



1981 TRENCHING, STRIPPING,
AND DRILLING
OF THE BUR PROPERTY, YUKON TERRITORY

Claims Jo 4, Jo 6, and Wen 5
Whitehorse Mining District



Geographic Coordinates
61° 22' N
139° 19' W
NTS Sheet 115 G/6

by
L. B. Halferdahl, Ph.D., P.Eng.

1981 09 30

Work on Property Conducted 1981 07 09 to 1981 08 16

090875
090875

Halferdahl & Associates Ltd.
18, 10509 - 81 Avenue
Edmonton, Alberta
T6E 1X7

This report has been examined by
the Geological Evaluation Board
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 19,200.00.

R. Debriski for
Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
YUKON QUARTZ MINING ACT
FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK



(This form required in duplicate with sketch showing location of work.)

(Name) Laurence B. Halferdahl	Occupation Engineer
(Postal Address) 18, 10509-81 Avenue Edmonton, Alberta T6E 1X7	

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

YA 23540 JO4

situated at Burwash & Tatmagouche creeks Claim Sheet No. 115G/6

in the Whitehorse Mining District, to the value of at least 7000

dollars, since the 29th day of August 19 80

to represent the following mineral claims under the authority of Grouping Certificate No. 9029

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

- | | | |
|---------------|---------|-----------------------------|
| ✓ YA 23529-30 | EL 1,2 | } 28 Aug 82, EL R 28 Aug 82 |
| ✓ YA 23540 | JO 4 | |
| ✓ YA 23567-68 | NAN 7,8 | } 28 Aug 82 |
| ✓ YA 23570 | JAN 2 | |
| ✓ YA 23572-76 | JAN 4-8 | } 28 Aug 82, 4 years each |
| ✓ YA 23577-78 | DEN 1,2 | |
| ✓ YA 23586-88 | WEN 2-4 | } 28 Aug 82, 4 years each |
| | | |

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

From 1981 07 09 to 1981 07 18
Bulldozer trenching and stripping involving the movement of 4684 cubic yards @ \$1.50 2504
\$7026

Sworn before me at Edmonton, Alberta

this 31st day of August 19 81

Notary Public

Applicant

RONALD G. CHOWNE



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
YUKON QUARTZ MINING ACT
FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK



(This form required in duplicate with sketch showing location of work.)

I (Name)	Laurence B. Halferdahl	Occupation	Engineer
(Postal Address)	18, 10509-81 Avenue Edmonton, Alberta T6E 1X7		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

YA 23589 WEN 5

situated at Burwash & Tatamagouche Creeks Claim Sheet No. 115G/6

in the Whitehorse Mining District, to the value of at least 6600

dollars, since the 29th day of August 19 80,

to represent the following mineral claims under the authority of Grouping Certificate No. 9030

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

YA 23531-36	EL 3-8	} 28 Aug. 82 EL 4-8 28 Aug. 83 4 years each DEN 3-8 + 6 28 Aug. 82 DEN 4-8 28 Aug. 85, WEN 5, 28 Aug. 84
YA 23579-84	DEN 3-8	
YA 23589-92	WEN 5-8	

Laurence B. Halferdahl

- The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

From 1981 08 11 to 1980 08 16 Diamond drilling of 81-5 R/A

Casing	0-15' 15' @ \$34	\$510.00
Coring	15-228' 213' @ \$29	6177.00
		<u>\$6687.00</u>

Sworn before me at Edmonton, Alberta

this 31st day of August 1981.

[Signature]

Notary Public

Laurence B. Halferdahl

Applicant

RONALD G. CROUCH



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
 YUKON QUARTZ MINING ACT
 FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK



(This form required in duplicate with sketch showing location of work.)

(Name)	Laurence B. Halferdahl	Occupation	Engineer
(Postal Address)	18, 10509-81 Avenue Edmonton, Alberta T6E 1X7		OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

YA 23542 J06

situated at Burwash & Tatamagouche creeks Claim Sheet No. 115G/6

in the Whitehorse Mining District, to the value of at least 7000

dollars, since the 29th day of August 19 80,

to represent the following mineral claims under the authority of Grouping Certificate No. 9028

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

- | | | | |
|----------------|---------|--|---|
| ✓ YA 23537-39 | J0 1-3 | } 25 Aug 85
4 years each
28 Aug 85 | } Laurence B. Halferdahl
Nov 5 85 Aug 85, 1986 |
| ✓ YA 23541-44 | J0 5-8 | | |
| ✓ YA 23549-52 | SUE 5-8 | | |
| ✓ YA 23565-66 | NAN 5,6 | | |
| ✓ YA 23585 | WEN 1 | | |
| ✓ YA 23599-600 | AND 7,8 | | |

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

From 1981 08 09 to 1981 08 10	
Diamond Drilling of 81-4	
Casing 0-5' 5' @ \$34	\$170.00
Coring 5-242' 237' @ \$29	6873.00
	<u>7043.00</u>

Sworn before me at Edmonton, Alberta
 this 31st day of August 1981

[Signature]

Notary Public

[Signature]

Applicant

Renewed in 1981

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INTRODUCTION

Eighty quartz mineral claims covering the confluence of Burwash and Tatamagouche Creeks and surrounding ground in the Kluane Ranges of the western Yukon were staked as the Bur property in 1978. Exploration consisting of geological mapping, geochemical prospecting, a magnetometer survey, and overburden drilling was conducted in one or more of the field seasons in 1978, 1979, and 1980. During 1981 part of claim Jo 4 was stripped and trenched, and five holes were cored: three on Jo 4 and one each of claims Jo 6 and Wen 5. Information on the stripping and trenching on two of the drillholes as required for representation work is contained herein. Time has permitted only very limited interpretation of the data obtained; further work on the core is anticipated.

In 1980, 72 additional claims were started. The work on these claims during 1981 will be submitted separately.

TRENCHING AND STRIPPING

The trenches and sumps (Fig. 3) were excavated in permanently frozen glacial till below a thin layer of unfrozen humus by a D7G bulldozer equipped with a ripper. In trench 1 gabbro bedrock was reached at its upper end and in the middle (Fig. 4). It was sampled by random chips as indicated. Where bedrock was not reached, samples of grey till were collected and the -80 mesh fraction analyzed by standard atomic absorption techniques. The plan and sections in Fig. 4 show that approximately 1338.8 m^3 or 1751.2 cubic yards were excavated.

