Notes on the Bedrock Assays
Sewell-Reeves Project
East Block

Attachments include:

: two, 1:10,000 sample maps covering the 426-claim East Block. Samples are designated by an 'x' with appropriate sample number and assay in ppm. The 10,000 scale is used where sample density is least. Drillhole locations are also shown on this plan.

: 3, 1:5000-scale plans in areas where sample density is greater being

- Trench 18 area southwest of Sewell Lake
- the Four Corners East part, and
- the Four Corners West part.

: a, 1:10,000-scale claim map highlighting claims on which samples were taken,

: logs of drillholes from which samples were taken, and,

: 2, photo-reduced claim maps indicating

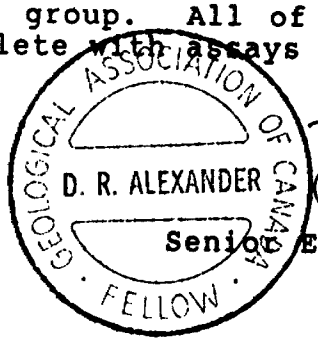
1) the claims on which samples were taken
2) the claims on which the work is being applied.

... along with lists of said claims.

The samples were taken by American Barrick personnel during the course of a geological survey conducted on the 426-claim East Group between May 15 and August 15, 1989. American Barrick Resources Corporation is the optionee of record from Glen Auden Resources and Goldrock Resources.

All assaying was completed at the Holt-McDermott assay lab at a charge of $7.50 per sample -- a representative invoice signed by the Regional Exploration Manager is attached. The charge is all-inclusive of sample preparation and assaying. Since the assay rate is much less than a commercial lab, check samples and assays of additional elements are charged at the same $7.50 per element rate. All samples are assayed for gold in gms (or ppm) with additional elements noted (in ppm) where appropriate.

Also included in the programme are assays from several drillholes stored at the Regional Core Library in Timmins. The holes were drilled by the Kukatush Mining Corporation between 1962 and 1966 and occur within or on the fringes of the current claim group. All of the drillholes were relogged -- copies of the logs, complete with assays are attached.



Dale R. Alexander
Senior Exploration Geologist

Summary of Assay Sheets

May 25/89	-	22
May 30/89	-	57 / 79
May 30/89	-	50 / 129
May 31/89	-	78 / 207
June 13/89	-	101 / 308
June 14/89	-	29 / 337
June 14/89	-	37 / 374
June 19/89	-	5 / 379
June 21/89	-	57 / 436
June 30/89	-	31 / 467
June 30/89	-	92 / 559
July 5/89	-	7 / 566
July 7/89	-	22 / 588
July 8/89	-	32 / 1620
July 10/89	-	16 / 636
July 12/89	-	63 / 699
July 13/89	-	4 / 703
July 18/89	-	62 / 765
July 18/89	-	57 / 822
July 24/89	-	93 / 915
July 25/89	-	24 / 939
July 31/89	-	188 / 1127
July 31/89	-	52 / 1179

1179 x $7.50 = $8842.50 ÷ $15/day = 589.5 days credit

Credits to be fulfilled from Report of Work

= 35 claims x 15 days + 1 claim x 10 days

= 525 + 10 = 535

Please bank excess credits for future use.

D.R. Alexander

BARRICK

AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 22
Lab ID: 89526-1x

Date: May 25, 1989
Acct. No.: Explorations

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
81511	0.12				
12	0.14	(SAMPLES WITH RED TAPE)			
13	0.12				
14	0.22				
15	0.35				
16	0.17				
17	0.34				
18	0.07				
19	0.03				
20	0.12/0.08				
21	0.15				
22	0.05				
23	0.07				
24	0.12				
25	0.08				
26	0.05				
27	0.05				
28	0.09				
29	0.04				
30	0.04/0.02				

Signed

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AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 79
Lab ID: 89530-2x

Date: May 30, 1989
Acct. No.: Exploration

SAMPLE	g/t Au
61501	7.18/7.18
02	2.41/2.00
03	0.25
04	0.20
05	0.14
06	0.07
07	0.12
08	2.63
09	0.23

SAMPLE	g/t Au
61510	0.14
61531	0.18
32	0.16
33	0.07
34	0.06
35	0.07
36	0.15
37	0.24
38	0.06
39	0.13
40	0.10
41	0.08

SAMPLE	g/t Au
61542	0.02
43	0.05
44	0.10
45	0.17
46	1.58
47	0.24
48	0.11
49	0.08
50	0.16/0.14
51	0.06
52	0.03
53	0.02
54	0.03
55	0.03
56	0.03
57	0.15
58	0.02
59	0.04
60	0.04
61	0.04
62	0.03
63	0.12
64	0.09
65	0.08
66	0.03
67	0.02
68	0.04
69	0.23
70	0.30/.025
71	0.04
72	0.04
73	0.06

A.J. Wolfe
Signed

P.177-64 = 57

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AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine

P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 50
Lab ID: 89530-1x

Date: May 30, 1989
Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
61574	0.05	61606	0.08		
75	0.07	07	0.27		
76	0.07	08	0.12		
77	0.07	09	0.08		
78	0.04	10	0.07		
79	0.09	11	0.05		
80	0.08	12	0.07		
81	0.07	13	0.10		
82	0.06	14	0.06		
83	0.09	15	0.09		
84	0.12	16	0.13		
85	0.08	17	0.10		
86	0.09	18	0.27		
87	0.07	19	0.06		
88	0.11	20	0.07		
89	0.05	21	0.08		
90	0.06	22	0.07		
91	0.11	23	0.39		
92	0.05				
93	0.12				
94	0.10				
95	0.24				
96	0.08				
97	0.04				
98	0.27				
99	0.12				
61600	0.05				
01	0.06				
02	0.14				
03	0.16				
04	0.06				
05	0.75				

Sweet-Penhorwood
P.177-64 =50

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AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 78
Lab ID: 89531-1x

Date: May 31, 1989
Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
# 61624	0.04	61657	0.08	61689	0.06
25	0.02	58	0.07	90	0.04/0.03
26	0.02	59	0.07	91	0.01
61628	0.04	60	0.06/0.06	92	0.07
29	0.02	61	0.06	93	0.09
30	0.01/0.02	62	0.05	94	0.10
31	0.01	63	0.16	95	0.14
32	0.01	64	0.20		
33	0.02	65	0.11		
34	0.03	66	0.08		
35	0.03	67	0.07		
36	0.05	68	0.07		
37	0.02	69	0.04		
38	0.03	70	0.05/0.05		
39	0.02	71	0.09		
40	0.02/0.02	72	0.05		
41	0.02	73	0.04		
42	0.03	74	0.02		
43	0.03	75	0.08		
44	0.03	76	0.12		
45	0.02	77	0.04		
46	0.03	78	0.02		
47	0.04	79	0.03		
48	0.05	80	0.01/0.02		
49	0.03	81	0.03		
50	0.02/0.02	82	0.03		
51	0.03	83	0.04		
52	0.03	84	0.05		
53	0.03	85	0.04		
54	0.03	86	0.05		
55	0.02	87	0.04		
56	0.06	88	0.03		

Signed

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AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 101
Lab ID: 89613-2x

Date: June 13, 1989
Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
98501	0.11	98533	0.16	98565	0.03
02	0.11	34	0.14	66	0.04
03	0.14	35	0.12	67	0.48
04	0.15	36	0.13	68	0.05
05	0.16	37	0.32	69	0.04
06	0.19	38	0.13	70	0.06/0.06
07	0.08	39	0.18	71	0.12
08	0.08	40	0.05/0.06	72	0.07
09	0.08	41	0.09	73	0.05
10	0.06/0.08	42	0.09	74	0.05
11	0.08	43	0.10	75	0.05
12	0.06	44	0.15	76	0.08
13	0.15	45	0.08	77	0.04
14	0.20	46	0.09	78	0.04
15	0.13	47	0.16	79	0.04
16	0.06	48	0.11	80	0.07/0.12
17	0.06	49	0.21	81	0.14
18	0.07	50	0.08/0.08	82	0.07
19	0.05	51	0.07	83	0.19
20	0.13/0.12	52	0.56	84	0.06
21	0.21	53	0.05	85	0.10
22	0.08	54	0.06	86	0.14
23	0.08	55	0.07	87	0.17
24	0.07	56	0.08	88	0.11
25	0.12	57	0.08	89	0.15
26	0.11	58	0.08	90	0.10
27	0.05	59	0.33	91	0.08
28	0.06	98560	0.12/0.08	98592	0.10
29	0.06	61	0.09	93	0.09
30	0.11/0.08	62	0.14		
31	0.14	63	0.05		
32	0.17	64	0.07		

Signed

101 ✓

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AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 105
Lab ID: 89614-1x

Date: June 14, 1989
Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
61696	0.12	98600	0.27/0.28	98606	0.20
97	0.09	01	1.20	07	0.76
98	0.09	02	0.09	08	0.18
99	0.10	03	0.22		
61700	0.18/0.19	04	0.12		
98594	0.14	05	0.34		
95	0.18				
96	0.24				
97	0.25				
98	0.18				
99	0.12				

#3 #3 #3

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A.T. Robb
Signed

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AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 48 — Date: June 14, 1989
Lab ID: 89614-2x — Acct. No.: Exploration

SAMPLE	g/t Au
98612	0.07
13	0.07
14	0.12
15	0.15
16	0.27
17	0.09
18	0.12
19	0.15
20	0.13/0.15
21	0.14
22	0.12
23	0.12
24	0.16
25	0.11
26	0.15
27	0.13
28	0.14
29	0.18
30	0.16/0.12
31	0.14
32	0.10
33	0.12
34	0.10
35	0.12
36	0.12
37	0.13
38	0.16
39	0.10
40	0.10/0.10
41	0.09

#3

SAMPLE	g/t Au
98609	0.10
10	0.07/0.08
11	0.26

#4

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98642, 43.??

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AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine

P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 30
Lab ID: 89626-3x

Date: June 19, 1989
Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
		98642	0.25		
		43	0.13		
		98701	0.12		
		02	0.15		
		03	0.11		

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P.177-64 5 samples

A Robles

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AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 98
Lab ID: 89621-3x

Date: June 21, 1989
Acct. No.: Exploration

SAMPLE	g/t Au
98644	0.15
45	0.23
46	0.14
47	0.16
48	0.14
49	0.15
50	0.13/0.12
51	0.17
52	0.12
53	0.17
54	0.12
55	0.11
56	0.18
57	0.30
58	0.42
59	0.14
60	0.49/0.42
61	0.42
62	0.57
63	0.37
64	0.43
65	0.43
66	0.43
67	0.49
98668	0.39
69	0.45
70	0.39/0.34
71	0.40
72	0.30
73	0.27
74	0.28
75	0.30
76	0.32
77	0.36
78	0.36
79	0.29
80	0.49/0.50
81	0.31
82	0.20
83	0.23
84	0.14
85	0.14
86	0.14
87	0.15
88	0.14
89	0.14
90	0.14/0.13
91	0.12
92	0.10
93	0.12
94	0.10
95	0.10

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AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 92
Lab ID: 89630-2x

Date: June 30, 1989
Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
98696	0.19	98731	0.10	98763	0.16
97	0.16	32	0.10	64	0.07
98	0.17	33	0.10	65	0.06
99	0.22	34	0.07	66	0.05
98700	0.17	35	0.07	67	0.05
98704	0.13	36	0.08	68	0.07
05	0.24	37	0.09	69	0.05
06	0.22	38	0.11	70	0.04
07	0.26	39	0.11	71	0.05
08	0.21	40	0.11	72	0.06
09	0.17	41	0.11	73	0.11
10	0.17	42	0.14	74	0.06
11	0.14	43	0.10	75	0.04
12	0.18	44	0.09	76	0.07
13	0.15	45	0.05	77	0.03
14	0.14	46	0.05	78	0.03
15	0.14	47	0.07	79	0.02
16	0.13	48	0.06	80	0.04
17	0.12	49	0.06	81	0.05
18	0.13	50	0.08	82	0.05
19	0.15	51	0.07	83	0.07
20	0.14	52	0.11	84	0.05
		53	0.12	85	0.04
		54	0.07	86	0.12
		55	0.08	87	0.06
		56	0.08	88	0.05
98725	0.13	57	0.05	89	0.05
26	0.10	58	0.10	90	0.03
27	0.13	59	0.07	91	0.02
28	0.10	60	0.08	92	0.13
29	0.10	61	0.05	93	0.08
30	0.10	62	0.08	94	0.11

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AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 82 — Date: June 30, 1989
Lab ID: 89630-1x — Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
98795	0.07				
96	0.11				
97	0.20				
98	0.24				
99	0.10				
98800	0.13				
01	0.45				
02	0.72				
03	0.08				
04	0.11				
05	0.10				
06	0.09				
07	0.09				
08	0.13				
09	0.09				
10	0.09				
11	0.07				
12	0.09				
13	0.14				
14	0.11				
15	0.09				
16	0.17				
17	0.11				
18	0.08				
19	0.08				
20	0.09				
21	0.09				
22	0.10				
23	0.09				
24	0.09				
25	0.09				

31

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Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 100
Lab ID: 89605-1x

Date: July 05, 1989
Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
98867	0.13				
68	0.14				
69	0.11				
70	0.12/0.08				
71	0.11				
72	0.13				

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P.177-64 · 7samples

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32
32
26
10
100

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Holt-McDermott Mine

P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 44
Lab ID: 89706-2x

Date: July 06' 1989
Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
		98864	0.21		
		65	0.20		
		66	0.17		
98838	0.11				
39	0.17				
40	0.15/0.14				
41	0.09				
42	0.22				
43	0.12				
44	0.11				
45	0.11				
46	0.14				
47	0.10				
48	0.16				
49	0.11				
50	0.13/0.10				
51	0.13				
52	0.14				
53	0.18				
54	0.15				
55	0.15				
53	0.15				
57	0.17				
58	0.13				
59	0.21				
60	0.19/0.22				
61	0.19				
62	0.15				
63	0.15				

Sig

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AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 53
Lab ID: 89707-2x

Date: July 07, 1989
Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
		98826	0.20		
		27	0.13		
		28	0.14		
		29	0.16		
		30	0.14		
		31	0.17		
		32	0.20		
		33	0.24		
		34	0.50		
		35	0.20		
		36	0.15		
		37	0.17		
		98873	0.05		
		74	0.08		
		75	0.06		
		76	0.06		
		77	0.07		
		78	0.03		
		79	0.04		
		80	0.18		
		81	0.12		
		82	0.19		

J Miller
Signed

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AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 43
Lab ID: 89710-1x

Date: July 10, 1989
Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
98883	0.14				
84	0.14				
85	0.13				
86	0.11				
87	0.13				
88	0.05				
89	0.07				
90	0.05/0.05				
91	0.05				
92	0.03				
93	0.14				
94	0.04				
95	0.11				
96	0.03				
97	0.04				

P.177

P.160. - 25
P.177 - 16

A Thiele
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AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine

P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 68 73
Lab ID: 89712-1x

Date: July 12, 1989
Acct. No.: Exploration

SAMPLE	g/t Au
98945	0.47
46	0.13
47	0.08
48	0.11
49	0.09
50	0.13/0.13
51	0.35
52	0.19
53	0.53
54	0.18
55	0.28
56	0.31
57	1.70
58	0.12
59	0.14
98965	0.08
66	0.08
67	0.09
68	0.09
69	0.07
70	0.08/0.10
71	0.07
72	0.08
73	0.06
98974	0.06
75	0.06
76	0.07
77	0.14
78	0.16
79	0.14
80	0.13/0.11
81	0.10
82	0.15
83	0.15
84	0.26
85	0.13
86	0.12
87	0.13
88	0.20
89	0.10
90	0.12/0.12
91	0.10
92	0.13
93	0.12
94	0.13
95	0.09
96	0.10
97	0.15
98	0.10
99	0.14
99000	0.15/0.19
01	0.21
02	0.09

ppm
Zn Ag
22 <1

Signed

P.177 = 63.

