



Province of
British Columbia

Ministry of
Development, Trade
and Tourism

004410

Government Agent
Room 104, Court House
1100 Second Street West
Box 380
Revelstoke, British Columbia
V0E 2S0
Telephone: (604) 837-7636
Facsimile: (604) 837-7640

GOLD COMMISSIONER

Mr T KALNINS
Energy Mines & Petroleum Resources
Mineral Inventory Unit
525 Superior Street Second Floor
W Wing
VICTORIA, B.C.

27 June 1991

Rec'd 9/16/28
T.K.

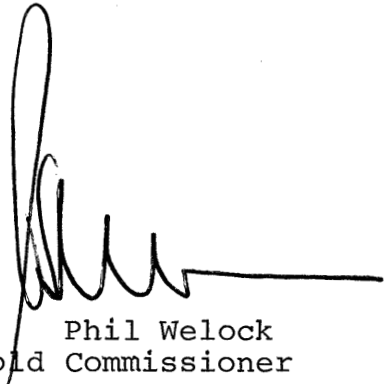
Enclosed are documents relating to a Mineral
Property West of Revelstoke.

As the owner has relinquished his claim, or is letting
the property forfeit, I would ask that some record be maintained
of the work that was done in that area.

I realize that there is not much reason to assign
report numbers, however, in the interest of future history,
would you consider having the data obtained by Mr Thomas filed
for future reference by poospectors in the area.

If you feel that this need not be done, perhaps
you could pass the reports on to Danny HORA, Industrial Minerals
expert.

cc: G.E THOMAS
Calgary


Phil Welock
Gold Commissioner

82LNE 18

To Gold Commissioner,
Government Agent,
Ministry of Regional and Economic Development,
P.O. Box 380,
Rexdale, B.C. V0E 2S0.

10 ROSEVIEW DRIVE N.W.,
CALGARY,

ALBERTA T2K 1N7
June 23rd 1991

Dear Mr Welock,

It is with regret that I wish to
officially relinquish my Three G's, 4 Post Claim (2924)
at Three Valley Gap. Interesting monazite - graphite
showing which I and Teck investigated. Following
reports, assays, collages are self explanatory. Graphite-
rock - earth samples given to Dan Hora + Dr
Simandl of B.C. Victoria (industrial minerals). As you
can see Teck expended over 2000 dollars on this
project whereas my expenses were 1500 dollars.

Some harassment on the road up from
the motel with hunters and ski-do fanatics.
but on the whole very enjoyable. Better luck
next time

Sincerely,

G. E. Thomas

P.S. Thanks for your patience with Calgary Old Age Pensioners



RECORD OF 4 POST CLAIM - MINERAL TENURE ACT

SECTION 23

MAP NO. 82L/16W.

RECORD NO. 2924

MINING RECEIPT NO. 1000029 RECORDED BY P. S. Wellock REVELSTOKE B.C. DATE OF RECORD July 1 19 90

DO NOT WRITE IN THIS SHADED AREA

GOLD COMMISSIONER

REVELSTOKE MINING DIVISION

APPLICATION TO RECORD A 4 POST CLAIM

I, GODFREY. E. THOMAS NAME OF LOCATOR 10 ROSEVIEW DRIVE N.W ADDRESS CALGARY, ALBERTA T2K1N7 289.494 HOME T2K1N7 TELEPHONE 265 1605 Office POSTAL CODE VALID SUBSISTING F.M.C. NO. 295730 FMC CODE

AGENT FOR SELF NAME 10 ROSEVIEW DRIVE N.W ADDRESS CALGARY, ALBERTA 289.494 HOME T2K1N7 TELEPHONE 265 1605 Office POSTAL CODE VALID SUBSISTING F.M.C. NO. 295730 FMC CODE

hereby apply for a record of a 4 post claim for the location as outlined on the attached copy of mineral titles reference map

No. 82L/16W in the REVELSTOKE Mining Division.

ACCESS: Describe how you gained access to the location; include references to roads, trails, topographic features, permanent landmarks, and a description of the legal post location.

FORESTRY ROAD OFF Trans Canada Highway east of Three Valley Gap (see attached aerial photograph + Map. L.C. P # I implanted 1400 metres due east of Three Valley Gap Motel complex

I have securely fastened the metal identification tag embossed "LEGAL CORNER POST" to the legal corner post (or witness post) and impressed this information on the tag:

LEGAL CORNER POST

TAG NO. 109781

CLAIM NAME THREE G'S

LOCATOR GODFREY. E. THOMAS

FMC NO. 295730

AGENT FOR SELF

FMC NO. 295730

DATE COMMENCED July 1st 1990

TIME 8. a.m.

DATE COMPLETED 10. a.m. July 1st 1990

TIME 10. a.m.

NUMBER OF CLAIM UNITS

N 5 S 0 E 4 W 0

IDENTIFICATION POSTS NOT PLACED

were CLAIM POST # 4

because NEAR VERTICAL TERRAIN.

*If a witness post was placed for the legal corner post:

Bearing from witness post to true position of legal corner post

is degrees,

at a distance of metres.

Bearing from identification post to witness post

degrees, at a distance of metres.

NOTE: Legal corner post can be witnessed only if it was not feasible to place any posts.

I have complied with all the terms and conditions of the Mineral Tenure Act Regulation pertaining to the location of 4 post claims and have attached a plan of the location on which the positions of the legal corner post and all corner posts (and witness and identification posts if applicable) are indicated.

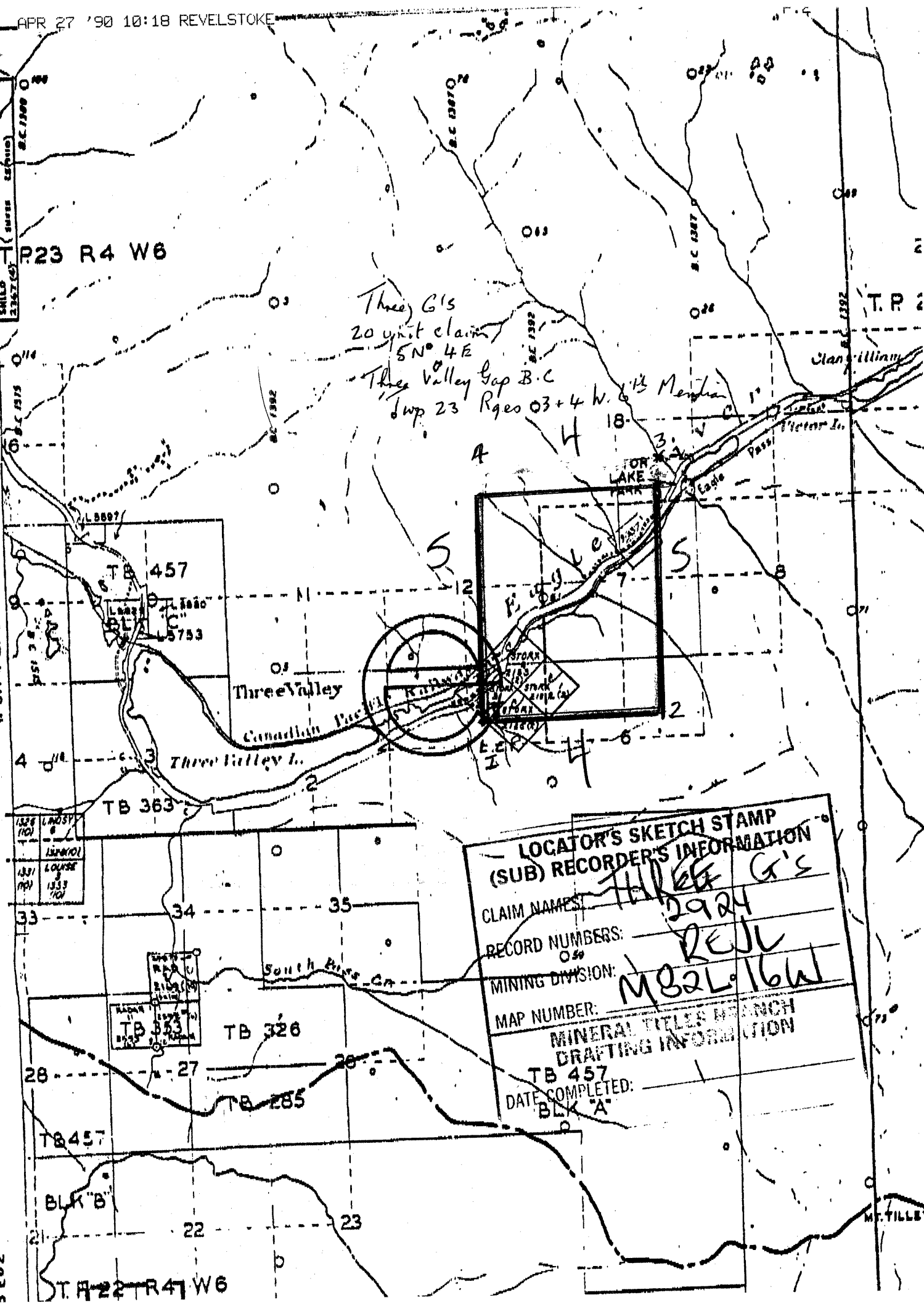
G. E. Thomas

Signature of Locator

PAID \$100.00 JUL 5 1990 GOVERNMENT AGENT REVELSTOKE TRANS. # 1000029 RECORDING STAMP

M82L/16W

(FOR PLACER SEE P 82L/16W)



Three G's
 20 unit claim
 5N° 4E
 Three Valley Gap B.C.
 Twp 23 Rges 03+4 W. 6 1/2 Meridian

**LOCATOR'S SKETCH STAMP
 (SUB) RECORDER'S INFORMATION**

CLAIM NAMES: THREE G'S

RECORD NUMBERS: 2924

MINING DIVISION: REVL

MAP NUMBER: M82L-16W

MINERAL TITLES BRANCH
 DRAFTING INFORMATION

TB 457
 DATE COMPLETED:
BLK "A"

1326 101	LINDSEY 8
1330 101	LOUISE 3
1331 101	LOUISE 3
1333 101	

TB 353

5 EUZ

T. R 22 R 4 W 6



TECK EXPLORATIONS LIMITED

December 4, 1990

Mr. G. Thomas
10 Roseview Drive N.W.
Calgary, Alberta
T2K 1N7

Dear Mr. Thomas:

As discussed, I enclose costs of the surveys and assaying at Three Valley Gap to assist with assessment credits. The surveys were made October 24 and 25, 1990 by myself and assistant G. Lovang. Including half day travel time each way, total time is three days, and three nights accommodation. Rates are what we normally use for assessment, and although not precise, have been acceptable by the Mining Recorder.

Since you will have to prepare a report, I have included extra copies of survey maps.

Yours truly,

A.I. Betmanis

AIB:cl
Encl:

THREE VALLEY GAP SURVEYS, OCTOBER 23-26, 1990

A.I. Betmanis, P. Eng., geologist, 3 days @ \$230/day	\$ 690.00
G. Lovang, assistant, 3 days @ \$185/day	555.00
6 man-days accommodation @ \$70/day	420.00
3 days truck rental plus fuel @ \$60/day	180.00
Analyses for Au, C, ICP-24 (Chemex Labs)	<u>161.80</u>
	<u>\$2,006.80</u>

Reporting can be additional, but you have sufficient for one year's assessment.

Magnetometer Survey

Instrument used was an EG & G Geometrics G-816/826 portable proton magnetometer reading total field to closest gamma. Corrected base station readings were established on the base line and lines were looped to correct for diurnal variation.

Self Potential Survey

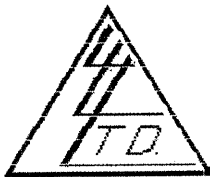
A 300 metre long line was used with porous pots containing copper electrodes suspended in saturated copper sulphate solution. All line readings were corrected to a single base station on the base line and all readings shifted to eliminate positive millivolts. Values plotted are negative millivolts without showing sign for ease of interpretation. A 200 negative millivolt reading above background usually indicates semi-massive sulphides or graphite.

To: MR. G.E. THOMAS,
10 Roseview Drive N.W.,
Calgary, Alberta
T2K 1N7

File No. 33814

Date October 30, 1990

Samples Rock



Certificate of Assay LORING LABORATORIES LTD.

SAMPLE NO.

%
Carbon

"Assay Analysis"

Three Valley Gap

1	3.45
2	3.22
3	1.82
Extension	3.70

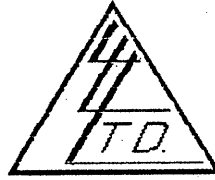
I Hereby Certify that the above results are those
assays made by me upon the herein described samples....

Rejects retained one month.
Pulps retained one month
unless specific arrangements
are made in advance.


Assayer

To: MR. G.E. THOMAS,
10 Rosbview Drive N.W.,
Calgary, Alberta
T2K 1N7

File No. 33814
Date October 30, 1990
Samples Rock -



Certificate of Assay LORING LABORATORIES LTD.

SAMPLE NO.

%
Carbon

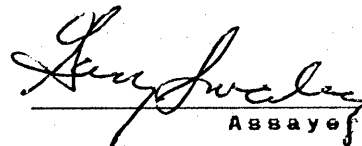
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are made in advance.