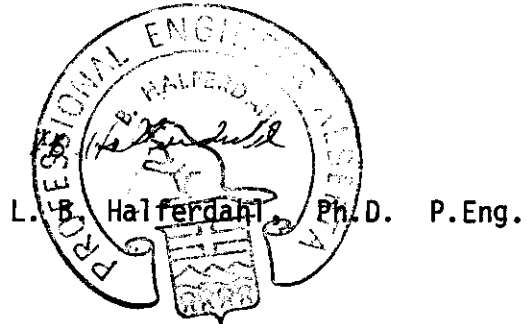
Trench 2 was not excavated as deep as trench 1 and did not reach bedrock. It permitted an increased flow of water into the lower sump which was stripped and excavated to provide water for the drilling. Samples of till were collected from the places indicated and analyzed by standard atomic absorption techniques. The plan in Fig. 5 shows that approximately 893.0 m^3 or 1168.0 cubic yards were excavated.

The upper sump was stripped and excavated to provide another source of water for the drilling. It did not reach bedrock. Samples of till were collected from the places indicated and analyzed by standard atomic absorption techniques. The plan in Fig. 6 shows that approximately 1349.8 m^3 or 1765.5 cubic yards were excavated.

DRILLING

Five diamond drillholes were cored, but information on only two, 81-4 and 81-5 totalling 143.3 m is included here, (Fig. 3). A Hydrowink drill was used. As steep slopes and permafrost hindered ground access, the drill was moved from site to site by a Jet Ranger helicopter based at Haines Junction. Lithological logs are in appendix 1 and assays in appendix 2.

1981 09 30





ALASKA

YUKON
TERRITORY

NORTHWEST TERRITORIES

* BUR PROPERTY

● WHITEHORSE

YELLOWKNIFE

Great Slave Lake

PACIFIC
OCEAN

BRITISH
COLUMBIA

ALBERTA

EDMONTON ●

CALGARY ●

0 100 200 300 400
Kilometres

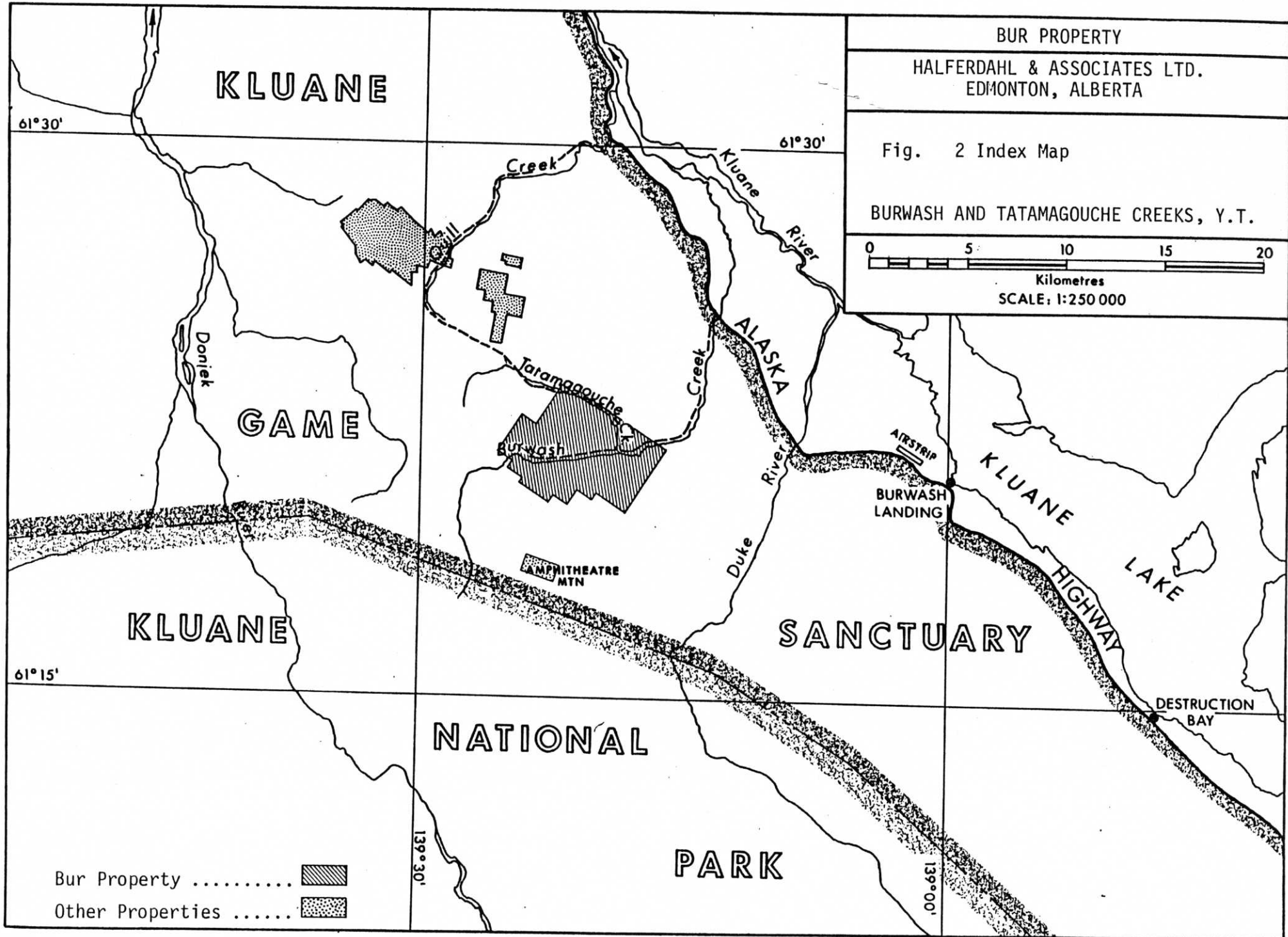
Scale: 1:8 920 000 Approx.

0 100 200 300 400
Miles

● VANCOUVER

U.S.A.

Fig. 1 Location Map Bur Property, Yukon Territory

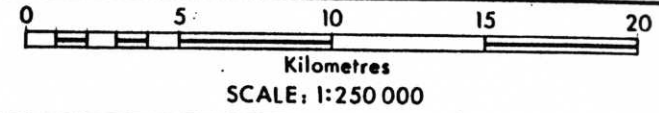


BUR PROPERTY

HALFERDAHL & ASSOCIATES LTD.
EDMONTON, ALBERTA

Fig. 2 Index Map

BURWASH AND TATAMAGOUCHE CREEKS, Y.T.