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AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine

P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 51 — Date: July 13, 1989

Lab ID: 89713-1x — Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
98721	0.07				
22	0.04				
23	0.03				
24	0.03				

P.177 = 4

B T Rollin

Signed

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AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine

P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 110
Lab ID: 89718-2x

Date: July 18, 1989
Acct. No.: Exploration

SAMPLE	g/t Au
98898	0.45
99	0.01
98900	0.10/0.15
01	0.10
02	0.10
03	0.02
04	0.19
05	0.12
06	0.09
07	0.16
08	0.12
09	0.10
10	0.09/0.11
11	0.17
12	0.19
13	0.28
14	1.21
98915	0.20
16	1.23
17	0.80
18	0.19
19	0.33
20	0.98/0.97
21	0.34
22	0.12
23	0.16
24	0.09
25	0.92/0.64
26	1.72/1.42
27	2.65/2.31
28	2.74/3.54
29	0.71/0.60
30	0.46/0.38
31	1.19
32	0.20
33	1.72
34	0.11
35	0.16
36	0.36
37	0.05
38	0.03
39	0.04
40	1.25/1.46
41	0.30
42	0.09
43	0.73
44	0.12

Signed

BARRICK

AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 81 — Date: July 18, 1989
Lab ID: 89718-1x — Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
98960	0.07/0.13	99030	0.15/0.18		
61	0.53	31	0.07		
62	0.27	32	0.11		
63	0.51	33	0.07		
64	0.07	34	0.06		
99003	0.07	35	0.04		
04	0.15	36	0.09		
05	0.08	37	0.04		
06	0.08	38	0.04		
07	0.07	39	0.09		
08	0.08	40	175/173		
09	0.06	41	1.71		
10	0.07/0.11	42	0.15		
11	0.06	43	0.08		
12	0.07	44	0.08		
13	0.07	45	0.06		
14	0.08	46	0.06		
15	0.08	47	0.08		
16	0.07	48	0.07		
17	0.06	49	0.41		
18	0.08	50	0.07/0.11		
19	0.21	51	0.06		
20	0.15/0.12	52	0.22		
21	0.06	53	0.13		
22	0.08				
23	0.08				
24	0.05				
25	0.06				
26	0.08				
27	0.07				
28	0.05				
29	0.06				

Signed

BARRICK

AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 93
Lab ID: 89724-2x

Date: July 24, 1989
Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
99054	0.21	99087	0.11	99119	0.06
55	0.19	88	0.09	20	0.07/0.06
56	0.14	89	0.19	21	0.15
57	0.16	90	0.10/0.18	22	0.12
58	0.22	91	0.16	23	0.06
59	0.15	92	0.06	24	0.08
60	0.09/0.10	93	0.05	25	0.15
61	0.12	94	0.05	26	0.13
62	0.10	95	0.06	27	0.11
63	42.0/41.5	96	0.10	28	0.09
64	115/114	97	0.05	29	0.10
65	0.61	98	0.06	30	0.09/0.12
66	0.41	99	0.04	31	0.11
67	1.25	99100	0.08/0.10	32	0.03
99069	0.10	01	0.08	33	0.02
70	0.09/0.09	02	0.07	34	0.02
71	0.10	03	0.11	35	0.06
72	0.09	04	0.13	36	0.02
73	0.05	05	0.09	37	0.01
74	0.07	06	0.08		
75	0.09	07	0.09		
76	0.10	08	0.08		
77	0.11	09	0.09		
78	0.07	10	0.08/0.09		
79	0.07	11	0.09		
80	0.07/0.06	12	0.08		
81	0.28	13	0.09		
82	0.20	14	0.07		
83	0.18	15	0.02		
84	0.21	16	0.07		
85	0.15	17	0.28		
86	0.12	18	0.06		

Signed

69
93
93

BARRICK

AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 24
Lab ID: 89725-1x

Date: July 25, 1989
Acct. No.: Exploration

SAMPLE	ppm Cu	ppm Ni
99069	28	1220
99074	142	37
99079	33	768
99081	106	529
82	30	764
83	4	1080
99087	15	958
99090	13	1130
99122	1480	6370
23	1330	7240
99129	8	2010
99135	60	61

A.J. Robles

Signed

BARRICK

AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 82
Lab ID: 89731-1x

Date: July 31, 1989
Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
99069	0.15			99158	0.07
99074	0.09			59	0.08
99079	0.08			60	0.12/0.12
99081	0.05			61	0.14
82	0.10			62	0.06
83	0.07			63	0.14
99087	0.08			64	0.08
99090	0.10/0.12			65	0.15
99122	0.14			66	0.09
23	0.19			67	0.13
99129	0.10			68	0.10
99135	0.09			69	0.11
99138	0.26			70	0.13/0.12
39	0.10			71	0.13
40	0.12/0.12			72	0.10
41	0.06			73	0.07
42	0.09			74	0.08
43	0.09				
44	0.07				
45	0.06				
46	0.07				
47	0.07				
48	0.07				
49	0.09				
50	0.06/0.07				
51	0.07				
52	0.05				
53	0.17				
54	0.09				
55	0.08				
56	0.11				
57	0.09				

Signed

BARRICK

AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 16
Lab ID: 89731-4x

Date: July 31, 1989
Acct. No.: Exploration

SAMPLE	ppm Cu	ppm Zn
99592	18	37
93	146	47
94	144	496
95	12	174
99579	174	29
80	31	35
81	124	23
82	44	21
83	37	36
84	21	88
85	93	661
99506	104	410
07	79	57
08	42	49
99577	62	12
78	77	17

Signed

BARRICK

AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 82
Lab ID: 89731-2x

Date: July 31, 1989
Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
99613	0.14	99645	0.11	99506	0.45
14	0.11	46	0.06	07	0.84
15	0.16	47	0.17	08	0.24
16	0.10	48	0.06	99577	0.09
17	0.11	49	0.07	78	0.10
18	0.12	50	0.06	79	0.10
19	0.11	51	0.10	80	0.08/0.10
20	0.22/0.18	52	0.13	81	0.11
21	0.12	53	0.06	82	0.08
22	0.09	54	0.07	83	0.07
23	0.09	55	0.14	84	0.09
24	0.10	56	0.58	85	0.13
25	0.11	57	0.26	99592	0.08
26	0.16	58	0.13	93	0.16
27	0.17	59	0.14	94	0.14
28	0.08	60	0.12	95	0.12
29	0.08	61	0.22		
30	0.07/0.07	62	0.14		
31	0.05	63	0.20		
32	0.08	64	0.19		
33	0.09	65	0.16		
34	0.09	66	0.18		
35	0.05	67	0.13		
36	0.13	68	0.36		
37	0.06	69	0.17		
38	0.08	70	0.14		
39	0.06	71	0.08		
40	0.05	72	0.15		
41	0.05	73	0.09		
42	0.39	74	0.10		
43	0.17	75	0.15		
44	0.09				

Signed

BARRICK

AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine

P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 106 — Date: July 31, 1989

Lab ID: 89731-3x — Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
#99501	0.30	99536	0.12	99568	0.33
02	0.25	37	0.23	69	0.18
03	0.27	38	0.19	70	0.16/0.14
04	0.29	39	0.19	71	0.18
05	0.25	40	0.15/0.19	72	0.12
99509	1.74	41	0.11	73	0.11
10	0.21/0.19	42	0.16	74	0.10
11	0.28	43	0.22	75	0.11
12	0.23	44	0.11	76	0.11
13	0.21	45	0.15	99586	0.07
14	0.28	46	0.61	87	0.08
15	0.25	47	0.11	88	0.05
16	0.20	48	0.09	89	0.06
17	0.20	49	0.09	90	0.22/0.20
18	0.21	50	0.10/0.10	91	0.09
19	0.26	51	0.11	99596	0.06
20	0.16/0.17	52	0.13	97	0.07
21	0.11	53	0.08	98	0.11
22	0.15	54	0.10	99	0.12
23	0.13	55	0.14	99600	0.06/0.06
24	0.13	56	0.05	01	0.10
25	0.17	57	0.06	02	0.09
26	0.16	58	0.08	03	0.08
27	0.14	59	0.23	04	0.07
28	0.11	60	0.31/0.27	05	0.17
29	0.14	61	0.54	06	0.09
30	0.14/0.11	62	0.24	07	0.10
31	0.09	63	0.22	08	0.08
32	0.15	64	0.15	09	0.05
33	0.56	65	0.18	10	0.07/0.07
34	0.14	66	0.15	11	0.13
35	0.13	67	0.13	12	0.12

A Moller

Signed

BARRICK

AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 106 — Date: July 31, 1989
Lab ID: 89731-3x — Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
#99501	0.30	99536	0.12	99568	0.33
02	0.25	37	0.23	69	0.18
03	0.27	38	0.19	70	0.16/0.14
04	0.29	39	0.19	71	0.18
05	0.25	40	0.15/0.19	72	0.12
99509	1.74	41	0.11	73	0.11
10	0.21/0.19	42	0.16	74	0.10
11	0.28	43	0.22	75	0.11
12	0.23	44	0.11	76	0.11
13	0.21	45	0.15	99586	0.07
14	0.28	46	0.61	87	0.08
15	0.25	47	0.11	88	0.05
16	0.20	48	0.09	89	0.06
17	0.20	49	0.09	90	0.22/0.20
18	0.21	50	0.10/0.10	91	0.09
19	0.26	51	0.11	99596	0.06
20	0.16/0.17	52	0.13	97	0.07
21	0.11	53	0.08	98	0.11
22	0.15	54	0.10	99	0.12
23	0.13	55	0.14	99600	0.06/0.06
24	0.13	56	0.05	01	0.10
25	0.17	57	0.06	02	0.09
26	0.16	58	0.08	03	0.08
27	0.14	59	0.23	04	0.07
28	0.11	60	0.31/0.27	05	0.17
29	0.14	61	0.54	06	0.09
30	0.14/0.11	62	0.24	07	0.10
31	0.09	63	0.22	08	0.08
32	0.15	64	0.15	09	0.05
33	0.56	65	0.18	10	0.07/0.07
34	0.14	66	0.15	11	0.13
35	0.13	67	0.13	12	0.12

A Miller

Signed

BARRICK

AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 82
Lab ID: 89731-2x

Date: July 31, 1989
Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
99613	0.14	99645	0.11	99506	0.45
14	0.11	46	0.06	07	0.84
15	0.16	47	0.17	08	0.24
16	0.10	48	0.06	99577	0.09
17	0.11	49	0.07	78	0.10
18	0.12	50	0.06	79	0.10
19	0.11	51	0.10	80	0.08/0.10
20	0.22/0.18	52	0.13	81	0.11
21	0.12	53	0.06	82	0.08
22	0.09	54	0.07	83	0.07
23	0.09	55	0.14	84	0.09
24	0.10	56	0.58	85	0.13
25	0.11	57	0.26	99592	0.08
26	0.16	58	0.13	93	0.16
27	0.17	59	0.14	94	0.14
28	0.08	60	0.12	95	0.12
29	0.08	61	0.22		
30	0.07/0.07	62	0.14		
31	0.05	63	0.20		
32	0.08	64	0.19		
33	0.09	65	0.16		
34	0.09	66	0.18		
35	0.05	67	0.13		
36	0.13	68	0.36		
37	0.06	69	0.17		
38	0.08	70	0.14		
39	0.06	71	0.08		
40	0.05	72	0.15		
41	0.05	73	0.09		
42	0.39	74	0.10		
43	0.17	75	0.15		
44	0.09				

Signed

BARRICK

AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine

P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 16
Lab ID: 89731-4x

Date: July 31, 1989
Acct. No.: Exploration

SAMPLE	ppm Cu	ppm Zn
99592	18	37
93	146	47
94	144	496
95	12	174
99578	174	29
80	31	35
81	124	23
82	44	21
83	37	36
84	21	88
85	93	661
99506	104	410
07	79	57
08	42	49
99577	62	12
78	77	17

Signed

Ministry of Northern Development and Mines
Ontario

Ministère du Développement du Nord et des Mines

Drill Core Library

Assay / Section Request

Company: American Barrick Exploration

Representative: Gillian Keanell

Address: Box 1203, Kirkland Lake

Ontario. P2N 3H7

Telephone: (705) 567 - 4941

Sampled from:

Porcupine Mining Division
Drill Core Library
896 Riverside Drive
Timmins, Ontario
P4N 3W2

(705) 267-1401

MNDM HOLE #	SAMPLE INTERVAL (ft / m) From	To	LAB SAMPLE NUMBER	WORK TO BE COMPLETED (Please Circle)
T-669, N-13	19'	24'	99501	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	24	29	99502	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	29	31.4	99503	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	31.4	36	99504	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	36	41	99505	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	41	45	99506	(Au) Ag (Cu) Chem Th.Sec. Pol.Sec. Pb (Zn) As PGE Other:
"	45	50	99507	(Au) Ag (Cu) Chem Th.Sec. Pol.Sec. Pb (Zn) As PGE Other:
"	50	54.5	99508	(Au) Ag (Cu) Chem Th.Sec. Pol.Sec. Pb (Zn) As PGE Other:
"	54.5	59	99509	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	59	64	99510	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	64	68.8	99511	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	68.8	74.7	99512	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	74.7	79	99513	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	79	83	99514	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	83	88	99515	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:

ALL DATA AND MATERIALS TO BE RETURNED BY: Oct. 31, 1989.
(maximum of three (3) months)

Assaying Lab: Holt McDermott Ltd.

Results Returned [ ] Release Date:

Samples Returned [ ] Pulps Returned [ ] Rejects Returned [ ]

I HAVE READ AND HEREBY AGREE TO THE ABOVE AND THE TERMS AND CONDITIONS ON THE REVERSE OF THIS AGREEMENT AND UNDERSTAND THAT I AM BOUND BY THOSE TERMS.

X G. Keanell
(Company Representative)

Authorizing Signature of Core Library Personnel: C. Hall Date: 26-07-89

TERMS AND CONDITIONS:

A) ASSAYS AND CHEMISTRY:

(and other destructive tests)

1) The costs of all assays, tests and shipments of samples will be borne by the client.

2) The assays and/or test results will be released to the client and the Core Library at the same time.

3) The assays and/or test results may be kept "Confidential" for up to three (3) months from the time of sampling if the client requests. The results will then be released to the general public.

4) Pulps and rejects must be returned to the Core Library.

B) SECTIONING:

(or other non-destructive tests)

1) The costs of all sections, tests and shipment of samples will be borne by the client.

2) The sections and/or test results will be the property of the Core Library. The sections and/or test results may be kept "Confidential" for up to three (3) months if the client requests. The sections and/or results will then be released to the general public.

3) The sections are to be examined at the Core Library. It is clearly understood that the Core Library will not be responsible for a section description.

4) Cut-offs and remaining samples are to be returned to the Core Library.

NOTE: ALL MATERIALS BORROWED FROM AN ONTARIO DRILL CORE LIBRARY REMAIN THE PROPERTY OF THE ONTARIO MINISTRY OF NORTHERN DEVELOPMENT AND MINES, AS DO ALL RESULTS AND SECTIONS OBTAINED FROM THAT MATERIAL.

Ministry of Northern Development and Mines
Ontario

Ministère du Développement du Nord et des Mines

Drill Core Library

Assay / Section Request

Company: American Barrick Exploration

Representative: Gillian Keavell

Address: Box 1203, Kirkland Lake
Ont P2N 3M7

Telephone: (705) 567 - 4941

Sampled from:

Porcupine Mining Division
Drill Core Library
896 Riverside Drive
Timmins, Ontario
P4N 3W2

(705) 267-1401

MNDM HOLE #	SAMPLE INTERVAL (ft / m) From	To	LAB SAMPLE NUMBER	WORK TO BE COMPLETED (Please Circle)
T-669, N-13	111.5	114.0	99516	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	146	151	99517	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	151	156	99518	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	156	161	99519	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	161	164.5	99520	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	164.5	169	99521	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
61	169	174	99522	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	174	179	99523	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	179	184	99524	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	184	189	99525	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	234	239	99526	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	300	305.6	99527	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	305.6	310	99528	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	310	314	99529	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	314	318	99530	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:

ALL DATA AND MATERIALS TO BE RETURNED BY: _____
(maximum of three (3) months)

Assaying Lab: _____

Results Returned [ ] Release Date: Oct 31, 1989

Samples Returned [ ] Pulps Returned [ ] Rejects Returned [ ]

I HAVE READ AND HEREBY AGREE TO THE ABOVE AND THE TERMS AND CONDITIONS ON THE REVERSE OF THIS AGREEMENT AND UNDERSTAND THAT I AM BOUND BY THOSE TERMS.

X _____
(Company Representative)

Authorizing Signature of Core Library Personnel: _____ Date: 26-07-89

Ministry of Northern Development and Mines
Ontario

Ministère du Développement du Nord et des Mines

Drill Core Library

Assay / Section Request

Company: American Barrick Exploration

Representative: C. Maxwell

Address: Box 1803, Kirkland Lake, Ont.
P2N 3M7

Telephone: (705) 567-4941

Sampled from:

Porcupine Mining Division
Drill Core Library
896 Riverside Drive
Timmins, Ontario
P4N 3W2

(705) 267-1401

MNDM HOLE #	SAMPLE INTERVAL (ft / m) From	To	LAB SAMPLE NUMBER	WORK TO BE COMPLETED (Please Circle)
T-669, N-13	318	322	99531	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	323	328	99532	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	379	384	99533	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	423	428	99534	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	428	432	99535	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	432	435	99536	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	435	440	99537	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	440	445	99538	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	445	451	99539	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	451	456	99540	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	456	461	99541	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	461	466	99542	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	466	471	99543	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	471	476	99544	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	476	480	99545	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:

ALL DATA AND MATERIALS TO BE RETURNED BY: Oct 31, 1989
(maximum of three (3) months)

Assaying Lab: _____

Results Returned [ ] Release Date: _____

Samples Returned [ ] Pulps Returned [ ] Rejects Returned [ ]

I HAVE READ AND HEREBY AGREE TO THE ABOVE AND THE TERMS AND CONDITIONS ON THE REVERSE OF THIS AGREEMENT AND UNDERSTAND THAT I AM BOUND BY THOSE TERMS.