Assayer

TOTALQUANT: SUMMARY REPORT

Data Set: TQ
 Data Set Description: TQTEST
 Parameter File: TQ1
 Sample ID: sbk *Sample M-4*
 Sample Description:
 Sample Type: Sample
 Sequence Number: 026
 Blank: Subtracted
 Dilution Factor: 1
 Number of Repeats: 1
 Time: 10:35:42 Oct 16 1990
 Units: ~~ppb~~

Sample Blank

Analyte	Concentration	Intensity	Analyte	Concentration	Intensity
H	NOT MEASURED		Ru	0.00	0
He	NOT MEASURED		Rh	0.00	10
Li	0.00	0	Pd	0.00	0
Be	0.00	0	Ag	0.00	0
B	0.42	287	Cd	0.00	14
C	28.95	9718	In	0.00	18
N	188300000.00	6971622	Sn	0.17	700
O	NOT MEASURED		Sb	0.00	0
F		97418	Te	0.00	0
Ne		0	I	0.00	0
Na	7.37	49830	Xe		0
Mg	2.25	5181	Cs	0.01	20
Al	0.00	0	Ba	0.09	307
Si	121.80	792783	La	0.00	0
P	0.00	0	Ce	0.00	0
S	0.00	0	Pr	0.00	3
Cl	0.00	0	Nd	0.00	0
Ar		0	Sm	0.00	0
K	3.50	20260	Eu	0.00	0
Ca	0.00	0	Gd	0.00	0
Sc	0.00	0	Tb	0.00	0
Ti	3.71	24280	Dy	0.00	0
V	0.01	43	Ho	0.00	0
Cr	0.98	6483	Er	0.00	0
Mn	0.17	1463	Tm	0.00	3
Fe	0.00	0	Yb	0.00	0
Co	0.00	0	Lu	0.00	5
Ni	0.29	1345	Hf	0.00	0
Cu	0.25	1064	Ta	0.00	28
Zn	0.62	1412	W	0.11	677

Printed 10:37 CST Oct 16 1990

Page 1

Ga	0.01	57	Re	0.00	27
Ge	0.00	0	Os	0.00	0
As	0.00	0	Ir	0.00	0
Se	0.00	0	Pt	0.00	0
Br	0.00	0	Au	0.00	6
Kr		0	Hg	0.00	0
Rb	0.03	232	Tl	0.00	18
Sr	0.00	0	Pb	0.83	3752
Y	0.00	0	Bi	0.01	28
Zr	0.15	1185	Th	0.00	8
Nb	0.00	28	U	0.00	0
Mo	0.05	311			

TOTALQUANT: SUMMARY REPORT

Data Set: TQ
 Data Set Description: TQTEST
 Parameter File: TQ1
 Sample ID: ml1
 Sample Description:
 Sample Type: Sample
 Sequence Number: 027
 Blank: Subtracted
 Dilution Factor: 1
 Number of Repeats: 1
 Time: 10:40:48 Oct 16 1990
 Units: ~~ppb~~

Sample ML-1

Concentrations in ppm

Analyte	Concentration	Intensity	Analyte	Concentration	Intensity
H	NOT MEASURED		Ru	0.01	40
He	NOT MEASURED		Rh	0.03	173
Li	19.17	5322	Pd	0.10	472
Be	0.04	10	Ag	1.41	7053
B	0.00	0	Cd	0.22	737
C	0.00	0	In	0.09	446
N	0.00	0	Sn	0.76	3142
O	NOT MEASURED		Sb	0.02	39
F		0	Te	1.86	1390
Ne		0	I	0.00	0
Na	INDETERMINATE		Xe		0
Mg	4398.00	10112414	Cs	1.02	3983
Al	INDETERMINATE		Ba	0.00	0
Si	31.18	202839	La	* 271000.00	1226991573
P	240.10	165675	Ce	0.00	0
S	0.00	0	Pr	* 272.40	1274448
Cl	0.00	0	Nd	* 825.70	4632910
Ar		0	Sm	83.21	569289
K	INDETERMINATE		Eu	2.65	17932
Ca	* 1830.00	16364063	Gd	40.65	319166
Sc	1.76	13958	Tb	3.39	29915
Ti	* 1185.00	7761349	Dy	6.49	50921
V	43.62	280508	Ho	0.65	5533
Cr	18.34	121905	Er	1.21	9525
Mn	113.00	985640	Tm	0.12	925
Fe	INDETERMINATE		Yb	1.01	6800
Co	93.79	652620	Lu	0.11	839
Ni	213.40	988010	Hf	0.11	743
Cu	464.80	1971989	Ta	0.27	1595
Zn	64.93	148166	W	79.05	473542

*this =
27 wt %
La ↓*

G - ml

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Page 1

Ga	20.52	102273	Re	0.02	151
Ge	1.90	7633	Os	0.00	0
As	6.56	4158	Ir	0.00	0
Se	6.99	5005	Pt	0.00	0
Br	0.00	0	Au	0.00	0
Kr		0	Hg	0.23	321
Rb	36.95	260922	Tl	0.23	1144
Sr	31.78	222699	Pb	7.44	33729
Y	15.37	119593	Bi	0.89	3155
Zr	2.34	18116	Th	596.70	* 1563110
Nb	3.13	20738	U	10.35	29018
Mo	82.91	478944			

TOTALQUANT: SUMMARY REPORT

Data Set: TQ
 Data Set Description: TQTEST
 Parameter File: TQ1
 Sample ID: ml2
 Sample Description:
 Sample Type: Sample
 Sequence Number: 028
 Blank: Subtracted
 Dilution Factor: 1
 Number of Repeats: 1
 Time: 10:46:27 Oct 16 1990
 Units: ppb

Concentrations in ppm

Analyte	Concentration	Intensity	Analyte	Concentration	Intensity
H	NOT MEASURED		Ru	0.00	0
He	NOT MEASURED		Rh	0.01	60
Li	8.15	2263	Pd	0.00	0
Be	0.01	3	Ag	0.51	2576
B	0.00	0	Cd	0.04	137
C	0.00	0	In	0.04	200
N	0.00	0	Sn	0.40	1644
O	NOT MEASURED		Sb	0.01	31
F		0	Te	0.66	495
Ne		0	I	0.00	0
Na	15.14	102438	Xe		0
Mg	495.60	1139533	Cs	0.20	795
Al	INDETERMINATE		Ba	54.38	195329
Si	31.56	205341	La	92.09	416946
P	163.00	112510	Ce	157.90	789359
S	0.00	0	Pr	20.14	94258
Cl	0.00	0	Nd	55.16	309511
Ar		0	Sm	6.05	41383
K	INDETERMINATE		Eu	0.28	1924
Ca	573.10	5124609	Gd	3.62	28406
Sc	0.43	3395	Tb	0.35	3063
Ti	411.90	2696417	Dy	0.91	7169
V	11.48	73827	Ho	0.12	980
Cr	3.70	24582	Er	0.18	1428
Mn	17.90	156140	Tm	0.02	173
Fe	28280.00	226590060	Yb	0.15	976
Co	54.25	377488	Lu	0.02	133
Ni	83.71	387486	Hf	0.01	91
Cu	218.50	927182	Ta	0.19	1115
Zn	8.03	18321	W	211.00	1263993

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Page 1

Ga	2.50	12437	Re	0.01	60
Ge	0.49	1976	Os	0.00	0
As	1.10	695	Ir	0.00	0
Se	1.67	1197	Pt	0.00	0
Br	0.00	0	Au	0.00	0
Kr		0	Hg	0.26	359
Rb	4.17	29456	Tl	0.04	220
Sr	2.22	15558	Pb	2.60	11769
Y	2.81	21878	Bi	0.47	1653
Zr	0.34	2604	Th	42.18	110488
Nb	1.44	9570	U	4.53	12692
Mo	12.35	71374			

TOTALQUANT: SUMMARY REPORT

Data Set: TQ
 Data Set Description: TQTEST
 Parameter File: TQ1

Sample ID: ml3
 Sample Description:
 Sample Type: Sample
 Sequence Number: 029
 Blank: Subtracted
 Dilution Factor: 1
 Number of Repeats: 1
 Time: 10:51:53 Oct 16 1990
 Units: ~~ppb~~

in ppm.

Analyte	Concentration	Intensity	Analyte	Concentration	Intensity
H	NOT MEASURED		Ru	0.00	0
He	NOT MEASURED		Rh	0.02	105
Li	8.55	2374	Pd	0.02	70
Be	0.16	38	Ag	0.43	2157
B	0.00	0	Cd	0.21	706
C	0.00	0	In	0.03	160
N	0.00	0	Sn	0.35	1425
O	NOT MEASURED		Sb	0.04	79
F		0	Te	0.70	521
Ne		0	I	0.00	0
Na	INDETERMINATE		Xe		0
Mg	814.10	1871696	Cs	0.42	1660
Al	INDETERMINATE		Ba	124.80	448330
Si	19.23	125130	La	13.83	62621
P	187.00	129038	Ce	30.09	150380
S	0.00	0	Pr	4.54	21225
Cl	0.00	0	Nd	14.85	83320
Ar		0	Sm	2.70	18487
K	INDETERMINATE		Eu	0.45	3074
Ca	2694.00	24094531	Gd	2.71	21278
Sc	0.40	3143	Tb	0.23	2058
Ti	389.40	2549431	Dy	1.17	9171
V	14.65	94229	Ho	0.17	1448
Cr	3.72	24707	Er	0.36	2855
Mn	22.65	197608	Tm	0.04	325
Fe	27190.00	217881124	Yb	0.24	1607
Co	73.04	508195	Lu	0.03	246
Ni	80.56	372899	Hf	0.01	83
Cu	224.40	951983	Ta	0.35	2075
Zn	16.64	37972	W	★ 306.20	1834479

Printed 10:53 CST Oct 16 1990

Page 1

Ga	3.44	17140	Re	0.02	107
Ge	0.45	1810	Os	0.00	0
As	4.79	3035	Ir	0.00	0
Se	3.00	2149	Pt	0.00	0
Br	0.00	0	Au	0.00	0
Kr		0	Hg	0.35	492
Rb	10.80	76286	Tl	0.08	379
Sr	29.40	206038	Pb	7.33	33219
Y	4.56	35500	Bi	0.42	1505
Zr	0.36	2827	Th	1.14	2983
Nb	1.57	10433	U	2.48	6955
Mo	15.37	88803			

TOTALQUANT: SUMMARY REPORT

Data Set: TQ
 Data Set Description: TQTEST
 Parameter File: TQ1
 Sample ID: ml3r
 Sample Description:
 Sample Type: Sample
 Sequence Number: 030
 Blank: Subtracted
 Dilution Factor: 1
 Number of Repeats: 1
 Time: 10:58:48 Oct 16 1990
 Units: ~~ppb~~

repeat 9 #3
in ppm

Analyte	Concentration	Intensity	Analyte	Concentration	Intensity
H	NOT MEASURED		Ru	0.00	15
He	NOT MEASURED		Rh	0.02	88
Li	7.56	2098	Pd	0.02	96
Be	0.12	28	Ag	0.39	1949
B	0.00	0	Cd	0.06	212
C	0.00	0	In	0.04	212
N	0.00	0	Sn	0.34	1408
O	NOT MEASURED		Sb	0.01	22
F		0	Te	0.65	488
Ne		0	I	0.00	0
Na	INDETERMINATE		Xe		0
Mg	744.00	1710594	Cs	0.42	1645
Al	INDETERMINATE		Ba	119.00	427733
Si	8.13	52860	La	13.21	59821
P	188.40	129988	Ce	27.86	139235
S	0.00	0	Pr	4.42	20693
Cl	0.00	0	Nd	14.57	81758
Ar		0	Sm	2.52	17256
K	INDETERMINATE		Eu	0.45	3017
Ca	2386.00	21339844	Gd	2.18	17124
Sc	0.33	2605	Tb	0.26	2258
Ti	357.60	2340773	Dy	1.03	8070
V	14.23	91527	Ho	0.15	1253
Cr	3.59	23848	Er	0.37	2956
Mn	21.92	191220	Tm	0.04	300
Fe	27080.00	216994149	Yb	0.25	1705
Co	67.97	472953	Lu	0.04	277
Ni	74.11	343067	Hf	0.01	101
Cu	200.80	851903	Ta	0.29	1733
Zn	15.49	35356	W	293.50	1758404

Printed 11:00 CST Oct 16 1990

Page 1

Ga	3.44	17121	Re	0.01	75
Ge	0.37	1478	Os	0.00	0
As	1.17	740	Ir	0.00	0
Se	1.98	1415	Pt	0.00	0
Br	0.00	0	Au	0.00	0
Kr		0	Hg	0.41	567
Rb	10.97	77495	Tl	0.08	390
Sr	30.14	211210	Pb	7.04	31902
Y	4.39	34123	Bi	0.44	1573
Zr	0.29	2220	Th	1.17	3060
Nb	1.48	9795	U	2.14	5996
Mo	12.89	74495			

TOTALQUANT: SUMMARY REPORT

Data Set: TQ
 Data Set Description: TQTEST
 Parameter File: TQ1
 Sample ID: ml4
 Sample Description:
 Sample Type: Sample
 Sequence Number: 031
 Blank: Subtracted
 Dilution Factor: 1
 Number of Repeats: 1
 Time: 11:04:51 Oct 16 1990
 Units: ~~ppb~~

Analyte	Concentration	Intensity	Analyte	Concentration	Intensity
H	NOT MEASURED		Ru	0.00	0
He	NOT MEASURED		Rh	0.02	133
Li	4.72	1310	Pd	0.02	100
Be	0.01	3	Ag	0.81	4086
B	0.00	0	Cd	0.03	98
C	0.00	0	In	0.04	186
N	0.00	0	Sn	0.64	2640
O	NOT MEASURED		Sb	0.03	57
F		0	Te	0.63	472
Ne		0	I	0.00	0
Na	122.90	831465	Xe		0
Mg	255.00	586306	Cs	0.24	955
Al	INDETERMINATE		Ba	102.10	366823
Si	0.00	0	La	11.51	52111
P	133.80	92310	Ce	22.48	112342
S	0.00	0	Pr	3.09	14455
Cl	0.00	0	Nd	9.26	51958
Ar		0	Sm	1.36	9319
K	INDETERMINATE		Eu	0.19	1265
Ca	715.40	6397656	Gd	0.96	7535
Sc	0.12	955	Tb	0.09	830
Ti	373.90	2447842	Dy	0.33	2613
V	5.95	38242	Ho	0.04	380
Cr	1.80	11993	Er	0.10	755
Mn	13.82	120578	Tm	0.01	88
Fe	29380.00	235405410	Yb	0.07	455
Co	193.70	1348233	Lu	0.01	44
Ni	83.42	386132	Hf	0.00	0
Cu	367.50	1559426	Ta	0.43	2540
Zn	5.85	13359	W	396.20	2373214

Printed 11:06 CST Oct 16 1990

Page 1

Ga	1.37	6850	Re	0.01	0
Ge	0.28	1127	Os	0.00	0
As	0.97	615	Ir	0.00	0
Se	3.34	2394	Pt	0.00	0
Br	0.00	0	Au	0.00	0
Kr		0	Hg	13.38	18641
Rb	5.69	40198	Tl	0.04	206
Sr	14.02	98271	Pb	4.99	22643
Y	1.23	9593	Bi	0.59	2103
Zr	0.23	1768	Th	2.49	6533
Nb	1.40	9263	U	1.11	3120
Mo	20.22	116829			



TECK EXPLORATIONS LIMITED

November 22, 1990

Mr. G.E. Thomas
10 Roseview Drive N.W.
Calgary, Alberta
T2K 1N7

Dear Mr. Thomas:

Re: Three Valley Gap Graphite

I have completed the examination of your graphite property near Three Valley Gap. My conclusions are that the grades are too low, and the extent of graphite, as indicated by the self potential survey, is too limited to be of interest to Teck.