KLUANE

61°30'

61°30'

GAME

KLUANE

61°15'

NATIONAL

SANCTUARY

PARK

- Bur Property
- Other Properties

139°30'

139°00'

Donjek

Creek

Kluane River

Tatamagouche Creek

ALASKA

Duke River

AIRSTRIIP

BURWASH LANDING

KLUANE HIGHWAY

LAKE

DESTRUCTION BAY

AMPHITHEATRE MTN

APPENDIX 1: LITHOLOGICAL LOGS FOR DRILLHOLES
81-4 AND 81-5

Bur Property
Drillhole 81-4

Depth: 73.8 m
Inclination: -90°
Core recovered: 96.0%
Core size: BQ

Location: Burwash and Tatamagouche Creeks,
Y.T. 1014 m N; 3996 m E
Elevation: 1308 ± 3 m
Started: 1981 08 09
Finished: 1981 08 10
Drilled by Drilcor Industries Ltd.
Logged by C. Gibson

Metrage	Interval	Description
0.000 - 1.334	1.334	<u>Overburden</u> , glacial till; BW casing to 1.5 m
01.334 - 33.841	32.507	<u>Gabbro</u> , black, pyroxenitic, medium- to coarse-grained, riddled with magnetite veinlets invariably at approximately 45° to core axis, also interspersed coarser magnetite veinlets (2 mm-4 mm thick) with approximate core angles of 15°. Low grade sulfides disseminated throughout, but fracture infillings show enhanced grades. Fractures highly irregular and intensely concentrated in places to form "fracture zones." They evidence the movement of carbonate fluids which form coatings along their planes; up to 10% sulfides can be formed along some fractures; principal sulfides are pyrite, chalcopyrite, pyrrhotite, and galena. 7.590 15° core angle movement plane serpentized and slickensided 9.144 - 13.594 well fractured and recovered as angular fragments, slickensided, and serpentized surfaces, some gouge present, minor rounded blebs of pyrrhotite associated with coatings 19.817 - 20.122 intensely fractured 28.232 - 28.963 pyrite grains, mostly cubes associated with carbonate fracture infillings 30.793 appreciable red mica grains <u>Sample 4426</u> 32.317 - 33.841 1.52 m
33.841 - 34.756	0.915	<u>Quartzite or Tuff?</u> massive, medium-grained, leucocratic, xenolith or country rock unassimilated by gabbro, distinctly unmagnetic 33.841 some pyrite associated with carbonate infilling of fractures <u>Sample 4474</u> 33.841 - 34.756 0.91 m
34.756 - 41.646	6.890	<u>Gabbro</u> , similar to previous 34.756 - 36.280 approximately 5% sulfides with chalcopyrite coating at 34.909 36.280 - 40.244 occasional fractures with coatings of pyrrhotite and other sulfides finely disseminated in gabbro

Metrage	Interval	Description
		<u>Sample 4473</u> 34.756 - 35.671 0.91 m
		<u>Sample 4472</u> 35.671 - 37.195 1.52 m
		<u>Sample 4471</u> 37.195 - 38.720 1.52 m
41.646 - 44.817	3.171	<u>Quartzite or Tuff?</u> similar to previous <u>Sample 4470</u> 43.293 - 44.817 1.52 m
44.817 - 56.707	11.890	<u>Gabbro</u> , similar to previous 44.817 finely disseminated sulfides at contact including silverish metallic (galena?) 52.439 - 53.659 approximately 10% sulfides, essentially associated with carbonate infilled fractures, mostly as platy chalcopyrite coatings 52.896 galena surrounded by chalcopyrite which appears to be replacing it 53.963 - 56.402 about 8% sulfides, mostly chalcopyrite 56.402 - 56.707 sulfide mineralization reducing to 5% <u>Sample 4469</u> 44.817 - 46.341 1.52 m <u>Sample 4468</u> 46.341 - 47.866 1.52 m <u>Sample 4467</u> 47.866 - 49.390 1.52 m <u>Sample 4466</u> 49.390 - 50.915 1.52 m <u>Sample 4465</u> 50.915 - 52.439 1.52 m <u>Sample 4464</u> 52.439 - 53.963 1.52 m

Metrage	Interval	Description
		<u>Sample 4463</u> 53.963 - 55.488 1.52 m
		<u>Sample 4462</u> 55.488 - 56.707 1.22 m
56.707 - 57.622	0.915	<u>Quartzite or Tuff?</u> similar to previous, non magnetic, carbonated xenolith
		<u>Sample 4461</u> 56.707 - 57.622 0.91 m
57.622 - 73.780	6.158	<u>Gabbro</u> , similar to previous 57.622 - 57.927 more than 5% sulfides including discrete grains of galena and coatings of chalcopyrite 57.927 - 58.537 about 3% sulfides 58.537 - 60.707 red mica and fibrous amphibole veinlets at 45° core angle, approximately 2% sulfides 60.707 - 63.109 badly shattered, serpentinized and striated gabbro with only occasional occurrences of sulfides 63.109 - 71.220 red mica prominent with silica in places up to 5% 71.220 - 73.780 in places gabbro appearing acidic due to incomplete digestion of quartzite or tuff
		<u>Sample 4460</u> 57.622 - 58.537 0.91 m
		<u>Sample 4459</u> 60.061 - 61.585 1.52 m
		<u>Sample 4458</u> 61.585 - 63.109 1.52 m
		<u>Sample 4457</u> 63.109 - 64.634 1.52 m
		<u>Sample 4456</u> 64.634 - 66.159 1.52 m

Bur Property
Drillhole 81-4

Page 4

Metrage	Interval	Description
	<u>Sample 4455</u>	66.159 - 67.683 1.52 m
	<u>Sample 4454</u>	67.683 - 69.207 1.52 m
	<u>Sample 4453</u>	69.207 - 71.189 1.98 m
	<u>Sample 4452</u>	71.189 - 72.256 1.06 m
	<u>Sample 4451</u>	72.256 - 73.780 1.52 m
73.780	<u>End of hole</u>	

Bur Property
 Drillhole 81⁵
 Bearing: 102°
 Depth 69.5 m
 Inclination: -60°
 Core recovery: 61.6%
 Core size: BQ

