

ARIS SUMMARY SHEET

District Geologist, Nelson

Off Confidential: 92.03.08

ASSESSMENT REPORT 21277

MINING DIVISION: Nelson

PROPERTY: Britannia  
LOCATION: LAT 49 25 30 LONG 117 17 27  
UTM 11 5474524 478908  
NTS 082F06W

CAMP: 004 Ymir - Nelson Area

CLAIM(S): Britannia  
OPERATOR(S): Jordan, R.P.  
AUTHOR(S): Jordan, R.P.  
REPORT YEAR: 1991, 19 Pages

COMMODITIES  
SEARCHED FOR: Gold, Copper  
KEYWORDS: Jurassic, Elise Formation, Schists

WORK  
DONE: Prospecting  
PROS 5.0 ha

LOG NO:	May 8/91	RD.
ACTION:		
FILE NO:		

+

BRITANNIA CLAIM  
REPORT ON PRELIMINARY MAPPING  
AND GEOCHEMICAL SAMPLING  
BRITANNIA CLAIM  
NELSON MINING DIVISION  
NTS MAP SHEET 82 F/6W  
49°25'30" N 117°17'27"W

AUTHOR: R. JORDAN, P. ENG.

OPERATOR: R. JORDAN

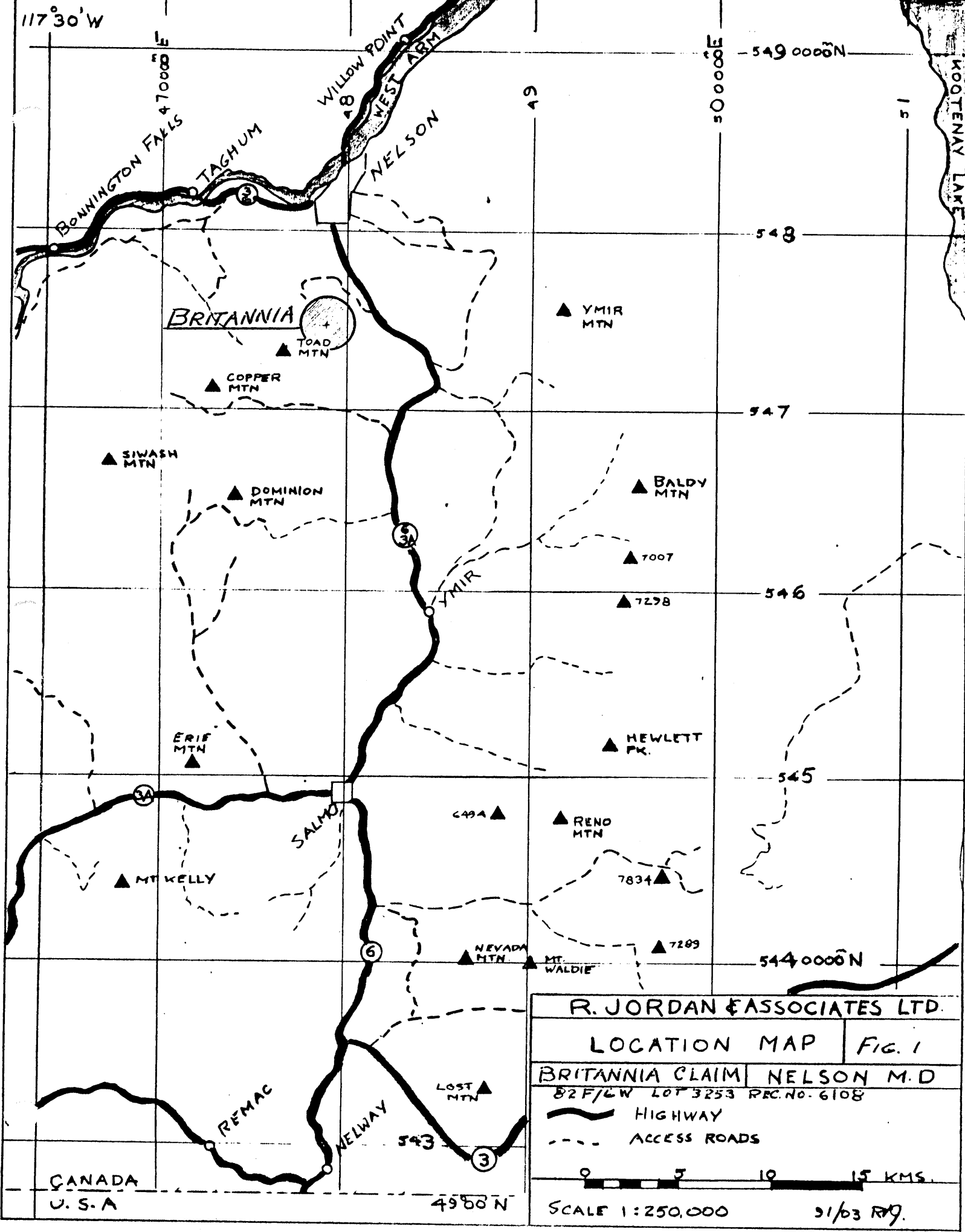
OWNERS: R. JORDAN 50%, W. R. READER 50%

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

21,277

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## 1.0 SUMMARY

The Britannia is a reverted two post crown granted mineral claim which was purchased at the March 15, 1990 Nelson, B.C. sale for a bid of \$95.00 by R. Jordan. A 50% interest was subsequently purchased by W.R. Reader. The claim is situated on the north-east side of the Silver King group and was staked on September 1st, 1894. The location is on the north-east side of Toad Mountain 6 kilometers south of the city of Nelson and is accessible by 6 kilometers of steep, rough logging roads up the north side of Gold Creek from Highway 6. The old Silver King workings are 500 to 1000 meters to the south-west of the Britannia claim.