Attached are maps of the self potential and magnetometer surveys, as well as assay results of samples collected. If you chose to apply the work towards assessment credits on the property, I can supply you with required dates and costs.

Yours truly,

A.I. Betmanis

AIB:cl
Encls:



Chemex Labs Ltd.

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

To: TECK EXPLORATIONS LIMITED

11TH FLOOR, 1199 W. HASTINGS ST.
 VANCOUVER, BC
 V6E 2K5

A9026038

Comments: ATTN: ANDY BETMANIS

CERTIFICATE

A9026038

TECK EXPLORATIONS LIMITED

Project: 21-3VG
 P.O.#:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 18-NOV-90.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	5	RUSH Geo ring to approx 150 mesh
295	5	RUSH Crush and split (0-10 lbs)
232	5	PERCHLORIC-NITRIC-HYDROFLUORIC D

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	5	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	5	Ag ppm: 24 element, rock & core	AAS	0.5	200
573	5	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	5	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	5	Be ppm: 24 element, rock & core	ICP-AES	0.5	10000
561	5	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	5	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	5	Cd ppm: 24 element, rock & core	ICP-AES	0.5	10000
563	5	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	5	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	5	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	5	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	5	K %: 24 element, rock & core	ICP-AES	0.01	20.0
570	5	Mg %: 24 element, rock & core	ICP-AES	0.01	20.0
568	5	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	5	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	5	Na %: 24 element, rock & core	ICP-AES	0.01	5.00
564	5	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	5	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	5	Pb ppm: 24 element, rock & core	ICP-AES	2	10000
582	5	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	5	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	5	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	5	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	5	Zn ppm: 24 element, rock & core	ICP-AES	2	10000
367	5	C %: Leco induction furnace	LECO-IR DETECTOR	0.01	100.0



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British Columbia, Canada V7J 2C1
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To: TECK EXPLORATIONS LIMITED

11TH FLOOR, 1199 W. HASTINGS ST.
VANCOUVER, BC
V6E 2K5

Page Number : 1-A
Total Pages : 1
Invoice Date : 18-NOV-90
Invoice No. : I-9026038
P.O. Number :

Project : 21-3VG
Comments: ATTN: ANDY BETMANIS

CERTIFICATE OF ANALYSIS

A9026038

SAMPLE DESCRIPTION	PREP CODE	Au ppb RUSH	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
2257	255 295	< 5	< 0.5	7.28	160	< 0.5	< 2	4.80	1.5	23	293	86	8.55	1.02	2.57
2258	255 295	< 5	< 0.5	2.54	190	< 0.5	< 2	0.28	< 0.5	1	419	213	1.39	1.58	0.17
2259	255 295	< 5	< 0.5	5.93	360	< 0.5	< 2	2.09	< 0.5	8	411	192	3.41	2.99	0.80
2260	255 295	15	< 0.5	2.29	90	< 0.5	8	1.02	2.0	61	365	461	10.85	0.43	0.42
2261	255 295	10	< 0.5	7.22	1170	0.5	6	1.77	< 0.5	6	255	21	1.17	3.06	0.30

CERTIFICATION:

B. Coughlin



Chemex Labs Ltd.

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

To: TECK EXPLORATIONS LIMITED

11TH FLOOR, 1199 W. HASTINGS ST.
VANCOUVER, BC
V6E 2K5

Page Number : 1-B
Total Pages : 1
Invoice Date: 18-NOV-90
Invoice No. : I-9026038
P.O. Number :

Project : 21-3VG
Comments: ATTN: ANDY BETMANIS

CERTIFICATE OF ANALYSIS

A9026038

SAMPLE DESCRIPTION	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	C %		
2257	255 295	1645	< 1	0.33	25	760	4	77	1.59	744	30	186	0.14		
2258	255 295	435	16	0.40	3	130	48	39	0.09	22	< 10	10	3.80		
2259	255 295	415	6	0.68	14	3380	90	181	0.09	52	< 10	98	1.28		
2260	255 295	115	15	0.22	121	1020	2	48	0.14	72	10	76	2.93		
2261	255 295	65	3	1.69	6	270	34	290	0.10	12	< 10	20	0.19		

CERTIFICATION:

B. Coughlin



Chemex Labs Ltd.

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

To: TECK EXPLORATIONS LIMITED

11TH FLOOR, 1199 W. HASTINGS ST.
VANCOUVER, BC
V6E 2K5

INVOICE NUMBER

I 9 0 2 6 0 3 8

BILLING INFORMATION

Date: 18-NOV-90
Project: 21-3VG
P.O. No.:
Account: EO

Comments:

Billing: For analysis performed on
Certificate I9026038

Terms: Payment due on receipt of invoice
1.5% per month (18% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
991 -	Au ppb RUSH			
367 -	C %			
G24 -	G-24 24 EL. ICP	5	34.50	172.50
Sample preparation and other charges.				
255 -	RUSH GEO - RING	5	2.60	13.00
295 -	RUSH Crush and split	5	3.35	16.75
				Total Cost \$ 202.25
				Client Discount (20%) \$ 40.45
				TOTAL PAYABLE (CDN) \$ 161.80



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 212 Brooksbank Ave., North Vancouver
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To: TECK EXPLORATIONS LIMITED

11TH FLOOR, 1199 W. HASTINGS ST.
 VANCOUVER, BC
 V6E 2K5

A9026038

Comments: ATTN: ANDY BETMANIS

CERTIFICATE

A9026038

TECK EXPLORATIONS LIMITED

Project: 21-3VG
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 18-NOV-90.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	5	RUSH Geo ring to approx 150 mesh
295	5	RUSH Crush and split (0-10 lbs)
232	5	PERCHLORIC-NITRIC-HYDROFLUORIC D

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	5	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	5	Ag ppm: 24 element, rock & core	AAS	0.5	200
573	5	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	5	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	5	Be ppm: 24 element, rock & core	ICP-AES	0.5	10000
561	5	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	5	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	5	Cd ppm: 24 element, rock & core	ICP-AES	0.5	10000
563	5	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	5	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	5	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	5	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	5	K %: 24 element, rock & core	ICP-AES	0.01	20.0
570	5	Mg %: 24 element, rock & core	ICP-AES	0.01	20.0
568	5	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	5	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	5	Na %: 24 element, rock & core	ICP-AES	0.01	5.00
564	5	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
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579	5	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	5	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	5	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	5	Zn ppm: 24 element, rock & core	ICP-AES	2	10000
367	5	C %: Leco induction furnace	LECO-IR DETECTOR	0.01	100.0



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To: TECK EXPLORATIONS LIMITED

11TH FLOOR, 1199 W. HASTINGS ST.
VANCOUVER, BC
V6E 2K5

Page Number: 1-A
Total Pages: 1
Invoice Date: 18-NOV-90
Invoice No.: I-9026038
P.O. Number:

Project: 21-3VG
Comments: ATTN: ANDY BETMANIS

CERTIFICATE OF ANALYSIS A9026038

SAMPLE DESCRIPTION	PREP CODE	Au ppb RUSH	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
2257	255 295	< 5	< 0.5	7.28	160	< 0.5	< 2	4.80	1.5	23	293	86	8.55	1.02	2.57
2258	255 295	< 5	< 0.5	2.54	190	< 0.5	< 2	0.28	< 0.5	1	419	213	1.39	1.58	0.17
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2260	255 295	15	< 0.5	2.29	90	< 0.5	8	1.02	2.0	61	365	461	10.85	0.43	0.42
2261	255 295	10	< 0.5	7.22	1170	0.5	6	1.77	< 0.5	6	255	21	1.17	3.06	0.30

CERTIFICATION:



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212 Brooksbank Ave., North Vancouver
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To: TECK EXPLORATIONS LIMITED

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VANCOUVER, BC
V6E 2K5

Page Number : 1-B
Total Pages : 1
Invoice Date: 18-NOV-90
Invoice No. : I-9026038
P.O. Number :

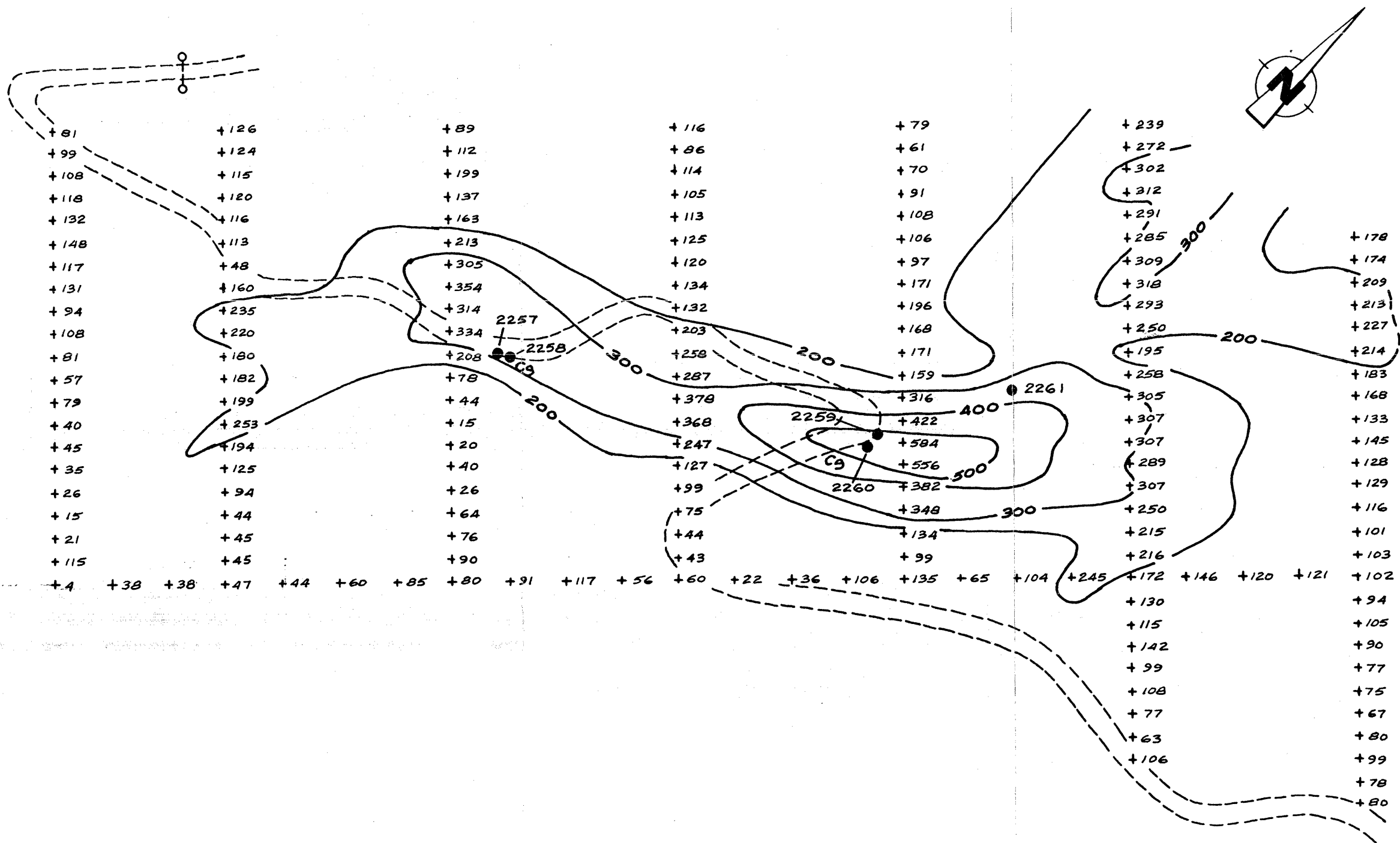
Project : 21-3VG
Comments: ATTN: ANDY BETMANIS

CERTIFICATE OF ANALYSIS A9026038

SAMPLE DESCRIPTION	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	C %		
2257	255 295	1645	< 1	0.33	25	760	4	77	1.59	744	30	186	0.14		
2258	255 295	435	16	0.40	3	130	48	39	0.09	22	< 10	10	3.80		
2259	255 295	415	6	0.68	14	3380	90	181	0.09	52	< 10	98	1.28		
2260	255 295	115	15	0.22	121	1020	2	48	0.14	72	10	76	2.93		
2261	255 295	65	3	1.69	6	270	34	290	0.10	12	< 10	20	0.19		

CERTIFICATION:

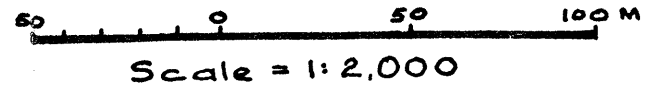
B. Coughlin



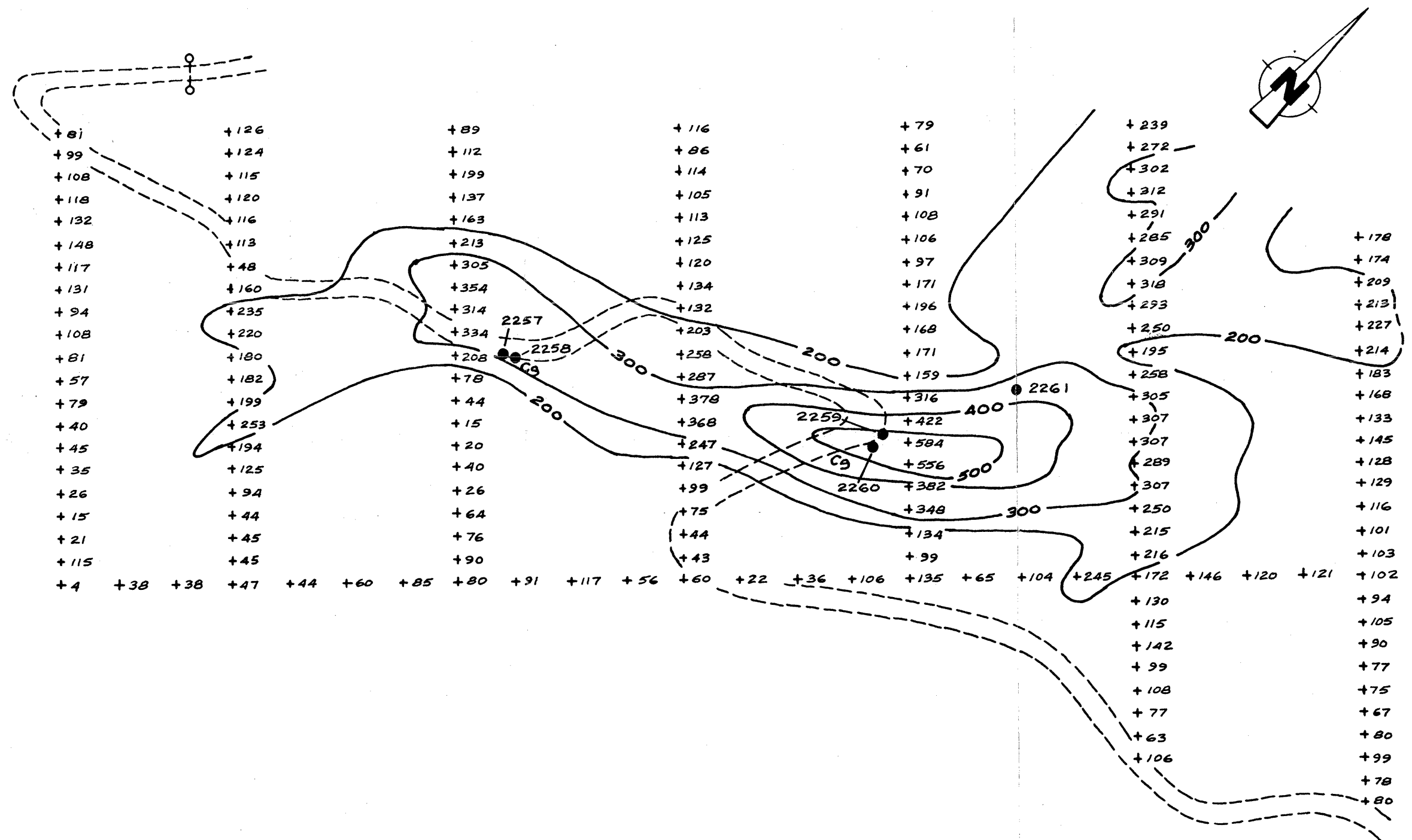
NOTE: All values are relative negative millivolts adjusted to eliminate positive values.

2258 • Rock sample location and number

TECK EXPLORATIONS LIMITED
 THREE VALLEY GAP GRAPHITE
 REVELSTOKE MINING DIVISION B.C.
**SELF POTENTIAL
 SURVEY**

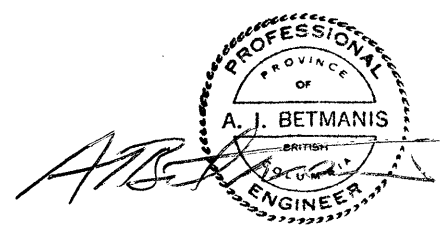


A.I. Betmanis NTS 82L/16W Oct. 1990

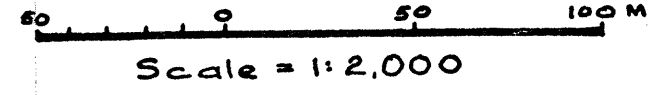


NOTE: All values are relative negative millivolts adjusted to eliminate positive values.

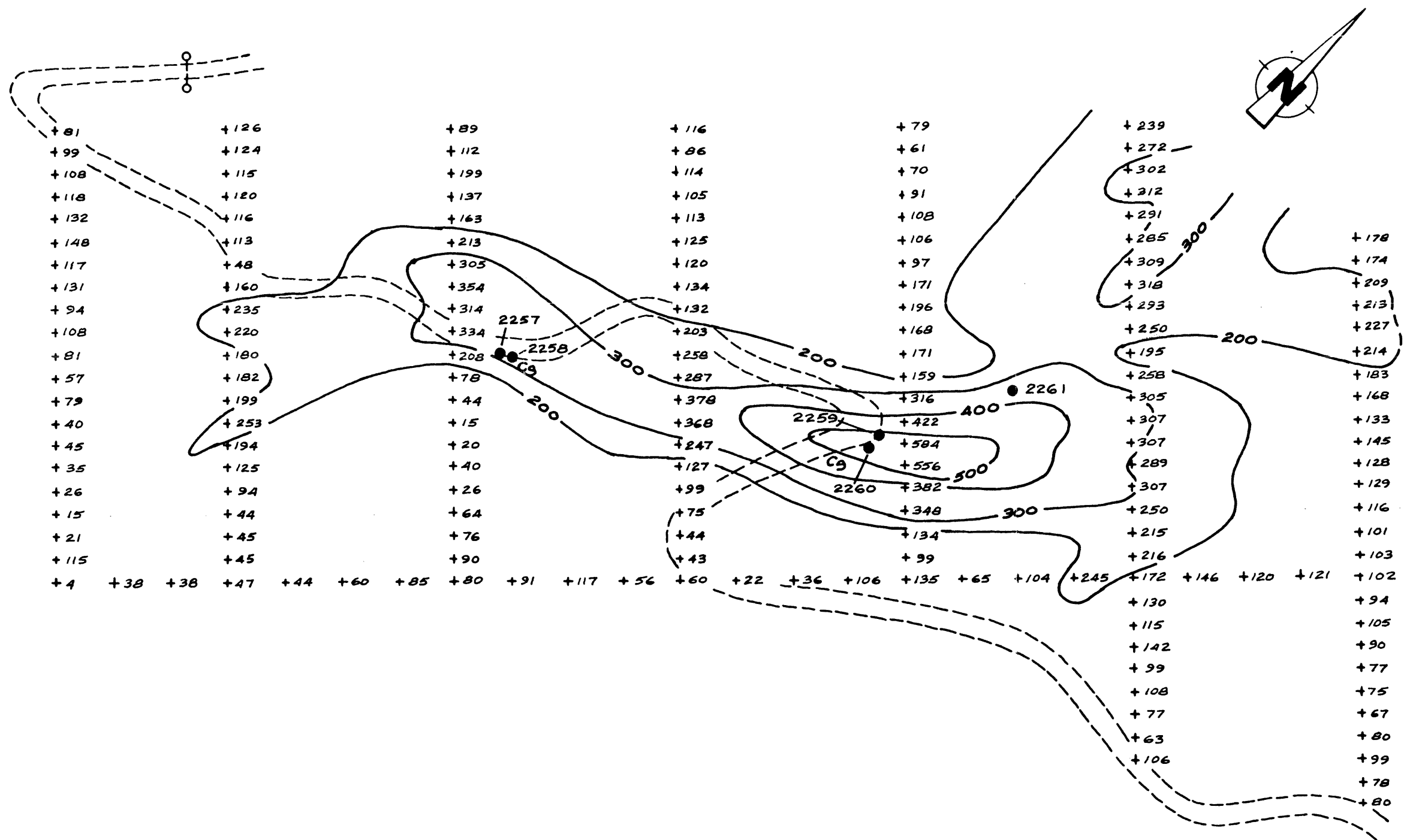
2258 ● Rock sample location and number



TECK EXPLORATIONS LIMITED
 THREE VALLEY GAP GRAPHITE
 REVELSTOKE MINING DIVISION B.C.
SELF POTENTIAL SURVEY

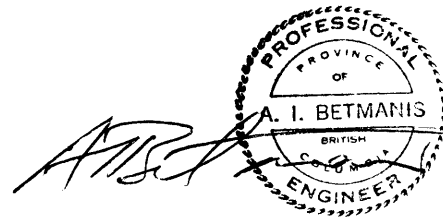


Scale = 1:2,000
 A. J. Betmanis NTS 02L/16W Oct. 1990



NOTE: All values are relative negative millivolts adjusted to eliminate positive values.

