

ARIS SUMMARY SHEET

District Geologist, Prince George

Off Confidential: 90.05.25

ASSESSMENT REPORT 18837

MINING DIVISION: Cariboo

PROPERTY: Redgold

LOCATION: LAT 52 27 00 LONG 121 27 00  
UTM 10 5812002 605338  
NTS 093A06W

CAMP: 036 Cariboo - Quesnel Belt

CLAIM(S): Shik 1-2

OPERATOR(S): Durfeld, R.M. Morton, J.W. Gibraltar Mines

AUTHOR(S): Morton, J.W.

REPORT YEAR: 1989, 22 Pages

COMMODITIES

SEARCHED FOR: Gold, Copper

KEYWORDS: Mesozoic, Basalts, Diorites, Propylitic alteration, Pyrite  
Chalcopyrite

WORK

DONE: Geochemical

SOIL 171 sample(s) ; CU, PB, ZN, AG

Map(s) - 3; Scale(s) - 1:1000, 1:2000

RELATED

REPORTS: 11297, 11623, 12584, 13355, 13804, 14870, 16093, 17047, 17645

MINUTE: 093A 058, 093A 152

LOG NO: 0615	RD.
ACTION:	
FILE NO:	

GEOCHEMICAL SOIL SURVEY

Specific Claims Involved:

Shik #1	Record #4331
Shik #2	Record #4332
RG #2	Record #9326
RG #3	Record #9327

**FILMED**

Mining Division: Cariboo

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

Specific NTS Location: 93A/6W

Latitude: 52 27'N

Longitude: 121 27'W

**18,837**

Owner of Claims: J. W. Morton and R. M. Durfeld

Operator: J. W. Morton and R. M. Durfeld

Author: J. W. Morton

Date: June, 1989

**SUB-RECORDER**  
RECEIVED  
JUN - 8 1989  
M.R. # ..... \$ .....  
VANCOUVER, B.C.

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LOCATION MAP

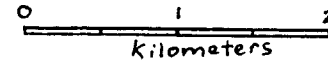
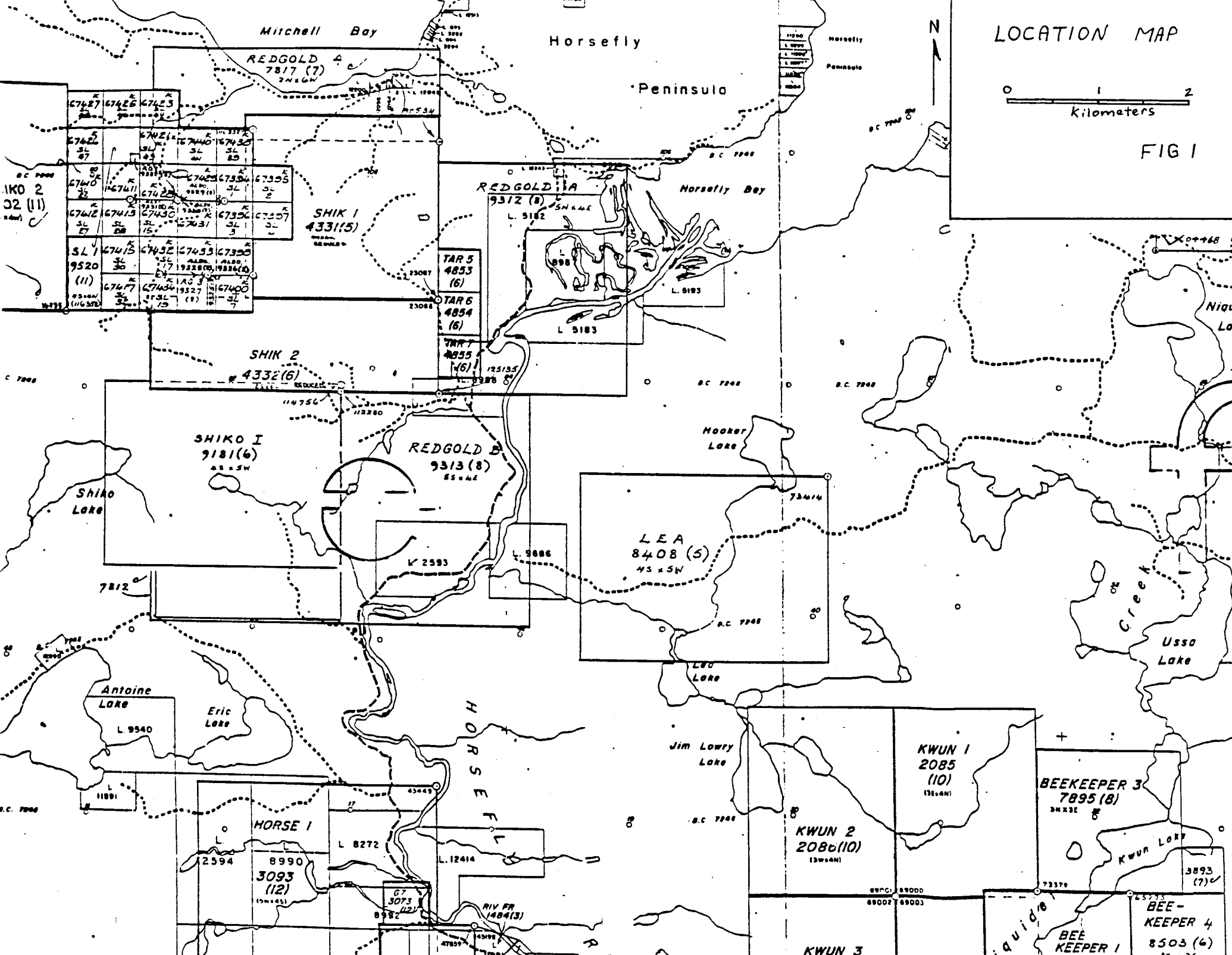