Exploratory soil sampling was undertaken on the northern half of the claim which is in general heavily drift covered with occasional small outcrops. Although this area has probably been intensely prospected in past years there is still some scope for discovery of copper/gold veining by geochem methods in heavily drift covered areas of the claim. Anomalous gold values were encountered near the south end of this years survey.

## 2.0 INTRODUCTION

This report covers assessment work done on the Britannia claim during the period July 18th to 19th 1990 by R. Jordan and W.R. Reader working out of a tent camp located two miles west of Salmo.

### 2.1 Location, access and physiography

The Britannia claim is located on the steep east side of a north-easterly trending ridge of Toad Mountain between Noman and Giveout creeks, at an elevation between 5500' and 6000'. None of the original survey posts were found and the claim was located by altimeter readings, and tripod and Brunton triangulation to a number of prominent topographic features.

Summer access to the claim is by six kilometres of steep, rough logging roads starting just north of Gold Creek and eventually traversing a logged off bench several hundred feet below the Britannia claim.

Topography on the east half of the claim is moderately steep easing off to gentle east facing slopes on the west half. With the exception of the extreme north-east end of the claim which has been clear-cut in recent years, the claim is heavily timbered and brush covered and access by foot is difficult.

## 2.2 Property description and previous history

The Britannia claim is located in the Nelson Mining Division in map area 82F6/W. R.Jordan and W.R.Reader are co-owners. R.Jordan is the operator. Recording data is listed below:

<u>CLAIM NAME</u>	<u>UNITS</u>	<u>REC.NO.</u>	<u>STAKING DATE</u>	<u>AQUISITION</u>
Britannia	1	6108	Sept.1 1894	March 15 1990

This claim is on the north-east corner of the old Silver King group which was originally owned and operated by the Hall Mines Ltd from the discovery in 1886 until 1912 when the property was purchased by the Consolidated Mining and Smelting Co. Subsequently, at some time prior to 1965, New Cronin Babine Mines Ltd. acquired a 90% interest in the Silver King group. Since that time this interest has been handed down through a number of Vancouver based mining companies, most recently into the hands of Inter Globe Resources Ltd. There was some work done in 1966 and 1967 including some 3000' of diamond drilling and opening up some of the old workings from the Dandy level. Since then there has been little or no activity. Lease rentals on the closest adjoining claim to the west, the Daylight claim L907, were currently paid by Janet L. Wirth and Richard White, of North Vancouver. To the east and north, the Noman and Cam claims are held by Otto Janout of Whiterock, B.C.

Other than some fairly recent signs of line cutting and surveying no other activity was noted on the east half of the Britannia claim.

## 2.3 1990 Exploration

This program was carried out in one and a half days on July 18th and 19th. A considerable portion of this time was spent in trying to locate the claim within the bounds of reasonable accuracy. Finally, after a number of set-ups, triangulation (Brunton and tripod) to Ymir Peak and several other readily identifiable topographic features indicated we were within the north-east corner of the claim, assuming the plotted positions on the 1:50,000 82F6 topog sheet and the 82F6/W claim map are correct. The original survey plans and notes for the crown grant claims to the west, dating from the mid 1890's were obtained, coordinates for corners were calculated and plotted. These agreed quite well with the positions plotted on the 82F6 1:50,000 topog sheet.

A single line of soil samples, 15 in all, and one rock chip sample, were collected on, and immediately to the north of, the claim (see Fig.3)

### 3.0 GEOLOGY

#### 3.1 Regional Geology

The Silver King group occupies an area of intensely folded and sheared alkalic volcanics of the Rosslund group/Elise formations, and plagioclase porphyry rocks of the Silver King intrusions, all of late or middle Jurassic age. The Silver King group is bounded on the north-east and south-west by the edges of the north-westerly striking Silver King Shear. Most copper/gold bearing veins in the area are located within or close to major fault zones or shears similar to the Silver King shear.

#### 3.2 Claim Geology

No attempt has been made to map the geology on, or adjacent to, the Britannia claim, although outcrops of sheared volcanics were mapped along the soil sample traverse (see figure 3).

### 4.0 GEOCHEMISTRY

#### 4.1 Field Program

A total of fifteen soil samples were collected at 25 meter intervals along a line extending at N 10°E across the northern portion of the Britannia claim. All samples were taken from a fairly well developed and apparently undisturbed 'B' layer at depths between 15 and 20 cms. Sample size varied from 500 to 700 grams and samples were collected in tagged cloth sample bags. One rock chip sample was taken from several narrow (2-4 cms) rusty white quartz stringers in sheared dense light grey volcanics at the north end of the line.

#### 4.2 Analytical Techniques

All samples were assayed by Chemex Labs Ltd. at their North Vancouver Lab. Soil samples were dried, sieved through a -80 mesh screen, then analyzed using Chemex's ICP-32 trace level multi-element package. This package uses a nitric-aqua-regia digestion process which is not effective for acid resistive minerals, however is considered to be adequate for the major gold indicators, and for reconnaissance geochem projects. All samples were analyzed for gold using Chemex's 101 fire assay trace level analysis with a detection limit of 1 ppb.



