT: 119.41

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: #16-A

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

JUL 29 1976

•• Ogilvie Joint Venture
•• c/o Brown, Farris & Jefferson
•• 1860-200 Granville Street
•• VANCOUVER, British Columbia.

TERMS: NET 30 days

AUTHORITY:

TO: GEOCHEMICAL ANALYSIS

327 HClO ₄ samples analyzed for lead	@1.30 each	425.10
327 HClO ₄ samples analyzed for zinc	@ .50 each	163.50
327 EDTA ₄ samples analyzed for barium	@1.30 each	425.10
327 Soil sample preparation	@ .35 each	<u>114.45</u>

TOTAL INVOICE

\$1,128.15

Obcell
to appointment
Center

COPY

INVOICE N^o 3647



BARRINGER RESEARCH LIMITED

JUL 23 1976

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-677-2491
CABLE: BARESEARCH

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE EARTH SCIENCES

DATE: July 19, 1976

PROJECT: 119.41

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: #15-A

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

- Ogilvie Joint Venture
c/o Brown, Farris & Jefferson
- 1860-200 Granville Street
VANCOUVER, British Columbia.
-

TERMS: NET 30 days

AUTHORITY: C. Smith

TO: GEOCHEMICAL ANALYSIS

127 HClO ₄ samples analyzed for lead	@1.30 each	165.10
127 HClO ₄ samples analyzed for zinc	@ .50 each	63.50
127 EDTA samples analyzed for Barium	@1.30 each	165.10
127 Soil sample preparation	@ .35 each	44.45

TOTAL INVOICE

\$438.15
=====

INVOICE N^o 3646



BARRINGER RESEARCH LIMITED

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-677-2491
CABLE: BARESEARCH

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE EARTH SCIENCES

DATE: July 30, 1976

PROJECT: 119.41

Ogilvie Joint Venture
c/o Brown, Farris & Jefferson
1860-200 Granville Street
VANCOUVER, British Columbia.

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: #21-A

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

TERMS: NET 30 days

AUTHORITY: C. Smith

TO: GEOCHEMICAL ANALYSIS

245 HClO ₄ samples analyzed for lead	@1.30 each	318.50
245 HClO ₄ samples analyzed for zinc	@ .50 each	122.50
244 EDTA Barium samples	@1.30 each	317.20
245 Soil sample preparation	@ .35 each	<u>85.75</u>

TOTAL INVOICE

\$843.95



BARRINGER RESEARCH LIMITED

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-677-2497
CABLE: BARESEARCH

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE EARTH SCIENCES

DATE: July 31, 1976

PROJECT: 119.41

- Ogilvie Joint Venture
- c/o Brown, Farris & Jefferson
- 1860-200 Granville Street
- VANCOUVER, British Columbia.

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: #23-A

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

TERMS: NET 30 days

AUTHORITY: C. Smith

TO: GEOCHEMICAL ANALYSIS

146 HClO ₄ samples analyzed for lead	@1.30 each	189.80
146 HClO ₄ samples analyzed for zinc	@ .50 each	73.00
146 EDTA Barium samples	@1.30 each	189.80
146 Soil sample preparation	@ .35 each	<u>51.10</u>

TOTAL INVOICE

\$503.70

INVOICE N^o 3729



BARRINGER RESEARCH LIMITED

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-677-2491
CABLE: BARESEARCH

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE EARTH SCIENCES

DATE: July 30, 1976

PROJECT: 119.41

Ogilvie Joint Venture
c/o Brown, Farris & Jefferson
1860-200 Granville Street
VANCOUVER, British Columbia.

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: #27-A

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

TERMS: NET 30 days

AUTHORITY: C. Smith

TO: GEOCHEMICAL ANALYSIS

165 H2O Soluble Barium

@1.30 each

214.50

TOTAL INVOICE

\$214.50

INVOICE No 3733



BARRINGER RESEARCH LIMITED

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-677-2491
CABLE: BARESEARCH

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE EARTH SCIENCES

DATE: July 30, 1976

PROJECT: 119.41

Ogilvie Joint Venture
c/o Brown, Farris & Jefferson
1860-200 Granville Street
VANCOUVER, British Columbia.

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: #25-A

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

TERMS: NET 30 days

AUTHORITY: C. Smith

TO: GEOCHEMICAL ANALYSIS

71 HClO ₄ samples analyzed for lead	@1.30 each	92.30
71 HClO ₄ samples analyzed for zinc	@ .50 each	35.50
71 CxHCl samples analyzed for lead	@1.30 each	92.30
71 CxHCl samples analyzed for zinc	@ .50 each	35.50
71 EDTA Barium samples	@1.30 each	92.30
71 H ₂ O Barium samples	@1.30 each	92.30
71 Soil sample preparation	@ .35 each	24.85

TOTAL INVOICE

\$465.05

INVOICE No 3731



BARRINGER RESEARCH LIMITED

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-677-2491
CABLE: BARESEARCH

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE EARTH SCIENCES

DATE: July 31, 1976

PROJECT: 119.41

- Ogilvie Joint Venture
- c/o Brown, Farris & Jefferson
- 1860-200 Granville Street
- VANCOUVER, British Columbia

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: #29-A

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

TERMS: NET 30 days

AUTHORITY: C. Smith

TO: GEOCHEMICAL ANALYSIS

63 CxHCL samples analyzed for lead	@1.30 each	81.90
63 CxHCL samples analyzed for zinc	@ .50 each	31.50
63 HClO ₄ samples analyzed for lead	@1.30 each	81.90
63 HClO ₄ samples analyzed for zinc	@ .50 each	31.50
63 EDTA ⁴⁻ barium samples	@1.30 each	81.90
63 Soil sample preparation	@.35 each	22.05

TOTAL INVOICE

\$330.75

INVOICE N^o 3735

Please send check to: Dept. Technical
 Hand St. Wood, when 1st of month 1977

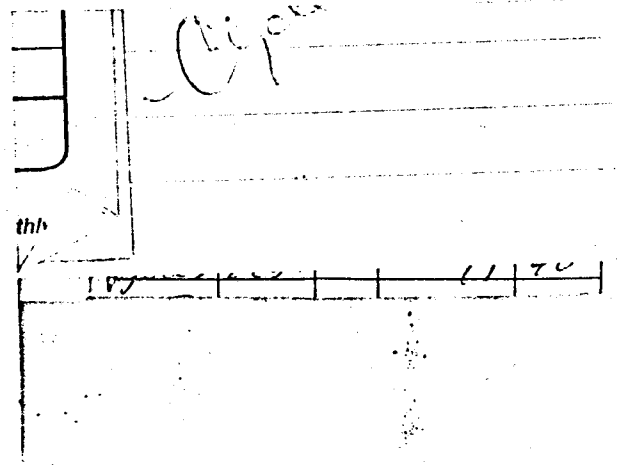
OUR NUMBER	19149
DATE	AUG 7, 1976
CUSTOMER'S OFFER	
TERMS	
F.O.B.	