FIG 1



Mitchell Bay

Horsefly

Horsefly Peninsula

Horsefly Bay

REDGOLD 4  
7817 (7)

REDGOLD 1A  
9312 (8)

TAR 5  
4853 (6)

TAR 6  
4854 (6)

TAR 7  
4855 (6)

SHIKO 2  
4332 (6)

SHIKO I  
9181 (6)

REDGOLD B  
9313 (8)

LEA  
8408 (5)

Antoine Lake  
L 9540

Eric Lake

Jim Lowry Lake

KWUN 1  
2085 (10)

KWUN 2  
208c (10)

BEEKEEPER 3  
7895 (8)

HORSE 1

3093 (12)

67  
3073 (12)

RIV FR  
1484 (3)

KWUN 3

KWUN 4

BEEKEEPER 1  
2055 (10)

BEEKEEPER 4  
8503 (6)

liquid 16

.55 x 24

## 1. INTRODUCTION

### 1.1 Location, Access and Physiography

The Redgold property is located approximately sixty kilometers northeast of the town of Williams Lake, at longitude 121 27' west and latitude 52 27' north. The property lies within the Cariboo Mining Division in the northwestern corner of N.T.S. map sheet 93A/6W. The northern border of the property cuts Mitchell Bay, in Quesnel Lake; the eastern boundary follows the Horsefly River.

Access to the property is gained by one hundred kilometers of paved and all-weather gravel road leading from Williams Lake to the village of Horsefly and, subsequently, along the Mitchell Bay Forest Access Road. Clear-cut logging over large portions of the property has allowed excellent summer access to most of the property via spur roads.

The terrain underlying the property is characterized by low rolling hills with elevations ranging from 730 to 1,000 meters. Areas of thick conifer growth are separated by large tracts of clear-cut logged areas which have been burned and are generally clear of impeding debris or second growth.

### 1.2 Property Definition

The most significant single geological structure in the Horsefly area is called the Quesnel Trough. The Quesnel Trough is a Mesozoic Belt which is bounded to the east and west by Paleozoic age rocks. Deposition within the trough has been predominantly by Triassic-Jurassic volcanics and their minor intercalated volcanoclastic sediments. The volcanic pile, in large, is derived from phreatic eruption and submarine laharc activity. Phreatic centers are identified by the presence of co-magmatic felsic intrusives (often with a subvolcanic habit). Within the Quesnel Trough volcanics and co-magmatic intrusives are typically alkalic in composition.

At the Redgold property basalts (augite-feldspar-porphyry) have been intruded by a diorite stock and syenitic subvolcanic breccia. Pervasive propylitic alteration has occurred in the basalts with variable amounts of pyrite and chalcopyrite being deposited. Native gold has been identified within chalcopyrite in fractures in pyrite. Chalcopyrite is not fractured suggesting that it was remobilized during deformation. Grab samples exceeding 8.5 grams per tonne gold have been obtained from propylitically altered volcanic material.

### 1.3 Summary of Work Completed

171 soil samples collected and analyzed (25 meter line spacing totalling 4.25 line kilometers). (146 samples analyzed by atomic adsorption techniques for Cu, Pb, Zn, Ag - Gibraltar Mines Limited; 25 samples analyzed for multi-elements using I.C.P. techniques - Van Geochem Lab Limited; 171 samples analyzed for gold using atomic absorption techniques - Van Geochem Lab Limited).

Soil samples were collected from the Shik 1 and Shik 2 claims.

### 1.4 Methods

Lines 0 through 5 north were sampled by Gibraltar Mines staff while line 7 north was sampled by J. W. Morton. Samples were dug from a depth of 30 to 60 centimeters and were placed in kraft brown paper bags before being shipped to the assay lab of Gibraltar Mines Limited or to Van Geochem Lab Limited in Vancouver. Soils in the grid area are derived from clay rich basal tills which deepen towards the north and east.

## 2. INTERPRETATION, CONCLUSIONS AND RECOMMENDATIONS

Large areas of the grid contain greater than 20 ppb soil gold. the 20 ppb soil gold contour outlines a weakly defined trend of approximately 340°. Soil copper is less easily contoured but does commonly spike up to several hundred ppm. A program of backhoe trenching using this soil survey in combinations with the 1986 vintage induced polarization survey is recommended.

## 3. COSTS


E. Oliver - Sept. 19, 1988 - 1 day @ \$220.20/day	\$ 220.20
G. Barker - Sept. 20, 1988 - 2 days @ \$231.20/day	462.40
G. Bysouth - Sept. 19 & 20, 1988 - 2 days @ \$325.50/day	651.00
J.W. Morton - May 7 & 8, 1989 - 2 days @ \$325/day	650.00
Vehicle costs - 4 days @ \$144/day	144.00
Fuel	80.00
Supplies (Soil bags, ribbon etc.)	25.00

Assay costs - 146 assayed for Cu, Pb, Zn, Ag, Au Gibraltar Mines & Van Geochem Lab @ \$13.50/sample	1,971.00
- 25 samples 30 element I.C.P. plus gold by Van Geochem Labs @ \$12/sample	300.00
Report writing, typing and drafting	<u>500.00</u>
<b>TOTAL</b>	<b>\$ 5,003.60</b>

4. STATEMENT OF QUALIFICATIONS

I, James William Morton, of 2750 Alma Street, Vancouver, British Columbia, do hereby certify:

1. I graduated from Carleton University, Ottawa, in 1971 with a Bachelor of Science in Geology.
2. I graduated from the University of British Columbia, Vancouver, in 1976 with a Master of Science in Soil Science.
3. I am a fellow of the Geological Association of Canada.
4. I supervised the work described in this report.