### 4.3 Assay Results

Values for gold, zinc, lead and copper were plotted and contoured (see Figs.4,5,6&7). A weak gold anomaly (50-100 ppb) occurs at station 1. A stronger anomaly (50-238 ppb) is present between stations 12 and 15 coincident with the appearance of rusty brown soil at the 'B' layer interval.

Weak copper anomalies occur at stations 1, 5, 7, 11 and 13, the latter anomaly coincident with the gold anomaly between stations 12 and 15.

Zinc values are relatively uniform at background levels. None of the other 32 icp values were considered to be significant.

The rock chip sample taken at station 6 indicated a rather high lead assay but is not considered to be significant.

### 5.0 CONCLUSIONS AND RECOMMENDATIONS

Geochem results indicate that soil sampling will be a valid method of evaluating the mineral potential of this claim. Next summer's work should include additional surveying to confirm the claim positioning, geological mapping, and an additional 30 to 50 soil samples to evaluate the anomaly at station 14 and assess the remainder of the claim.

### 6.0 REFERENCES

1. H.W.Little, GSC Memoir 308, Nelson Map-area, West Half, British Columbia (82 F W 1/2)
2. Trygve Hoy and Kathryn Andrew. The Rossland Group, Nelson Map Area, South Eastern British Columbia (82F6). BC Min.Res.Div., Geol.Survey Branch, Geological Fieldwork 1988 p.33-43, Open File 1989-11 2 sheets.
3. BC Minister of Mines annual reports 1887, 1889-1919, 1947-1949, 1956, 1958, 1965-1967.
4. BC Minfile 176 (Silver King)
5. BC Minfile 175 (Daylight)

7.0 STATEMENT OF EXPENDITURES

4WD transport Salmo camp to site, 2 days 58 Km @ \$.21, 24 Km @ \$.27	18.70
Supply costs	
Meals 3 man days @ \$9.50	28.50
Camp supplies	7.00
Survey costs	
Drafting, map prep., xerox, etc.	19.00
Planning and Supervision	50.00
Labor 16 hours @ \$13.25	212.00
Assay costs 13 x \$16	208.00
Total	<u>\$543.20</u>

8.0 **AUTHOR'S QUALIFICATIONS**

I, Robert Jordan, resident at RR 1, Priddis, Alberta certify that I am the current holder of the Association of Professional Engineers of British Columbia certificate of registration No.4707 (Professional Engineer, Geological).



## BRITANNIA CLAIM SAMPLE DESCRIPTION

90/07/19

SAMPLE #	UTM COORDINATE		ELEV	TYPE	DEPTH	DESCRIPTION	COMMENTS
	NORTH	EAST	m				
T1-1	5474574	478984	1701	S/B	27	Dark chocolate brn soil / rock chips	
T1-2	601	989	1690	S/B	22	same	
T1-3	623	992	1682	S/B	17	same	
T1-4	648	996	1680	S/B	17	same with shale chips	
T1-5	677	478992	1675	S/B	17	Dark brn / shale chips	West side of narrow steep gully
T1-6	714	479008	1670	RC	0	Rusty white quartz stringers in dense lt gry schist	
T1-7	550	478970	1702	S/B	15	Med. brn soil / schist fragments	
T1-8	528	974	1710	S/B	15	same	
T1-9	503	971	1720	S/B	15	same	
T1-10	477	966	1730	S/B	15	same	
T1-11	452	961	1740	S/B	15	same	
T1-12	427	957	1744	S/B	15	same	
T1-13	403	953	1760	S/B	15	Rusty brn. soil with rusty gry shale fragments	
T1-14	388	949	1770	S/B	15	Rusty brn soil / shale talus	
T1-15	354	945	1770	S/B	15	Rusty brn soil / fine gry shale fragments	
T1-16	329	478940	1770	S/B	17	Med. brn rusty soil	

Typical soil profile:

A	5-10 cm gry to brn humus
B	10-20 cm brn soil
C	rock fragments



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: JORDAN, R. & ASSOCIATES LTD.

R.R.1  
PRIDDIS, AB  
TOL 1W0

Page Number: 1-A  
Total Pages: 1  
Invoice Date: 21-AUG-90  
Invoice No.: I-9020573  
P.O. Number:

Project:  
Comments: CC:W.R.READER

## CERTIFICATE OF ANALYSIS A9020573

SAMPLE DESCRIPTION	PREP CODE		Au NAA	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
			ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
T1-01	201	238	100	1.2	2.76	< 5	150	< 0.5	< 2	0.41	0.5	23	39	92	4.86	< 10	< 1	0.16	20	0.87	1890
T1-02	201	238	16	0.2	2.35	< 5	120	< 0.5	< 2	0.26	0.5	19	38	57	4.91	< 10	< 1	0.14	10	0.78	1565
T1-03	201	238	22	0.8	3.34	15	150	< 0.5	< 2	0.40	< 0.5	21	48	84	5.16	< 10	< 1	0.10	20	0.96	880
T1-04	201	238	19	0.2	2.42	5	150	< 0.5	< 2	0.59	0.5	20	49	70	5.01	< 10	< 1	0.10	10	0.94	1160
T1-05	201	238	37	0.4	2.93	< 5	170	< 0.5	< 2	0.66	0.5	28	61	108	5.33	< 10	< 1	0.10	20	1.11	2150
T1-07	201	238	47	0.6	2.18	5	140	< 0.5	< 2	0.53	0.5	21	30	90	4.45	< 10	< 1	0.13	20	0.67	1880
T1-08	201	238	40	0.4	1.73	< 5	100	< 0.5	< 2	0.32	< 0.5	15	18	42	3.84	< 10	< 1	0.08	10	0.35	1495
T1-09	201	238	28	0.8	2.09	< 5	150	< 0.5	< 2	0.53	< 0.5	17	14	41	3.86	< 10	< 1	0.09	20	0.29	2640
T1-10	201	238	14	0.2	2.48	< 5	110	< 0.5	< 2	0.15	0.5	14	27	47	4.58	< 10	2	0.09	10	0.62	810
T1-11	201	238	8	0.6	1.88	10	150	< 0.5	< 2	0.32	0.5	18	27	60	4.38	< 10	< 1	0.10	10	0.34	1750
T1-12	201	238	20	< 0.2	2.20	< 5	100	< 0.5	< 2	0.06	< 0.5	12	19	42	4.43	< 10	< 1	0.10	10	0.29	560
T1-13	201	238	87	< 0.2	2.52	10	100	< 0.5	< 2	0.06	< 0.5	22	35	81	6.25	< 10	< 1	0.09	10	0.49	735
T1-14	201	238	238	< 0.2	3.24	< 5	70	< 0.5	< 2	0.04	< 0.5	13	47	54	3.73	< 10	< 1	0.07	10	0.32	500
T1-15	201	238	6	< 0.2	3.56	< 5	80	< 0.5	< 2	0.03	1.0	13	18	48	3.30	< 10	< 1	0.08	< 10	0.14	1325
T1-16	201	238	2	< 0.2	3.92	< 5	40	< 0.5	< 2	0.02	0.5	6	19	28	3.11	< 10	< 1	0.05	< 10	0.13	310



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Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: JORDAN, R. & ASSOCIATES LTD.

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Invoice No.: I-9020575  
P.O. Number:

Project:  
Comments: CC:W.R.READER

## CERTIFICATE OF ANALYSIS A9020575

SAMPLE DESCRIPTION	PREP CODE		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo
			ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm
T1-RC-06	299	238	1.0	2.04	15	70	< 0.5	6	0.98	1.5	17	212	35	3.50	< 10	< 1	0.13	< 10	1.43	905	1
T1-RC-14A	299	238	6.4	0.53	35	130	< 0.5	< 2	0.46	2.5	2	281	142	0.96	< 10	< 1	0.11	< 10	0.49	435	1



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Invoice No.: I-9020573  
P.O. Number:

## CERTIFICATE OF ANALYSIS A9020573

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
T1-01	201 238	< 1	0.01	18	1420	26	< 5	3	39	0.04	< 10	< 10	55	< 10	94
T1-02	201 238	< 1	0.02	19	1090	20	< 5	3	28	0.08	< 10	< 10	62	< 10	84
T1-03	201 238	< 1	0.03	26	850	20	< 5	5	42	0.09	< 10	< 10	66	< 10	94
T1-04	201 238	< 1	0.04	20	890	42	< 5	3	56	0.07	< 10	< 10	63	< 10	106
T1-05	201 238	< 1	0.01	32	1760	26	< 5	5	59	0.06	< 10	< 10	65	< 10	106
T1-07	201 238	< 1	0.05	17	1220	18	< 5	4	46	0.04	< 10	< 10	46	< 10	102
T1-08	201 238	< 1	0.02	9	1030	8	< 5	1	30	0.04	< 10	< 10	38	< 10	96
T1-09	201 238	< 1	0.02	7	1460	2	< 5	1	40	0.04	< 10	< 10	38	< 10	126
T1-10	201 238	< 1	0.02	13	1030	2	< 5	2	14	0.10	< 10	< 10	61	< 10	110
T1-11	201 238	< 1	0.02	12	1310	16	< 5	2	23	0.09	< 10	< 10	53	< 10	128
T1-12	201 238	< 1	0.03	9	1460	2	< 5	2	10	0.12	< 10	< 10	54	< 10	86
T1-13	201 238	< 1	0.05	19	1750	8	< 5	3	14	0.10	< 10	< 10	55	< 10	104
T1-14	201 238	< 1	0.05	17	880	6	< 5	3	7	0.12	< 10	< 10	53	< 10	72
T1-15	201 238	< 1	0.06	10	1800	8	< 5	2	5	0.09	< 10	< 10	37	< 10	74
T1-16	201 238	< 1	0.04	5	1210	16	< 5	2	4	0.13	< 10	< 10	37	< 10	42