X C. Maxwell
(Company Representative)

Authorizing Signature of Core Library Personnel: _____ Date: 26-07-89

Ministry of Northern Development and Mines
Ontario

Ministère du Développement du Nord et des Mines

Drill Core Library

Assay / Section Request

Company: American Barrick Expl

Representative: Gillian Kennell

Address: Box 1203, Kirkland Lake
Ont P2N 3M7

Telephone: (705) 567 - 4941

Sampled from:

Porcupine Mining Division
Drill Core Library
896 Riverside Drive
Timmins, Ontario
P4N 3W2

(705) 267-1401

MNDM HOLE #	SAMPLE INTERVAL (ft / m) From	To	LAB SAMPLE NUMBER	WORK TO BE COMPLETED (Please Circle)
T-669, N-13	480	485	99546	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	485	490	99547	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	490	493.3	99548	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	493.3	497	99549	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	497	502	99550	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
T-669, N-14	60	65	99551	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	83	87	99552	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	107	112	99553	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	162.4	167.4	99554	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	167.4	172.4	99555	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	172.4	177.8	99556	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	177.8	183	99557	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:

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X G Kennell
(Company Representative)

Authorizing Signature of Core Library Personnel: _____ Date: 26-07-89

Ministry of Northern Development and Mines
Ontario

Ministère du Développement du Nord et des Mines

Drill Core Library

Assay / Section Request

Company: American Barrick Expl.

Representative: Gillian Kearvell

Address: Box 1203, Kirkland Lake
Ont. P0K 1X0

Telephone: (____) ____ - ____

Sampled from:

Porcupine Mining Division
Drill Core Library
896 Riverside Drive
Timmins, Ontario
P4N 3W2

(705) 267-1401

MNDM HOLE #	SAMPLE INTERVAL (ft / m) From	To	LAB SAMPLE NUMBER	WORK TO BE COMPLETED (Please Circle)
T-669, N-9	77	82	99558	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	101	106	99559	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	108	112	99560	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	118	116	99561	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	116	121	99562	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	140	144.7	99563	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	144.7	147.7	99564	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	153.8	157.5	99565	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	179	184	99566	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	184	189.6	99567	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	189.6	195	99568	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	256	261.6	99569	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	261.6	266.6	99570	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	384	389	99571	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	389	394	99572	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:

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Samples Returned [ ] Pulps Returned [ ] Rejects Returned [ ]

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Ontario

Ministère du Développement du Nord et des Mines

Drill Core Library

Assay / Section Request

Company: American Barrick Expl.

Representative: Gillian Kearvell

Address: Box 1203, Kirkland Lake
Ont P2N 3M7

Telephone: (705) 567 - 4941

Sampled from:

Porcupine Mining Division
Drill Core Library
896 Riverside Drive
Timmins, Ontario
P4N 3W2

(705) 267-1401

MNDM HOLE #	SAMPLE INTERVAL (ft / m) From	To	LAB SAMPLE NUMBER	WORK TO BE COMPLETED (Please Circle)
T-669, N-9	394	399	99573	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	399	404	99574	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	404	407	99575	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	407	410.6	99576	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	410.6	415	99577	(Au) Ag (Cu) Chem Th.Sec. Pol.Sec. Pb (Zn) As PGE Other:
	415	420	99578	(Au) Ag (Cu) Chem Th.Sec. Pol.Sec. Pb (Zn) As PGE Other:
	420	425	99579	(Au) Ag (Cu) Chem Th.Sec. Pol.Sec. Pb (Zn) As PGE Other:
"	425	430.5	99580	(Au) Ag (Cu) Chem Th.Sec. Pol.Sec. Pb (Zn) As PGE Other:
	463	468	99581	(Au) Ag (Cu) Chem Th.Sec. Pol.Sec. Pb (Zn) As PGE Other:
	495	500	99582	(Au) Ag (Cu) Chem Th.Sec. Pol.Sec. Pb (Zn) As PGE Other:
	500	505	99583	(Au) Ag (Cu) Chem Th.Sec. Pol.Sec. Pb (Zn) As PGE Other:
	505	510	99584	(Au) Ag (Cu) Chem Th.Sec. Pol.Sec. Pb (Zn) As PGE Other:
"	527.4	532.4	99585	(Au) Ag (Cu) Chem Th.Sec. Pol.Sec. Pb (Zn) As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:

ALL DATA AND MATERIALS TO BE RETURNED BY: Oct 31, 1989
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Assaying Lab: _____

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Authorizing Signature of Core Library Personnel: _____ Date: 26-07-89

Ministry of Northern Development and Mines
Ontario

Ministère du Développement du Nord et des Mines

Drill Core Library

Assay / Section Request

Company: American Ramrock Expl.
Representative: Gillian Kearvell
Address: Box 1203, Kirkland Lake
Ont. P2N 3M7
Telephone: (705) 567 - 4941

Sampled from:

Porcupine Mining Division
Drill Core Library
896 Riverside Drive
Timmins, Ontario
P4N 3W2

(705) 267-1401

MNDM HOLE #	SAMPLE INTERVAL (ft / m) From	To	LAB SAMPLE NUMBER	WORK TO BE COMPLETED (Please Circle)
T-669, N-10	60	65	99586	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	69	74	99587	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	150	155	99588	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	186	191	99589	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	216	220.5	99590	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	268	273	99591	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	273	278	99592	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb (Zn) As PGE Other:
"	278	282	99593	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb (Zn) As PGE Other:
	282	286.3	99594	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb (Zn) As PGE Other:
	286.3	291.3	99595	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb (Zn) As PGE Other:
"	326	331.1	99596	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	331.1	335	99597	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	335	339	99598	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	339	344	99599	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	344	349	99600	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:

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Authorizing Signature of Core Library Personnel: _____ Date: 26-07-89

Ministry of Northern Development and Mines
Ontario

Ministère du Développement du Nord et des Mines

Drill Core Library

Assay / Section Request

Company: American Barrick Expl

Representative: Gillian Kearvell

Address: Box 1203, Kirkland Lake Ont.

Telephone: (705) 567 - 4941

Sampled from:

Porcupine Mining Division
Drill Core Library
896 Riverside Drive
Timmins, Ontario
P4N 3W2

(705) 267-1401

MNDM HOLE #	SAMPLE INTERVAL (ft / m) From	To	LAB SAMPLE NUMBER	WORK TO BE COMPLETED (Please Circle)
T-669, N-10	354.9	359	99601	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	359	364	99602	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	364	369	99603	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	369	374	99604	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	374	379	99605	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	379	384.5	99606	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	384.5	387.3	99607	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
T-669, N-11	35.1	40	99608	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	111.5	116.5	99609	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	209.5	214.5	99610	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	214.5	219.1	99611	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	219.1	221.1	99612	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	221.1	226.1	99613	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	226.1	231.1	99614	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:

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Assaying Lab: _____

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Ontario

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Assay / Section Request

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Sampled from:

Porcupine Mining Division
Drill Core Library
896 Riverside Drive
Timmins, Ontario
P4N 3W2

(705) 267-1401

MNDM HOLE #	SAMPLE INTERVAL (ft / m) From	To	LAB SAMPLE NUMBER	WORK TO BE COMPLETED (Please Circle)
T-669, N-11	23.1	234.0	96615	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	234	238	96616	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	238	242.7	96617	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	242.7	245	96618	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	245	250	96619	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	270	275	96620	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	292	297	96621	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	297	302.2	96622	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	313.5	318.5	96623	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	318.5	323.5	96624	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	342	347	96625	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	370	375	96626	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	390	395	96627	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	410	415	96628	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	427	432	96629	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:

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(Company Representative)

Authorizing Signature of Core Library Personnel: _____ Date: 26-07-89

Ministry of Northern Development and Mines
Ontario

Ministère du Développement du Nord et des Mines

Drill Core Library

Assay / Section Request

Company: American Barrick Expl

Representative: Gillian Reavell

Address: Box 1203, Kirkland Lake Ont

Telephone: (705) 567 - 4941

Sampled from:

Porcupine Mining Division
Drill Core Library
896 Riverside Drive
Timmins, Ontario
P4N 3W2

(705) 267-1401

MNDM HOLE #	SAMPLE INTERVAL (ft / m) From	To	LAB SAMPLE NUMBER	WORK TO BE COMPLETED (Please Circle)
T-669, N-11	447	453	96630	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
T-669, N-11	475	480	96631	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
T12488	80	85	96632	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	175.5	180.5	96633	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	180.5	183.1	96634	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	183.1	186	96635	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	188	193	96636	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	193	197.7	96637	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	197.7	199.7	96638	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	199.7	205	96639	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	231	236	96640	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	285	290	96641	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	305	310	96642	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	325	330	96643	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:

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(Company Representative)

Authorizing Signature of Core Library Personnel: _____ Date: 26-07-89

Ministry of Northern Development and Mines
Ontario

Ministère du Développement du Nord et des Mines

Drill Core Library

Assay / Section Request

Company: American Barrick Expl

Representative: Gillian Keawell

Address: Box 1703, Kirkland Lake Ont.

Telephone: (705) 567 - 4941

Sampled from:

Porcupine Mining Division
Drill Core Library
896 Riverside Drive
Timmins, Ontario
P4N 3W2

(705) 267-1401

MNDM HOLE #	SAMPLE INTERVAL (ft / m) From	To	LAB SAMPLE NUMBER	WORK TO BE COMPLETED (Please Circle)
(669 V8) TI2488	350	355	96644	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	375	380	96645	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	400	405	96646	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	425	430	96647	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	450	455	96648	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	475	480	96649	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
(I-669 N-7) TI2415	230	235	96650	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	255	260	96651	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	285	290	96652	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	315	320	96653	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	334	339	96654	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	339	344	96655	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	344	349	96656	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	349	354	96657	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:

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Ontario

Ministère du Développement du Nord et des Mines

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Assay / Section Request

Company: American Barrick Expl.

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Porcupine Mining Division
Drill Core Library
896 Riverside Drive
Timmins, Ontario
P4N 3W2

(705) 267-1401

MNDM HOLE #	SAMPLE INTERVAL (ft / m) From	To	LAB SAMPLE NUMBER	WORK TO BE COMPLETED (Please Circle)
T-669) TI2415 N-7)	354	359	96658	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	359	364	96659	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	364	369.	96660	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
T-669, N-12	22	27	96661	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	27	32	96662	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	32	37	96663	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	37	42	96664	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	42	47	96665	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	47	50.1	96666	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	50.1	53.5	96667	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	53.5	57.6	96668	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	57.6	63	96669	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	63	68	96670	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
"	68	73	96671	(Au) Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:

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(705) 267-1401

MNDM HOLE #	SAMPLE INTERVAL (ft / m) From	To	LAB SAMPLE NUMBER	WORK TO BE COMPLETED (Please Circle)
T-669, N-12	73	78	96672	[✓ Au] Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	78	83	96673	[✓ Au] Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	83	88	96674	[✓ Au] Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
	95	100	96675	[✓ Au] Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:
				Au Ag Cu Chem Th.Sec. Pol.Sec. Pb Zn As PGE Other:

ALL DATA AND MATERIALS TO BE RETURNED BY: Oct 31, 1989
(maximum of three (3) months)

Assaying Lab:

Results Returned [ ] Release Date:

Samples Returned [ ] Pulps Returned [ ] Rejects Returned [ ]

I HAVE READ AND HEREBY AGREE TO THE ABOVE AND THE TERMS AND CONDITIONS ON THE REVERSE OF THIS AGREEMENT AND UNDERSTAND THAT I AM BOUND BY THOSE TERMS.

x G Kearvell
(Company Representative)

Authorizing Signature of Core Library Personnel:

Date: 26-07-89

Page 13 of 13

DDH [illegible] 10,250 meas. from west Kenogaming twp line.

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-7 | PAGE NO. 1

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH: 159°	TOTAL FOOTAGE: 400'	DIP OF HOLE AT: collar | -45°
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY: Gillian Leavell		ft | °
EXPLORATION CO., OWNER OR OPTIONEE: Freeman Barrick Expl.		DATE SUBMITTED	SUBMITTED BY (Signature)		ft | °
					ft | °
					ft | °

LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: Kukatush Mining Corp. 1052 DDH on Claim # 108416

MAP REFERENCE NO.

CLAIM NO.

LOCATION (Tp., Lot, Con. OR Lot. and Long.): Kenogaming Twp

PROPERTY NAME: Sewell – Reeves

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	18	Casing								
18	36.2	Talc-Chlorite-Schist.								
36.2	79.2	Olivine Diabase								
79.2	214.0	Talc-chlorite schist								
214.0	241.7	Cherty, pyritic sediments								
241.7	301.2	Felsic lava								
301.2	375	Intermediate Volcanics								
			Box 375 to 400' missing → Maybe at Kukatush — check							
			Samples # 99650 – 99660 = 11							

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO.	PAGE NO.
N-7	2

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar °			
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY		ft °		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
				ft °			
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)		ft °		PROPERTY NAME	
				ft °			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	18	Cao								
18	36.2	Talc-chlorite schist	DK Hgy, vfg schist. Varies from soft to hard downsection. The unit is well foliated @ ma 40-70 dtca The unit is poorly mineralized veined (1-2% Po) It is magnetic and easily fg mixed Biotite and talc are strong throughout.							
			[illegible] hard. It is rarely cut by a one inch diabase finger along 15 dtca							
			(28.9-29.9): Pinkish brown discoloration. Magnetic with 1-2% d Py							
			(32.0-36.2): Increasingly hardened and blackened section - Baked							
36.2	79.2	Olivine Diabase	DK gngy, fmg, hard, porphyritic diabase. 10% coarse, dunn-green, corroded olivine phenocrysts or aggregates are supported in a massive, strongly magnetic, mafic matrix. Jointed 1% vf lg dt. Contacts are sharp at 60 dtca							

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

Ontario

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO.	PAGE NO.
N-7	3

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar			
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)		ft			
				ft		PROPERTY NAME	
				ft			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +		
79.2	219.0	Talc-Chlorite Schist	Ditto 18.0-36.2'. Magnetism decreases downsection untill after 128' where it is non-magnetic. Also after 128' the unit becomes [illegible] ank and ankerite [illegible] [illegible] [illegible] [illegible] [illegible] typical [illegible] [illegible] [illegible] Talc [illegible] at 60-70 dtca and is [illegible] contorted. [illegible] mica is sparse [illegible] The [illegible] [illegible] [illegible] [illegible] by a diabase dike. (147.0-160.0): Blocky to gravelly core. Note minor gouge and fault breccia. At least 6ft of core is lost from this section. (190.0-191.0): Lost core → grinding (196.5-197.3): Note a reddish brown [illegible] altn along with 25% fg carbonate porphyroblasts. Magnetic. Tr Po Py is scattered. (198.0-200.0): Lost core → grinding. (216.7-218.6): Diabase dike. Vfg, dk gr gy; strongly mag. Tr. Olivine phenocrysts. Contacts at 70 dtca									

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. W-7 | PAGE NO. 4

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT °	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar			
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY		° ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)		° ft ° ft ° ft		PROPERTY NAME	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au(g)
219	241.7	Cherty, felsic Sediments	- Previously split Hard, non-magnetic well laminated light grey and black (carbonaceous locally graphitic). Beds are frequently fragmental. Bedding essentially parallels fabric at 60°, 70° d.t.c.a. No apparent veining. Fine grained fragments semi-massive aggregates and rounds parallel the bedding (primary?) Fragments rarely exceed 5% of the beds.								
			(228.0 - 228.0) Felsic dike(?) Yellowish beige well foliated and sericitic.								
			(230.0 - 235.0): Typical sediments. Type samples 5% py oxide			99650	230	235	5	Test	0.06
						51	255	260	5	"	0.10
241.7	321.2	Iron Fm	Oxide to Sulfide facies - Previously split Essentially the same sediments as the preceding unit which suddenly shows interbedded Mt with variable Po and Py content. Bedding remains at 60 to 70 d.t.c.a. The odd 2 to 3 inch barren qtz + tuff cuts bedding. The lower contact is transitional through a hard, chloritic, fragmental and garnet bearing section.			52	285	290	5	"	0.13
						53	315	320	5	"	0.06
			(241.7 - 278.0): Predominantly oxide facies Note a mafic (volcanic?) unit from 270.6 - 271.7.								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO.	PAGE NO.
N-7	5

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		collar ft ft ft ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)				PROPERTY NAME	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au (g)
			(278.0 – 303.0) Predominantly sulfide facies with broad sections of massive Py and Po, as well as mt. interbedded with grey chert (mixed).								
			(303.0 – 321.2): Transitional section. Dark green, hard chl material supports 10-15% DK grey chert fragments. The section is magnetic. 5-8% Coarse to fine blebs of garnet are dt → spotty texture. The lower contact is sharp at 65 dtca			99654	334	339	5	VS	0.07
						55	334	339	5		0.14
						56	344	349	5	Fe-carb bleached	0.58
						57	349	354	5		0.26
						58	354	359	5		0.13
						59	359	364	5		0.14
						60	364	369	5	VS	0.12
321.2	375	Intermediate Volcanic	DK gy, aphanitic, siliceous lavas alternate with chl, garnet-bearing lavas as in 303.0 – 321.2' Trace pyrite are disseminated in the volcanic. Silicification decreases down section with increasing chlorite. The unit is mody well foliated at 50 dtca avg. Fe-carbonate bleaches a random hairline fracture network pale beige. Non-mag. Tr Py is d in the volcanics, 1-2% Py and Po occur within the chl bands.								
			(339.0 – 360.0): Strongly Fe-carb bleached section mody sericitic. Bleaching follows a weak veining along 10 dtca. The veins are mm and filled with Py, qtz and Fe-carb. Wider smoky qtz with strongly pyritic wallrock also crosscut the section. Core is previously split								
						Nde	from	375	– EOH core is missing		

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

DDH lies south of claim 957257

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO. N-8 — PAGE NO. 1

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH: 159°	TOTAL FOOTAGE: 491	DIP OF HOLE AT: collar | -45°
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY: Gillian Rearell		ft | °
EXPLORATION CO., OWNER OR OPTIONEE: American Barrick Exp		DATE SUBMITTED	SUBMITTED BY (Signature): G.K		ft | °
					ft | °

LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: Kukatush Mining Corp. Core. - 1962 Claim 109727

MAP REFERENCE NO.