  
\_\_\_\_\_  
J. W. Morton  
M. Sc., F.G.A.C.

Dated at Vancouver, British Columbia, this 2nd day of June, 1989



May 18th, 1989

Re: 890199 GA PA.

TO: Mr. J. W. Morton  
Suite 110  
325 Howe Street  
Vancouver, B. C. V6C 1Z7

FROM: Vangeochem Lab Limited  
1988 Triumph Street  
Vancouver, British Columbia  
V5L 1K5

SUBJECT: Analytical procedure used to determine Aqua Regia soluble gold in geochemical samples.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" x 6", Kraft paper bags. Rock samples would be received in poly ore bags.
- (b) Dried soil and silt samples were sifted by hand using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 80-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for subsequent analyses.

2. Method of Digestion

- (a) 5.00 to 10.00 grams of the minus 80-mesh portion of the samples were used. Samples were weighed out using an electronic micro-balance and deposited into beakers.
- (b) Using a 20 ml solution of Aqua Regia (3:1 solution of HCl to HNO<sub>3</sub>), each sample was vigorously digested over a hot plate.
- (c) The digested samples were filtered and the washed pulps were discarded. The filtrate was then reduced in volume to about 5 ml.
- (d) Au complex ions were then extracted into a di-isobutyl ketone and thiourea medium (Anion exchange liquids "Aliquot 336")

(e) Separatory funnels were used to separate the organic layer.

3. Method of Detection

The detection of Au was performed with a Techtron model AA5 Atomic Absorption Spectrophotometer with a gold hollow cathode lamp. The results were read out onto a strip chart recorder. A hydrogen lamp was used to correct any background interferences. The gold values, in parts per billion, were calculated by comparing them with a set of gold standards.

4. Analysts

The analyses were supervised or determined by Mr. Conway Chun and his laboratory staff.

*Conway Chun* as per \_\_\_\_\_

Conway Chun  
VANGEOCHEM LAB LIMITED

Gibraltar Mines Ltd.

Laboratory techniques (for Cu, Pb, Zn, Ag determinations).

- samples sieved to minus 20 mesh.
- minus 20 mesh fraction used in determinations.
- samples digested in a mixed acid decomposition procedure (perchloric acid, nitric acid and sulfuric acid).
- base metal values obtained using atomic absorption methods.

REPORT NUMBER: 890199 GA

JOB NUMBER: 890199

J. WILLIAM MORTON

PAGE 1 OF 1

SAMPLE #	Au ppb
7+00N 0+00E	5
7+00N 0+25E	nd
7+00N 0+50E	10
7+00N 0+75E	10
7+00N 1+00E	10
7+00N 1+25E	15
7+00N 1+50E	20
7+00N 1+75E	10
7+00N 2+00E	nd
7+00N 2+25E	nd
7+00N 2+50E	nd
7+00N 2+75E	10
7+00N 3+00E	10
7+00N 3+25E	5
7+00N 3+50E	nd
7+00N 3+75E	nd
7+00N 4+00E	nd
7+00N 4+25E	nd
7+00N 4+50E	15
7+00N 4+75E	15
7+00N 5+00E	5
7+00N 0+25W	5
7+00N 0+50W	5
7+00N 0+75W	nd
7+00N 1+00W	10

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

**VANGEOCHEM LAB LIMITED**

1988 Triumph Street, Vancouver V5L 1K5  
Ph: (604) 251-3656 Fax: (604) 251-5717

**ICAP GEOCHEMICAL ANALYSIS**

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO<sub>3</sub> to H<sub>2</sub>O at 95 °C for 90 minutes and is diluted to 10 ml with water.  
This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Pd, Pt, Sn, Sr and W.

ANALYST: *J. Wang*

REPORT #: 890199 PA      J. WILLIAM MORTON      Proj: REDGOLD      Date In: 89/05/09      Date Out: 89/05/12      Att: J. WILLIAM MORTON      Page 1 of 1