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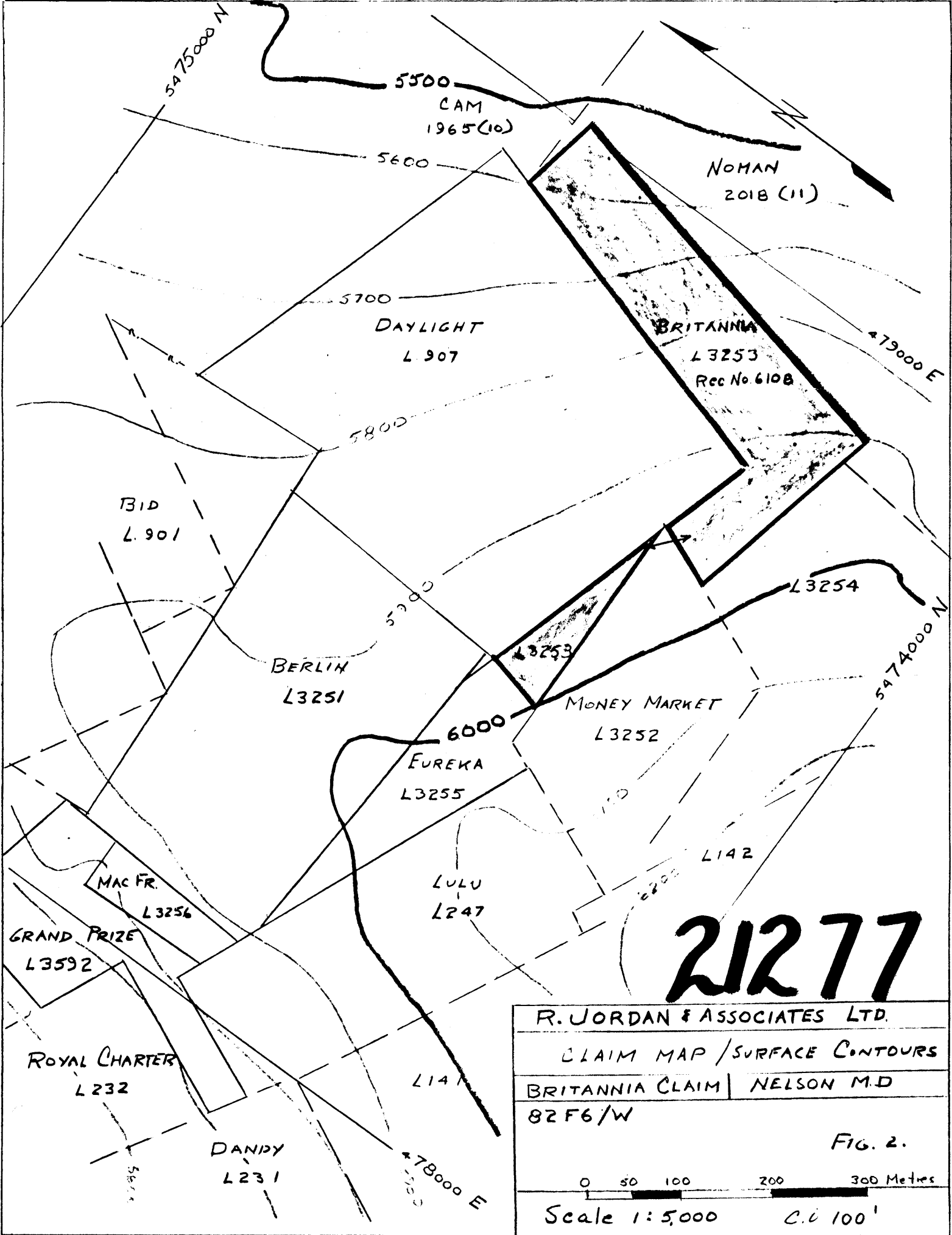
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PRIDDIS, AB  
TOL 1W0