CLAIM NO.

LOCATION (Tp., Lot, Con. OR Lat. and Long.): Kenogaming Twp

PROPERTY NAME: Sewell - Reared

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	53	Cas								
53	226	Tal-Chlorite-Carbonate Schist								
226	250	Siliceous Dike (vein?)								
250	264.8	Iron Fm (?)								
264.8	269.1	Gabbro								
269.1	456.5	Iron Fm								
456.5	491	Siltstone								
491		EOH								

Samples: 99632 - 99649 = 18

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-8 | PAGE NO. 2

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar			
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)		ft / ft / ft		PROPERTY NAME	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au(g)
0	53	Coa									
53	286	Talc-chlorite-carbonate schist									
			Dark or to gray, soft, very finely schistose to gneissic. A well developed foliation averages 70 d+ca. 10-15% creamy white, rim carbonate and quartz-carbonate veinlets parallel foliation giving a lamellar texture. White carbonate streaks and specks are probably [illegible] to 128 ft where it becomes anhedral [illegible] where magnetism disappears. Tr fly blebs are d t, possibly with a rim of Po.								
			The odd white to smokey quartz-calcite vein truncates foliation at 90 d+ca. They average 1 to 3 inches wide and are barren.								
			(80-85): Test sample. Mag. alt with a 3" qv. Tr fly			99632	80	85	5	Mag alt	0.08
			(110.0-110.8): Lost core.								
			(130-135.8): Lost core								
			(140-144.6): Lost core.								
			(175.5-180.5): Test, wallrock to dike. N mag alt. Tr fly.			33	175.5	180.5	5	Mag alt	0.09
			(180.5-183.1): Siliceous dike(?) 15% euhedral pyroxene 'sticks' and ironish phenocrysts with 1-2% euhedral biotite phenocrysts are random oriented within a fine grained grey silica matrix. 10% vf cubic fly is d t.			34	180.5	183.1	2.6	Siliceous dike	0.09
						35	183.1	188.0	4.9	Alt, Siliceous	0.05
						36	188	193	5	Alt + Pyrite	0.13
						37	193	197.7	4.7		0.06
						38	197.7	200.7	2	Pyritic Alt	0.08
			(183.1-184.0): Talc-chl-carbonate schist			39	199.7	225	5.3		0.06
			(184.0-188.0): Mody hard, strongly chlc, dark gn, vfg section. Contact are gradual. 1% fly d t. as fmg cubes. The section has 5% siliceous fragments similar to the rest of fly 180.5-183.1',								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. N-8 | PAGE NO. 3

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
					collar			
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
					ft			
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft		PROPERTY NAME	
					ft			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au(g)
			(188.0 - 193.0): Talc-chlorite schist. From 192.1 to 192.9 is an aggregate of coarse cubic to massive Py and (+10%) Py in a siliceous and chl matrix.								
			(193.0 - 226.0): Pyritic Talc-chlorite schist. Concentrations of fg Py (+10%) occur sporadically. Note a vein(?) with fg Py at 194.8 - 195.0'. The section from 197.7 to 199.7 is broken pieces split. The section from 225.0 to 226.0' has been [illegible] contact appears sharp and irregular (intrusive?) Cannot be resampled.								
226.0	250.0	Siliceous Dike (? intrusive?)	Grey, aphanitic, intensely siliceous rock. Minor mafic specks are disseminated. The unit is weakly foliated defined by fine sericite streaks along 40 deg to a. 5% white quartz veinlets, from 1/4 to 1/2 inch wide, occur fairly randomly distributed. The veins are barren. The unit is nonmag. Tr-1% Py is d t.			09640	231	236	5	Siliceous dike(?)	0.05
250.	264.8	Iron Fm?	Quartered core. Fragments consist of strongly massive sulfides (Po, Py, tr Cpy), with grey siliceous material (chert). Some fragments are laminated with a black, probably carbonaceous, material. Note a sample(?) number 735 at 259 ft. Cannot be resampled.								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO. N-8 — PAGE NO. 4

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)	ft		PROPERTY NAME	
				ft			
				ft			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au(g)
264.8	269.1	Gabbro dike	Dark gr mg, mod. hard. 20-30% white plagioclase (fg)								
			is interstitial to the chlc amphiboles. Massive								
			Nonmagnetic. 1-2% fg cubic Py is dt.								
			Contacts are sharp → occur in split core								
269.1	456.5	Iron Fm	All previously split.								
			Massive Po and Py bands are [illegible] with								
			dk gr to gr chert with occasional calcareous and/or								
			[illegible] bands. Strongly magnetic.								
			Bedding appears to be about 40-45 dtca.								
			[illegible]								
			432'. These layers have rounded mg blebs of red brown			99641	285	290	5	Test F	0.05
			garnet dt → Metamorphic grade starts to get too high!								
			The lower contact is gradational through a section of			42	305	310	5	"	0.39
			garnetiferous, chlc material, interbedded with blackish cherts and grey siltstone.								
						43	325	330	5	"	0.17
			(272.6 – 282.1): Porphyritic Granodiorite.								
			25% white, corroded plagioclase phenocrysts and			44	350	355	5	"	0.09
			1-2% biotite altered amphibole phenocrysts are supported								
			in a vfg grey siliceous to felsic matrix. Only rare Py			45	375	380	5	"	0.11
			specks are dt.								
						46	400	405	5	"	0.06
			(285.0 – 290.0): Banded Mt and chert								
						47	425	430	5	"	0.17
			(305 – 310.0): Massive Py with lesser Po also occur.								
						48	450	455	5	"	0.06
			(325 – 330): Mostly chert with bands of Mt, Py and Po								
			(350 – 355): Massive Mt with Po and Py								
			(375 – 380): Ditto 350-355 with more cherty sections								
			(410 – 415): Massive Py and Mt with lesser Po and chert.								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO. N-8 — PAGE NO. 5

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
					collar			
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft		PROPERTY NAME	
					ft			
					ft			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au(g)
			(130-435): Gradational change to chl'c and chert'y bands. Garnets appear.								
			(445-456.5): Garnetiferous chl'c transition zone. Frequent chl'c and garnet bearing layers and laminae with minor interlayered blackish cherts and grey siltstone. Strongly magnetic owing to minor Py and Po mica.								
456.5	471.0	[illegible]ace	Core grey, hard, [illegible] laminated sediments [illegible] between dark grey silty to argillaceous layers and grey to blackish chert layers. Minor garnetiferous chloritic layers occur. Bedding averages 50 to 60 d to ca and is essentially parallel with foliation. The unit is unlineated and poorly mind with only the odd speck of disseminated Py. The rocks are non-magnetic except in the chl'c layers. Minor white quartz occurs in mm ff.			[illegible]	[illegible]	[illegible]	>	54	0.07

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Drill hole lies south of claim 467255

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-9 | PAGE NO. 1

DRILLING COMPANY: —	COLLAR ELEVATION: —	BEARING OF HOLE FROM TRUE NORTH: 160°	TOTAL FOOTAGE: 561'	DIP OF HOLE AT: collar | -45°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: Kukatush Mining Corp. 1352 Drill Core; Old Claim 109712
DATE HOLE STARTED: July 25, 1962	DATE COMPLETED: July 30, 1962	DATE LOGGED:	LOGGED BY: Gillian Kearvell	ft | °	MAP REFERENCE NO.:
EXPLORATION CO., OWNER OR OPTIONEE: American Barrick Expl.	DATE SUBMITTED:	SUBMITTED BY (Signature): G. Kearvell	ft | °	ft | °	CLAIM NO.:
				ft | °	LOCATION (Tp., Lot, Con. OR Lat. and Long.): Kenogamisis — PP
					PROPERTY NAME: Sewell - Reeves - P177

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION (Colour, grain size, texture, minerals, alteration, etc.)	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	46	Cas								
46	127	Overburden								
127	157.5	Ultramafic								
157.5	261.6	Altered Ultramafic ?								
261.6	410.6	Conglomerate								
410.6	538.6	Silicate Iron Fm.								
538.6	541.6	Sheared Tuff (?)								
541.6	561.0	Ultramafic								
561.0		EOH								
			Samples: 99558 - 99585 = 28							

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

Ontario

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO. N-9 — PAGE NO. 2

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
	—	160°	561	collar -45			

DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED / RELOGGED	LOGGED BY	DIP OF HOLE AT	LOCATION (Tp., Lot, Con. OR Lat. and Long.)
July 25, 1962	July 30, 1962	July 11, 1989	Gillian Kearvell	ft	

EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	DIP OF HOLE AT	PROPERTY NAME
American Barrick Exp'l.		G Kearvell	ft / ft / ft	Sewell-Reeves P177.

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION (Colour, grain size, texture, minerals, alteration, etc.)	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au (g)		
0	46	Cas	For this log, refer to T669, DD# N-9 log									
46	127	Granodiorite	Pink to gy, hard, mg, equigranular intrusive. Foln varies from 30 to 50 d to ca. Tr. only qvg as void fill. The unit is non-magnetic. Tr-1% Vf Py [illegible]. The granodiorite is interlayered with numerous [illegible] [illegible] talc-chlorite-ankerite schist. [illegible]									
			(77.0 - 82.0): Pink syenite. Tr Py, tr QV. Test			99558	77	82		0.08		
			(101.0 - 106.0): Grey syenite. Tr Py, tr QV. Test			59	101	106		0.23		
			(108.0 - 112.0): Gy syenite. Wallrock to sulfide zone.			60	108	112.0		0.29		
			(112.0 - 116.0): Gy syenite [illegible] 3% qvg. Massive Py from 114.1 - 115.0'			61	112.0	116.0		0.54		
			(116.0 - 121.0): Gy Syenite. Wallrock to sulfides ± QV			62	116.0	121.0		0.24		
127	157.5	Ultramafic	Talc-Chlorite-ankerite schist. DK blgy, vfg, soft, schistose. Foln at 50 d to ca. 20-25% creamy wt, mm ankerite veinlets form discontinuous knots and lenses deformed with foliation. [illegible] qtz occurs in these veinlets. The odd wt qv, from 1 to 2 inches wide truncates foln locally. They are barren. The unit is non-magnetic & poorly Py min'd → virtually barren									
			(140.0 - 144.7): Typical Ultramafic. Test			63	140	144.7		0.22		

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO.	PAGE NO.
N-9	3

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar °			
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY		ft °		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)		ft °		PROPERTY NAME	
				ft °			
				ft °			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au (g)
			(144.7-147.7): Diabase? Strongly magnetic, hard, vfg, dk gn black mafic dike. Not calcareted (or veining) (amphibole) 10-15% fine black mafic phenocrysts are supported in a greener matrix			99564	144.7	147.7		0.15
						65	153.8	157.5		0.18
			(152.8-154.3): Contact: Dike 144.7-147.7'							
			(154.3-157.5): Lower contact Ultramafic							
157.5	261.6	Altered Ultramafic? with feldspar porphyry	See description in original log N-9 (T669) Grey, mody hard to hard, vfg, dense. Mottled with pale green blotches and foliation lamellae (contorted). Relict carbonate veining textures, now hardened, occur throughout the section. The unit appear to have been ultramafic to mody serd and sild. The interlayered feldspar porphyries appear to have truncating, sharp contacts. 25-35% 6y to wt, mg Plagioclase phenocrysts (with minor transparent quartz phenocrysts) are supported in a grey, basic, aphanitic matrix. Truly is d in the dike. The "ultramafics" are virtually barren. Both rock types are non-magnetic							
			(179.0-184.0): Altered Ultramafic			66	179	184		0.15
			(184.0-189.6): Feldspar porphyry			67	184	189.6		0.13
			(189.6-195.0): Altered Ultramafic			68	189.6	195.0		0.33
			(256.0-261.3): Altered contact with granodiorite			69	256.0	261.3		0.18

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-8 | PAGE NO. 4

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar °			
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	ft °		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)	ft °		PROPERTY NAME	
				ft °			
				ft °			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION (Colour, grain size, texture, minerals, alteration, etc.)	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au (g)		
261.6	410.6	Granodiorite	Same as 46.0'-127.0'. Mottled grey and pink. The qtz content is higher, the colour is bluer. Varies fine to mg with occasional feldspar phenocrysts. Foln is very wy developed, averaging 50 to 60 dtca. [illegible] Random [illegible] and [illegible]. The [illegible] is non-magnetic. Trace amounts of very fine Py are common throughout. The unit is interlayered with several [illegible] mafic or ultramafic sections (xenoliths?, dikes a.k.a 144.7-147.7'). They are [illegible] dk [illegible] well fold [illegible] [illegible]. The lower contact is sharp at 60 dtca									
			(261.6-266.6): Upper contact. Tr. Py. Test			99570	261.6	266.6		0.15		
			(269.5-272.0): Mafic section. Mag, tr. Py. Well foliated									
			(297.8-298.3): Mafic section. Strongly mag. Tr. Py.									
			(305.4-308.0): Mafic section. Non-mag. Tr. Py									
						71	384	389	5	0.18		
			(335.0-358.8): Ultramafic. Ditto 127.0-157.5. Grain size varies from finely schistose (and [illegible]) to mg (hybridized). Wy calcitic			72	389	394	5	0.12		
						73	394	399	5	0.11		
			(360.0-362.2) Mafic section. Strongly mag. 3-4% Py									
			(373.3-374.3) Mafic section. Strongly mag. 2% Py, Tr. Garnets(?)			74	399	404	5	0.10		
						75	404	407	3	0.11		
			(387.8-390.5): Wy laminated. Variably seric and chlc. 1% Py			76	407	410.6	3.6	0.11		
			(394.6-396.0): Mafic section. Strongly magnetic. Semi-massive Py.									

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-9 | PAGE NO. 5

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar			
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)		ft		PROPERTY NAME	
				ft			
				ft			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au (g)	Cu (g)	Zn (g)
410.6	538.6	Sulphide Iron Fm	Layered with gy to dk gy cherty carbonaceous argillite, and massive sulfide layers. Layers can vary from less than 1 inch, up to 30 feet of massive sulfides. Layering ang. 45-55 dto. It is also tightly folded spare to the contacts. Sulfides are mostly pyrrhotite with lesser Py. Cpy and Sph may be present in trace amounts. Magnetite is common throughout. Sections of massive sulfides have been previously sampled. No assays are available. See the 1967 log. The lower contact is gy intermixed and silicified									
(410.6 - 415.0)			Dk gy cherty carbonaceous argillite with 10% fine grained Py+Po stringers. Sty mag. Some narrow chlc layers			77	410.6	415		0.09	62	12
(415 - 420)			Ditto 410.6 - 415.0' with 1 ft of massive sulfides.			78	415	420		0.10	77	17
(420 - 425)			Ditto 410.6 - 415.0' with 2 ft of massive sulfides			79	420	425		0.10	174	29
(425 - 430.5)			Granodiorite. 2 1" wide massive Py+Po bands			80	425	430.5		0.09	31	35
(463 - 468)			Massive Py+Po.			81	463	468		0.11	124	23
(495 - 500)			Massive Po+Py. Tr Cpy + Sph (?). 1" wt qv.			82	495	500		0.08	44	21
(500 - 505)			Massive Po+Py. Tr. Cpy + Sph (?).			83	500	505		0.07	37	36
(505 - 510)			Mostly gy chert with Py+Po stringer. 6" of massive sulfides			84	505	510		0.09	21	88
						85	527.4	532.4		0.13	93	661
(527.4 - 532.4)			Ditto 505 - 510									

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. N-9 | PAGE NO. 6

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
					collar			
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
					ft			
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft		PROPERTY NAME	
					ft			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
538·6	541·6	Sheared Tr.(?)	DK gy, vfg hard siliceous to cherty Foliated at 60 to 65 dtca Tr-1% fg dk. Nmag Unveined except at the upper contact. The lower contact is sharp at 65 dtca							
541·6	561	Ultramafic	DK gn to dk gy, mody soft to mody hard. Fg to aphan. [illegible] Tr-1% secondary [illegible] Non-magnetic Tr-1% secondary [illegible] The unit is intruded by a grey granodiorite typical of the granodiorite throughout the hole.							
			(545-553): Granodiorite.							
561		EOH								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO. N-10 — PAGE NO. 1

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM
	—	170° 30'	485.7'	collar 45°	Kukatush Mining Corp. claim # 109709.
DATE HOLE STARTED: July 7, 1962	DATE COMPLETED: July 12, 1962	DATE LOGGED: July 12, 1989	LOGGED BY: Gillian Kearsell	ft	
EXPLORATION CO., OWNER OR OPTIONEE: American Barrick Expl.		DATE SUBMITTED	SUBMITTED BY (Signature): G Kearsell	ft	
				ft	

MAP REFERENCE NO.