Sample Number	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Pd	Pt	Sb	Sn	Sr	U	W	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7+00N 0+00E	0.1	2.06	<3	<3	59	<3	0.38	0.8	15	39	43	3.17	0.16	0.70	752	2	0.03	32	0.04	22	<3	<5	<2	2	42	<5	<3	80
7+00N 0+25E	0.1	1.62	<3	<3	64	<3	0.40	0.6	11	31	26	2.48	0.13	0.51	360	1	0.01	24	0.04	16	<3	<5	<2	<2	39	<5	<3	76
7+00N 0+50E	0.1	1.70	<3	<3	68	<3	0.54	0.7	13	32	39	2.69	0.14	0.62	522	1	0.02	24	0.07	17	<3	<5	<2	<2	47	<5	<3	80
7+00N 0+75E	0.1	2.20	7	<3	81	<3	0.25	0.7	14	39	45	3.38	0.12	0.64	405	2	0.02	36	0.07	18	<3	<5	<2	<2	38	<5	<3	79
7+00N 1+00E	0.1	1.64	6	<3	50	<3	0.33	0.8	17	34	53	3.27	0.12	0.77	681	2	0.04	28	0.09	18	<3	<5	<2	<2	35	<5	<3	66
7+00N 1+25E	0.3	1.67	5	<3	64	<3	1.72	0.6	15	32	52	3.18	0.01	0.89	614	1	0.03	29	0.08	18	<3	<5	<2	<2	106	<5	<3	75
7+00N 1+50E	0.1	1.69	10	<3	57	<3	0.34	0.8	15	31	45	3.40	0.01	0.82	574	2	0.03	26	0.09	18	<3	<5	<2	<2	37	<5	<3	68
7+00N 1+75E	0.1	1.82	4	<3	63	<3	0.36	0.6	14	33	49	3.24	0.10	0.81	603	1	0.03	27	0.07	18	<3	<5	<2	<2	37	<5	<3	70
7+00N 2+00E	0.5	1.69	<3	<3	66	<3	0.51	0.5	12	33	61	2.43	0.08	0.59	672	1	0.03	28	0.05	17	<3	<5	<2	2	42	<5	<3	78
7+00N 2+25E	0.1	1.63	<3	<3	61	<3	0.60	0.6	12	36	46	2.46	0.08	0.66	762	1	0.02	30	0.05	17	<3	<5	<2	2	48	<5	<3	70
7+00N 2+50E	0.1	1.80	<3	<3	69	<3	0.33	0.6	13	47	27	2.75	0.06	0.80	485	2	0.02	35	0.05	17	<3	<5	<2	2	33	<5	<3	110
7+00N 2+75E	0.4	1.82	<3	<3	52	<3	0.29	0.7	14	48	37	2.89	0.05	0.93	336	1	0.03	37	0.06	18	<3	<5	<2	2	28	<5	<3	63
7+00N 3+00E	0.4	1.91	<3	<3	56	<3	0.31	0.7	15	53	32	2.80	0.05	0.94	408	2	0.03	35	0.04	17	<3	<5	<2	3	29	<5	<3	60
7+00N 3+25E	0.3	1.79	<3	<3	47	<3	0.20	0.5	11	47	20	2.85	0.04	0.59	137	2	0.02	27	0.02	18	<3	<5	<2	3	20	<5	<3	49
7+00N 3+50E	0.3	1.51	<3	<3	56	<3	0.24	0.5	11	44	24	2.85	0.01	0.59	178	2	0.01	28	0.03	18	<3	<5	<2	3	23	<5	<3	76
7+00N 3+75E	0.4	2.18	<3	<3	92	<3	0.66	1.1	18	45	136	3.07	0.04	0.72	1944	2	0.04	44	0.06	21	<3	<5	<2	2	55	<5	<3	112
7+00N 4+00E	0.3	2.17	<3	<3	76	<3	0.60	0.7	16	45	94	2.84	0.02	0.59	1368	2	0.04	35	0.05	19	<3	<5	<2	2	48	<5	<3	107
7+00N 4+25E	0.1	2.35	<3	<3	61	<3	0.17	0.6	14	57	30	3.32	0.01	0.71	226	2	0.01	39	0.03	18	<3	<5	<2	2	22	<5	<3	108
7+00N 4+50E	0.1	1.93	9	<3	57	<3	0.30	0.8	15	45	40	3.51	0.01	0.79	517	2	0.03	38	0.06	18	<3	<5	<2	2	36	<5	<3	84
7+00N 4+75E	0.4	1.75	<3	<3	57	<3	0.17	0.8	15	67	20	3.20	0.01	0.59	398	2	0.01	32	0.17	17	<3	<5	<2	3	16	<5	<3	170
7+00N 5+00E	0.1	1.48	<3	<3	41	<3	0.18	0.1	11	40	16	2.69	0.01	0.68	222	2	0.02	35	0.16	18	<3	<5	<2	2	22	<5	<3	114
7+00N 0+25W	0.4	2.46	<3	<3	80	<3	0.34	0.8	16	44	66	3.60	0.01	0.60	1024	2	0.05	35	0.04	23	<3	<5	<2	2	41	<5	<3	80
7+00N 0+50W	1.2	5.58	<3	<3	176	<3	0.76	1.9	17	64	224	5.84	0.01	0.87	898	2	0.08	69	0.11	34	<3	<5	2	<2	92	<5	<3	115
7+00N 0+75W	0.3	1.39	<3	<3	39	<3	0.41	0.3	9	40	50	2.43	0.01	0.53	260	2	0.04	24	0.04	16	<3	<5	<2	2	43	<5	<3	63
7+00N 1+00W	0.1	1.99	<3	<3	36	<3	0.23	0.5	14	40	31	3.11	0.01	0.90	266	2	0.02	35	0.05	18	<3	<5	<2	2	24	<5	<3	68

Minimum Detection      0.1   0.01   3   3   1   3   0.01   0.1   1   1   1   0.01   0.01   0.01   1   1   0.01   1   0.01   2   3   5   2   2   1   5   3   1  
Maximum Detection      50.0   10.00   2000   100   1000   1000   10.00   1000.0   20000   1000   20000   10.00   10.00   10.00   20000   1000   10.00   20000   10.00   20000   100   100   2000   1000   10000   100   1000   20000  
< = Less than Minimum    is = Insufficient Sample    ns = No sample    > = Greater than Maximum    AuFA = Fire assay/AAS

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GIBRALTAR MINES LTD.