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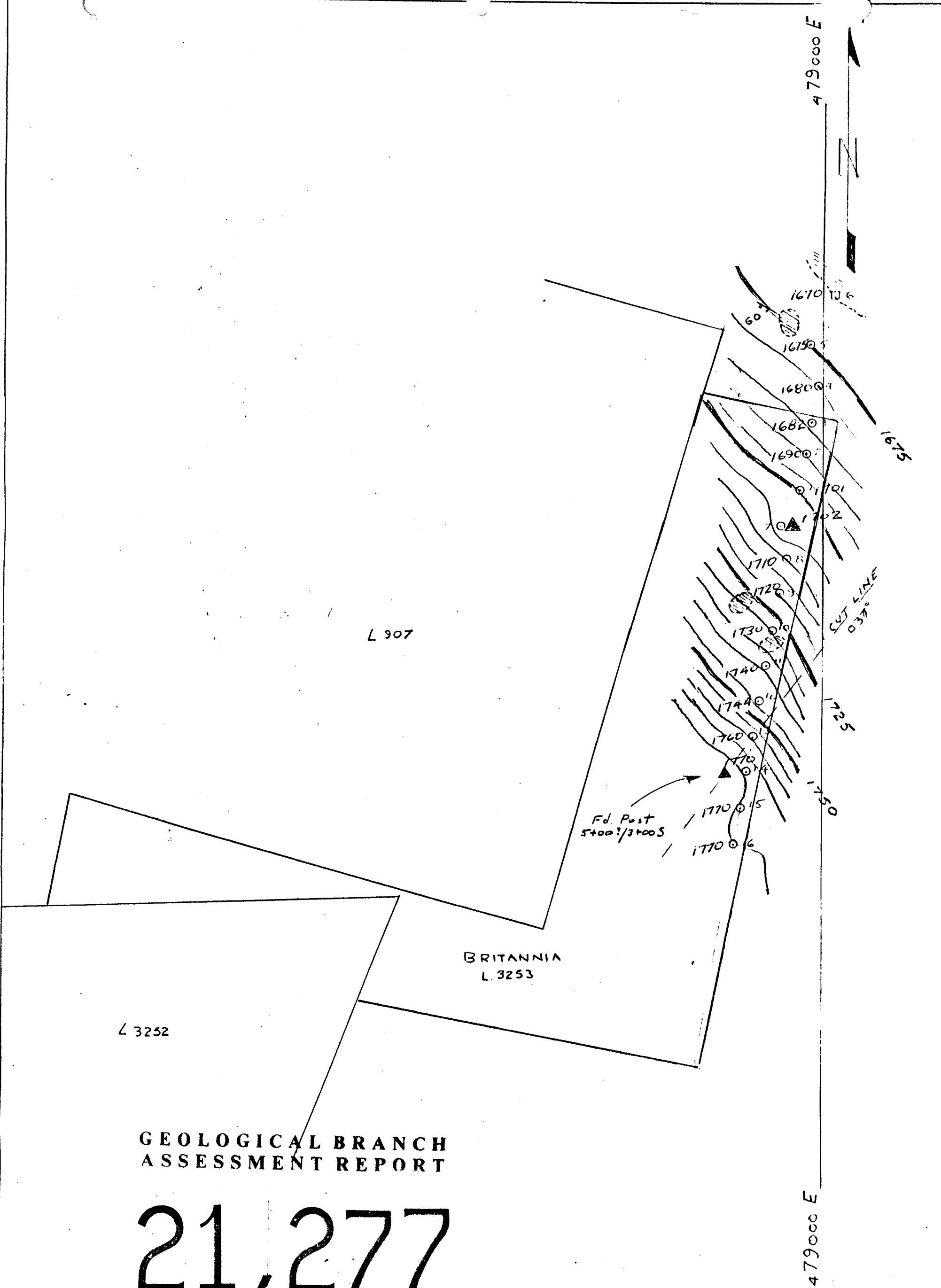
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Total Pages: 1  
Invoice Date: 16-AUG-90  
Invoice No.: I-9020575  
P.O. Number:

## CERTIFICATE OF ANALYSIS A9020575

SAMPLE DESCRIPTION	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	As ppm
T1-RC-06	299 238	0.03	25	630	304	< 5	5	97	0.12	< 10	< 10	93	10	92	6
TL-RC-14A	299 238	< 0.01	7	90	584	45	1	22	< 0.01	< 10	< 10	12	< 10	138	42







R. JORDAN & ASSOCIATES LTD.	
CLAIM MAP / SURFACE CONTOURS	
BRITANNIA CLAIM	NELSON M.D
82 F6/W	
FIG. 2.	
Scale 1:5,000      C.O 100'	



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

21,277

5474000 N 5474000 N

- LEGEND
-  outcrop
  -  soil sample
  -  Rock chip sample.
  -  SURVEY MARKER

R. JORDAN & ASSOCIATES LTD	
ELEVATIONS (IN METRES A.S.L.)	
BRITANNIA CLAIM	NELSON MD
82F6W	FIG. 3
COMPILED BY: R. JORDAN PENG	
9/03/19	
0 20 40 60 80 100 120 Metres	
Scale 1:2500 c.i. 25 Metres	