SOLD TO GILVIE JOINT VENTURE
 1860 GRANVILLE SQUARE - 200 GRANVILLE ST
 SHIPPED TO EASTERN ASSOCIATES REG
 ADDRESS BOX 4152 WHITEHORSE VIA YUKON TERR

REF PROJECT LINE GRID			
WEST JASON 20.8 MILES			
EAST JASON 3.2 MILES			
EAST JASON 1.0 MILES			
PETE GRID 9.0 MILES			
34.0 M			
34.0 M. @ 180 PER MILE COST		4/	6,120.00
THANK YOU 8/10/76	#366 8/10/76		4/ 6,120.00
TOTAL COST			

42
1
FS
27

Rediform 7M32





JASON

Y9718B Y9718C

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46

Y96193 Y96195

3

5

Y9718D Y9718E

Y96192 Y96194

14

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GEOLOGICAL REPORT
on the JASON claims,
located about 10 miles SW of Macmillan Pass
Claim Sheet 105-0-1, 63°09'N 130°15'W.

by

Clyde L. Smith, Ph.D., P.Eng.
July 1 through 31, 1976



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II. List of Claims	2
III. General Geology	3
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V. Personnel Employed	5
VI. Qualifications of C. L. Smith, Author	6
VII. Expenditures	7

LIST OF ILLUSTRATIONS

	Page
Fig 1. Key Sketch, Location	
Fig 2. Geological Map	Pocket

070133



This report has been examined by the Geological Evaluation Unit and is recommended to the Commission to be considered as representation work in the amount of \$ 2100⁰⁰

2100

W. Sinclair

~~Resident Geologist or
Resident Mining Engineer~~

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

[Signature]

B.R. BAXTER
Supervising Mining Recorder

[Signature]
Commissioner of Yukon Territory

I. INTRODUCTION

During the periods October 1 to November 5, 1975, detailed geological examinations were conducted in the central and western portions of the Jason property in an effort to more accurately define the position of a bedded barite deposit located by drilling in areas of anomalous gravity and geochemical results obtained during the fall of 1975. The Jason claims were staked in 1974 and 1975 by Ogilvie Joint Venture, and are of interest because the geology is similar to that of the nearby Tom lead-zinc-silver deposit.

II. LIST OF CLAIMS

<u>Claim Name</u>	<u>Holder</u>	<u>Recording Date</u>
Jason 1-6	British Newfoundland Exploration Limited - In Trust	August 21-23, 1974
Jason 7-32	British Newfoundland Exploration Limited - In Trust	August 21-23, 1974
Jason 33-34	British Newfoundland Exploration Limited - In Trust	August 21-23, 1974
Jason 35-40	British Newfoundland Exploration Limited - In Trust	August 21-23, 1974
Jason 41-44	British Newfoundland Exploration Limited - In Trust	August 21-23, 1974
Jason 45-48	British Newfoundland Exploration Limited - In Trust	July 23, 1975
Jason 49-82	British Newfoundland Exploration Limited - In Trust	August 8, 1975
Jason 84	British Newfoundland Exploration Limited - In Trust	August 7, 1975
Jason 85-92	British Newfoundland Exploration Limited - In Trust	August 7, 1975
Jason 93-114	British Newfoundland Exploration Limited - In Trust	August 8, 1975
Jason 115-116	British Newfoundland Exploration Limited - In Trust	August 7, 1975
Jason 117-122	British Newfoundland Exploration Limited - In Trust	August 8, 1975
Jason 123-124	British Newfoundland Exploration Limited - In Trust	August 7, 1975
Jason 125-130	British Newfoundland Exploration Limited - In Trust	August 8, 1975
Jason 131-134	British Newfoundland Exploration Limited - In Trust	August 7, 1975
Jason 135-136	British Newfoundland Exploration Limited - In Trust	March 15, 1976 ?
Jason 138-140	British Newfoundland Exploration Limited - In Trust	March 15, 1976 ?
Jason 141-160	British Newfoundland Exploration Limited - In Trust	August 8, 1975
Jason 161-176	British Newfoundland Exploration Limited - In Trust	November 12, 1975
Mike 1-2	British Newfoundland Exploration Limited - In Trust	June 7, 1976 ?

III. GENERAL GEOLOGY

Regional geology of the Macmillan Pass area is shown on the Nidderly Lake sheet of the Geological Survey of Canada. The stratigraphic sequence in the general vicinity of the JASON claims is as listed below:

Devonian and Mississippian (?)

- Unit 4: Brown-weathering siltstone, often cross-bedded.
- Unit 3: Black carbonaceous shale, laminated, massive, siliceous, or argillaceous in places. Barite in lower both bedded and as spots. Host to mineralisation at TOM deposit.
- Unit 2: Resistant, craggy-outcropping conglomerate, Cherty, quartzitic and argillaceous clasts to 6" in diameter. Some interbedded sandstone.
- Unit 1: Rusty brown-weathering argillite characteristically with $\frac{1}{4}$ to 1 inch alternating light and dark grey bands.

Ordovician-Silurian

Road River Formation: Silver-weathering black graptolitic shales. Grey limestone, tan siliceous dolomite.

Stocks of Cretaceous granitic rock intrude and hornfels these sediments and modify structures.