CLAIM NO. 966363

LOCATION (Tp., Lot, Con. OR Lat. and Long.): Kenogamisis Twp

PROPERTY NAME: Sewell - Reeves

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	55	Cap								
55	69	Granodiorite								
69	145	Sediments								
145	220.5	Sediments, intr	Intermediate volcanics (?)							
220.5	300.0	Dacite								
300.0	485.7	[illegible]	[illegible]							
485.7		EOH								
			Samples: 99586 - 99607 = 22							

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

Ontario

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO.: N-10 — PAGE NO.: 2

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar			
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)	ft			
				ft		PROPERTY NAME	
				ft			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au (g)
0	55	Csg									
55.0	69.0	Granodiorite	Typical of granodiorite described (see N-9). Dk gy, hard, fmg, unveined. Minor qc ff. A weak foln is defined by an alignment of chloritized mafic(?) [illegible]. Fdn = 50 dtca. Non magnetic. 2% vf to fg cubic Py in dt.								
			(60.0-65.0): Test sample			20586	60	65	5'	Test	0.07
69.0	145		[illegible] slate. Very hard, greyer bands are cherty. Non-magnetic. Cm lamellae vary 25 to 90 dtca. Note faint intrafolial folding. Lamellae are frequently finely granular to silty. 2% Filiform Py stringers parallel lamellae / foln locally, otherwise only trace of Py occur. The rocks are relatively fresh and unaltered.								
			The sediments are interlayered with narrow [illegible] layers and with strongly silicified felsic intrusive(?) rocks. Using the old logs break down (the log was well done).								
			(69.0-71.5): Black slate, interbedded gy chert. 2% Py.			20587	69	74.0'	5'	Test	0.08
			(71.5-72.0): Chloritic schistose section. Hard. Tr Py								
			(72.0-74.5): Slates ditto 69-71.5'.								
			(74.5-75.5): Ditto 71.5-72.0.								
			(75.5-78.0): Ditto 69.0-71.5.								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

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Ontario

THE MINING ACT — MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO. N-10 — PAGE NO. 3

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.

DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	ft	LOCATION (Tp., Lot, Con. OR Lat. and Long.)

EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	ft / ft / ft	PROPERTY NAME

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au (g)	
			(78.0 - 94.5): Talc-chlorite schist. vfg to granular. 2-3% clay' parallel foliation. Wy calcitic. Non-magnetic. Trace to [illegible] sulfides. Minor black [illegible] lamellae.									
			(94.5 - 125.0): B[illegible] slates ditto 60.0-71.5'. The black lamellae decrease rapidly down section. After 100' lamellae are most [illegible] with 10% carbonaceous lamellae. Interbedded [illegible] are probably the [illegible] described in the 1962 log.									
			(125.0 - 143.3): Talc-[illegible] schist, [illegible]. The unit is initially soft but grades to very hard and silicified after '30.0'. A few relict carbonate veins are present after 130.0' → Basalt?									
			(143.3 - 145.0): Black slate, 2% Py stringers. Very hard.									
145.0	220.5	Intercalated Sediments and Dacitic Volcanics (intrusives??)										
			The same carbonaceous to cherty sediments described above, are intercalated with vf to aphanitic, wy porphyritic intermediate rock. Contacts are concordant with bedding									
			(145.0 - 158.3): The "Felsite" as described in the 1962 log. The feldspar phenocrysts are [illegible] in size and [illegible] down section → 5% to 15%. Silicification (induration) is intense. The unit is [illegible] and poorly mineralized with rare Py specks. Contacts are sharp at 50° to ca. Probably a dacitic volcanic			99588	150	155	5	Test.	0.05	

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

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THE MINING ACT – MINISTRY OF NATURAL RESOURCES

Ontario

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-10 | PAGE NO. 4

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar °			

DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	ft °	LOCATION (Tp., Lot, Con. OR Lat. and Long.)

EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	ft °	PROPERTY NAME
			ft °	
			ft °	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au(g)
			(158·3–159·7): Lamprophyre? Biotitic Mafic dike? Dk brown to black. Mody calcitic non-magnetic. Sharp contacts at [illegible] dtca. Hard.								
			(159·7–162·3): Ditto 145·0–158·3 The lower contact is apparently a shear laminated								
			(162·3–163·8): Lamprophyre? Ditto 158·3–159·7								
			(163·8–191·4): Dacitic Volcanic intercalated with narrow sections of black [illegible] and relatively unaltered [illegible] siliceous and [illegible] vfg. [illegible] minor random gy' cut fol. Fol = [illegible] dtca. Contacts are concordant.			99589	186	191	5	VS bens	0.06
			(191·4–216·0): Sediments. Ditto 69·0–145'. A narrow granodiorite occurs at 202·8–206·2'.								
			(216·0–220·5): Ironstone? Narrow section of poorly banded fragmental gy cherts and semi-massive Py and Po. Minor carbonaceous material coats fractures. Gravel.			90	216·0	220·5	5·5	F3	0.21
220·5	344·0	Dacite	Dk gy, hard, aphanitic. Porphyritic with 10–15% Gy wt plagioclase crystals averaging 2–4mm long. The plagioclase form good tabular lathes and also lensoid eyes stretched along foliation. 1–2% mg, well rounded blue quartz eyes are randomly distributed. Foliation averages 50dtca. The unit is non-magnetic and relatively barren other than the odd speck of vf Py. Random hairline fractures are bleached pale green. Narrow, mg sections have diffuse but abrupt contacts. These are probably narrow granodiorite dikes								

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Ontario

THE MINING ACT — MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-10 | PAGE NO. 3

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar ° / ft ° / ft ° / ft ° / ft	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY			
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)			

MAP REFERENCE NO. | CLAIM NO.

LOCATION (Tp., Lot, Con. OR Lat. and Long.)

PROPERTY NAME

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au (g)	Cu (g)	Zn (g)
			Phenocrysts are increasingly stretched and strongly deformation. Possibly an intrusive unit.										
			(220.5 – 255.0): Porphyritic Dacite. Note the odd milky qz-bearer.										
			(255.0 – 262.0): Granodiorite. Massive, mg, equigranular Dk gy.										
			(262.0 – 273.0): Porphyritic Dacite. Intermediate Altered.										
			(273.0 – 274.5): Interflow sediment? Ironstone. Poorly bedded, fragmental. Dk gy to gy cherty material interspersed with semi-massive Py+Po stringers and bands, fragments and fragments. Minor calcareous material.			9959	268	273	5	BVS	0.09		
						98	273	278	5	F3/BVS	0.08	18	37
						93	278	282	4	F3	0.16	146	47
						94	282	286.3	4.3	F3	0.14	144	496
						95	286.3	291.3	5	BVS	0.12	12	174
			(274.5 – 278.0): Porphyritic Dacite. Ditto 262.0 – 273.0'. Phenocrysts are virtually absent										
			(278.0 – 286.3): Interflow sediment? Ditto 273.0 – 274.5'.										
			(286.3 – 296): Dacite. Hard, paler grey, aphanitic. Siliceous. The upper contact is porphyritic to 283', after which it is non porphyritic and mostly well foliated. Narrow black (carbonaceous?) beds occur. (Fragments? xenoliths?)										
			(296.0 – 299.6): Granodiorite; Ditto 255.0 – 262.0'.										
			(299.6 – 304.0): Dacite. Ditto 286.3 – 296.0'.										

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Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-10 | PAGE NO. 6

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	collar		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)	ft / ft / ft / ft		PROPERTY NAME	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au (g)
			(304.0– 308.2): Lamprophyre. Ditto 158.3-159.7.								
			(308.2– 313.6): Granodiorite. Ditto 255.0- 262.0'								
			Contacts are sharp at 40/35 dtca								
			(313.6- 329.8): Dacite Ditto 262.0-273.0'								
			Random [illegible] fractures "[illegible]" [illegible]								
			(329.8- 331.1): Black shale.			22596	326.0	331.1	5.1	45/54	0.06
						97	331.1	335	3.9	7mind	0.07
			[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.11
			Gn to ygn, mod. carb. Injected with 5-10% wt			99	339	344	5	15-16% qvg	0.12
			qv' along foliation at 60 dtca. 2-3% Massive			600	344	349	5	ID	0.06
			Py + Po stringers parallel foliation, up to 5% locally.								
344.0	485.7	Interlayered	DK gy gn vfg porphyritic andesite (10-15% Mafic phenocrysts)								
		Ironstone and	are interlayered with sulfide ironstone layers. Several								
		Andesite Volcanics	grey granodiorites intrude the section.								
		Some Granodiorite	Foliation – bedding at angles 50 to 60 dtca.								
			The granodiorites are non-magnetic and have tr. Py dt.								
			The andesites are also non-magnetic but have 2% of cubic								
			Py dt.								
			The ironstones are rich in Py and Po and are strongly								
			magnetic. Contacts are obscured in the mostly split core.								
			(344.0 -352.5): Granodiorite								
			(352.5- 354.9): Ironstone. [illegible] cherty lamellae occur with								
			thin carbonaceous lamellae & massive [illegible]								
			stringers								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\+ Additional credit available. See Assessment Work Regulations.

THE MINING ACT — MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Ontario

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO. N-10 — PAGE NO. 7

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar / ft / ft / ft / ft			

DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	LOCATION (Tp., Lot, Con. OR Lat. and Long.)

EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	PROPERTY NAME

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH		ASSAYS + Au (g)
			(354.0-359.0) Granodiorite								
			(359.0-370.0): Massive Sulfides with cherty fragments throughout. Py+Po ironstone.								
			(370.0-384.5): Ironstone. Gy and Pale gy Chert is [illegible] [illegible] of massive Po+Py. [illegible] [illegible] is present.			99601	354.9	359	[illegible]	ID	0.10
						2	359	364	5	massive	0.09
						3	364	369	5	Su.	0.08
			(384.5-387.3) Porphyritic Andesite. The mafic [illegible] chloritised amphiboles			4	369	374	5		0.07
						5	[illegible]	[illegible]	[illegible]	[illegible]	0.17
						6	379	384.5	5.5		0.09
						7	384.5	387.3	2.8	FV6	0.10
			(387.3-398.7): Ironstone								
			(398.7-425.5): Porphyritic Andesite								
			(425.5-427.0): Mafic chloritic dike. Hard, gn, vfg, mag. 2-3% Po+Py stringers cut fola.								
			(427-429.0): Porphyritic Andesite								
			(429.0-430.7): Ironstone								
			(430.7-437.0): Granodiorite to diorite [illegible], Tr Py								
			(437.0-443.9): Cherty ironstone								
			(443.9-455.5): Granodiorite, porphyritic with 5 to 25% wt Plag								
			(455.5-457.7): Ironstone.								
			(457.7-463.9): Porphyritic granodiorite								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\+ Additional credit available. See Assessment Work Regulations.

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

Ontario

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. N-10 | PAGE NO. 8

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		collar ft ft ft ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)				PROPERTY NAME	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
			(453.9 – 468.6): Ironstone Note a thin granodiorite dyke at 465.8 – 466.5'							
			(468.6 – 472.9): Porphyritic granodiorite.							
			(472.9 – 473.6): Ironstone							
			(473.6 – 482.0): Porphyritic Granodiorite. Note a faint pink tint to this section							
			(482.0 – [illegible]): [illegible] giving regular fragments are supported in a dkgn aphanitic matrix that is mag and has very fine leucoxene and Py dt.							
485.7		EOH.								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-11 | PAGE NO. 1

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH: 125°	TOTAL FOOTAGE: 545'	DIP OF HOLE AT: collar 45°
DATE HOLE STARTED: Aug 29, 1962	DATE COMPLETED: Sept 2, 1962	DATE LOGGED: July 19, 1989	LOGGED BY: Gillian Keavell		ft °
EXPLORATION CO., OWNER OR OPTIONEE: American Barrick Exp!		DATE SUBMITTED	SUBMITTED BY (Signature): G. Keavell		ft °
					ft °

LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: Relogging of Kukatush Mining Corp. - Rod's Hill core. 1962. on Claim # 116811

MAP REFERENCE NO.

CLAIM NO. 1027102

LOCATION (Tp., Lot, Con. OR Lat. and Long.): Kerogaming Twp.

PROPERTY NAME: Susie Reeves

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	25	Cas								
25	35.5	Volcanics and Cherty Sediments								
35.5	48.0	Volcanics and Cherty Sediments								
48.0	95.0	Peridotite								
95.0	111.5	Talc-Chlorite Schist								
111.5	125.5	Cherty Sediments								
125.5	205.7	Peridotite (Basalt?)								
205.7	214.5	Feldspar Porphyry								
214.5	318.5	Iron Fm								
318.5	545	Iron Fm, ints Mafic Volcanics								
545		EOH								

Samples: 99608 – 99631 = 24

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-11 | PAGE NO. 2

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
							1027102

DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	ft	LOCATION (Tp., Lot, Con. OR Lot. and Long.)
					Kenogamisis Twp

EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	ft	PROPERTY NAME
				Sewell - Reeves

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au(g)
0	25	Casing								
25	35.5	Volcanics and	Cherty sediments. In agreement with the 1962 log. This core is divisible into very likely two large blocks of bedrock (+ casing) of similar volcanics and sediments throughout this drill hole. The core is blocky with numerous weathered fragments, many are foreign fragments (granite?)							
35.5	48.0	Volcanics and	Cherty sediments. A continuation of the same unit as from 25 to 35.5' The core is still blocky and weathered, but is probably ledge. The "volcanics" are hard, dk gy and have a faint brown tint. They are very fine grained and weakly foliated at 30 to 40 d to ca They are interlayered with cherty sediments that are thinly layered with pinkish grey cherts and dark green gy, foliated argillite. The rocks are magnetic, having fine stringers and bands of Po, Py and Mt parallel to foliation. Probably an Iron Fm (35.5-37.5): I do not see any evidence of faulting nor of talc and graphite as described in the 1962 log.							
						99608	35.1	40.0	4.9	Ni/Cu/S 0.08
			(35.1-40.0): Test Sample							

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

Ontario

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. N-11 | PAGE NO. 3

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	collar °		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)	ft ° / ft ° / ft ° / ft °		PROPERTY NAME	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION (Colour, grain size, texture, minerals, alteration, etc.)	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au (g)
48.0	95.0	Peridotite	Dk gn black, hard, fg serpentinized peridotite. The unit is unveined. It is wk to mody foliated at 40dtca. It is mody magnetic. Trace amounts [illegible] Po and lesser Py are dt. The lower contact is a fairly sharp change from a hard to a soft ultramafic [illegible]. The contact occurs along 40dtca.								
95.0	111.5	[illegible]	[illegible] ... is foliated at 40dtca. A later [illegible] fractures and [illegible] subparallel to the core axis. Nmag. Trace specks of Py are scattered. The core is blocky and much has been lost through grinding.								
			(95.0 - 103.0): Almost 100% core loss.								
111.5	125.5	Banded cherty sediments.	Non-magnetic. Thinly layered to laminated. Rose to grey cherty layers alternate with green chloritic layers. Semi-massive, very fine Py stringers [illegible] the [illegible] layers. Bedding at 60dtca.								
			(111.5 - 116.5): Test Sample.			99609	111.5	116.5	5	[illegible]	0.05
			(119.4 - 119.7): Mafic dike.								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\+ Additional credit available. See Assessment Work Regulations.

THE MINING ACT — MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Ontario

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO. N-11 — PAGE NO. 4

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar °			

DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	ft °	LOCATION (Tp., Lot, Con. OR Lat. and Long.)

EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	ft ° / ft ° / ft °	PROPERTY NAME

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au (g)
125.5	205.7	Peridotite?	Similar to 48.0 - 95.0. This unit is greener, non-magnetic and varies from fine to medium grained. It may also be a basalt. The unit is well foliated at 60 dtca. It is [illegible]. Bleached quartz-carbonate filled fractures lace the unit at [illegible]. [illegible] hard [illegible] (not [illegible], not carbonate). [illegible] locally. [illegible] odd speck or stringer [illegible] occurs. The lower contact is sharp at [illegible] dtca.								
205.7	214.5	Feldspar porphyry	Granodiorite (?) 40-50% White plagioclase phenocrysts average 1-2mm. They are both well rounded and lathe like. They are supported in a grey, fg matrix that appears to be mostly feldspar, lesser quartz and minor biotite and/or chlorite. The micaceous minerals define a foliation at 40 to 60 dtca (increasing at the contacts). The unit is non-magnetic. Rare specks of Py are [illegible]. The lower contact is sharp at 60 dtca.								
			(209.5 - 214.5): Test sample, Wallrock to Iron Fm.			99610	209.5	214.5	5	Test, ID	0.07

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-11 | PAGE NO. 5

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY		collar °		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)		ft ° / ft ° / ft ° / ft °		PROPERTY NAME	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au (g)
214.5	258.5	Iron Fm.									
			Gy to dk gy chert bands predominate. They are [illegible] with bands of massive sulfides ([illegible]).								
			Dk green chl[illegible] are [illegible]. After 241' the[illegible] start [illegible] carbonated bands [illegible]								
			[illegible] Magnetite also becomes dominant [illegible] minor sulfide [illegible] (Po).								
			The beds are [illegible] and [illegible]. Bedding [illegible] [illegible]								
			(2[illegible]5–2[illegible]8): [illegible]								
			(216.8–219.1): Massive Po with minor [illegible]			99611	214.5	219.1	4.6	CHF?+SV	0.13
			[illegible] matrix. There may be [illegible]			12	219.1	221.1	2	ID☐	0.12
			[illegible] aggregates of Py.			13	221.1	226.1	5	F2/F3	0.14
						14	226.1	231.1	5	}	0.11
			(219.1–221.1): Feldspar Porphyry. Ditto 205.7–214.5'			15	231.1	234.0	2.9	}	0.16
			Some fractures are filled with Py and Po.			16	234.0	238.0	4	ID☐	0.10
						17	238.0	242.7	4.7	F4?	0.11
			(221.1–234.0): Banded cherts and sulfides. Sulfides			18	242.7	245.0	2.3	ID☐	0.12
			decrease gradually downsection.			19	245.0	250.0	5	F4?	0.11
			(234.0–238.0): Feldspar Porphyry. Ditto 205.7–214.5'								
			(238.0–242.7): Carbonated Iron Fm. Minor Po, strong [illegible]								
			(242.7–245.0): Feldspar porphyry. Ditto 205.7–214.5'								
			(245.0–258.3): Carbonated Iron Fm. Narrow 3to6 inch wide contorted								
			chlc bands have semi-massive Po and Py aggregates.								
			Otherwise only minor Po (±Py) occurs. Sulfides								
			increase after 255'.								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT — MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-11 | PAGE NO. 6

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar			
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)		ft		PROPERTY NAME	
				ft			
				ft			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au (g)
			(258.3 - 266.1): Feldspar porphyry. Ditto 205.7 - 214.5'.								
			(266.1 - 276.4): Mostly carbonated and sulfide mineralized cherty section. Lamellae are grey and black (carbonaceous)			20620	270	275	5	Test F2/F3	0.20
						21	292	297	5	" Test	0.12
			(276.4 - 292.0): Feldspar porphyry. Ditto 205.7 - 214.5'.			22	297	302.2	5.2	" F2/F3	0.09
			(292.0 - 297.0): Strong Po and Py mineralization, alternating with cherty and carbonaceous layers, Sulfide Iron Fm.			23	313.5	318.5	5	Test F2	0.09
			(297.0 - 308.5): Oxide Iron Fm. Grey chert interlayered with massive magnetite beds. Minor carbonate occurs in the cherts. Bedding is ~ 70 d to c. Narrow granodiorite occurs from 302.2 to 303.8'								
			(308.5 - 310.0): Granodiorite								
			(310.0 - 318.5): Sulfide Iron Fm.								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

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Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-11 | PAGE NO. 7

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		collar °		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft °		PROPERTY NAME	
					ft °			
					ft °			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au (g)
318.5	345	Iron Fm, interbedded mafic volcanics				2[illegible]AU	318.5	323.5	5	Test	0.10
			The same iron fm unit beyond [illegible] with			25	342	347	5	Test	0.11
			Dark gn, vfg, hard mafic volcanics. Apparently flows.			26	370	375	5	Test	0.16
			Bedding and foln are essentially parallel at 60 to 70 deg.								
			Other Fm are [illegible] quartz-carbonate [illegible] with			27	390	395	5	Test	0.17
			[illegible] veinlets, some [illegible] veining.								
			The odd garnet [illegible] within			28	410	415	5	Test	0.08
			chl. bands in the iron Fm.								
			(345-350): Mafic volcanics			[illegible]	[illegible]	[illegible]	[illegible]		0.08
			A weak lamination with narrow chl rich								
			sections suggests a possible tuffaceous origin.			30	447	453	6	Test	0.07
			The upper contact is laced with 8-10% qtz vts.								
			(350-352): Iron Fm. Note a strong increase			31	475	480	5	Test	0.05
			in chl layers with associated sulfide mnrl.								
			Mt is also strong.								
			(352.0-355.0): Diorite dike? Flow?								
			Note 5% Blue qtz eyes randomly								
			oriented. W/ fold.								
			(355.0-376.0): Iron Fm.								
			(376.0-395.2): Mafic Volcanics (+/- If_3?): Varies								
			DK gn to grey and mody hard to chl'y.								
			Note a mody developed shear lamination. [illegible]								
			a weak, spotty magnetism, usually associated with								
			Po.								
			(395.2-418.7): Iron Fm.								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-11 PAGE NO. 8

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar °			
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY		ft °		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)		ft °		PROPERTY NAME	
				ft °			
				ft °			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
			(418.7 – 431.0): Mafic Volcanic, hard, siliceous 1% vf lg stringers parallel foln. The lower few inches are cut by ½" wide grey quartz veins, strongly lg mod.							
			(431.0 – 432.1): Porphyritic, siliceous section (dike?) and 3 inch white quartz-lg vein. 1% white Plagioclase phenocrysts (to 1cm) are in a dark grey, aphanitic siliceous matrix.							
			~~Porphyritic~~ Andesite Pinkish grey, hard, very fine grained, massive Amygdules vary 1 to 2 mm up to 1cm long. They are filled with a fine chl aggregate (other mineral unknown). Dark gn chl rims outline the amygdules. 1% vf lg is d t.							
			(441.9 – 453.8) Mafic Volcanics, Ditto 376.6 – 395.2', 1% lg occurs as dt specks and as fine stringers. Note the odd thin dike (2-3 inches) of feldspar porphyry.							
			(453.8 – 457.5): Porphyritic Flow. Ditto 431.0 – 432.1. Unveined							
			457.5 – 545.0): Mafic Flow. Varies vf to fg. 3 to 5% (White qcv' parallel foln. Thin avg. 1-3 mm. Foln = 60 – 70 deg to the unit is regularly bleached in narrow 1-2" wide bands of carbonated material parallel to foln. Non-magnetic. Tr lg dt.							
545		EOH.								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

DDH lies south of 102-7101

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

Ontario

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-12 | PAGE NO. 1

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
		120°	501'	collar | -45	Kukatush Mining Corp 1962 DDH on Claim 116808		
DATE HOLE STARTED: Aug. 24, 1965	DATE LOGGED	LOGGED BY: G. Koenell		500 ft | -43		LOCATION (Tp., Lot, Con. OR Lat. and Long.): Kenogaming Twp	
DATE COMPLETED: Aug 30, 1965				ft |			
EXPLORATION CO., OWNER OR OPTIONEE: American Barrick Expl.	DATE SUBMITTED	SUBMITTED BY (Signature): G K		ft |		PROPERTY NAME: Sewell - Reeves	
				ft |			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION (Colour, grain size, texture, minerals, alteration, etc.)	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	27	Cap								
27	50.1	Iron Fm								
50.1	57.6	Feldspar Porphyry								
57.6	79.0	Sheared Sediments								
79.0	501	Basalt								
501		EOH								
			Samples # 99661 - 99675 = 15							

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

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DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO. N-12 — PAGE NO. 2

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar			
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)		ft			
				ft		PROPERTY NAME	
				ft			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH		ASSAYS + Au (g)
			Collared in Bedrock								
0	27.0	Feldspar [illegible]	- Granodiorite								
			25-30% white, rounded [illegible] phenocrysts								
			average 1-2mm. They are [illegible]								
			[illegible] feldspar and chlorite [illegible] (± biotite?)								
			The unit is weakly [illegible] at [illegible] dtca								
			Non magnetic. [illegible] are [illegible]. No veining								
			Several cherty ironstone sediments [illegible]								
			[illegible] interlayered. Banding is [illegible] to [illegible]. [illegible]								
			(2.4-7.0): Ironstone. Contorted banding. Very [illegible]			00661	22	27	5	Test. [illegible]	0.22
						62	27	32	5		0.14
			(11.0-13.0): Iron stone, fragmented → [illegible]			63	32	37	5		0.20
						64	37	42	5	B.I.F	0.19
			(17.1-17.7): Well laminated Ironstone.			65	42	47	5		0.16
						66	47	50.1	3.1		0.18
			(27.0): The lower contact is bleached. Sharp at 40dtca								
						67	50.1	53.5	3.4	[illegible] test	0.13
						68	53.5	57.6	4.1	[illegible]	0.36
27.0	50.1	Iron Fm	Grey, dark grey and black interlayered chert and magnetite								
			Bedding is essentially parallel with foliation at 40-50dtca			69	57.6	63	5.4		0.17
			Unaltered			70	63	68	5		0.14
			Py occurs sporadically in fine stringers and aggregates.			71	68	73	5	± seds	0.08
			Po locally forms massive bands and stringers.			72	73	78	5		0.15
						73	78	83	5		0.09
						74	83	88	5	Basalt	0.10
50.1	57.6	Feldspar Porphyry	Ditto 0 to 25.0'								
			1-2% vf Py dt.								
			2% calcitic ff/veinlets at random angles.								
			The lower contact parallels a weak foliation at 50 dtca								
			(53.5-54.2): Ironstone								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO.	PAGE NO.
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DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar			

DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	ft	LOCATION (Tp., Lot, Con. OR Lat. and Long.)

EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	ft	PROPERTY NAME
			ft ft ft	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +		
57.6	70.0	Sheared Sediments	Grey, dark grey, black and creamy lamellae are [illegible] hard to hard and cherty. They are crenulated and overprinted by a pervasive [illegible] foliation subparallel to bedding. Foliation surfaces are coated with a white carbonate material. Bedding at 60 dtca. Foliation at 45 to 50 dtca. A locally spotty [illegible] (?) as well as massive bands of brecciated sulfides suggests the unit is a sheared iron fm. Py is finely d t and forms stringers locally. Py [illegible] 1-7% t. [illegible] is [illegible] a weak pervasive biotite(?) alteration that [illegible] dark sections. The lower contact is masked by shearing. (57.6 - 60.3): Mafic volcanic (Basalt) DK gn, vfg, mody hard to hard, nmag. The lower contact is irregular against a brecciated massive Po band.									
79.0	501	Basalt - Pillowed?	Dk gn, vfg, mody hard to hard, nmag volcanics. Weakly foliated along 40 dtca. Minor qz ff occurs at fairly random angles. Regular, cm wide bands of gn blk chlc material suggests pillow margins. These margins dissappear after 144 feet where the unit becomes amygdaloidal. Amygdules are filled with a chlc and felsic(?) mostly aggregate. They are rimmed with carbonate (? not calcite) and vary 2mm to 12mm or more. Trace Py occurs as stringers, ff and as d specks. (79.0 - 93.0): Pillowed Basalt.									

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\+ Additional credit available. See Assessment Work Regulations.

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DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-12 | PAGE NO. 4

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar			

DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	ft	LOCATION (Tp., Lot, Con. OR Lat. and Long.)

EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	ft	PROPERTY NAME
			ft	
			ft	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +	Au (g)
			(95-103): Sheared section. Weakly biotite altered. 10% Grey quartz and beige carbonate form hairline to mm veinlets along a shear of 30 deg.			99675	95	100	5	[illegible]	0.15
			(103.0-122.0): Pillowed Basalt								
			(122.0-144.0): Pillowed to massive basalt. Note the odd amygdule. The flows become darker [illegible]. Two granodiorite dikes [illegible] [illegible] [illegible]								
			(144.0-226.7): Amygdaloidal Basalt								
			(226.7-251.2): Feldspar porphyry. Similar to 0.0-27.0 ft except for a pinkish overcast and lesser quartz content in the matrix. 1% [illegible] d to N mag.								
			(251.2-285.5) Medium to fine grained basalt. Note a few amygdaloidal bands. Leucoxene streaks parallel foliation locally. Foln = 30-40 deg								
			(285.5-298.0) Feldspar porphyry. Ditto 226.7-251.2.								
			(298.0-357.3) Fg massive basalt.								
			(357.3-366.7): Feldspar porphyry. Ditto 226.7-251.2. Note [illegible] xenoliths at the lower irregular contact								
			(366.7-383.0): Fg basalt.								
			(383.0-385.0): Feldspar porphyry. Ditto 226.7-251.2								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\+ Additional credit available. See Assessment Work Regulations.

Ontario

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DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-12. PAGE NO. 5

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		collar °		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft °		PROPERTY NAME	
					ft °			
					ft °			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +		
			(385.0 – 387.0): Basalt									
			(387.0 – 390.6): Feldspar porphyry. Dike 2867-251-2'									
			(390.6 – 501.0): Massive Basalt.									

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO. N-13 — PAGE NO. 1

DRILLING COMPANY: ?	COLLAR ELEVATION: Surface	BEARING OF HOLE FROM TRUE NORTH: 180°	TOTAL FOOTAGE: 502'	DIP OF HOLE AT: collar | -44°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: Kukatush Mining Corp 1962/66 Drill core Old claim# 109707
DATE HOLE STARTED: 03-09-65	DATE COMPLETED: 10-09-65	DATE LOGGED: Relogged 05-07-89	LOGGED BY: Gillian Kearvell	500' ft | -30°	MAP REFERENCE NO.: 42B/1 — CLAIM NO.: 987262
EXPLORATION CO., OWNER OR OPTIONEE: American Barrick Expl.	DATE SUBMITTED:	SUBMITTED BY (Signature): G. Kearvell	ft | ° ; ft | ° ; ft | °		LOCATION (Tp., Lot, Con. OR Lat. and Long.): KENOGAMISIS — PROPERTY NAME: Sewell - Reeves

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION (Colour, grain size, texture, minerals, alteration, etc.)	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	19	Cao								
19	31.4	Shale								
31.4	41.0	Cherty Seds								
41.0	54.5	Massive Sulfides								
54.5	262.8	Intermediate Pyroclastics								
262.8	305.6	Mafic Volcanic Flows								
305.6	388.0	Iron Fm								
388.0	428.0	Mafic Volcanic Flows								
428.0	435.0	Granodiorite → QFP								
435.0	451.0	Mind Tuff								
451.0	493.3	Mafic to Intermediate Tuff								
493.3	502.0	Aplite								
502.0		E.O.H.								
			Samples: 99501 - 99550 = 50							
			Box 8 is missing (From 186.0' - 207.')							

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

NTS → Locate DDH W.I. [illegible] claims.

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Ontario

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO. N-13 — PAGE NO. 2

DRILLING COMPANY		COLLAR ELEVATION: Unsurveyed.	BEARING OF HOLE FROM TRUE NORTH: 180°	TOTAL FOOTAGE: 502'	DIP OF HOLE AT: collar | -44°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.: NTS — CLAIM NO.: Theirs. 109707
DATE HOLE STARTED: 03-09-65	DATE COMPLETED: 10-09-65	DATE LOGGED: 06-07-89	LOGGED BY: G. Kearvell		500 ft | -30°		LOCATION (Tp., Lot, Con. OR Lat. and Long.): KENOGAMISIS TWP.
EXPLORATION CO., OWNER OR OPTIONEE: American Barrick Expl		DATE SUBMITTED	SUBMITTED BY (Signature): G. Kearvell		ft |		PROPERTY NAME: Sewell - Reeves

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION — Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au (g)
0	19	Cas.								
19	31.4	Shale	Dark gy to black, possibly carbonaceous. Hard, argillaceous to silty. It is moderately foliated, possibly laminated/bedded → Core is split obscuring structures. Apparent Foln = 55° dtca. A few mm, wt gy' are picked with foln. They have mird wallrock → Py, Po. The section is mostly massive. [illegible] Py+Po [illegible]. Also 1% Po+Py are very finely disseminated, decreasing to trace amounts locally. → Has the ddh dipped on F3 at the collar? The lower contact, although in split core, appears to be sharp at about 65 dtca.							
			(19-24): Shale. 1% qvg. 2-3% Py+Po stringers			99501	19'	24'	5'	0.30
			(24-29): Shale. Tr-1% qvg. 1-8% Py+Po stringers			99502	24'	29'	5'	0.25
			(29-31.4): Shale. Tr qvg. Tr-1% Py+Po. Weak mag.			99503	29'	31.4'	2.4'	0.27
31.4	41.0	Cherty Sediment?	Grey, finely granular to silty. Hard with several thick, cherty lamellae. Core was split. Weak Foln / lamellae approx = 65-70 dtca. Rare wt qv' para foln. Note the odd garnet porphyroblasts concentrated along foln. The unit is non-magnetic. 1-2% Very fine Py is d.t. Note a local concentration of semi-massive Po and Py over 3 inches at the upper contact - mag. The lower contact is gradational.							