479000 E

N

479000 E

L 907

BRITANNIA  
L. 3253

L 3252





**GEOLOGICAL BRANCH  
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# 21,277

5474000 N

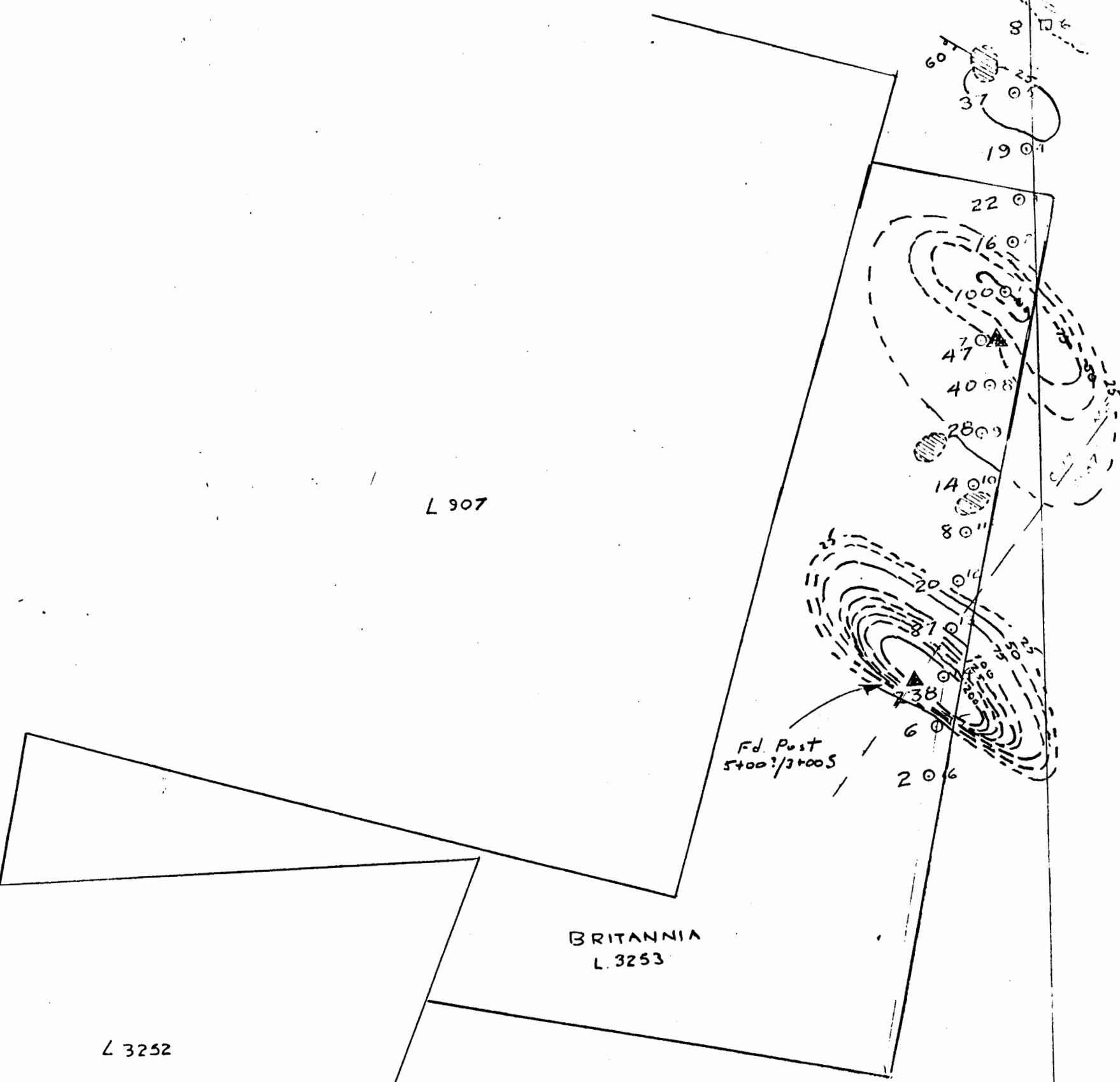
5474000 N

**LEGEND**

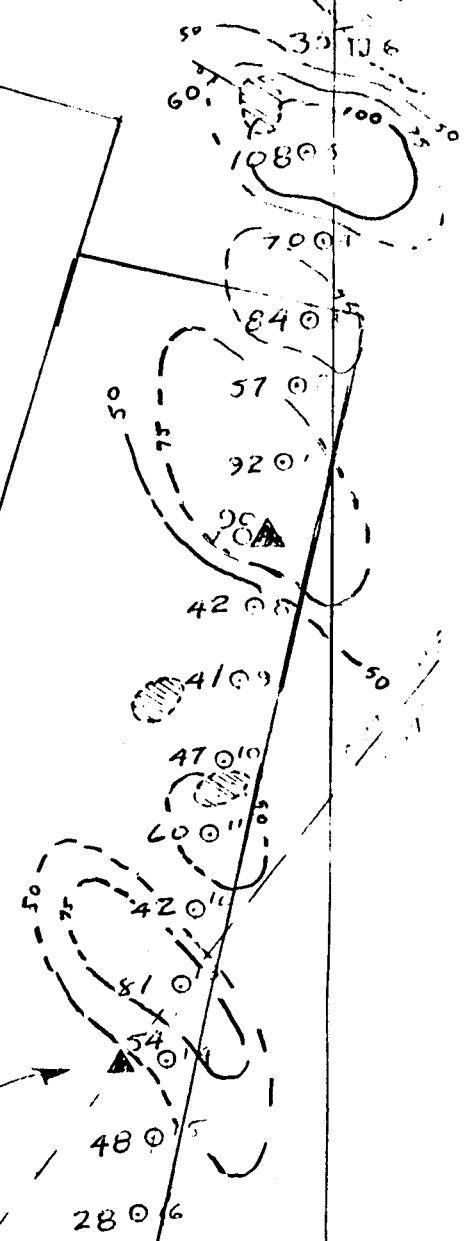
-  outcrop
-  Soil sample
-  Rock chip sample.
-  SURVEY MARKER

R. JORDAN & ASSOCIATES LTD	
Au (in ppb)	
BRITANNIA CLAIM	NELSON M.D
82F6W	FIG. 4
COMPILED BY: R. JORDAN P. ENG.	
91/03/19	
0 20 40 60 80 100 120 Metres	
Scale 1: 2500	c.i. 25 ppb

Fd. Post  
5400?/3400S



479000 E



L 907

BRITANNIA  
L 3253

L 3252

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**





# 21,277

479000 E

5474000 N

5474000 N

**LEGEND**

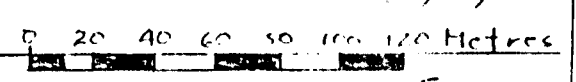
-  outcrop
-  Soil sample
-  Rock chip sample
-  SURVEY MARKER