Location: Burwash and Tatamagouche Creeks,
 Y.T. 690 m N; 3360 m E
 Elevation: 1261 ± 5 m
 Started: 1981 08 11
 Finished: 1981 08 16
 Drilled by Drilcor Industries Ltd.
 Logged by C. Gibson

Metrage	Interval	Description
0.000- 4.572	4.572	<u>Overburden</u> , glacial till and boulders; BW casing 4.6 m
4.572 69.494	64.922	<p><u>Cherty Siltstone</u>, pale greenish grey dirty impure siltstone with vague evidence of thin bedding. In places rock has the appearance of impure chert. intercalations of sandstone bands 2 cm to 10 cm thick common, some bands contain up to pebble sized clasts of mainly quartz.</p> <p>12.195 - 18.902 sandstone intercalations not evident and thin bedding in siltstone more discernable</p> <p>18.598 - 18.902 innumerable cross-cutting fractures infilled with pyrite and pyrrhotite associated with black coating</p> <p>20.884 - 25.609 pyrite and pyrrhotite in contaminated siltstone associated with black coatings</p> <p>25.915, 28.963-30.488, 31.555-31.860 dark patches infilling fractures</p> <p>35.976 - 39.024 mainly pyrite associated with calcite veining with some mafic solutions causing black coating and deposition of pyroxene crystals along fractures, also limonitic staining along fractures</p> <p>39.024 calcite rhombs, muscovite grains and perfect cubes of pyrite</p> <p>39.176 - 44.207 rock becoming more carbonated with common occurrence of calcite rhombs up to 1/2 cm, and ubiquitous white mica; Pyrite coating fractures and disseminated in siltstone together with pyrrhotite veinlets</p> <p>44.207 - 46.646, consistent sulfide content of about 5% including pyrite, pyrrhotite and chalcopyrite disseminated in siltstone as well as coating calcite-filled fractures, most of which are limonitic</p> <p>61.738 - 64.024 contaminated by solutions which partially decompose siltstone to form "carbonate silicate hornfels", no sulfides evident in hand specimen, but siltstone above and below contaminated section contain up to 5% sulfides both disseminated and along fractures</p> <p>66.446 - 67.970 light-grey on surface cut by bit, dark-greenish grey on freshly broken surface, 1-2% very fine sulfides</p>

Bur Property
Drillhole 81-5

Page 2

Metrage	Interval	Description
		probably pyrrhotite but with a few disseminated silvery white grains of sulfide; some fractures approximately parallel to core axis, others at 70°; much of rock will break between fingers
	<u>Sample 4045</u> 66.446 - 67.970	1.52 m
		67.970 - 69.434 lighter and darker slightly coarser grained bands 5 - 10 cm thick, 1 - 2% finely disseminated sulfides
	<u>Sample 4046</u> 67.970 - 69.494	1.52 m
69.494	<u>End of hole</u>	

APPENDIX 2: CERTIFICATES OF ANALYSIS FOR SAMPLES FROM
TRENCHES AND DRILLHOLES 81-4
AND 81-5

(Some analyses are from other samples.)



CHEMEX LABS LTD.

A9

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TC : Halferdahl & Assoc. Ltd.,
Dept. 18,
10509 - 81st Ave.,
Edmonton, Alta.
T6E 1X7

CERT. # : A8113027-001-A
INVOICE # : I8113027
DATE : 31-AUG-81
P.O. # : NONE

ATTN: L.B. HALFERDAHL

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Cr ppm
T-1-20	203	136	2	112	1000	77	680
T-1-25	201	80	2	58	154	24	275
T-1-30	203	101	3	75	240	33	335
T-1-35	203	95	3	80	198	28	250
T-1-40	201	94	3	85	164	29	250
T-1-45	201	91	3	80	149	24	240
T-1-50	201	111	4	80	166	27	245
T-1-55	201	122	2	75	250	39	310
T-1-60	201	129	2	76	245	37	315
T-1-65	201	107	3	72	200	31	295
T-1-70	201	88	8	82	177	27	184
T-1-75	201	92	7	110	142	20	84
T-1-80	201	121	9	102	123	13	76
T-1-85	201	80	8	94	89	13	76
T-1-90	201	98	7	95	105	12	98
T-2-C	201	46	5	112	81	13	70
T-2-5	201	62	7	117	150	24	110
T-2-10	201	57	6	105	93	16	86
T-2-15	201	61	7	126	133	21	150
T-2-20	201	40	3	118	122	32	235
T-2-25	201	67	4	100	191	11	126
T-2-30	201	82	6	88	163	8	110
T-2-35	203	79	4	56	151	9	108
T-2-40	203	220	3	44	250	9	108
T-2-45	201	77	3	60	128	7	134
T-2-50	201	136	5	95	225	18	210
T-2-55	201	104	7	90	189	13	126
T-2-60	203	113	4	50	163	8	96
T-2-65	201	102	4	82	164	13	160
T-2-70	201	117	6	97	196	13	144
T-2-75	201	102	7	100	165	13	148
T-2-80	201	115	6	92	149	15	166
T-2-85	201	85	6	94	158	10	94
T-2-90	201	97	6	70	137	9	74
T-2-95	201	79	5	92	134	11	70
T-2-100	201	60	6	78	119	11	76
T-2-105	201	87	7	70	106	8	76
T-2-110	201	70	19	88	88	18	200
T-2-115	201	114	5	78	125	18	154
T-2-115-5E	201	90	3	76	96	20	205



MEMBER
CANADIAN TESTING
ASSOCIATION

Certified by *H. B. Biddle...*



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TC : Halferdahl & Assoc. Ltd.,
Dept. 18,
10509 - 81st Ave.,
Edmonton, Alta.
T6E 1X7