A detailed map of a portion of the Jason property is shown in Figure 2. The legend as shown on Figure 2 consists of the following subdivision of the above regional unit:

- 3TA - Tuffaceous argillite - laminated silty grey argillite characterized by laminae and thin beds of fine crystalline lithic tuff contains up to 20% volcanic breccia interbeds and up to 10% tuff interbeds.
- 3VB - Volcanic breccia - complex volcanic units made up of the following interbedded varieties:
 - 30% massive bedded grey lithic crystal volcanic breccia with grey to dark grey tuffaceous argillite matrix
 - 15% well bedded porous grey coarse lithic crystal tuff
 - 15% interbedded fine tuff-grey argillite.
 - 20% laminated and non-bedded grey tuffaceous argillite

- 3VB-M - Volcanic breccia - massive lithic crystal volcanic breccia with coarse angular fragments and grey tuffaceous argillite matrix interbedds lacking or rare.
- 3VB-MS - Volcanic breccia - massive siliceous - hard massive lithic crystal volcanic breccia with coarse angular fragments and light grey siliceous or cherty matrix; no interbedds
- Unit #1 - laminated argillite

The stratigraphic relations of this portion of the Jason group are complex. The Number 2 chert pebble conglomerate commonly found in the region does not appear to be present and its place has been taken by volcanic breccia of massive siliceous or massive character. These volcanic members are apparently quite discontinuous laterally and have considerable thickness variations reaching a maximum on the order of approximately 50 feet in the map area. The volcanic breccia member appears to have a good deal more continuity as does the tuffaceous argillite. Structure in the area is dominated by two east-west trending faults. The structure within each fault appears to be relatively independent. The northern block is dominated by an east-west trending tight anticline, the central block by an east-west trending tight syncline with a strong westerly plunge. The structure in the southern block is not clear, but tight drag folding appears to have occurred along the fault bounding the southern and central blocks. Northerly trending strikes in the southern portion of the southern block have been dragged to the west as the fault is approached. The previously mentioned bedded barite deposit with lead and zinc contents was intersected near the southern fault in the southern block where it has an east-west strike and is overturned to a dip of 70° to the south.

IV. CONCLUSIONS AND RECOMMENDATIONS

The geological setting of the central Jason property as shown on Figure 2 and as interpreted from drilling results of late 1975 show the presence of a 60 foot bedded barite deposit containing significant lead and zinc values which may be followed with geophysical and geochemical anomalies in a general fashion to the north and west and to the south and east of the area of drilling in late 1975. It is strongly recommended that continued drilling be conducted in an effort to delineate the distribution of this barite zone and to block out the metal content within it.

V. PERSONNEL EMPLOYED

C. L. Smith, geologist, 5364 - 6th Avenue, Delta, B.C.

G. Didier, 1250 Bute Street, Vancouver, B.C.

VII. QUALIFICATIONS OF C. L. SMITH, AUTHOR

Education

Carleton College, Northfield, Minn., U.S. - B.A. received 1959

University of B.C., Vancouver, B.C. - M.Sc. received 1962

University of Idaho, Moscow, Idaho, U.S. - Ph.D. received 1966

Employment

1970 - present: Consulting Geologist, Vancouver, B.C.

1968 - 1970: Director and Exploration Manager,
Spartan Explorations Limited

1966 - 1968: Chief Geologist, Atlas Explorations Limited

1965 - 1966: Senior Geologist, Kerr-Addison Mines Ltd.

Professionals

Registered Professional Engineer, Association of
Professional Engineers, Province of British Columbia.

VII. EXPENDITURES

Salaries

C.L.Smith - 30 days @ \$150.00/day	\$ 4,500.00	
G. Didier - 30 days @ \$40.00/day	1,200.00	
Subsistence for 2 men	900.00	
Travel	<u>500.00</u>	
		\$ 7,100.00

Salaries - July 1-31

C. L. Smith - 30 days @ \$165.00/day	\$ 4,950.00	
Subsistence	500.00	
Travel	<u>500.00</u>	
		\$ 5,950.00
		<u>\$13,050.00</u>

PAY ROLL RECORD

No. _____ Period July 1-31/80

NAME Gary Baker

Wages { Regular - - - \$ 1300.00
Overtime - - - \$ _____

_____ \$ _____

TOTAL WAGES - \$ 1300.00

DEDUCTIONS FROM WAGES:

- 1. Can. Pension Plan - \$ _____
- 2. Unemployment Ins. - \$ _____
- 3. Comp. Pension Fund \$ _____
- 4. Income Tax - - - \$ _____
- 5. Hospitalization Ins. - \$ _____
- 6. Group Insurance - \$ _____
- 7. Bonds - - - - \$ _____
- 8. _____ \$ _____
- 9. _____ \$ _____

Total Deductions - - - - - \$ _____

NET WAGES - - - - - \$ _____

CLS attached
C. L. SMITH

Aug 9, 1976

Opaline J. V.
1860-200 Granville St.
Vancouver, BC

Re Opaline Joint Venture

TO PROFESSIONAL SERVICES PROVIDED
for the period July 1-31, 1976

Twenty-seven days of fieldwork
at \$165.00/day

TO MCFEE: \$4455.00

#364
8/9/76

or

CLYDE L. SMITH, Ph.D., P.Eng.