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SAMPLE #	Au ppb
S1	5
S2	10
883054	5
883055	10
883056	nd
883057	5
883058	15
883059	15
883060	5
883061	15
883062	10
883063	30
883064	15
883065	15
883066	35
883067	20
883068	30
883069	5
883070	10
883071	15
883072	nd
883073	10
883074	10
883075	15
883076	15
883077	15
883078	20
883079	25
883080	5
883081	5
883082	15
883083	15
883084	20
883085	15
883086	10
883087	20
883088	25
883089	30
883090	15

*Red gold*

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

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GIBRALTAR MINES LTD.

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SAMPLE #	Au ppb
883091	nd
883092	20
883093	10
883094	10
883095	5
883100	5
883101	10
883102	25
883103	15
883104	15
883105	30
883106	15
883107	15
883108	30
883109	30
883110	5
883111	25
883112	30
883113	20
883114	20
883115	25
883116	10
883117	35
883118	10
883119	15
883120	15
883121	10
883122	20
883123	15
883124	20
883125	20
883126	15
883127	15
883128	10
883129	15
883130	20
883131	15
883132	15
883133	20

*Red gold.*

DETECTION LIMIT  
 nd = none detected

5  
 -- = not analysed

is = insufficient sample

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SAMPLE #	Au ppb
883134	15
883200	30
883201	20
883202	10
883203	20
883204	15
883205	10
883206	15
883207	20
883208	30
883209	10
883210	25
883211	290
883212	20
883213	115
883214	20
883215	20
883216	30
883217	20
883218	45
883219	30
883220	30
883221	20
883222	20
883223	30
883224	15
883225	15
883226	30
883227	35
883228	5
883229	25
883230	40
883231	30
883232	20
883233	20
883234	20
883235	10
883236	15
883237	10

*Red gold.*

DETECTION LIMIT

nd = none detected

-- = not analysed

is = insufficient sample



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JOB NUMBER: 881784

GIBRALTAR MINES LTD.

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SAMPLE #	Au ppb
883238	(30)
883239	20
883240	20
883241	15
883242	(25)
883243	10
883244	15
883245	15
883246	15
883247	15
883248	(25)
883249	20
883250	(25)
883251	(20)
883252	(25)
883253	(20)
883254	(30)
883255	20
883256	(35)
883257	(15)
883258	25
883259	20
883260	(30)
883261	(25)
883262	20
883263	15
883264	(30)
883265	(25)
883266	15
883267	20
883268	20
883300	15
883301	15
883302	5
883303	10
883304	20
883305	30
883306	30
883307	20

*Red Gold*

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

GIBRALTAR MINES LIMITED  
ASSAY CERTIFICATE

EXPLORATION SOILS

Date ..... 29. SEPT. ...., 19. 68.

Sample No.	% Gx-Gu. ppm Cu	Total Cu. ppm Pb	% MoS <sub>2</sub> ppm Zn	ppm Ag		
BB-3054	59	13	81	.9	0.000N	0.000E
55	60	15	63	1.0		↓
56	44	11	78	.8		↓
57	53	11	58	.6		
58	28	10	69	.9		1.000E
59	42	12	94	1.1		↓
60	60	16	105	1.3		↓
61	47	13	62	1.0		
62	27	6	30	.4		2.000E
63	30	13	67	.6	0.000N	2.250E
64	30	11	61	.7	1.000N	4.000E
65	31	8	94	.8		
66	64	8	63	.6		↓
67	49	9	62	.8		
68	136	11	69	.8	1.000N	3.000E
69	27	11	57	.7		↓
70	45	9	41	.5		↓
71	27	8	49	.6		
72	24	8	32	.6	1.000N	2.000E
73	37	9	35	.5		↓
74	226	9	56	1.0		↓
75	24	10	36	.6		
76	52	10	37	.4	1.000N	1.000E
77	62	12	40	.9		↓
78	34	9	27	.5		↓
79	48	12	54	.8		↓
80	37	10	40	.9	1.000N	0.000E
81	40	11	80	.9	4.000N	1.500E
82	48	10	68	.9		1.750E
83	88	11	59	.9	4.000N	2.000E
84	72	16	94	1.3	4.000N	2.250E

GIBRALTAR MINES LIMITED  
ASSAY CERTIFICATE

EXPLORATION SOILS

Date ..... 29.. SEPT....., 19. 56.

Sample No.	% Cu - Cu.	Total Cu.	% MoS <sub>2</sub>			
	ppm Cu	ppm Pb	ppm Zn	ppm Ag		
BB-3085	79	16	72	1.2	4+COIN	2+5OE
86	166	11	56	.4		↓
87	59	12	49	.6	4+COIN	3+COE
88	39	12	43	.7		↓
89	69	9	49	1.2		↓
90	105	11	57	1.1		
91	71	13	52	.8	4+COIN	4+COE
92	125	15	75	1.3		↓
93	57	13	86	1.1		
94	79	10	57	.6		
95	42	8	28	.3	4+COIN	5+COE
SB-3100	46	11	47	.7	3+COIN	4+COE
01	47	14	61	.8		↓
02	48	14	68	1.0		↓
03	62	13	63	.8		
04	74	11	101	.8	3+COIN	3+COE
05	688	24	105	2.3		↓
06	40	11	102	.8		↓
07	74	10	82	.8		
08	33	11	102	.9	3+COIN	2+COE
09	36	13	92	.8	COE	↓
10	76	18	60	.8		
11	57	10	64	.8		
12	56	10	82	.8	3+COIN	1+COE
13	26	9	98	.9		↓
14	45	12	71	1.0		↓
15	84	16	73	.8		
16	108	16	68	1.2	3+COIN	0+COE
17	246	28	184	2.7	4+COIN	1+5OE
18	96	13	112	1.2	4+COIN	1+COE

cc: Assay Lab.