CERT. # : A8113027-001-B
INVOICE # : I8113027
DATE : 31-AUG-81
P.C. # : NCNE

ATTN: L.B. HALFERDAHL

Sample description	Prep code	AS ppm	V ppm	AU-NAA ppb			
T-1-20	203	6	95	3	--	--	--
T-1-25	201	5	190	2	--	--	--
T-1-30	203	11	155	5	--	--	--
T-1-35	203	9	170	5	--	--	--
T-1-40	201	12	195	3	--	--	--
T-1-45	201	17	185	2	--	--	--
T-1-50	201	11	180	5	--	--	--
T-1-55	201	12	175	4	--	--	--
T-1-60	201	10	180	8	--	--	--
T-1-65	201	11	180	4	--	--	--
T-1-70	201	7	160	11	--	--	--
T-1-75	201	22	140	3	--	--	--
T-1-80	201	14	125	6	--	--	--
T-1-85	201	11	110	3	--	--	--
T-1-90	201	12	120	11	--	--	--
T-2-C	201	11	105	<1	--	--	--
T-2-5	201	19	140	2	--	--	--
T-2-10	201	15	130	3	--	--	--
T-2-15	201	20	165	2	--	--	--
T-2-20	201	12	180	2	--	--	--
T-2-25	201	5	130	3	--	--	--
T-2-30	201	5	125	3	--	--	--
T-2-35	203	22	140	1	--	--	--
T-2-40	203	6	95	8	--	--	--
T-2-45	201	4	110	3	--	--	--
T-2-50	201	5	150	9	--	--	--
T-2-55	201	4	130	5	--	--	--
T-2-60	203	4	85	4	--	--	--
T-2-65	201	5	145	4	--	--	--
T-2-70	201	9	118	5	--	--	--
T-2-75	201	6	150	5	--	--	--
T-2-80	201	6	160	4	--	--	--
T-2-85	201	9	155	3	--	--	--
T-2-90	201	10	135	7	--	--	--
T-2-95	201	9	120	4	--	--	--
T-2-100	201	7	120	4	--	--	--
T-2-105	201	7	125	3	--	--	--
T-2-110	201	13	110	2	--	--	--
T-2-115	201	14	170	5	--	--	--
T-2-115-5E	201	6	135	3	--	--	--

Certified by




MEMBER
CANADIAN TESTING
ASSOCIATION



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : Halferdahl & Assoc. Ltc.,
Dept. 18,
10509 - 81st Ave.,
Edmonton, Alta.
T6E 1X7

CERT. # : A8113027-002-A
INVOICE # : I8113027
DATE : 31-AUG-81
P.C. # : NCNE

ATTN: L.B. HALFERDAHL

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Cc ppm	Cr ppm
T-2-115-5W	201	82	4	90	72	19	200
T-2-115-10E	201	64	6	73	71	14	134
T-2-115-10W	201	69	3	75	65	17	164
T-2-115-15E	201	73	6	92	97	20	176
T-2-115-20E	201	113	3	83	115	29	300
T-2-115-24E	201	114	3	80	115	31	310
T-3-0	201	64	--	--	56	13	74
T-3-10	201	65	--	--	148	31	285
T-3-20	201	62	--	--	45	16	74

Certified by *Hart Biddle*



MEMBER
CANADIAN TESTING
ASSOCIATION



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CERTIFICATE OF ANALYSIS

TO : Halferdahl & Assoc. Ltd.,
Dept. 18,
10509 - 81st Ave.,
Edmonton, Alta.
T6E 1X7

CERT. # : A8113027-002-B
INVOICE # : I8113027
DATE : 31-AUG-81
P.C. # : NONE

ATTN: L.B. HALFERDAHL

Sample description	Prep code	AS ppr	V ppm	AU-NAA ppb			
T-2-115-5w	201	11	190	4	--	--	--
T-2-115-10E	201	4	145	2	--	--	--
T-2-115-10W	201	5	190	8	--	--	--
T-2-115-15E	201	7	175	3	--	--	--
T-2-115-20E	201	10	180	5	--	--	--
T-2-115-24E	201	15	185	5	--	--	--
T-3-0	201	--	115	14	--	--	--
T-3-10	201	--	210	2	--	--	--
T-3-20	201	--	105	2	--	--	--



MEMBER
CANADIAN TESTING
ASSOCIATION

Certified by *Harry Biddle*



BONDAR-CLEGG & COMPANY LTD.

136B INDUSTRIAL RD, WHITEHORSE, YUKON Y1A 4X1

PHONE: (403) 667-6523
TELEX: 036-8-460

Geochemical Lab Report

FROM: Halferdahl & Assoc. Ltd.REPORT NUMBER: 41-625

PROJECT: _____

DATE: September 2, 1981

SAMPLE NUMBERS	Ni ppm	Co ppm	Cu ppm	V ppm	Cr ppm				
3862	1300	83	119	26	296				
3863	1220	84	104	15	191				
3864	1360	86	115	24	232				
3865	1340	90	127	25	272				
3866	1640	101	152	28	300				
3867	179	36	119	66	78				
3868	1540	84	142	18	208				
3868	1520	95	161	22	215				
3870	1240	83	123	26	341				
3871	79	26	63	150	150				
3872	1220	92	148	22	290				
3873	1560	92	108	17	238				
3874	1240	88	172	32	269				
3875	1100	90	123	25	285				
4001	1440	95	119	23	151				
4002	1180	92	98	22	263				
4003	1500	95	103	18	185				
4004	1600	96	124	24	151				
4005	1520	91	101	21	130				
4006	1740	96	86	21	187				
4013	1520	92	325	18	140				
4026	1640	102	72	42	424				
4027	1060	88	71	32	336				
4028	1260	97	70	29	323				
4029	1260	92	97	32	215				
4030	1500	93	120	30	256				
4031	1740	98	124	23	190				
4032	1640	93	168	29	297				
4033	1460	95	143	22	161				
4034	1600	104	131	20	150				
4035	1460	100	132	24	151				
4036	1840	96	138	23	199				
4037	1440	95	149	24	181				
4038	1240	95	128	23	168				
4039	375	44	56	58	240				

FOR METHOD, EXTRACTION AND FRACTION USED - SEE ATTACHED

BONDAR-CLEGG & COMPANY LTD.