Consulting Geologist

July 16, 1975

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

Re: Ogilvie Joint Venture

TO PROFESSIONAL SERVICES RENDERED for the
period July 1 to July 15, 1975;

Fifteen days of field work at
\$ 150.00/day

TO MY FEE: \$ 2,250.00

CLS/nj

175

CLYDE L. SMITH, Ph.D., P.Eng.
Consulting Geologist

August 16, 1975

return
van

AUG 18

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

(OK)

Re: Ogilvie Joint Venture

TO PROFESSIONAL SERVICES RENDERED for the
period July 16, 1975 to August 15, 1975;

Thirty days of field work at \$ 150.00/day

TO MY FEE: \$ 4,500.00

CLS/nj

(#183)



W. JASON

JA SON

JA SON

JA SON



A

A

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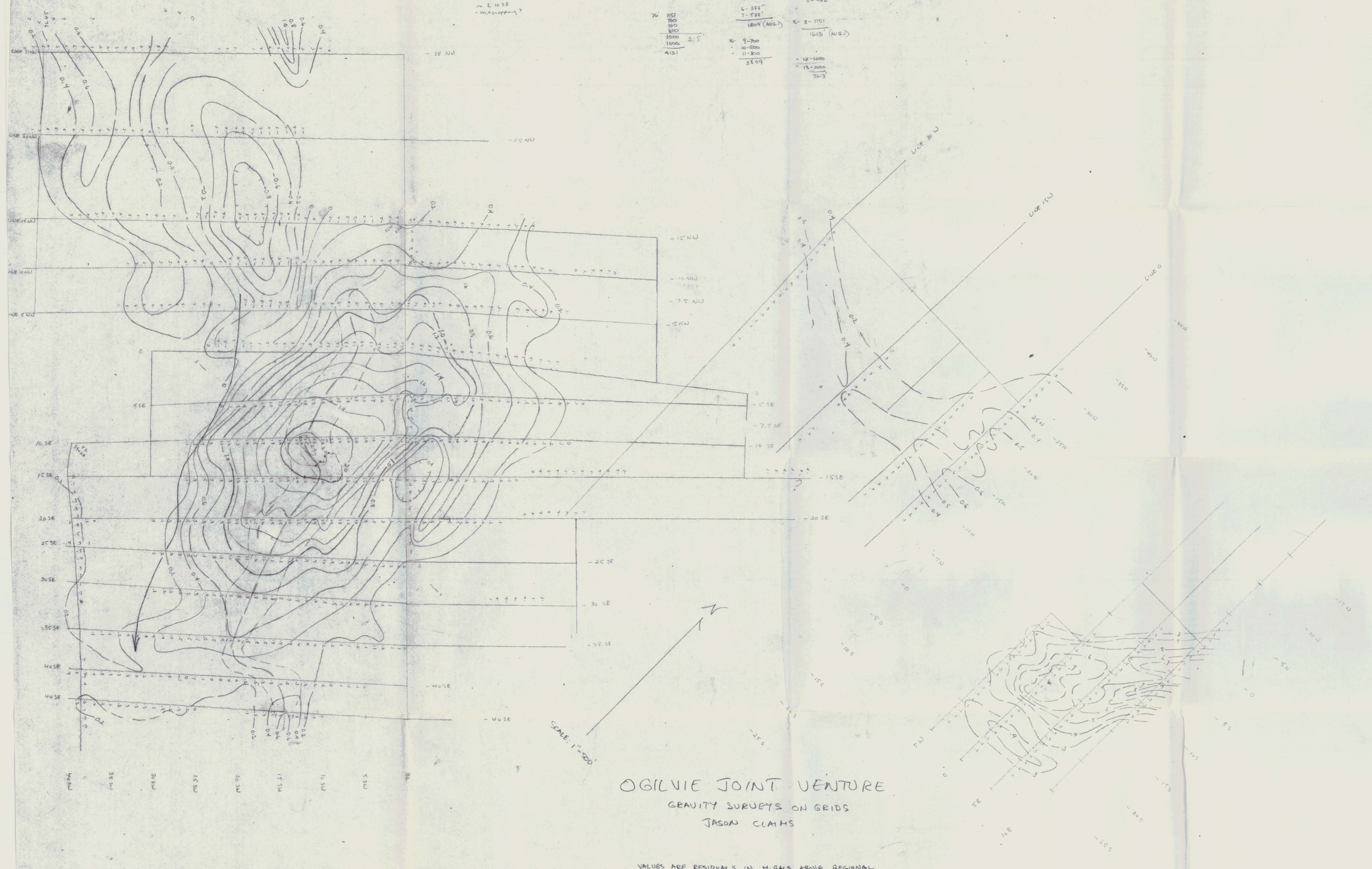
600

Note: + 3m gal peak
at 12+90 SW
in L 10 SE
- outcroppings?

76
1151
700
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WEST
1-102'
2-385'
3-174'
4-222'
5-462'
6-386'
7-538'
1809' (AUG.)