Assayer .....

*A. Craig*

GIBRALTAR MINES LIMITED  
ASSAY CERTIFICATE

LABORATION SOILS

Date ..... 29 SEPT., 1958.

Sample No.	% Ex. Cu. ppm Cu	Total Cu. ppm Pb	% MoS <sub>2</sub> ppm Zn	ppm Ag		
BB-3119	73	10	59	.8	4t con	0t 75E
20	34	13	46	.9		↓
21	72	14	44	.9	4t con	0t 25E
22	75	13	71	.8	5t con	1t 25E
23	51	13	95	.6	5t con	1t 00E
24	71	14	53	.7		↓
25	55	14	69	.8		
26	607	15	93	.6	PFL	
27	48	12	91	.5	5t con	0t 00E
28	60	13	59	.6		↓
29	78	16	71	.9		
30	71	21	73	1.1		↓
31	44	14	62	.7	5t con	1t 00W
32	34	14	73	.8		↓
33	106	26	126	2.0		↓
34	54	15	67	1.0	5t con	1t 75W
BB-3200	48	15	67	.9	2t con	4t 00E
01	31	13	57	1.0		↓
02	31	12	40	.7		
03	25	14	121	1.0		
04	22	11	71	.9	2t con	3t 00E
05	36	10	57	.8		↓
06	40	11	46	1.0		↓
07	59	10	87	1.1		
08	199	17	64	1.0	2t con	2t 00E
09	93	12	56	.8		↓
10	32	11	81	.9		↓
11	244	37	102	1.7		
12	75	21	113	1.1	2t con	1t 00E
13	67	37	55	.5	2t con	0t 75E

cc: Assay Lab.

Assayer M. Crump



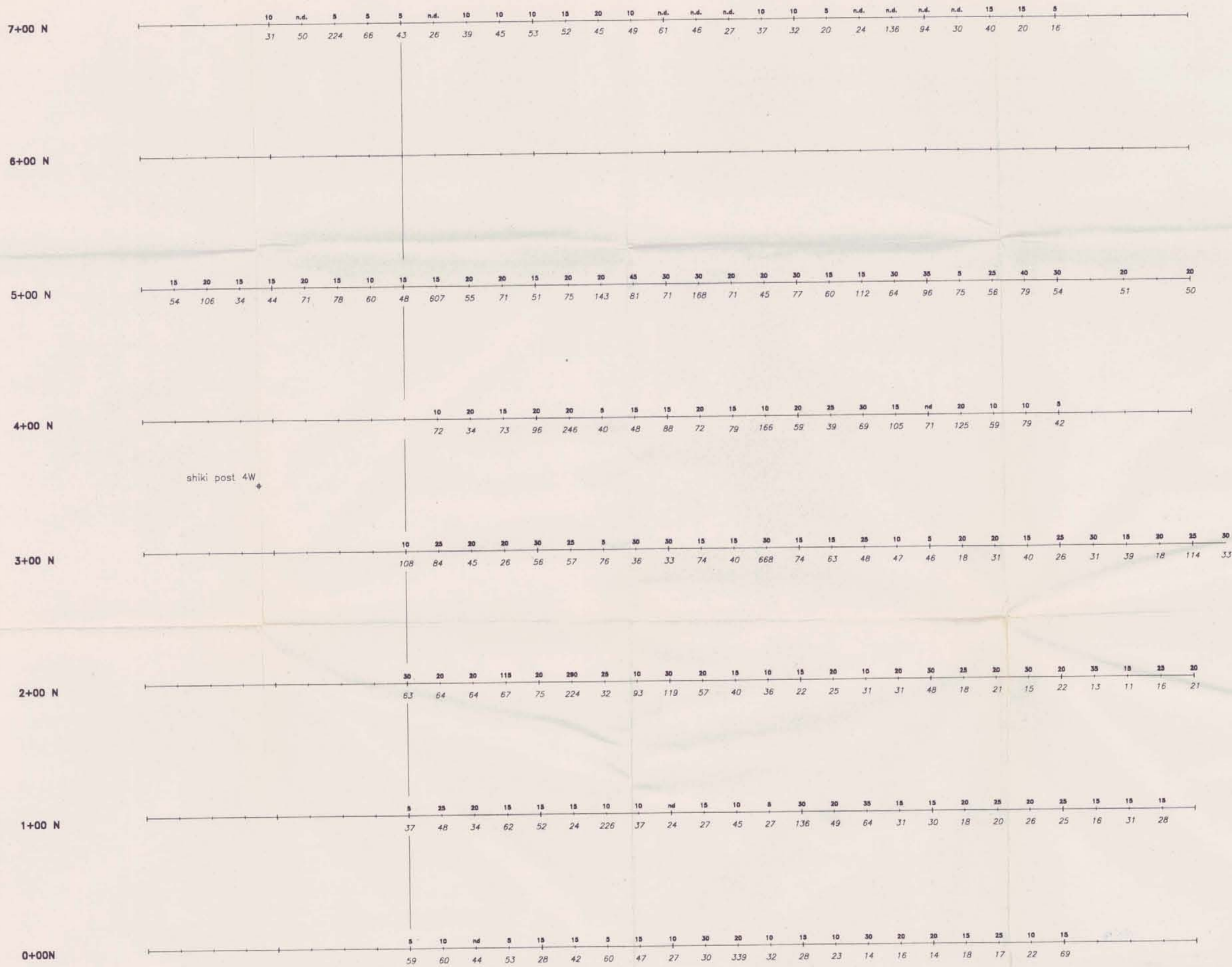
GIBRALTAR MINES LIMITED  
ASSAY CERTIFICATE

EXPLORATION SOILS

Date ..... 4. Oct. ...., 1988 ..