2258 ● Rock sample location and number

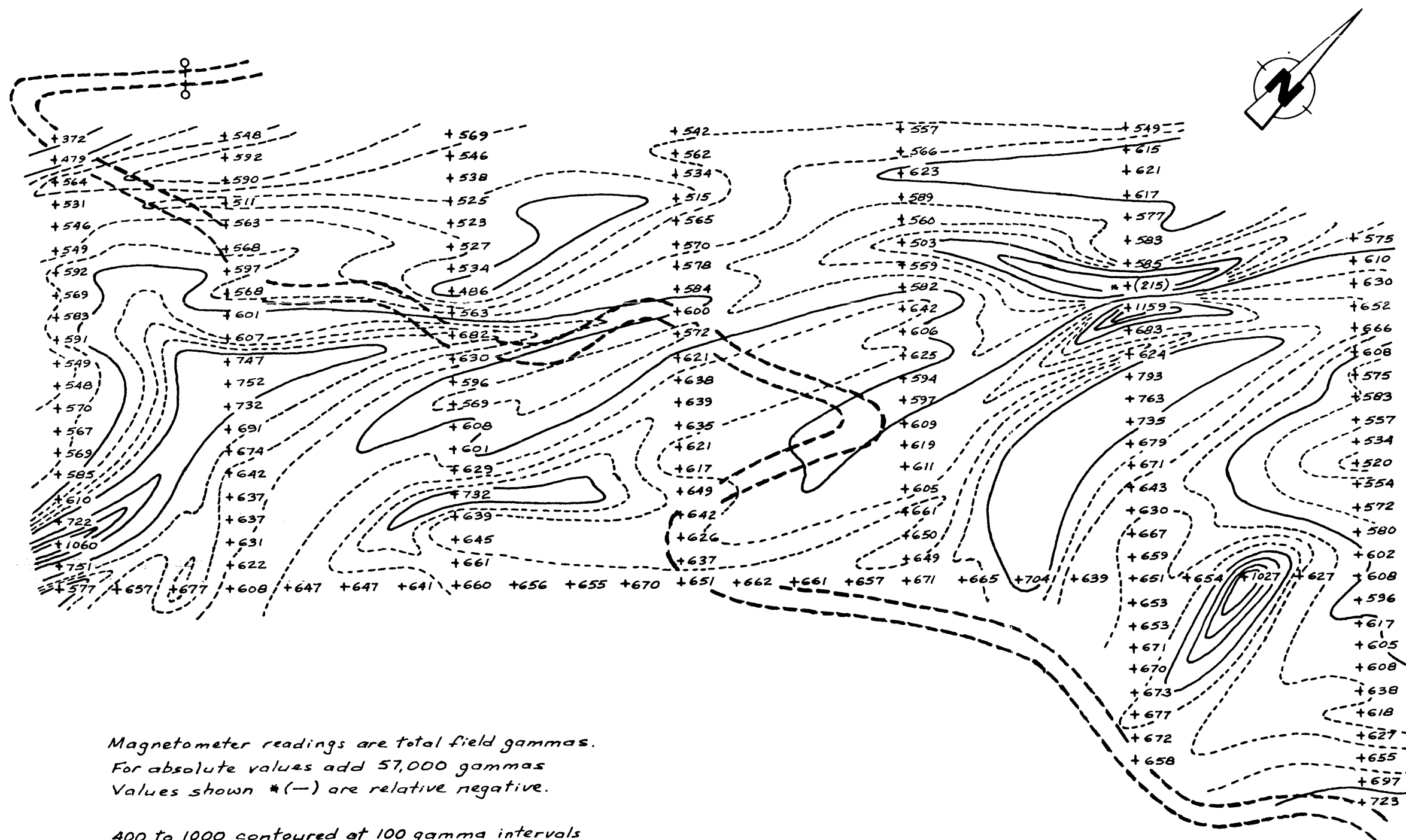


TECK EXPLORATIONS LIMITED
 THREE VALLEY GAP GRAPHITE
 REVELSTOKE MINING DIVISION B.C.
**SELF POTENTIAL
 SURVEY**



Scale = 1:2,000

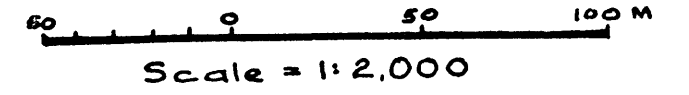
A.I. Betmanis MTS 024/16W Oct. 1990



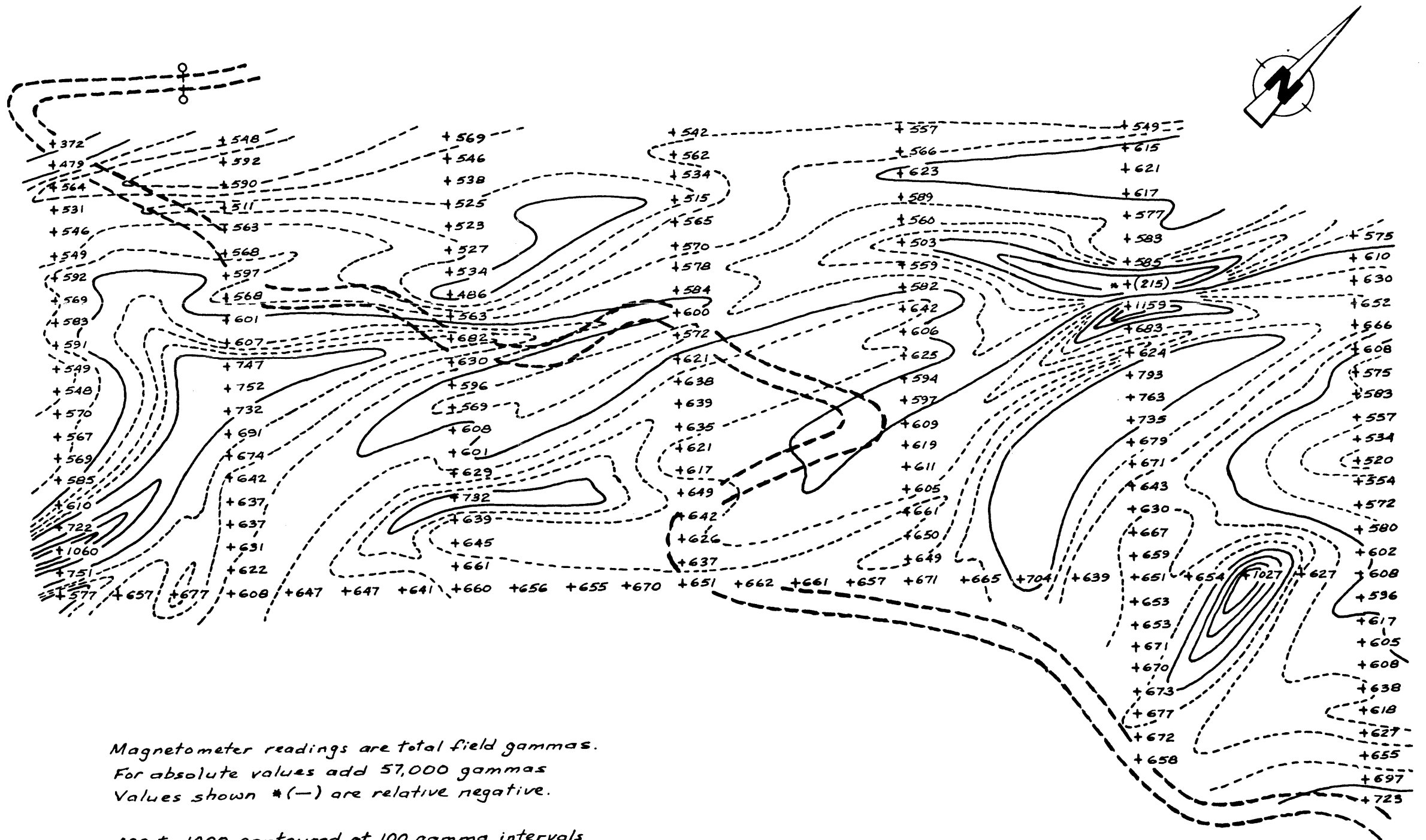
Magnetometer readings are total field gammas.
 For absolute values add 57,000 gammas
 Values shown *(-) are relative negative.

400 to 1000 contoured at 100 gamma intervals
 500 to 700 contoured at 25 gamma intervals
 >1000 & <400 & not contoured.

TECK EXPLORATIONS LIMITED
 THREE VALLEY GAP GRAPHITE
 REVELSTOKE MINING DIVISION B.C.
**MAGNETOMETER
 SURVEY**

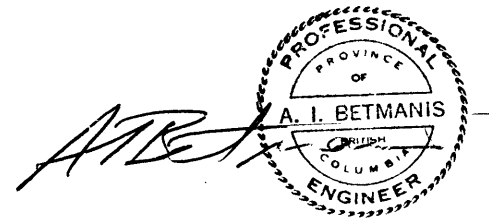


A.I. Betmanis NTS 821/16W Oct. 1990

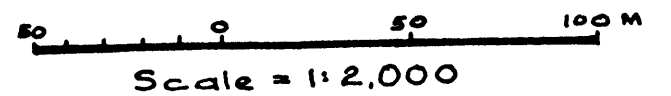


Magnetometer readings are total field gammas.
 For absolute values add 57,000 gammas
 Values shown *(-) are relative negative.

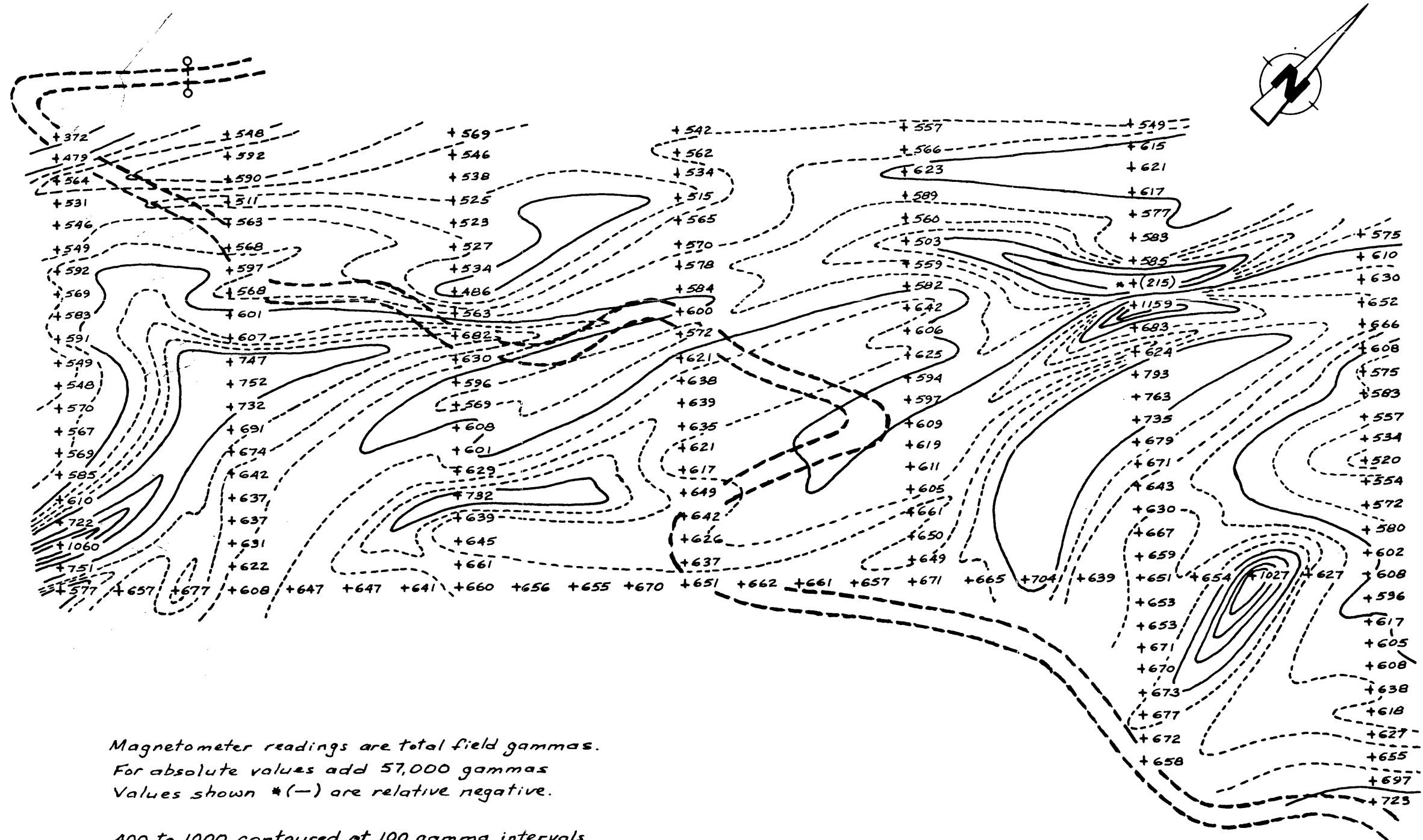
400 to 1000 contoured at 100 gamma intervals
 500 to 700 contoured at 25 gamma intervals
 >1000 & and <400 & not contoured.



TECK EXPLORATIONS LIMITED
 THREE VALLEY GAP GRAPHITE
 REVELSTOKE MINING DIVISION B.C.
**MAGNETOMETER
 SURVEY**

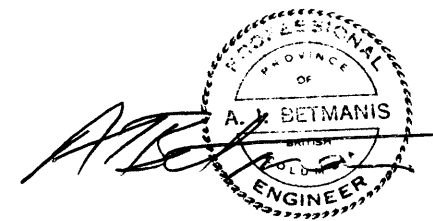


A.I. Betmanis NTS 824/16W Oct. 1990

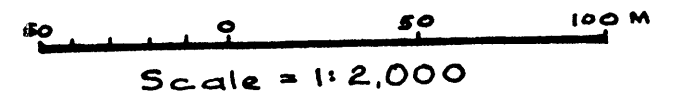


Magnetometer readings are total field gammas.
 For absolute values add 57,000 gammas
 Values shown *(-) are relative negative.

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TECK EXPLORATIONS LIMITED
 THREE VALLEY GAP GRAPHITE
 REVELSTOKE MINING DIVISION B.C.
**MAGNETOMETER
 SURVEY**



A.I. Betmanis MTS 82L/16W Oct. 1990

BARRINGER

Laboratories (Alberta) Ltd.

4200B - 10 STREET N.E., CALGARY, ALBERTA, CANADA T2E 6K3
PHONE: (403) 250-1901

BARRINGER

Laboratories (NWT) Ltd.

P.O. BOX 864, YELLOWKNIFE, NWT, CANADA X1A 2N6
PHONE: (403) 920-4500

17-JUL-90

PAGE: 1 OF 10

COPY: 1 OF 2

AUTHORITY: G. THOMAS

MR. G.E. THOMAS
10 ROSEVIEW DRIVE N.W.
CALGARY, ALBERTA

WORK ORDER: 7081D-90

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

S A M P L E N U M B E R	FIRE ASSAY	FIRE ASSAY	FIRE ASSAY	AG
	AU PPB	PT PPB	PD PPB	PPM
3G:1	5.0	<15.0	<10.0	<5.0
3G:2	11.0	<15.0	<10.0	<5.0
3G:3	156.0	<15.0	30.0	<5.0
GGG:1	4.0	<15.0	10.0	6.0
GGG:2	3.0	<15.0	<10.0	<5.0

BARRINGER

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17-JUL-90

PAGE: 2 OF 10

COPY: 1 OF 2

AUTHORITY: G. THOMAS

MR. G.E. THOMAS
10 ROSEVIEW DRIVE N.W.
CALGARY, ALBERTA

WORK ORDER: 7081D-90

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	AS PPM	BA PPM	BR PPM	CA Z
3G:1	80.0	420.0	<1.0	<1.0
3G:2	140.0	220.0	<1.0	<1.0
3G:3	18.0	500.0	<1.0	4.0
GGG:1	460.0	<100.0	<1.0	9.0
GGG:2	140.0	<100.0	<1.0	10.0

BARRINGER

Laboratories (Alberta) Ltd.

4200B - 10 STREET N.E., CALGARY, ALBERTA, CANADA T2E 6K3
PHONE: (403) 250-1901

AUTHORITY: G. THOMAS

MR. G.E. THOMAS
10 ROSEVIEW DRIVE N.W.
CALGARY, ALBERTA

BARRINGER

Laboratories (NWT) Ltd.

P.O. BOX 864, YELLOWKNIFE, NWT, CANADA X1A 2N6
PHONE: (403) 920-4500

17-JUL-90

PAGE: 3 OF 10

COPY: 1 OF 2

WORK ORDER: 7081D-90

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	CO PPM	CR PPM	CS PPM	CU PPM
3G:1	170.0	240.0	2.0	720.0
3G:2	65.0	730.0	<2.0	425.0
3G:3	280.0	81.0	<2.0	630.0
GGG:1	79.0	200.0	<2.0	23.0
GGG:2	71.0	880.0	<2.0	4.0

BARRINGER

Laboratories (Alberta) Ltd.

4200B - 10 STREET N.E., CALGARY, ALBERTA, CANADA T2E 6K3
PHONE: (403) 250-1901

AUTHORITY: G. THOMAS

MR. G.E. THOMAS
10 ROSEVIEW DRIVE N.W.
CALGARY, ALBERTA

BARRINGER

Laboratories (NWT) Ltd.