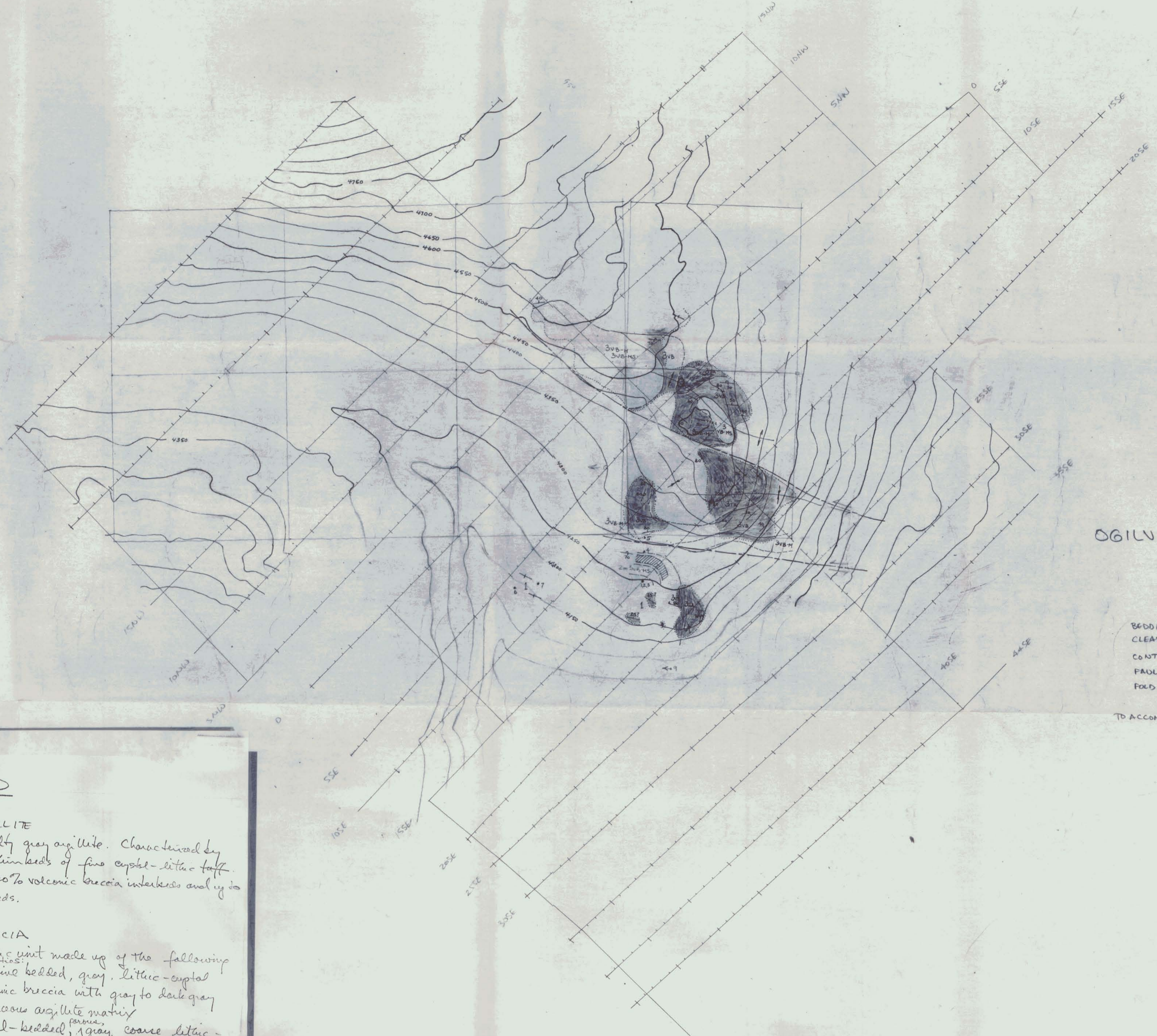
EAST
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49-1000'
50-1000'



OGILVIE JOINT VENTURE
GRAVITY SURVEYS ON GRIDS
JASON CLAIMS

VALUES ARE RESIDUALS IN M.GALS ABOVE REGIONAL
CONTOUR INTERVAL: 0.2 M.GAL.

TO ACCOMPANY REPORT BY C.L. SMITH, AUG. 9, 1976.