R. JORDAN & ASSOCIATES LTD

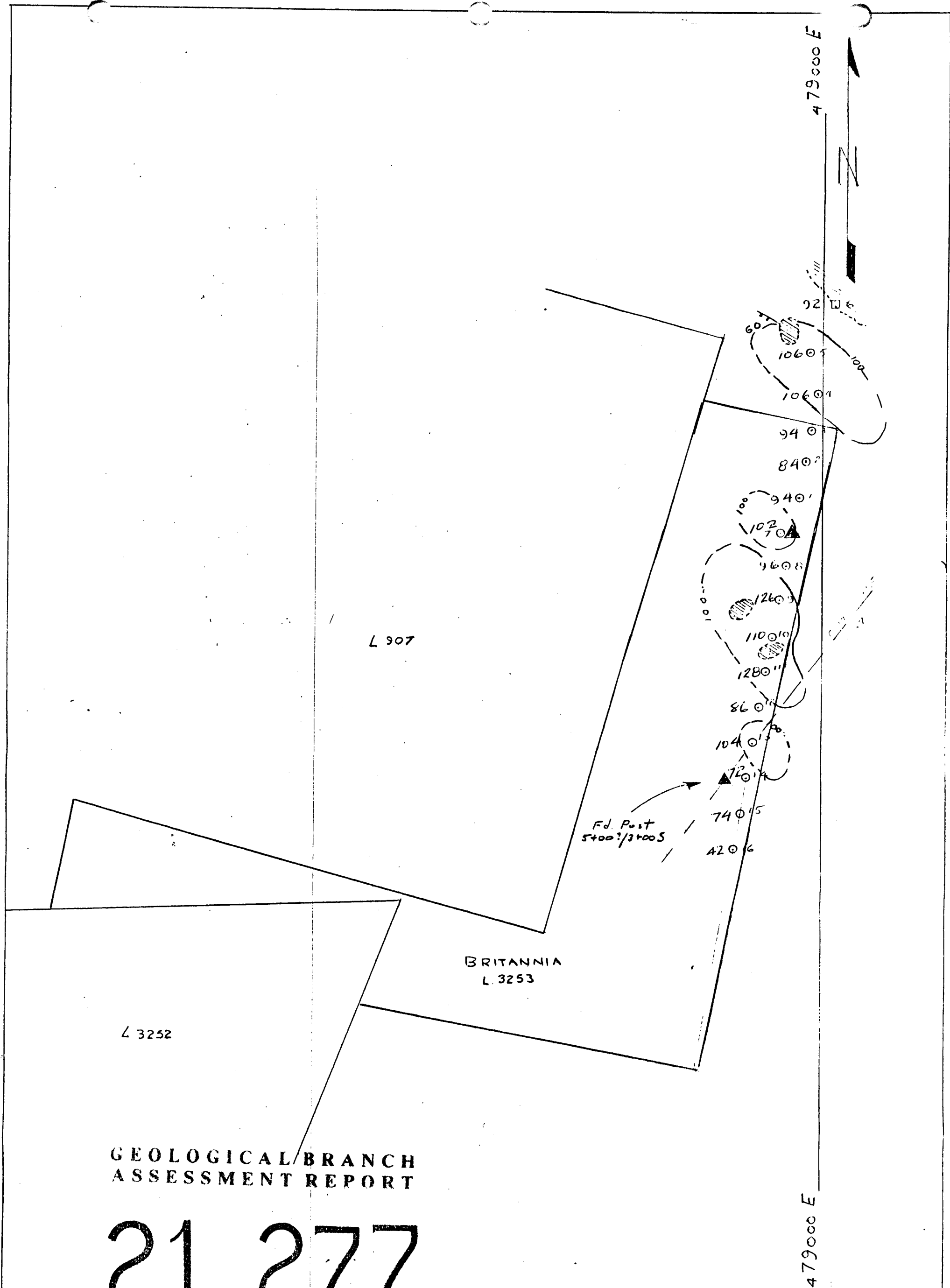
CU (in ppm)

BRITANNIA CLAIM | NELSON MD

82F6W FIG. 5  
COMPILED BY: R. JORDAN PENG 9.10.19



Scale 1:2500 c.l. 25 ppm







GEOLOGICAL BRANCH  
ASSESSMENT REPORT


21,277

5474000 N

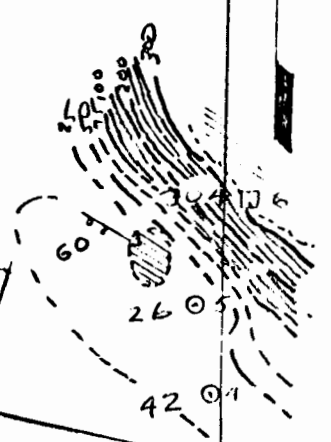
5474000 N

LEGEND

-  outcrop
-  Soil sample
-  Rock chip sample
-  SURVEY MARKER

R. JORDAN & ASSOCIATES LTD	
Zn (in ppm)	
BRITANNIA CLAIM	NELSON MD
82F6W	FIG. 6
COMPILED BY: R. JORDAN P. ENG.	
9.10.19	
	
Scale 1: 2500	C.L. 100 ppm

479000 E



Fd. Post  
5400?/34005

L 907

BRITANNIA  
L. 3253

L 3252

GEOLOGICAL BRANCH  
ASSESSMENT REPORT





# 21,277

479000 E

5474000 N

5474000 N

LEGEND

-  outcrop
-  Soil sample
-  Rock chip sample
-  SURVEY MARKER

R. JORDAN & ASSOCIATES LTD

Pb (in ppm)

BRITANNIA CLAIM | NELSON M.D

82F6W FIG. 7

COMPILED BY: R. JORDAN PENG  
91/03/19



Scale 1: 2500 c.l. 25 ppm