P.O. BOX 864, YELLOWKNIFE, NWT, CANADA X1A 2N6
PHONE: (403) 920-4500

17-JUL-90

PAGE: 4 OF 10

COPY: 1 OF 2

WORK ORDER: 7081D-90

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	FE %	HF PPM	HG PPM	IR PPB
3G:1	28.5	3.0	<1.0	<5.0
3G:2	7.95	2.0	<1.0	<5.0
3G:3	49.5	41.0	<1.0	<5.0
GGG:1	16.4	9.0	<1.0	<5.0
GGG:2	10.5	8.0	<1.0	<5.0

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PHONE: (403) 250-1901

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17-JUL-90

PAGE: 5 OF 10

COPY: 1 OF 2

AUTHORITY: G. THOMAS

MR. G.E. THOMAS
10 ROSEVIEW DRIVE N.W.
CALGARY, ALBERTA

WORK ORDER: 7081D-90

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	MO PPM	NA PPM	NI PPM	PB PPM
3G:1	40.0	2590.0	430.0	9.0
3G:2	21.0	840.0	240.0	15.0
3G:3	177.0	1470.0	750.0	<1.0
GGG:1	8.0	17200.0	570.0	47.0
GGG:2	5.0	3980.0	370.0	13.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	RB PPM	SB PPM	SC PPM	SE PPM
3G:1	59.0	<0.2	14.0	<5.0
3G:2	38.0	0.9	7.3	<5.0
3G:3	43.0	<0.2	2.6	<5.0
GGG:1	<30.0	2.8	56.0	<5.0
GGG:2	56.0	0.8	37.0	<5.0

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COPY: 1 OF 2

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CALGARY, ALBERTA

WORK ORDER: 7081D-90

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	SN %	SR %	TA PPM	TH PPM
3G:1	<0.02	<0.05	<1.0	15.0
3G:2	<0.02	<0.05	<1.0	42.0
3G:3	<0.03	<0.05	1.0	100.0
GGG:1	<0.05	<0.05	<1.0	0.8
GGG:2	<0.03	<0.05	2.0	3.5

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17-JUL-90

PAGE: 8 OF 10

COPY: 1 OF 2

WORK ORDER: 7081D-90

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

S A M P L E N U M B E R	U PPM	W PPM	ZN PPM	LA PPM
3G:1	94.0	<4.0	274.0	46.0
3G:2	56.0	<4.0	127.0	110.0
3G:3	15.0	<4.0	177.0	290.0
GGG:1	720.0	<4.0	279.0	84.0
GGG:2	210.0	9.0	219.0	55.0

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17-JUL-90

PAGE: 9 OF 10

COPY: 1 OF 2

WORK ORDER: 7081D-90

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	CE PPM	ND PPM	SM PPM	EU PPM
3G:1	63.0	14.0	1.0	0.8
3G:2	170.0	50.0	4.0	<0.2
3G:3	470.0	130.0	14.0	1.1
GGG:1	1.0	1.0	1.0	3.4
GGG:2	86.0	36.0	5.6	3.8

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AUTHORITY: G. THOMAS

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CALGARY, ALBERTA

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17-JUL-90

PAGE: 10 OF 10

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WORK ORDER: 7081D-90

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	TB PPM	YB PPM	LU PPM
3G:1	1.1	3.23	0.56
3G:2	<0.5	1.64	0.23
3G:3	<0.5	1.36	0.24
GGG:1	1.7	3.39	*1.0
GGG:2	1.3	2.61	0.37

SIGNED: _____

C. Douglas Read
C. Douglas Read,
LABORATORY MANAGER

FOOTNOTES:

P=QUESTIONABLE PRECISION; * = INTERFERENCE; TR=TRACE; ND=NOT DETECTED;
IS=INSUFFICIENT SAMPLE; NA=NOT ANALYZED; MS=MISSING SAMPLE

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PHONE: (403) 920-4500

30-JUL-90

PAGE: 2 OF 2

COPY: 1 OF 2

AUTHORITY: G.E. THOMAS

MR. GODFREY E. THOMAS

10 ROSEVIEW DRIVE N.W.

CALGARY, ALBERTA T2K 1N7

WORK ORDER: 7107D-90

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK CHIP

SAMPLE NUMBER	NI Z	CO Z	AU PPB	AG PPM
R. CHIP-1	0.051	0.014	2.0	1.76

SIGNED: _____

C. Douglas Read
C. Douglas Read,
LABORATORY MANAGER

FOOTNOTES:

P=QUESTIONABLE PRECISION; *=INTERFERENCE; TR=TRACE; ND=NOT DETECTED;
IS=INSUFFICIENT SAMPLE; NA=NOT ANALYZED; MS=MISSING SAMPLE

BARRINGER

Laboratories (Alberta) Ltd.

4200B - 10 STREET N.E., CALGARY, ALBERTA, CANADA T2E 6K3
PHONE: (403) 250-1901

AUTHORITY: G.E. THOMAS

MR. GODFREY E. THOMAS

10 ROSEVIEW DRIVE N.W.
CALGARY, ALBERTA T2K 1N7

BARRINGER

Laboratories (NWT) Ltd.

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PHONE: (403) 920-4500

30-JUL-90

PAGE: 1 OF 2

COPY: 1 OF 2

WORK ORDER: 7107D-90

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK CHIP

SAMPLE NUMBER	TIO2 %	U PPM	CU %	MO %
R. CHIP-1	0.09	20.0	0.088	0.011

TOTALQUANT: SUMMARY REPORT

Data Set: TQ
 Data Set Description: TQTEST
 Parameter File: TQ1
 Sample ID: ml1
 Sample Description:
 Sample Type: Sample
 Sequence Number: 027
 Blank: Subtracted
 Dilution Factor: 1
 Number of Repeats: 1
 Time: 10:40:48 Oct 16 1990
 Units: ~~ppb~~

Sample ML-1

Concentrations in ppm

Analyte	Concentration	Intensity	Analyte	Concentration	Intensity
H	NOT MEASURED		Ru	0.01	40
He	NOT MEASURED		Rh	0.03	173
Li	19.17	5322	Pd	0.10	472
Be	0.04	10	Ag	1.41	7053
B	0.00	0	Cd	0.22	737
C	0.00	0	In	0.09	446
N	0.00	0	Sn	0.76	3142
O	NOT MEASURED		Sb	0.02	39
F		0	Te	1.86	1390
Ne		0	I	0.00	0
Na	INDETERMINATE		Xe		0
Mg	4398.00	10112414	Cs	1.02	3983
Al	INDETERMINATE		Ba	0.00	0
Si	31.18	202839	La	* 271000.00	1226991573
P	240.10	165675	Ce	0.00	0
S	0.00	0	Pr	* 272.40	1274448
Cl	0.00	0	Nd	* 825.70	4632910
Ar		0	Sm	83.21	569289
K	INDETERMINATE		Eu	2.65	17932
Ca	* 1830.00	16364063	Gd	40.65	319166
Sc	1.76	13958	Tb	3.39	29915
Ti	* 1185.00	7761349	Dy	6.49	50921
V	43.62	280508	Ho	0.65	5533
Cr	18.34	121905	Er	1.21	9525
Mn	113.00	985640	Tm	0.12	925
Fe	INDETERMINATE		Yb	1.01	6800
Co	93.79	652620	Lu	0.11	839
Ni	213.40	988010	Hf	0.11	743
Cu	464.80	1971989	Ta	0.27	1595
Zn	64.93	148166	W	79.05	473542

this =
27 wt %
La ↓

C. ml

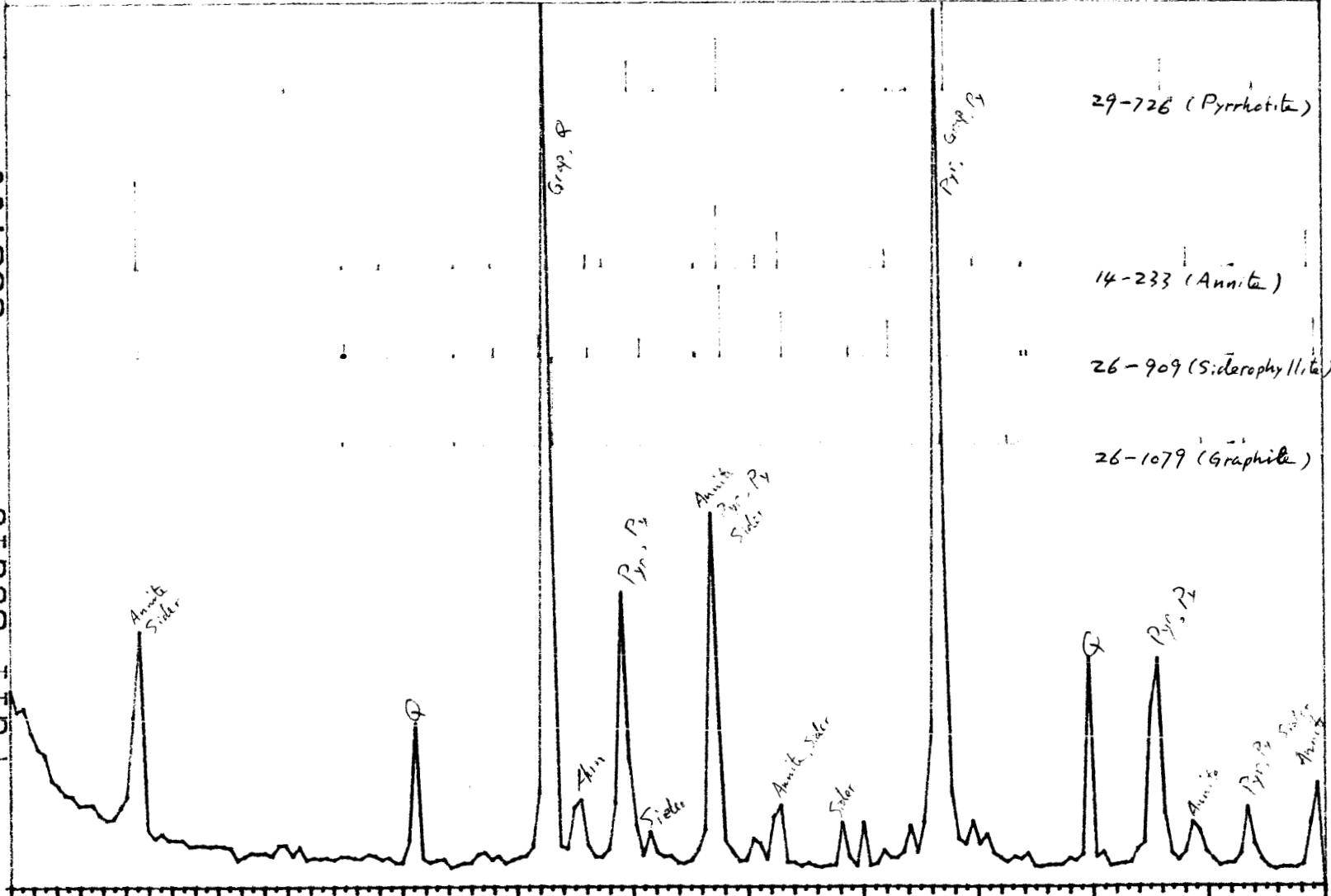
Printed 10:42 CST Oct 16 1990

Page 1

Ga	20.52	102273	Re	0.02	151
Ge	1.90	7633	Os	0.00	0
As	6.56	4158	Ir	0.00	0
Se	6.99	5005	Pt	0.00	0
Br	0.00	0	Au	0.00	0
Kr		0	Hg	0.23	321
Rb	36.95	260922	Tl	0.23	1144
Sr	31.78	222699	Pb	7.44	33729
Y	15.37	119593	Bi	0.89	3155
Zr	2.34	18116	Th	596.70	* 1563110
Nb	3.13	20738	U	10.35	29018
Mo	82.91	478944			

ML 1 : Pyrrhotite, Pyrite, Annite, Siderophyllite, Graphite, Quartz

Full Scale = 665.00



29-726 (Pyrrhotite)

14-233 (Annite)

26-909 (Siderophyllite)

26-1079 (Graphite)