OGILVIE JOINT VENTURE
 JASON CLAIMS
 GEOLOGY

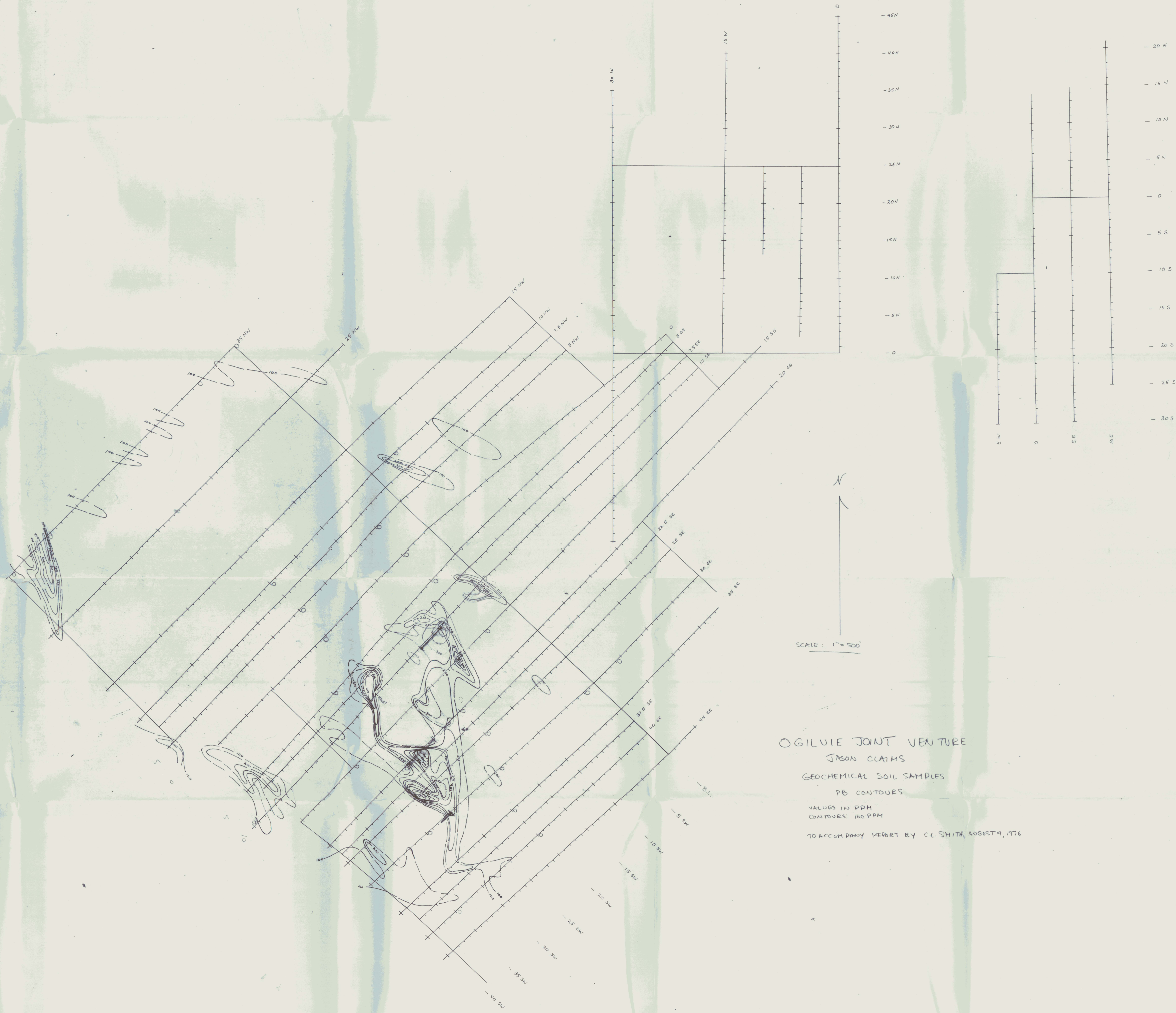
BEDDING ATTITUDE	70°
CLEAVAGE	70°
CONTACT	---
FAULT	---
FOLD AXIS	↑

TO ACCOMPANY REPORT BY C.L. SMITH,
 AUGUST 9, 1976

LEGEND

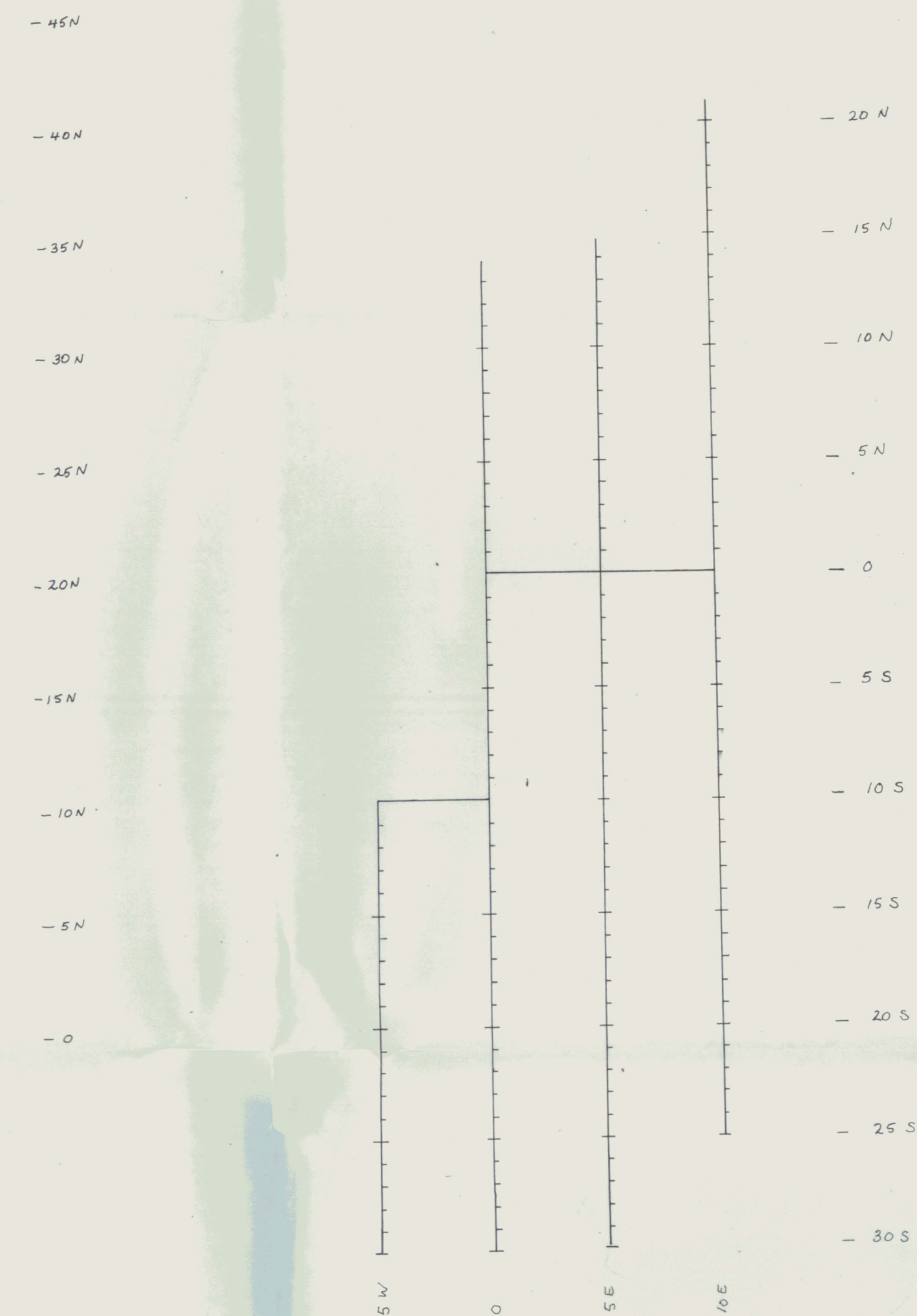
- 3TA — TUFFACEOUS ARGILLITE**
 laminated silty gray argillite. Characterized by laminae and thin beds of fine crystal-litic tuff. Contains up to 20% volcanic breccia interbeds and up to 10% tuff interbeds.
- 3VB — VOLCANIC BRECCIA**
 Complex volcanic unit made up of the following interbedded varieties:
 20% — massive bedded, gray, lithic-crystal volcanic breccia with gray to dark gray tuffaceous argillite matrix
 15% — well-bedded, ^{porous} gray, coarse lithic-crystal tuff
 15% — interbedded fine tuff — gray argillite
 20% — laminated and non-bedded gray tuffaceous argillite
- 3VB-H — VOLCANIC BRECCIA — MASSIVE**
 Massive lithic-crystal volcanic breccia with coarse angular fragments in gray tuffaceous argillite matrix. Interbeds lacking or rare.
- 3VB-HS — VOLCANIC BRECCIA — MASSIVE SILICEOUS**
 Hard, massive, lithic-crystal volcanic breccia with coarse angular fragments in light gray siliceous or cherty matrix. No interbeds.
- 1 — LAMINATED ARGILLITE (Huron val. detritus)**