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

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FILL IN ON EVERY PAGE ▶ HOLE NO. N-13 | PAGE NO. 3

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar °			
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY		ft °		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)		ft °		PROPERTY NAME	
				ft °			
				ft °			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au(g)	Cu(g)	Zn(g)
			(31.4-36.0): 1-2% Py dt. Up ct has 3" semi-massive Po+Py			99504	31.4	36	4.6	0.29		
			(36.0-41.0): 1-2% Py dt Tr Garnets, tr wt qvz'-mm			99505	36	41	5	0.25		
41.0	54.5	Massive Sulphides	~5% fine Po and Py. Possibly some minor Cpy (and Sph? → brownish mineral)	⇐ Dubious on the Sph.								
			The sulphides are fine grained aggregates set in a dark grey, siliceous matrix									
			At least two 1 inch wide qv' cut the section									
			[illegible]									
			matrix (unidentified). It is very fine and may be a tuffaceous or an argillaceous.									
			The lower contact is fairly sharp along a foln of 65 dtca.									
			The unit may represent an exhalative deposit									
			(41.0-45.0): Massive Py+Po. Traces Cpy (+Sph??)			99506	41	45	4	0.45	104	410
			(45.0-50.0): Massive Py+Po			99507	45	50	5	0.84	79	57
			(50.0-54.5): Massive Py+Po. Note two ±1" qv'			99508	50	54.5	4.5	0.24	42	49

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-13 | PAGE NO. 4

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar			

DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	ft	LOCATION (Tp., Lot, Con. OR Lat. and Long.)

EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	ft	PROPERTY NAME
			ft ft	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au (g)		
54.5	268.8	Intermediate Pyroclastics	Crystal to Ash tuff.									
			Gy to dk gy. Locally bleached especially along [illegible]									
			[illegible]. Hard, siliceous. 15-20% wh plagioclase (saussuritized)									
			phenocrysts avg 1-5mm. They are [illegible] to tabular	5[illegible]								
			& often stretched along foliation.	60 dtca								
			The plagioclase is supported [illegible]									
			matrix [illegible] a dark grey. Locally it is									
			paler gy and streaked with sericitic lenticular									
			lamellae									
			[illegible] unveined except for the odd mm qv [illegible]									
			[illegible]									
			The unit is Non-magnetic. Only trace amounts of Py									
			occur tr. It increases to 1% locally, especially where									
			sericitic. Py also plates fracture surfaces along									
			with calcite and minor epidote.									
			The lower contact is sharp at about 60 dtca									
			(54.5- 59.0): Weakly sericitic. Tr-1% Py dt.			99509	54.5	59.0	4.5ft	1.74		
			(59.0- 64.0): Weakly sericitic. Tr Py.			99510	59.0	64.0	5.0	0.20		
			(64.0-68.8): Mody Sericitic. Tr-1% Py dt, includes a 1" wide			11	64.0	68.8	4.8	0.28		
			band of massive Py with adjacent Py stringers			12	68.8	74.7	5.9	0.23		
			(68.8- 74.7) Diorite dike. Massive.			13	74.7	79.0	4.3	0.21		
			Pale gn gy, hard. 25% Chloritized, mg amphiboles			14	79.0	83.0	4.0	0.28		
			are randomly oriented in a fine grained, predominently			15	83.0	88.0	5.0	0.25		
			plagioclase matrix. 1-2% vf Py is dt.									
			(74.7- 83.0): Weakly sericitic. Tr Py, 1% qvg									
			(83.0- 88.0): DK gy, unaltered pyroclastic. Tr Py									
			(111.5- 114.0): Mafic dike. Vfg, massive, dk gy gn.									
			Nmag. 1% Py dt.			16	111.5	114.0	2.5'	0.20		

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

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Ontario

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO. N-13 — PAGE NO. 5

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	collar / ft / ft / ft / ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)			PROPERTY NAME	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au (g)		
			(134.0 – 151.0): [illegible] pyroclastics. Phenocrysts [illegible] to trace only → An Ash tuff. 3% wt avg mottles the section. Tr Py dt.									
			(151.0 – 152.3): Mafic section. Dark green [illegible] to aphanitic. Mottled with Leucoxene mantled [illegible] crystals. Strongly magnetic. 1% Py [illegible] as fine stringers and disseminated [illegible]			99517	146	151	5	0.20		
						18	151	156	5	0.21		
						19	156	161	5	0.26		
						20	161	164.5	3.5	0.17		
			(152.3 – 156.0): Ditto 134.0 – 151.0!									
			[illegible] material as 151.0–152.3. It is [illegible] with [illegible] volcanic material. At least 10% sulfides occur in semi-massive to stringer and [illegible] band of Po and Py. Trace garnets are dt. The section may represent a shear unit. Wallrock material is fragmental.									
			(164.5 – 169.0): "Brecciated" Pyroclastic. Angular, irregular fragments of the intermediate volcanic material are close packed in a dark green matrix. The matrix is hard (amphiboles?), weakly calcitic and chloritic, strongly magnetic. Garnets and 1-2% Py are disseminated in the matrix. → lapilli/Bomb tuff or a tectonic breccia?			21	164.5	169.0	4.5	0.11		Bxd, [illegible]
						22	169.0	174.0	5	0.15		Tr Py, sild.
						23	174.0	179.0	5	0.13		" [illegible]
						24	179.0	184.0	5	0.13		Tr Py, Tr-1% Po, 1-2% [illegible]
			(169.0 – 262.8): Silicified Int. Volcanic. The same "ash tuff" as 134.0–151.0! Silicification (induration) is moderate to strong, decreasing down section. The unit is shear laminated (lenticular). Lamellae are often pale yellow (sericitic) and mauve grey (hematized?). Trace plagioclase phenocrysts are scattered.			25	184.0	189.0	5	0.17		Tr Py + Po 2% [illegible]

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\+ Additional credit available. See Assessment Work Regulations.

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

Ontario

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO. N-13 — PAGE NO. 6

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar			

DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	DIP OF HOLE AT	LOCATION (Tp., Lot, Con. OR Lat. and Long.)
				ft	

EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	DIP OF HOLE AT	PROPERTY NAME
			ft	
			ft	
			ft	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au (g)		
			Trace Py [illegible] this section. Patchy, [illegible]			99526	234	239	5	0.16	[illegible]	
			[illegible] sporadically, often associated with									
			chloritised shear lamellae.									
			Shear lamellae increase gradationally downsection.									
			After 234' the unit is well laminated [illegible]									
			[illegible] lenticular lamellae. It is also intensively sericitic									
			[illegible] 55-65 dtca.									
[illegible]	[illegible]	[illegible] flows	[illegible]									
			Dark gngy, moderately hard, very fine grained									
			[illegible] except for a moderate foliation									
			along 50 dtca.									
			1-2% quartz-calcite vein material occur as random, mm									
			fracture fill.									
			The flows are non-magnetic. Only trace Py is									
			sporadically scattered.									
			The unit is moderately chloritic. At least three									
			flows occur separated by narrow bands of siltstone									
			and Ironstone (interflow sediments?). Contacts with									
			the flows are sharp and concordant.									
			The lowermost contact is also sharp at 60 dtca									
			(278.0 – 279.9): Siltstone. Dk gy to gy laminated									
			Very finely granular to silty. Nmag. Tr-1% Py dt.									
			(289.4 – 290.6): Ironstone									
			Well laminated with dk gy cherty lamellae and									
			blacker, Mt rich lamellae. Tr Py and Po occur									
			in stringers along foln.									
			(300.0 – 305.6): Mafic Flow. Contact with Iron Fm. Tr. Py			99527	300	305.6	5.6	0.14		

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-13 | PAGE NO. 7

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar			
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)		ft		PROPERTY NAME	
				ft			
				ft			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au (g)
305.6	322.0	Iron Formation	Well laminated alternating pale to dark grey cherty lamellae, black Mt rich lamellae and black carbonaceous lamellae. Lamellae vary from a few mm to a few cm thick. Local internal deformation suggests slumping. The more carbonaceous units are well mineralized w Py and Po. The unit is strongly magnetic except for cleaner chert. The unit shows evidence of very tight folding. Foliation / lamellae = 65 dtca							
						29568	[illegible]	[illegible]	[illegible]	0.11
						A9	310	314	4	0.14
						30	314	318	4	0.13
						31	318	322	4	0.09
										7 1ft lost core 5
322.0	428.0	Mafic Volcanic Flows	Essentially the same as from 262.8 – 305.6'. Grain size varies from very fine to fine medium grained locally with a gabbroic texture. Foliation averages 55 to 60 dtca. It is poorly to moderately well developed. Essentially barren of veining. Non-magnetic. Trace Py is sporadically scattered. The lower contact is lost in ground core							
			(322.0 – 323.0): Lost core. Some non-magnetic grey gravels.							
			(323.0 – 328.0): Mafic flow. Gabbroic to the Iron Fm. Tr. Py.			32	323	328	5	0.15
			(379-387.0): Narrow gchg averages 1-5mm at 15-20 dtca are lined with massive Py stringer			33	379	384	5	0.56
			(423.0-428.0): Lower contact with QFP			34	423	428	5	0.14

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT — MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO. N-13 — PAGE NO. 8

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
					collar			
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft		PROPERTY NAME	
					ft			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au (g)
428.0	435.0	Granodiorite → QFP	Mg Wk, sand plag phenocrysts are supported in a fmg, gy qfeld. matrix. 8-10% chl amphibole defines a weak foliation at 45d tca. Hard. Non-magnetic. 1% blebby Py is very finely d+. The upper contact is lost if missing and gradually core. The lower contact is sharp at ~45d tca.			99535	428	432	4	0.13
						36	432	435	3	0.12
435.0	451	Mixed Tuff	Mafic to intermediate tuffs vary from fairly massive to laminated and tightly folded. Foln = 45d tca. The tuffs are dk gy and well foliated. More massive sections have 5% mg blk hbl xls stretched along foliation. These massive sections grade into well laminated sections that vary gy, gngy and brgy (chloritic). The section is injected with 2% wt to gy quartz veins up to one foot wide. The veins appear to follow foln (sol+ core). Chl masses in the veins are stongly Py mod. As well the wallrock is well mod in Py. Non-magnetic. A few mm blue qv's also para foln. Py varies from 1% up to 5% adjacent to qv's. The lower contact is gradational along foln at 40d tca							
			(435.0 - 440.0): 20% qvg in pyritic +/- 2%			37	435	440	5	0.23
			(440.0 - 445.0): 15% qvg " " "			38	440	445	5	0.19
			(445 - 451.0): 30% qvg " " "			39	445	451	6	0.19

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-13 | PAGE NO. 9

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar °			
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY		ft °		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)		ft °			
				ft °		PROPERTY NAME	
				ft °			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au(g)	
451	493.3	Mafic to Intermediate Tuff.									
			Hard dark gy to gr gy. Fmg chld amphibole needles are supported in a very fine gr felsic matrix. Both are wk foliated. 5-10% mg Blue quartz eyes are stretched ∥ to foln at 45 to 50 d to ca.								
			The unit is otherwise featureless ("massive") and is the same as the more massive sections as occur in the preceding unit. Otherwise it resembles or is similar in texture.								
			Non-magnetic. 1-2% vf d fy disseases downsection to trace.								
			The lower contact area is Fe-carbonate bleached. It is sharp at 60 d to ca.								
			(451 - 456): Weak sporadic biotite altn with associated fy minn. 1% fy d to. Fg tuff			99540	451	456	5	0.17	
			(456 - 461): 1-2% fy d to. Fg tuff. 5% wt to gy gvg			41	456	461	5	0.11	
			(461 - 466): Tr-1% fy. Fmg tuff			42	461	466	5	0.16	
			(466 - 471): Tr fy. Mg Tuff. Trace gvg.			43	466	471	5	0.22	
			(471 - 476): Tr fy. Tr-1% Fe-carb streaks. Mg Tuff. 2-3% gvg ff.			44	471	476	5	0.11	
			(476 - 480): Tr fy. Fg tuff. Fe-carb altn is weak to mod but pervasive. The last 4' are intensely carb bleached.			45	476	480	4	0.15	
						46	480	485	5	0.61	
						47	485	490	5	0.11	
						48	490	493.3	3.3	0.09	
			(480 - 485): Intense Fe-carb bleaching (buff-yellow). Relict tuff textures are present. Apparently barren.								
			(485 - 490): Fe-carb altered ditto 480-485'. 50% wt gvg cuts the section with associated fy minn in the wallrock. (Split core)								
			(490 - 493.3): Ditto 485-490 ft.								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-13 | PAGE NO. 10

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		collar °		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft °		PROPERTY NAME	
					ft °			
					ft °			
					ft °			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au (g)
402.3	502	Aplite	Pink, fine grained textured to nearly aphanitic. Hard to siliceous(?) A felsic intrusive unit. Massive. 2% 1mm to cm scale qtz veins cuts the unit along 50 dtca. Tr-1% py is very finely dt. Non-magnetic. Fine weak Fe-carb alt'n stains the unit brown. The lower contact is sharp at 50 dtca.							
			(493.3-497.0): Aplite			90549	493.3	497	3.7	0.09
			(497.0-502.0): Aplite to contact at 501.1' with the intrusive unit to the upper contact.			50	497	502	5	0.10
502.0		EOH.								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-14 | PAGE NO. 1

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH: 115°	TOTAL FOOTAGE: 200'	DIP OF HOLE AT: collar 45°
DATE HOLE STARTED: Sept 26, 1966	DATE COMPLETED: Sept 28, 1966	DATE LOGGED: July 7, 1989	LOGGED BY: Gillian Kearvell		ft ° / ft ° / ft ° / ft °
EXPLORATION CO., OWNER OR OPTIONEE: American Barrick Expl.		DATE SUBMITTED: July 7, 1989	SUBMITTED BY (Signature): G. Kearvell		

LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: Kubatush Mining Corp. 1962/66 Drill core

SURFACE: 10981

MAP REFERENCE NO.

CLAIM NO. 1027100

LOCATION (Tp., Lot, Con. OR Lat. and Long.): Kenogaming Twp.

PROPERTY NAME: Sewell - Reeves

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	25	Cas								
25	83	Mafic Volcanic	(Gabbroic or Basaltic)							
83	87	Bleached CTZ								
87	131	Serpentinite.								
131	167.4	Mafic Volcanic								
[illegible]		[illegible]								
177.8	200.0	Mafic Volcanic								
200.0		EOH								
			Samples: 99551-99557 = 7							

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

Ontario

THE MINING ACT — MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO. N-14 — PAGE NO. 2

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar ° / ft ° / ft ° / ft ° / ft °
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		

LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM

MAP REFERENCE NO.

CLAIM NO. Kukatush S 116811

LOCATION (Tp., Lot, Con. OR Lat. and Long.)