422

Annite
Sider

Grp. P

Pyrr. P₂

Annite
Pyrr. - Py
Sider

Pyrr. Grp. Py

Q

Pyrr. P₂

Ann

Sider

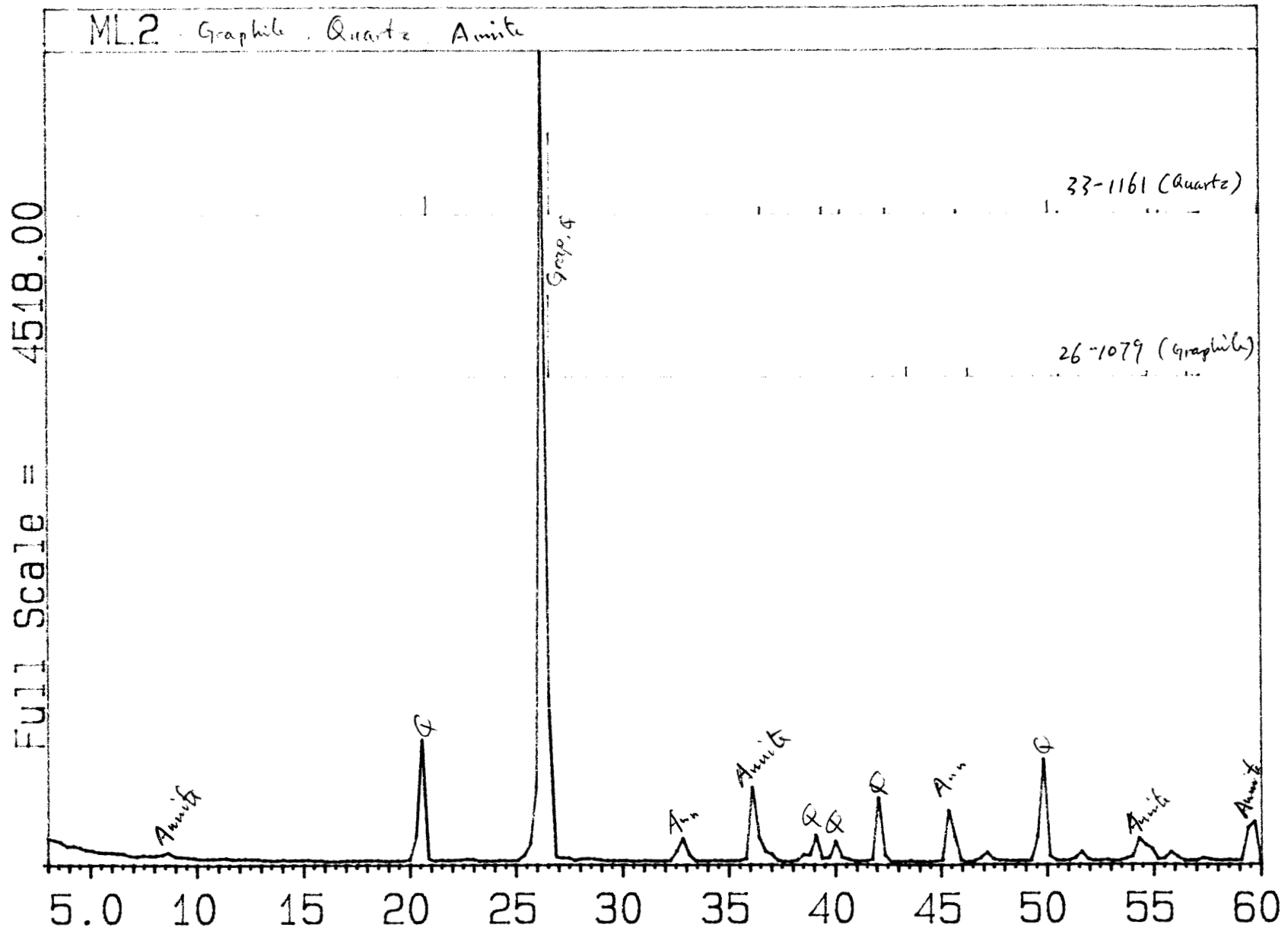
Annite, Sider

Sider

Annite

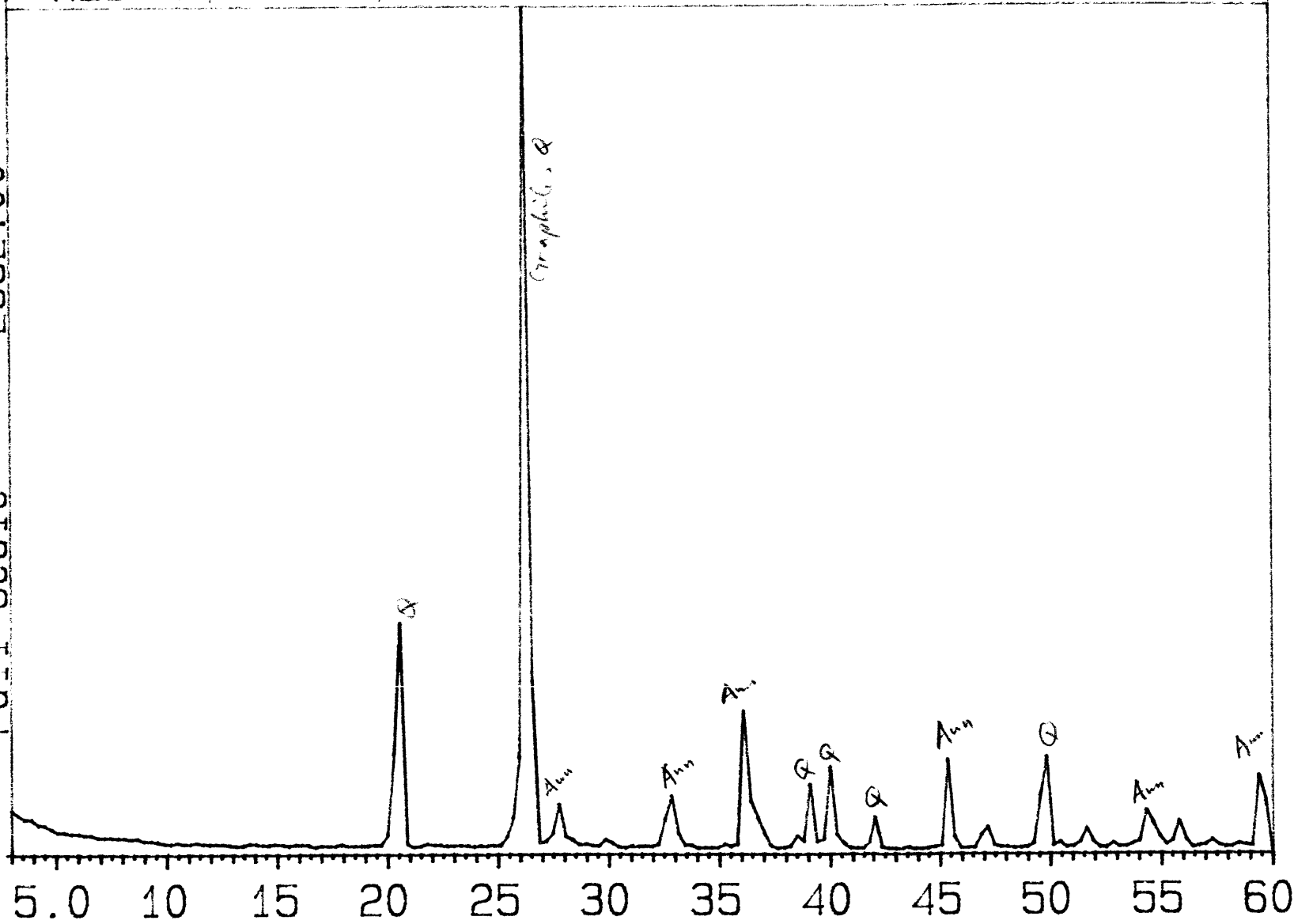
Pyrr. P₂
Sider
Annite

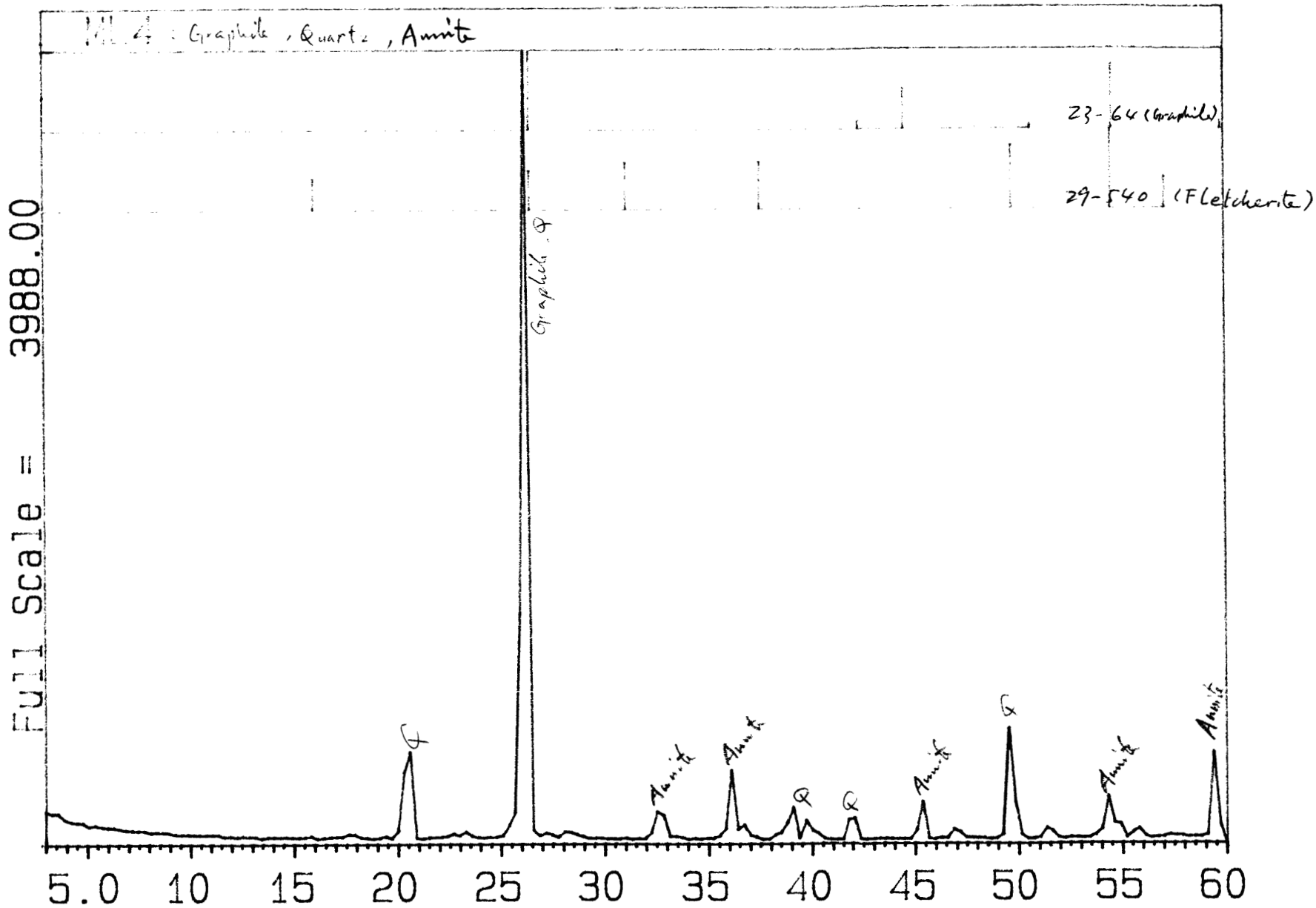
5.0 10 15 20 25 30 35 40 45 50 55 60



ML3: Graphite - Quartz, Annite

Full Scale = 2832.00





DATA FILE: C:\DATA\Z01395.RAW
COLLECTED ON 18-OCT-90 AT 13:44:00
SAMPLE IDENTIFICATION:
DATE OF PEAK SEARCH:

ML1

10-18-90 AT 14:24:21

START 2THETA: 3.000 STOP 2THETA: 60.000
STEP SIZE: 0.300 SCAN SPEED: 4.000
KV: 40, MA: 80

PEAK FINDING PARAMETERS

THRESHOLD VALUES : 5.0, 10.0
RELATIVE CUTOFF INTENSITY : 0.0
TYPICAL FULL WIDTH-HALF MAXIMUM : 0.20
MINIMUM FULL WIDTH-HALF MAXIMUM : 0.08
ALPHA 2 REMOVAL USING CODE : 1

BACKGROUND-SUBTRACTED DATA WILL BE IN FILE C:\DATA\Z01395.BSD
PEAKS DATA WILL BE IN THE NEW FILE C:\DATA\Z01395.PKS
THRESHOLD DATA WILL BE IN FILE C:\DATA\Z01395.THD

PEAK	2-THETA	D-SPACE	I(REL)	I(CPS)	FWHM
1	8.700	10.1557	27.76	183.9	1.017
2	20.700	4.2875	16.28	107.8	0.917
3	26.400	3.3733	100.00	662.4	0.916
4	27.900	3.1953	9.42	62.4	1.074
5	29.700	3.0056	33.12	219.4	0.955
6	33.600	2.6651	42.03	278.4	0.732
7	36.300	2.4728	7.15	47.4	1.127
8	43.500	2.0788	96.41	638.6	0.721

8 PEAKS WERE FOUND AND WRITTEN TO THE PEAKS FILE

Start of Search/Match: 18-OCT-90 14:27:08 Peaks File:

ML1

SEARCH2 ERROR(DEG): 0.300 3 STRONGEST LINES DATA BASE: 2 NUMBER OF OBSERVED LINES= 8
5 PHASE(S) MATCHED NPEQ= 0 NLEN= 0
FAST SEARCH DP CUT OFF IS 320.
DMAX= 29.427 DMIN= 1.541

JCPDS #	PHASE	DP	IC/IOB	PDF/MATCH	%PATTERN
29, 726	FE1-x S / PYRRHOTITE-11C	43.70	1.0	10/ 3	37
25, 411	FE1-x S / PYRRHOTITE-1C, SYN	66.79	1.0	7/ 3	37
14, 233	K FE3 AL SI3 O10 (O H)2 / ANNITE-1M, SYN	214.82	0.3	19/ 5	62
29, 725	FE1-x S / PYRRHOTITE-6C	218.40	1.0	13/ 3	37
26, 909	K2 (FE5 AL) SI5 AL3 O20 (O H)4 / SIDEROPHYLLITE-1M,	258.62	0.3	14/ 5	62

Start of Search/Match: 18-OCT-90 16:29:36 Peaks File:

MLI

SEARCH2 ERROR(DEC)= 0.300 1 STRONGEST LINES DATA BASE: 2 NUMBER OF OBSERVED LINES= 8
27 PHASE(S) MATCHED NFEQ= 0 NELEM= 0
FAST SEARCH OP CUT OFF IS 320.
DMAX= 29.427 DMIN= 1.541

JCPDS #	PHASE	DP	IC/IOB	PDF/MATCH	XPATTERN
23, 297 (FE NI)	/ TAENITE	23.08	1.0	2/ 1	12
29, 726 FE1-x S	/ PYRRHOTITE-11C	43.70	1.0	10/ 3	37
25, 411 FE1-x S	/ PYRRHOTITE-1C, SYN	66.79	1.0	7/ 3	37
19, 544 K (ZN MN FE)3 (SI AL)4 O10 (O/ HENDRICKSIT		94.12	0.3	12/ 5	62
2, 1231 CU ZN	/ ZHANGHENGITE, SYN	102.86	1.0	3/ 1	12
11, 166 CU5 AS4 O15 . 9 H2 O	/ LINDACKERITE	105.04	0.3	11/ 3	37
4, 831 ZN	/ ZINC, SYN	144.92	1.0	4/ 2	25
8, 117 TI O	/ HONGQUITE, SYN	150.07	1.0	2/ 1	12
5, 667 CU2 O	/ CUPRITE, SYN	172.02	0.1	4/ 2	25
29, 724 FE1-x S	/ PYRRHOTITE-5C	184.98	1.0	19/ 4	50
14, 233 K FE3 AL SI3 O10 (O H)2	/ ANNITE-1M, SYN	214.82	0.3	19/ 5	62
29, 725 FE1-x S	/ PYRRHOTITE-6C	218.40	1.0	13/ 3	37
4, 835 NI O	/ BUNSENITE, SYN	230.89	1.0	2/ 1	12
4, 836 CU	/ COPPER, SYN	230.89	1.0	2/ 1	12
17, 548 FE SI O3	/ CLINOFERROSILITE,	248.06	0.3	12/ 4	50
10, 423 AL P O4	/ BERLINITE, SYN	253.14	1.0	17/ 3	37
22, 362 (SN FE) (SN TR NB)2 O6	/ STARINGITE	253.36	1.0	12/ 4	50
26, 909 K2 (FE5 AL) SI5 AL3 O20 (O H)4/ SIGEROPHYLLITE-1M,		258.62	0.3	14/ 5	62
10, 360 (CR NA) (SI AL)4 O8	/ ANORTHITE, SODIAN,	261.84	0.1	19/ 6	76
11, 65 CR N	/ CARLSBERGITE, SYN	265.52	1.0	2/ 1	12
6, 261 HG S	/ METACINNABAR, SYN	276.03	1.0	5/ 2	25
29, 184 BR MN2 FE2 (P O4)3 (O H)3	/ PERLOFFITE	282.86	0.1	23/ 5	62
26, 1079 C	/ GRAPHITE-3R, SYN	296.43	1.0	5/ 2	25
14, 64 NA BE SI3 O7 O H	/ EPIDIDYMITE	303.73	1.0	26/ 6	76
9, 456 (NA CR) (SI AL)4 O8	/ ALBITE, CALCIAN, H	304.73	0.1	19/ 6	76
26, 911 (K H3 O) AL2 SI3 AL O10 (O H)2/ ILLITE-2M1		305.19	1.0	17/ 5	62
9, 457 (NA CR) (SI AL)4 O8	/ ALBITE, CALCIAN, L	305.66	0.1	20/ 6	76