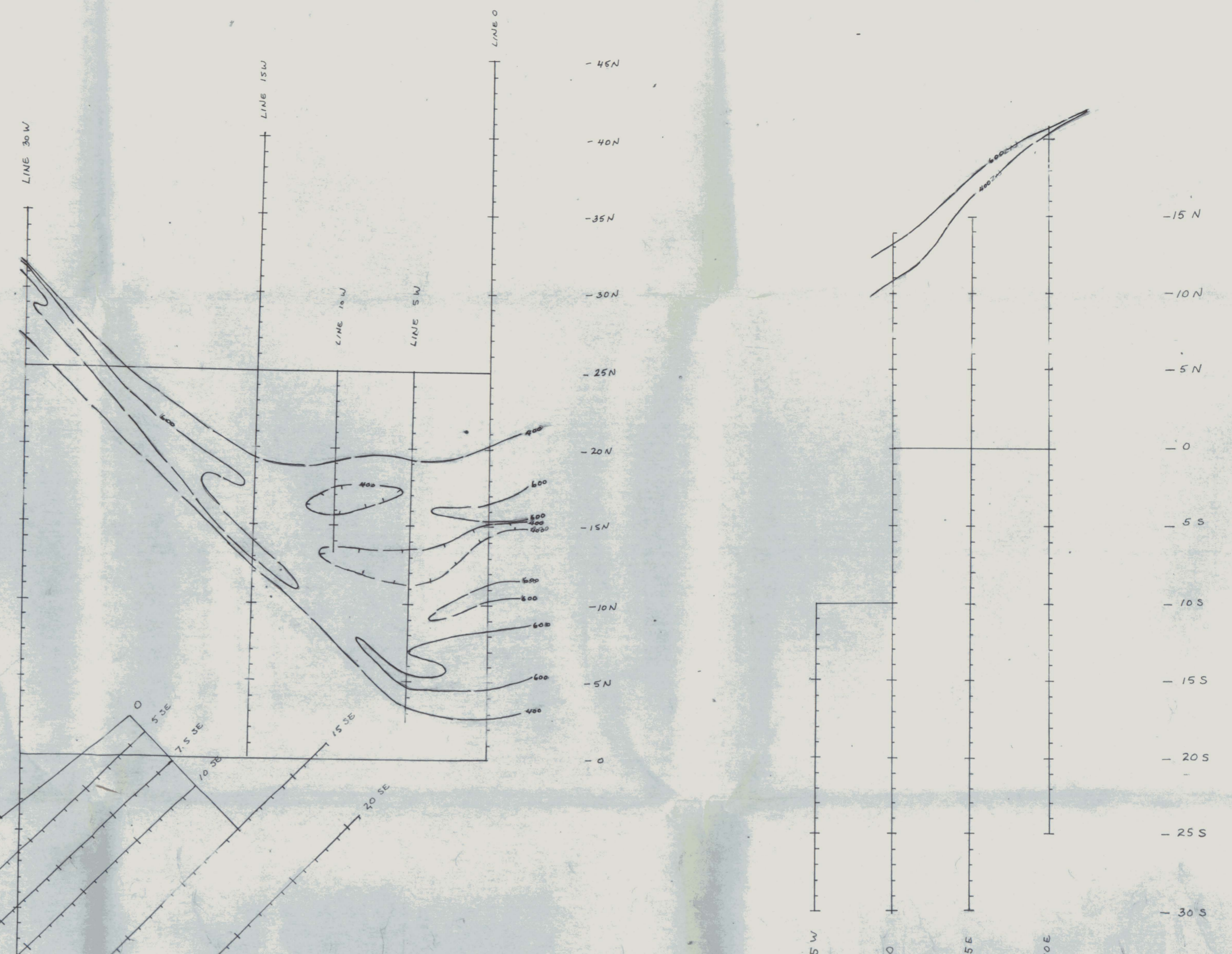
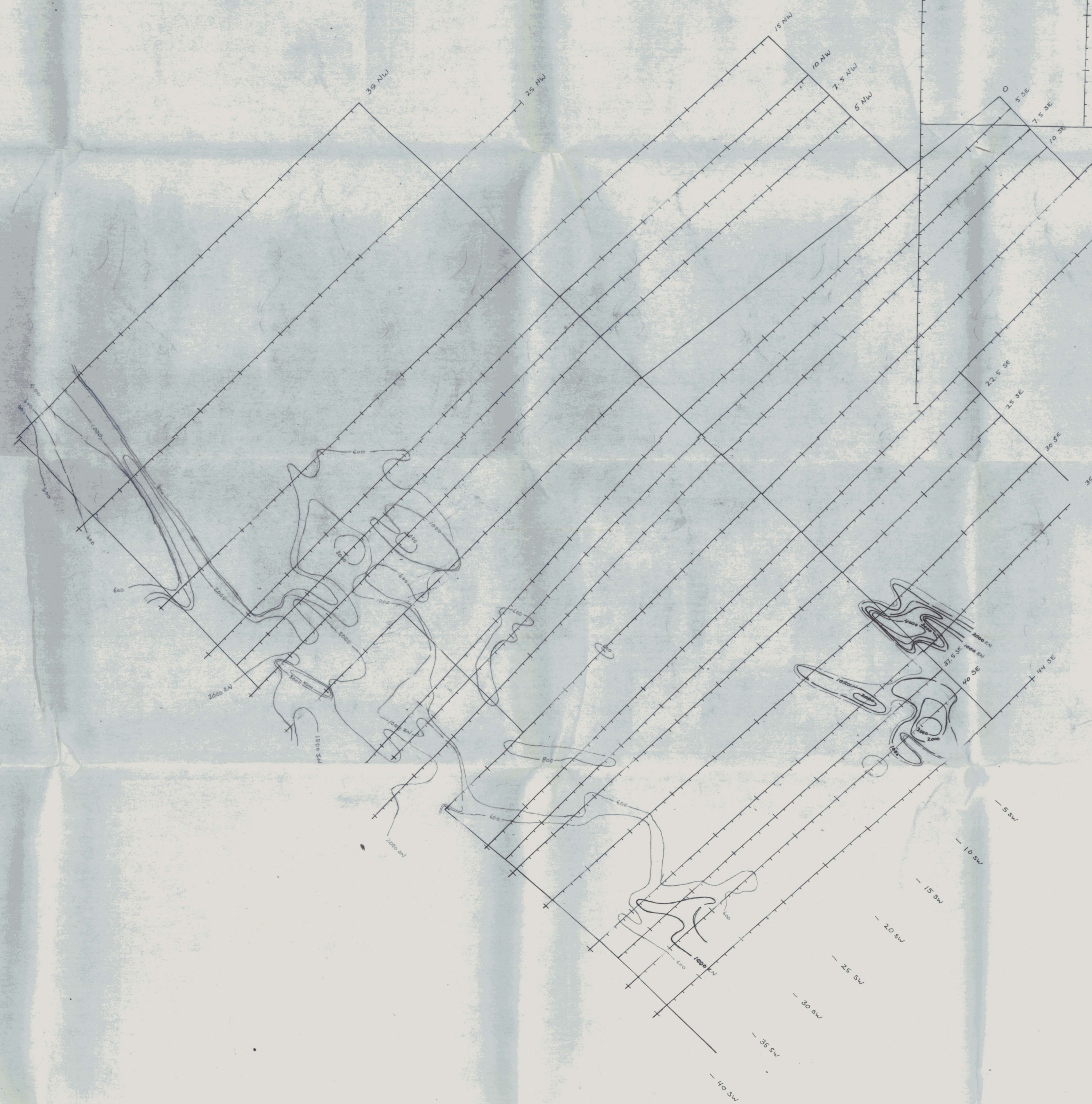