136B INDUSTRIAL RD, WHITEHORSE, YUKON Y1A 4X1

PHONE: (403) 667-6523
TELEX: 036-8-460

Geochemical Lab Report

FROM: Halferdahl & Associates Ltd.REPORT NUMBER: 41-699

PROJECT: _____

DATE: September 29, 1981

SAMPLE NUMBERS	Cu ppm	Pb ppm	Ni ppm	Co ppm	V ppm	Cr ppm			
4426	148	6	1300	145	22	276			
4451	152	4	1500	150	22	261			
4452	166	4	1400	165	17	224			
4453	154	2	1200	160	23	268			
4454	164	4	1350	155	14	232			
4455	119	4	1250	160	16	246			
4456	133	6	1250	150	20	241			
4457	178	4	1200	160	29	449			
4458	172	6	1350	170	28	412			
4459	129	6	1200	175	15	199			
4460	182	8	1250	170	23	216			
4461	45	6	520	32	26	101			
4462	176	3	1200	170	16	215			
4463	162	4	1150	180	17	210			
4464	156	4	1150	180	16	232			
4465	222	6	1200	180	15	238			
4466	160	8	1100	175	23	284			
4467	165	1	1300	165	19	300			
4468	63	3	1300	150	16	271			
4469	65	2	1400	145	14	194			
4470	10	7	300	22	9	41			
4471	62	4	1400	155	18	250			
4472	45	3	1300	155	16	218			
4473	105	4	1350	160	14	164			
4474	13	3	90	32	45	29			
4475	NS	NS	NS	NS	NS	NS			

NS - denotes no sample

FOR METHOD, EXTRACTION AND FRACTION USED - SEE ATTACHED



Certificate of Analysis

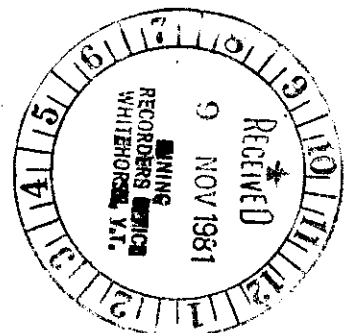
TO Halferdahh & Associates Ltd.
18 - 10509 81 Ave.
Edmonton, Alta. T6X 1X7

REPORT NO. A41-249

DATE October 30, 1981

I hereby certify that the following are the results of analyses made by us upon the herein described ROCK samples

MARKED	oz/ton	oz/ton							
	Au	Ag							
4045	L0.002	L0.05							
4046	0.002	L0.05							
4426	0.002	L0.05							
4451	0.002	L0.05							
4452	0.002	L0.05							
4453	0.002	L0.05							
4454	0.002	L0.05							
4455	0.002	L0.05							
4456	0.002	L0.05							
4457	0.002	L0.05							
4458	0.002	L0.05							
4459	0.002	L0.05							
4460	0.002	L0.05							
4461	0.002	L0.05							
4462	0.002	L0.05							



NOTE: L - denotes less than

BONDAR-CLEGG & COMPANY LTD.

Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

Steve Seppi



Certificate of Analysis

TO Halferdahl & Associates Ltd.

Page 2 of 2

REPORT NO. A41-249

DATE October 30, 1981

I hereby certify that the following are the results of analyses made by us upon the herein described rock samples

MARKED	oz/ton	oz/ton							
	Au	Ag							
4463	0.002	L0.05							
4464	0.002	L0.05							
4465	0.002	L0.05							
4466	0.002	L0.05							
4467	0.002	L0.05							
4468	0.002	L0.05							
4469	0.002	L0.05							
4470	0.002	L0.05							
4471	0.002	L0.05							
4472	0.002	L0.05							
4473	0.002	L0.05							
4474	0.002	L0.05							
4475	0.002	L0.05							

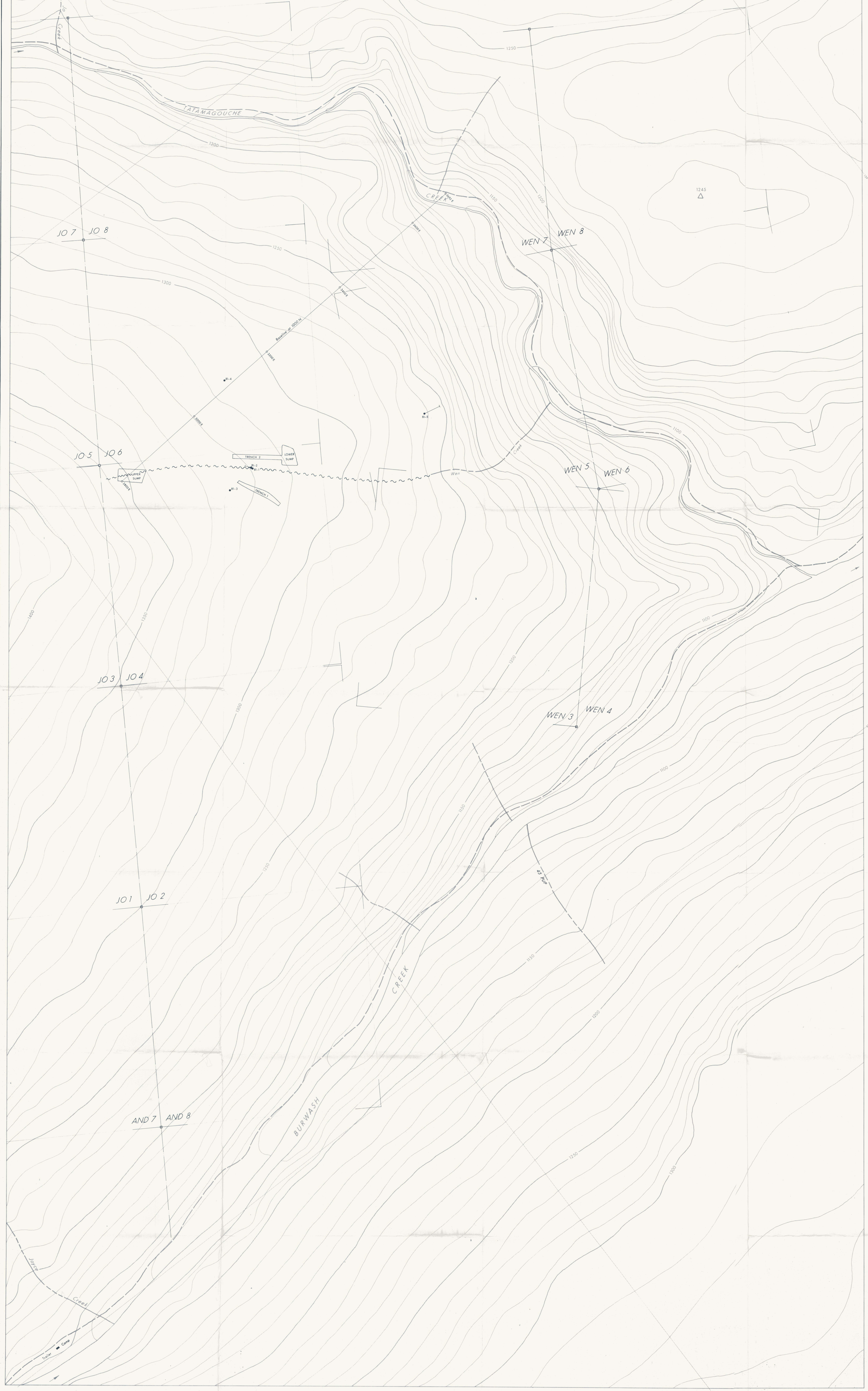
L - denotes less than

BONDAR-CLEGG & COMPANY LTD.