Sample No.	% Ex. Cu.	Total Cu.	% MoS.			
	ppm Cu	ppm Pb	ppm Zn	ppm Ag		
88-3234	339	46	163	2.6	0.001	2+25E
35	32	15	80	1.0		2+75E
36	28	14	101	1.3		3+00E
37	23	14	74	1.1		↓
38	14	17	109	1.0		
39	16	14	161	1.1		
40	14	10	101	0.8		4+00E
41	18	17	108	0.9		↓
42	17	18	125	1.1		↓
43	22	16	62	0.7		
44	69	18	122	1.3		5+00E
45	28	18	85	1.2	11CON	5+75E
46	31	17	85	0.8		↓
47	16	16	85	0.7		
48	25	17	123	1.2		5+00E
49	26	16	73	0.8		↓
50	20	14	97	1.2	REC-41150E	4+50E
51	18	13	102	1.2	4+00E	4+50E
52	18	14	103	1.0	2+00N	4+25E
53	21	13	111	1.1		↓
54	15	13	117	1.0		
55	22	19	83	0.9	2+00N	5+00E
56	13	16	60	0.7		↓
57	11	14	68	0.7		↓
58	16	14	83	0.5		
59	21	16	77	0.9	2+00N	6+00E
60	33	21	69	1.0	3+00N	6+25E
61	114	23	106	1.8	3+00N	6+00E
62	18	13	82	0.9		↓
63	39	17	92	1.1		
64	31	15	187	1.3	3+00N	5+25E





shiki post 4W

LEGEND

20 gold (ppb)  
45 copper (ppm)

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

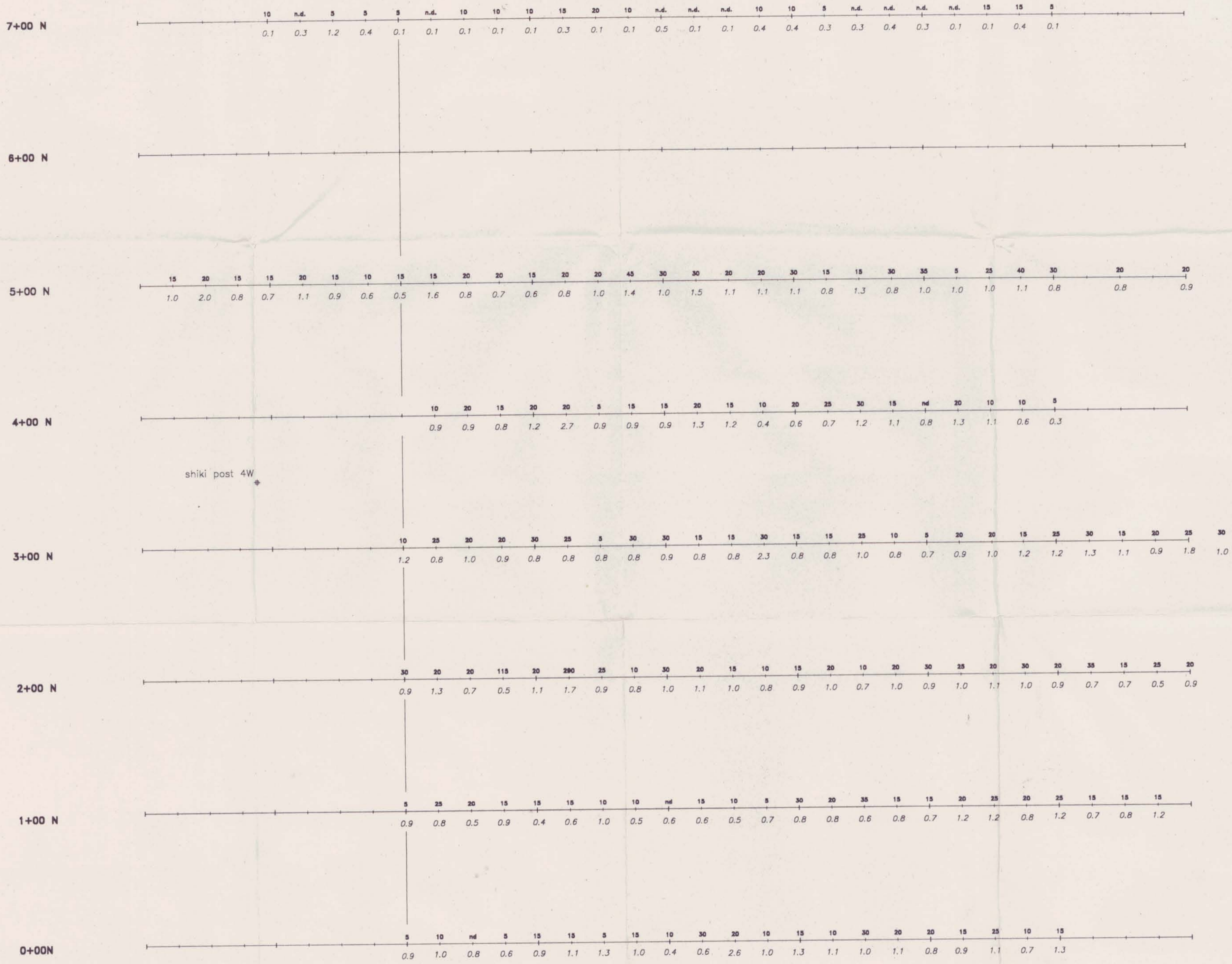
0 10 50 100  
metres  
18,837

REDGOLD PROPERTY

SOIL GEOCHEMISTRY  
GOLD (ppb), COPPER (ppm)