OGILVIE JOINT VENTURE
 JASON CLAIMS
 GEOCHEMICAL SOIL SAMPLES
 PB CONTOURS
 VALUES IN PPM
 CONTOURS: 100 PPM
 TO ACCOMPANY REPORT BY C.L. SMITH, AUGUST 9, 1976

SCALE: 1" = 500'



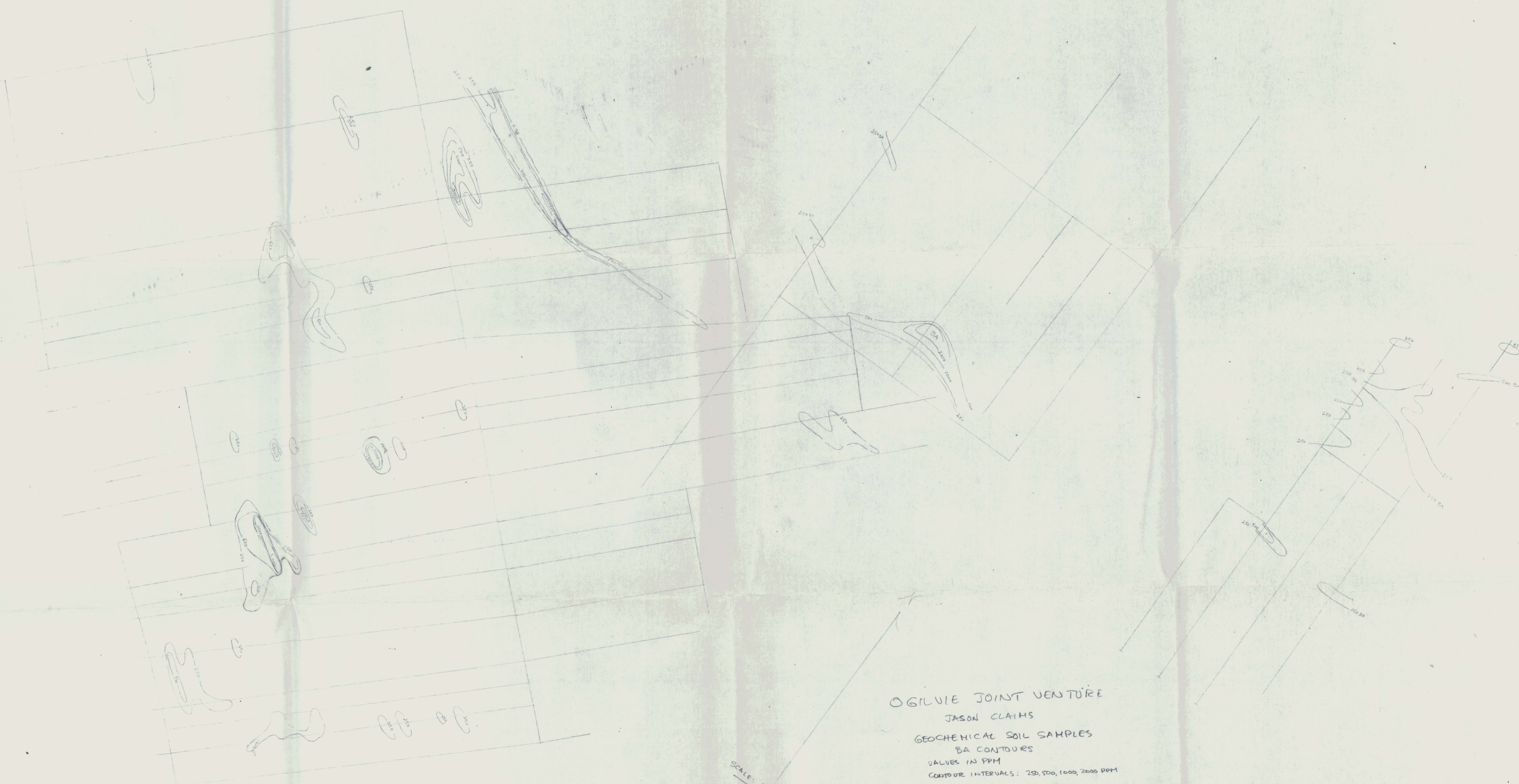


SCALE: 1"=500'

OGILVIE JOINT VENTURE
 JASON CLAIMS
 GEOCHEMICAL SOIL SAMPLES
 ZN CONTOURS

VALUES IN PPM
 CONTOUR INTERVALS: 400, 600, 1000, 2000 PPM

TO ACCOMPANY REPORT BY C.L. SMITH, AUGUST 9, 1976



OGILVIE JOINT VENTURE
 JASON CLAIMS
 GEOCHEMICAL SOIL SAMPLES
 BA CONTOURS
 VALUES IN PPM
 CONTOUR INTERVALS: 250, 500, 1000, 2000 PPM
 TO ACCOMPANY REPORT BY C.L. SMITH, AUGUST 9, 1976

SCALE: 1/4500'