NOTE:

Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

Steve Seeger



SYMBOLS

- Fault, defined ~~~~~
- interpreted - - - - -
- Trench, excavation []
- Drillhole with number and projection ●-#-#
- Claim post □
- Claim line, location line ———
- other - - - - -
- Claim name WEN 5
- Contour (interval 10m) []
- Road, unimproved []

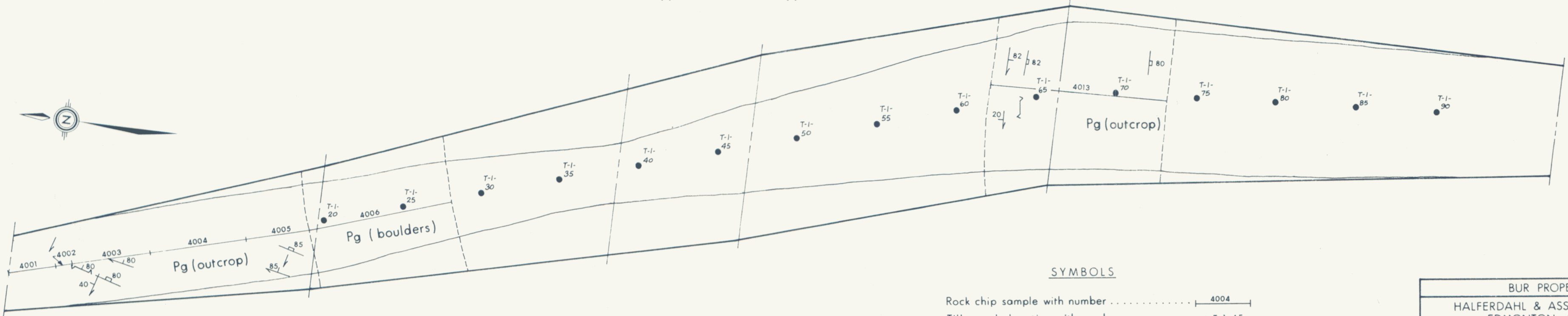
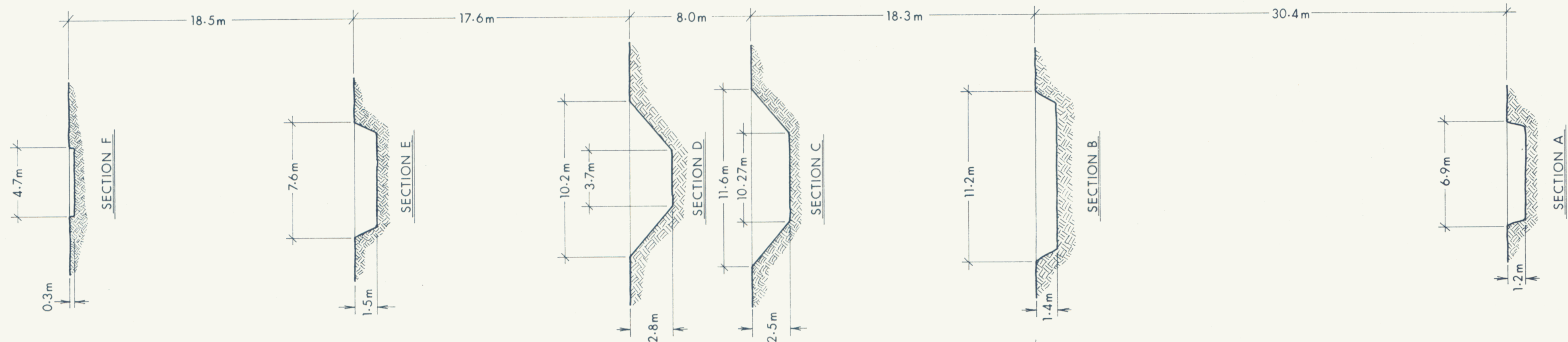
NOTES
 Locations of claim posts, claim lines, trenches, and drillholes were located approximately with compass and topofil chain.




Diamond drillholes

No.	Depth (m)	From No. 1 Post to No. 6	Bearing	Dip
81-1	14.0	317	129°	—
81-2	23.2	314	128-5°	300° 50"
81-3	26.6	322	138-5°	—
81-4	23.7	311	94°	—
81-5	68.5	679	119°	102° 50"

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 HALFERDAHL & ASSOCIATES LTD.
 EDMONTON, ALBERTA

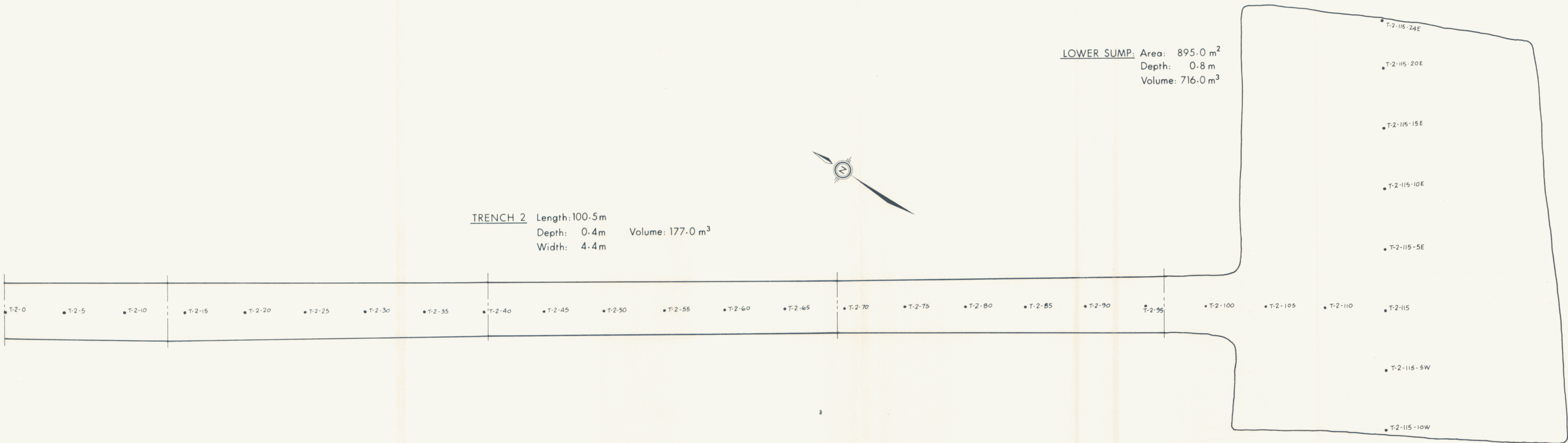
Fig. 3 Locations of Trenches, Sumps, and Drillholes.