Date	April 1989	Scale	1 : 2 000	Figure	3
N.T.S.		By			





shiki post 4W

LEGEND

20 gold (ppb)  
0.5 silver (ppm)

SOLOGICAL BRANCH  
ASSESSMENT REPORT

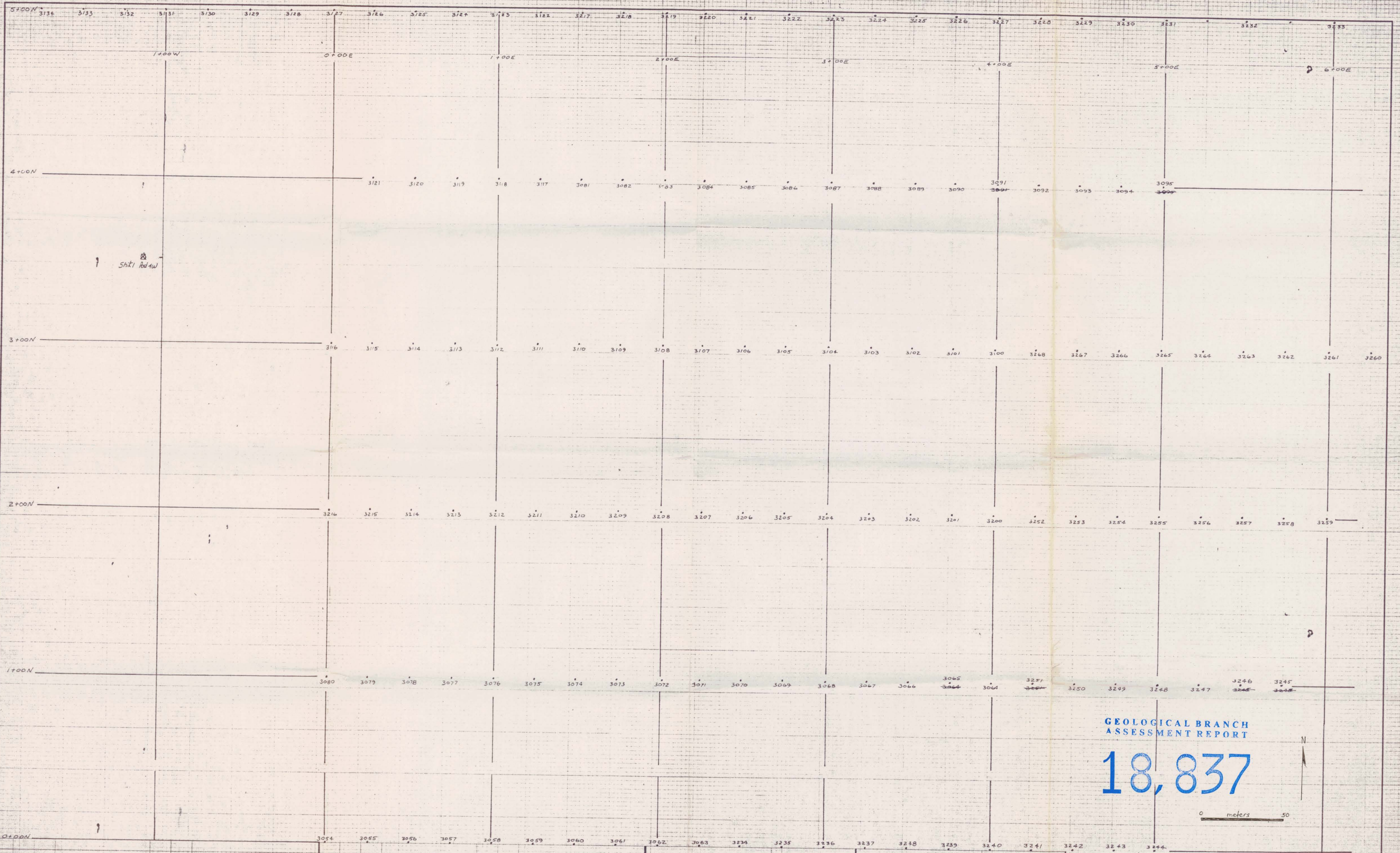


18,837

REDGOLD PROPERTY

SOIL GEOCHEMISTRY  
GOLD (ppb), SILVER (ppm)

Date	April 1989	Scale	1 : 2 000	Figure	4
N.T.S.		By			



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

18,837

0 meters 50

sample location map.

DWN.	CHECK	APPR.	ISSUED FOR	DATE	REV.	DESCRIPTION	REFERENCE	No.	DWG. No.	SCALE	1:1000	19, 20 SEPT. 1988	No.	DWG. No.	REFERENCE	FILE No.

GIBRALTAR MINES LIMITED  
GEOCHEM SOIL SURVEY  
SAMPLE NUMBERS  
REDGOLD PROPERTY  
FILE No. 637

Figure 2