Scanning Condition(s)

S#	M1	M2	M3	Start	Stop	Speed	Step	F.Time	Fscale	Output
1	1	1	1	3.000	60.000	4.000	0.300	1.00	400	0

NOTES:

Mode 1: 1 - continuous, 2 - Step

Mode 2: 1 - Standard, 2 - Integral, 3 - Skip

Mode 3: (mode 2 = 1) # of Iterations, (mode 2 = 3) Threshold

Start of Search/Match: 18-OCT-90 16:26:11 Peaks File:

ML1

SEARCH2 ERROR(DEG): 0.300 (1 STRONGEST LINES) DATA BASE: 2 NUMBER OF OBSERVED LINES= 8
0 PHASE(S) MATCHED NREQ= 1 NELEM= 1 LA
SLOW SEARCH OP CUT OFF IS 320.
DMAX= 29.427 DMIN= 1.541

JCPDS #	PHASE	OP	IC/IOB	PDF/MATCH	%PATTERN
---------	-------	----	--------	-----------	----------

NO MATCHES FOUND

DATA FILE: C:\DATA\Z01396.RAW
 COLLECTED ON 18-OCT-90 AT 15:10:20
 SAMPLE IDENTIFICATION:
 DATE OF PEAK SEARCH:

MLZ

10-18-90 AT 15:40: 1

START 2THETA: 3.000
 STEP SIZE: 0.300
 KV: 40, MA: 80

STOP 2THETA: 60.000
 SCAN SPEED: 4.000

PEAK FINDING PARAMETERS

THRESHOLD VALUES : 5.0, 10.0
 RELATIVE CUTOFF INTENSITY : 0.0
 TYPICAL FULL WIDTH-HALF MAXIMUM : 0.20
 MINIMUM FULL WIDTH-HALF MAXIMUM : 0.08
 ALPHA 2 REMOVAL USING CODE : 1

BACKGROUND-SUBTRACTED DATA WILL BE IN FILE C:\DATA\Z01396.BSD
 PEAKS DATA WILL BE IN THE NEW FILE C:\DATA\Z01396.PKS
 THRESHOLD DATA WILL BE IN FILE C:\DATA\Z01396.THD

PEAK	2-THETA	D-SPACE	I(REL)	I(CPS)	FWHM
1	20.700	4.2875	15.08	680.9	0.902
2	26.400	3.3733	100.00	4516.3	0.903
3	28.200	3.1620	0.72	32.3	4.037
4	33.000	2.7122	3.22	145.3	0.969
5	36.300	2.4728	9.48	428.3	0.948
6	39.000	2.3076	1.07	48.2	1.711
7	40.200	2.2415	2.60	117.3	0.772
8	45.600	1.9878	6.39	288.5	0.636
9	47.400	1.9164	1.22	55.1	0.942
10	50.100	1.8193	12.73	574.9	0.907
11	54.600	1.6795	2.93	132.3	1.268
12	59.700	1.5476	4.19	189.3	0.751

12 PEAKS WERE FOUND AND WRITTEN TO THE PEAKS FILE

Start of Search/Match: 18-OCT-90 15:41:53 Peaks File:

ML2

SEARCH2 ERROR(DEG): 0.300 3 STRONGEST LINES DATA BASE: 2 NUMBER OF OBSERVED LINES= 12
7 PHASE(S) MATCHED NREQ= 0 NELEM= 0
FAST SEARCH OP CUT OFF IS 320.
OMAX= 29.427 OMIN= 1.541

JCPDS #	PHASE	OP	IC/IOB	POF/MATCH	%PATTERN
5, 642 IN	/ INDIUM, SYN	19.15	0.0	5/ 4	33
33,1161 SI 02	/ QUARTZ, LOW, SYN	22.84	1.0	13/ 8	66
15, 4 03 07	/ URANINITE, SYN	47.69	0.0	8/ 5	41
11, 671 NA B F4	/ FERRUCCITE, SYN	113.32	1.0	19/ 8	66

1 Scanning Condition(s)

S#	M1	M2	M3	Start	Stop	Speed	Step	F.Time	Fscale	Output
1	1	1	1	3.000	60.000	4.000	0.300	1.00	400	0

NOTES:

Mode 1: 1 - continuous, 2 - Step

Mode 2: 1 - Standard, 2 - Integral, 3 - Skip

Mode 3: (mode 2 = 1) # of Iterations, (mode 2 = 3) Threshold

DATA FILE: C:\DATA\Z01397.RAW
 COLLECTED ON 18-OCT-90 AT 15:56:38
 SAMPLE IDENTIFICATION:
 DATE OF PEAK SEARCH:

ML3

10-18-90 AT 16:20:18

START 2THETA: 3.000
 STEP SIZE: 0.300
 KV: 40, MA: 80

STOP 2THETA: 60.000
 SCAN SPEED: 4.000

PEAK FINDING PARAMETERS

THRESHOLD VALUES : 5.0, 10.0
 RELATIVE CUTOFF INTENSITY : 0.0
 TYPICAL FULL WIDTH-HALF MAXIMUM : 0.20
 MINIMUM FULL WIDTH-HALF MAXIMUM : 0.08
 ALPHA 2 REMOVAL USING CODE : 1

BACKGROUND-SUBTRACTED DATA WILL BE IN FILE C:\DATA\Z01397.BSD
 PEAKS DATA WILL BE IN THE NEW FILE C:\DATA\Z01397.PKS
 THRESHOLD DATA WILL BE IN FILE C:\DATA\Z01397.THD

PEAK	2-THETA	D-SPACE	I(REL)	I(CPS)	FWHM
1	4.200	21.0213	2.02	57.0	2.999
2	20.700	4.2875	27.35	773.4	0.932
3	26.400	3.3733	100.00	2827.9	0.909
4	27.900	3.1953	5.80	164.1	0.703
5	36.300	2.4728	16.84	476.2	0.663
6	39.000	2.3076	1.02	28.7	1.415
7	40.200	2.2415	9.78	276.5	0.958
8	45.600	1.9878	10.59	299.4	0.615
9	47.400	1.9164	2.64	74.5	0.947
10	50.100	1.8193	11.02	311.7	0.924
11	54.600	1.6795	4.66	131.8	0.713
12	56.100	1.6381	3.39	95.8	0.949
13	59.700	1.5476	8.66	244.8	0.644

13 PEAKS WERE FOUND AND WRITTEN TO THE PEAKS FILE

Start of Search/Match: 18-OCT-90 16:20:58 Peaks File:

ML3

SEARCH2 ERROR(DEG): 0.300 3 STRONGEST LINES DATA BASE: 2 NUMBER OF OBSERVED LINES= 13
5 PHASE(S) MATCHED NREQ= 0 NCELL= 0
FAST SEARCH OP CUT OFF IS 320.
DMAX= 29.427 DMIN= 1.541

JCPDS #	PHASE	OP	IC/IOB	PDF/MATCH	XPATTERN
33,1161 SI O2	/ QUARTZ, LOW, SYN	23.23	1.0	13/ 0	62
21, 574 MO3 O8 .x H2 O	/ ILSEMANNITE	167.44	1.0	13/ 5	38

Start of Search/Match: 18-OCT-90 16:22:44 Peaks File:

ML3

SEARCH2 ERROR(DEG): 0.330 1 STRONGEST LINES DATA BASE: 2 NUMBER OF OBSERVED LINES= 13

33 PHASE(S) MATCHED NREQ= 0 NELEM= 0

FAST SEARCH OP CUT OFF IS 320.

DMAX= 29.427 DMIN= 1.541

JCPDS #	PHASE	OF	IC/100	PDF/MATCH	XPATTERN
33,1161	SI O2	/ QUARTZ LOW, SYN	23.23	1.0	13/ 8 62
10, 423	AL P O4	/ BERLINITE, SYN	29.00	1.0	17/ 10 76
29, 967	< PO PT >3 SN	/ ATOKITE	35.85	0.0	2/ 2 15
29, 968	< PT PO >3 SN	/ RUSTENBURGITE	35.85	0.0	2/ 2 15
34, 171	CU SE	/ KLOCKMANNITE, SYN	50.92	0.1	18/ 9 71
27, 504	RH .57 PT .43	/ RHODIUM, PLATINIAN	55.28	0.2	2/ 2 15
36,1455	NA F	/ VILLIAMITE	61.36	0.0	3/ 2 15
23, 64	C	/ GRAPHITE-ZN	61.38	1.0	6/ 3 23
18, 877	< FE NI >	/ TETRATENITE	82.16	1.0	16/ 6 45
27, 94	< ZN CR > AL2 P2 H6 O12 . 3 H2 O	/ KEOHEITE	146.92	1.0	20/ 8 62
9, 429	CU6 AS	/ ALGODONITE	154.88	0.1	4/ 2 15
10, 454	CO S	/ HAWLEYITE	163.89	1.0	5/ 2 15
35, 675	CU3 AS SE3	/ MGRITE	166.03	0.1	3/ 2 15
21, 574	MO3 O8 .x H2 O	/ ILSEMANNITE	167.44	1.0	13/ 5 38
20, 226	CR3 MN < S O4 >2 < O H >6 . 3 H2 O	/ DESPUJOLSITE	179.90	1.0	25/ 9 71
29,1041	K NA CU SI4 O10	/ LITIDIONITE	194.03	1.0	19/ 7 52
25, 301	< CU PO >3 AU2	/ AURICUPRIDE	204.96	0.1	13/ 4 31
24, 734	MN3 O4	/ HAUSMANNITE, SYN	210.10	0.2	14/ 5 38
5, 681	PD	/ PALLADIUM, SYN	211.70	0.1	2/ 1 7
9, 206	U O2 .25	/ URANINITE, SYN	214.64	0.0	5/ 2 15
24, 217	CR3 AL2 < O H >12	/ KATOITE	234.62	0.0	21/ 7 52
21,1250	SN O2	/ CASSITERITE, SYN	252.60	1.0	8/ 3 23
35, 626	< MN FE > < TA NB >2 O6	/ MANGANDIAPOLITE	257.75	1.0	15/ 5 38
29,1435	U < NB TA >2 O8	/ LIANDRATITE, HEATE	265.78	0.1	8/ 3 23
34,1359	PO9 TE4	/ TELLUROPALLADINITE	265.88	0.1	26/ 8 62
15, 705	AL4 TA3 O13 O H	/ SIMPSONITE	268.05	0.0	15/ 4 31
35, 656	IR S8 S	/ TOLOUKITE	279.14	0.1	11/ 4 31
35,1500	< N H4 >3 H < S O4 >2	/ LETOUICITE, SYN	279.56	1.0	55/ 16 100
26,1113	CU CR O2	/ MCCONNELLITE, SYN	286.53	0.2	7/ 3 23
35, 650	CA BE AS O4 O H	/ BERGLAGITE	291.12	0.1	51/ 14 100
29, 570	< CU HG >5 .5 SN2 S8	/ KURAMITE	309.23	0.1	18/ 5 38
30, 494	< CU HG >5 .5 SN2 S8	/ KURAMITE	315.46	0.1	19/ 5 38
29, 717	< PT FE >	/ PLATINUM, FERROAN,	317.55	0.1	2/ 1 7

DATA FILE: C:\DATA\Z01398.RAW
 COLLECTED ON 18-OCT-90 AT 16:36:33
 SAMPLE IDENTIFICATION:
 DATE OF PEAK SEARCH:

ML4

10-18-90 AT 16:55:26

START 2THETA: 3.000 STOP 2THETA: 60.000
 STEP SIZE: 0.300 SCAN SPEED: 4.000
 KV: 40, MA: 80

PEAK FINDING PARAMETERS

THRESHOLD VALUES : 5.0, 10.0
 RELATIVE CUTOFF INTENSITY : 0.0
 TYPICAL FULL WIDTH-HALF MAXIMUM : 0.20
 MINIMUM FULL WIDTH-HALF MAXIMUM : 0.08
 ALPHA 2 REMOVAL USING CODE : 1

BACKGROUND-SUBTRACTED DATA WILL BE IN FILE C:\DATA\Z01398.BSD
 PEAKS DATA WILL BE IN THE NEW FILE C:\DATA\Z01398.PKS
 THRESHOLD DATA WILL BE IN FILE C:\DATA\Z01398.THD

PEAK	2-THETA	D-SPACE	I(REL)	I(CPS)	FWHM
1	20.400	4.3499	9.13	363.6	0.779
2	26.400	3.3733	100.00	3981.5	0.913
3	36.300	2.4728	9.14	364.0	0.678
4	39.000	2.3076	2.42	96.3	1.745
5	49.800	1.8295	14.49	577.0	0.631
6	54.600	1.6795	5.75	228.9	0.730
7	59.700	1.5476	11.34	451.3	0.630

7 PEAKS WERE FOUND AND WRITTEN TO THE PEAKS FILE

Start of Search/Match: 18-OCT-90 16:57:09 Peaks File:

ML4

SEARCH2 ERROR(DEG): 0.300 2 STRONGEST LINES DATA BASE: 2 NUMBER OF OBSERVED LINES= 7
2 PHASE(S) MATCHED FREQ= 0 NELEM= 0
FAST SEARCH OP CUT OFF IS 320.
DMAX= 29.427 DMIN= 1.541

JCPDS #	PHASE	OP	IC/I00	PDF/MATCH	%PATTERN
23, 64 C	/ GRAPHITE-2H	44.00	1.0	6/ 3	43
29, 540 CU < NI CO >2 S4	/ FLETCHERITE	81.23	0.1	7/ 3	43