- SYMBOLS**
- Rock chip sample with number 4004
 - Till sample location with number ● T-1-45
 - Banding (inclined, vertical, dip unknown) 
 - Joint (inclined)..... 
 - Shearing and dip 

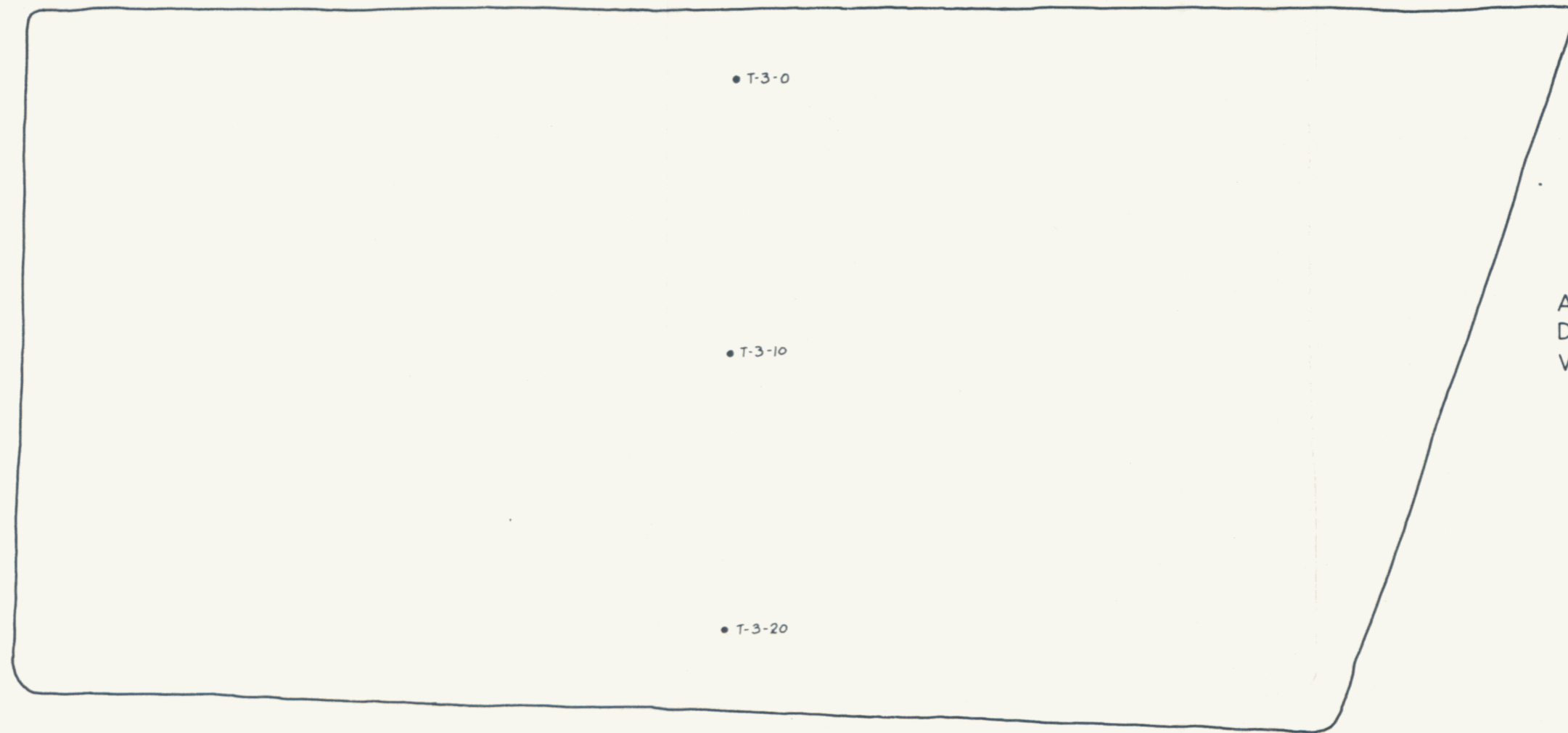
See appendix 2 for analyses of samples.

BUR PROPERTY		
HALFERDAHL & ASSOCIATES LTD. EDMONTON, ALBERTA		
Fig. 4 Plan and Sections of Trench 1		
BURWASH & TATAMAGOUCHE CREEKS, Y.T.		
0 5 METRES 10 15		
DBN	SCALE: 1:200	1981.10



SYMBOLS
 Till sample with number ● T-2-75
 See appendix 2 for analyses of till samples.

BUR PROPERTY		
HALFERDAHL & ASSOCIATES LTD. EDMONTON, ALBERTA		
Fig. 5 Plan of Trench 2 and Lower Sump		
BURWASH & TATAMAGOUCHE CREEKS, Y.T.		
0	5 METRES	10 15
DBN	SCALE: 1:200	1981.10



Area: 1337.0 m²
Depth: 1.01 m
Volume: 1349.8 m³

SYMBOLS

Till sample location with number..... ● T-3-10
See appendix 2 for analyses of till samples.

BUR PROPERTY		
HALFERDAHL & ASSOCIATES LTD. EDMONTON, ALBERTA		
Fig. 6 Plan of Upper Sump.		
BURWASH & TATAMAGOUCHE CREEKS, Y.T.		
0 5 METRES 10 15		
DBN	SCALE: 1:200	1981.10