PROPERTY NAME

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au (g)
0	25	Cas								
25	83	Mafic Volcanic	Basaltic (to ultramafic?) Dk gy, vg, very hard, fairly massive unit. Non magnetic Wk foliated at ± 45 d to ca Magnetism varies from moderate to strong t the unit The unit is apparently barren of sulfides The lower "contact" occurs within a zone of bleached, altered material and appears transitional.							
			(60.0 - 65.0): Test sample. Typical "basaltic" material.			99551	60	65	5	0.11
83	87	Bleached TCTZ	Pale gngy. Mottled with relict basaltic patches Non magnetic. No sulfides A pale buff overprinting that is probably a carbonate alteration. However, the unit is very hard			52	83	87	5	0.13
87	131	Ultramafic - Serpentinized	Black, very fine grained, massive. The unit is fairly randomly fractured. Fractures are altered to pale green platy serpentine (antigorite) as well as fibrous crysotile and a white botroidal mineral. 45 d to ca The unit is moderately to strongly magnetic. It is apparently barren of sulfides Despite its extensively serpentinized textures, the unit is very hard and dense. Possibly hornfelsic. (note proximity to the large batholith). The lower contact is gradational							
			(107.0 - 112.0): Test sample Typical ultramafic.			53	107	112	5	0.09

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Ontario

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. N-14 | PAGE NO. 3

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		collar ft ft ft ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)				PROPERTY NAME	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au (g)
131	167.4	Mafic Volcanic	Same as 25.0' - 83.0' The gradational contacts suggest these altered units are differentiates of the ultramafic This units lower contact is sharp at ± 45d to ca							
			(162.4 - 167.4): Upper contact with granodiorite. Baked margin Tr. Py			99554	162.4	167.4	5	0.10
167.4	177.8	Granodiorite	DK grey fine, hard, massive, 5-10% [illegible] aphanitic fragments [illegible] foliation at ± 45d to ca. They are supported in a matrix of fine grains and biotite The unit is moderately magnetic throughout 2-3% Fine blebby and disseminated Py is dtd The lower contact is sharp along foliation The wallrock to this intrusive has been baked over 6 to 8 inches			99555 56	167.4 [illegible]	[illegible] [illegible]	5 5.4	0.14 0.05
177.8	200.0	Mafic Volcanic	Same as 131.0 - 167.4' Note a few scattered "eyes" at the end of the hole (amygdules). The eyes vary 1/4 to 1/2" long. They are filled with a dense chl aggregate and rimed with biotite.			57	177.8	183	5.8	0.06
			(177.8 - 183.0): Lower contact with Granodiorite. Baked margin. Tr. Py							
200.0		EOH.								
			Comments. Although the mafic units have been logged as "volcanics", they appear to be a differentiate of the ultramafic. The massive, featureless aspect of the entire package suggests an intrusive origin. The hardness and very fine density of the package would suggest it is hornfelsic							

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

FROM:M.R. PORCUPINE MIN.DIV. TO:MINING LANDS

Ministry of Northern Development and Mines

Ontario

LW 8900.369

(Geophysical, Geological, Geochemical and Expenditures)

42A04NW0004 2.12782 REEVES

900

Mining Act

Type of Survey(s): DRILL CORE AND ASSAYS - BEDROCK SAMPLES (T1-19)

Township or Area: CONTINUED SEWELL, REEVES, KENOGAMING

Claim Holder(s): AMERICAN BARRICK RESOURCES CORP. (OPTIONEE) EXPLORATION

Prospector's Licence No.: T-834

Address: BOX 1203, 953 GOVERNMENT ROAD WEST, KIRKLAND LAKE ON.

Survey Company: AMERICAN BARRICK

Date of Survey (from & to): 15 05 89 | 31 07 89 (Day Mo. Yr. | Day Mo. Yr.)

Total Miles of line Cut: Na

Name and Address of Author (of Geo-Technical report): DALE R. ALEXANDER c/o AMERICAN BARRICK, KIRKLAND LAKE.

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

RECEIVED AUG 8 1989

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed: ASSAYING BEDROCK EXPOSURE

Performed on Claim(s): across all of East Group - which is 426 claims

Calculation of Expenditure Days Credits

Total Expenditures: $ 8342.50 ÷ 15 = Total Days Credits 557.5 ← excess to be banked

Instructions

Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.
P.	878419	15
	901327	15
	901334	15
	933528	15
	933545	15
	933560	15
	933561	15
	933562	15
	933563	15
	933564	15
	933565	15
	933566	15
	933567	15
	933568	15
	933569	15
	933570	15
	933571	15
	933572	15
	933573	15
	933574	15
	933575	15
	933576	15
	944889	15

Prefix	Mining Claim Number	Expend. Days Cr.
P.	947148	15
	947149	15
	947150	15
	947251	15
	947253	15
	947255	15
	947256	15
	947257	15
	947259	15
	947260	15
	947263	15
	947264	15
	947266	10

RECORDED AUG - 8 1989

Total number of mining claims covered by this report of work: 36

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
535	AUG. 8/89	[signature]
	Date Approved as Recorded: See revised work statement	Branch Director

Date: Aug 8/89 | Recorded Holder or Agent (Signature): Dale R Alexander

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

* = UNDER CLAIM

P-724554
P-755310
P-755311
P-755312
P-755313
P-755314
P-755315
P-755316
P-755317
P-755318
P-798200
P-798201
P-798202
P-798203
P-804622
P-804623
P-804636
P-826331
P-831625
P-831626
P-848909
P-848910
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Ministry of Northern Development and Mines

Ontario

Geophysical-Geological-Geochemical Technical Data Statement

File _____

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Assaying Sec. 77-19

Township or Area Sewell, Reeves, Kenogaming & Penhorwood Twps.

Claim Holder(s) American Barrick Resources (Optionee)

P.O. Box 1203, Kirkland Lake, Ont. P2N 3M7

Survey Company American Barrick Resources

Author of Report Dale R. Alexander

Address of Author c/o American Barrick, Kirkland Lake

Covering Dates of Survey May 15, 1989 to Aug 15, 1989
(linecutting to office)

Total Miles of Line Cut n/a

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
--Electromagnetic	
--Magnetometer	
--Radiometric	
--Other	15
Geological	
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Oct 2/89 SIGNATURE: Dale R Alexander
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
P	878419
	901327
	901334
	933528
	933545
	933560
	933561
	933562
	933563
	933564
	933565
	933566
	933567
	933568
	933569
	933570
	933571
	933572
	933573
	933574
	933575
	933576

TOTAL CLAIMS 36

If space insufficient, attach list

plus list attached

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

_____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

P	944889
	947148
	947149
	947150
	947251
	947253
	947255
	947256
	947257
	947259
	947260
	947263
	947264
	947266

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken - samples from 169 claims (list attached) along with drillhole samples from the Regional Core Library Timmins (logs included).

Total Number of Samples 1179

Type of Sample Bedrock
(Nature of Material)

Average Sample Weight 1 to 2 kgs

Method of Collection from selected bedrock exposure

Soil Horizon Sampled n/a

Horizon Development

Sample Depth

Terrain

Drainage Development

Estimated Range of Overburden Thickness 0 to 30m

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis -200 mesh

General The sample is dried, crushed (jaw crusher and cone crusher) and is eventually pulverized (disc pulverizer) to -200 mesh.

ANALYTICAL METHODS

Values expressed in: per cent ☐ p. p. m. ☒ p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others Au, with Cu, Zn, Ni locally

Field Analysis (_____ tests)

Extraction Method

Analytical Method

Reagents Used

Field Laboratory Analysis

No. (_____ tests)

Extraction Method

Analytical Method

Reagents Used

Commercial Laboratory (1179 tests)

Name of Laboratory Holt McDermott

Extraction Method Aqua regia

Analytical Method fire and AA

Reagents Used flux, $AgNO_3$, HNO_3, HCl.

General The sample is fluxed and fused to produce a gold bead which is subsequently dissolved and read with AA.

AMERICAN BARRICK EXPLORATION
CLAIM LIST
EAST BLOCK, SEWELL-REEVES PROJECT

CLAIM #

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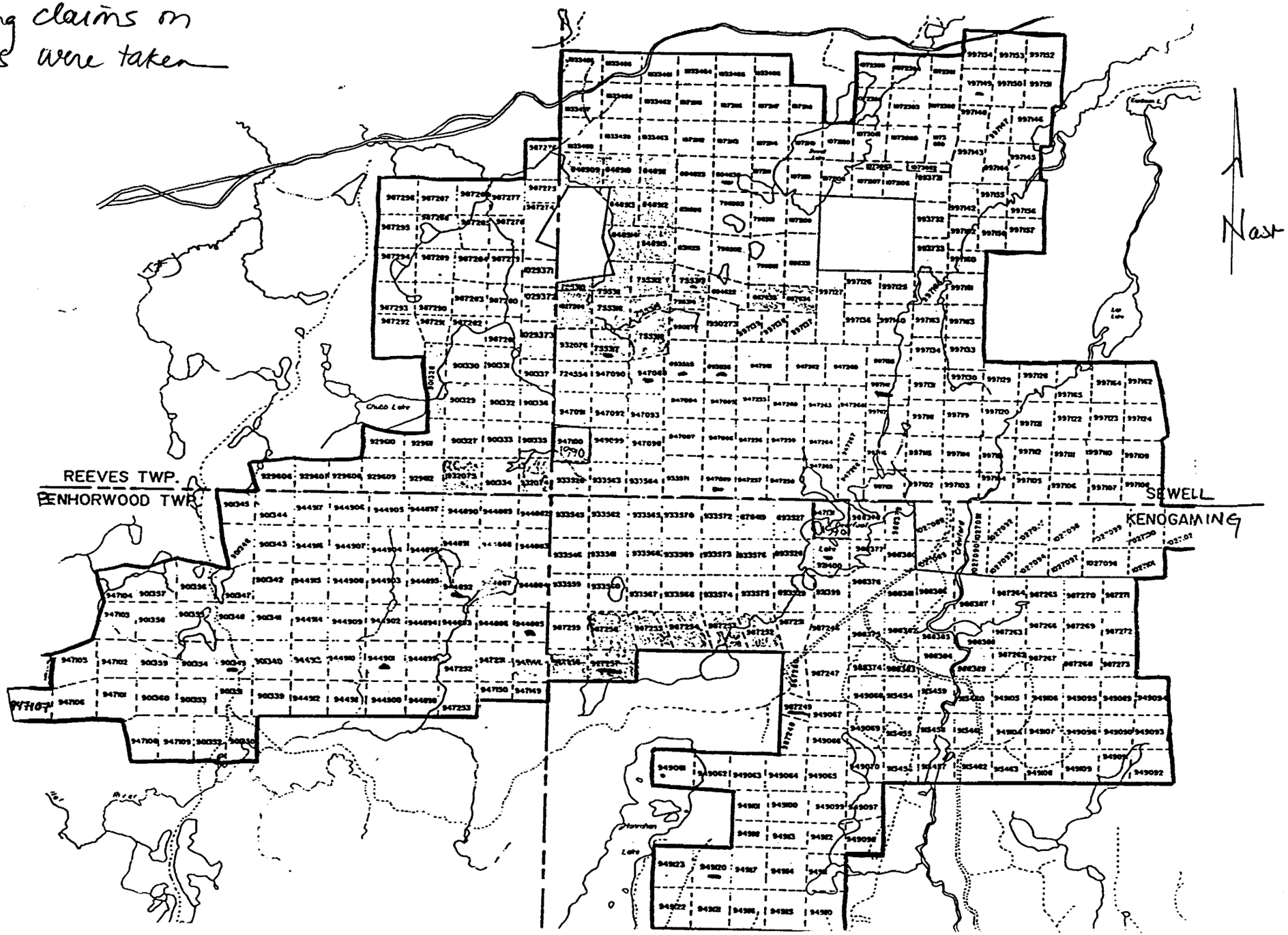
AMERICAN BARRICK EXPLORATION
CLAIM LIST
EAST BLOCK, SEWELL-REEVES PROJECT

- claims on which assays taken
- claims to receive credits

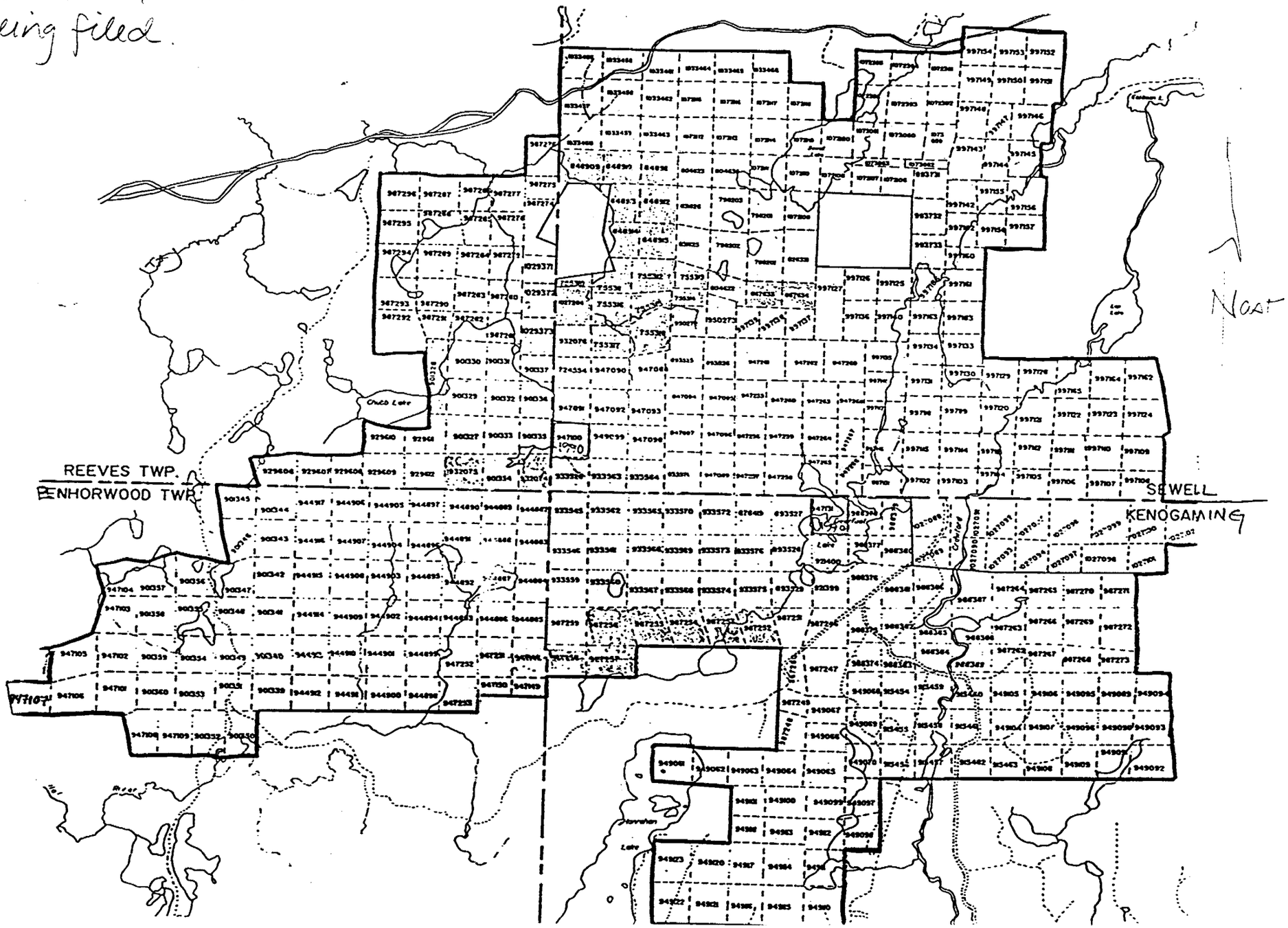
CLAIM #

724554	901348	933576	947106	949110	987288
755310	901349	944882	947107	949111	987289
755311	901350	944883	947108	949112	987290
755312	901351	944884	947109	949113	987291
755313	901352	944885	947131	949114	987292
755314	901353	944886	947148	949115	987293
755315	901354	944887	947149	949116	987294
755316	901355	944888	947150	949117	987295
755317	901356	944889	947251	949118	987296
755318	901357	944890	947252	949120	988374
798200	901358	944891	947253 23	949121	988375
798201	901359	944892	947255	949122	988376
798202	901360	944893	947256	949123	988377
798203	915454	944894	947257	950272	988378
804622	915455	944895	947258	950273	988379
804623	915456	944896	947259	987246	988380
804636	915457	944897	947260	987247	988381
826331	915458	944898	947261	987248	988382
831625	915459	944899	947262	987249	988383
831626	915460	944900	947263	987250	988384
848909	915461	944901	947264	987251	988385
848910	915462	944902	947265	987252	988386
848911	915463	944903	947266	987253	988387
848912	921399	944904	947267	987254	988388
848913	921400	944905	947268	987255	988389
848914	929606	944906	947269	987256	993731
848915	929607	944907	949061	987257	993732
867633	929608	944908	949062	987258	993733
867634	929609	944909	949063	987259	997101
878419	929610	944910	949064	987262	997102
893525	929611	944911	949065	987263	997103
893526	929612	944912	949066	987264	997104
893527	932074	944913	949067	987265	997105
893528	932075	944914	949068	987266	997106
893529	932076	944915	949069	987267	997107
901327	933528	944916	949070	987268	997108
901328	933545	944917	949089	987269	997109
901329	933546	947085	949090	987270	997110
901330	933559	947088	949091	987271	997111
901331	933560	947089	949092	987272	997112
901332	933561	947090	949093	987273	997113
901333	933562	947091	949094	987274	997114
901334	933563	947092	949095	987275	997115
901335	933564	947093	949096	987276	997116
901336	933565	947094	949097	987277	997117
901337	933566	947096	949098	987278	997118
901339	933567	947097	949099	987279	997119
901340	933568	947098	949100	987280	997120
901341	933569	947099	949101	987281	997121
901342	933570	947100	949104	987282	997122
901343	933571	947101	949105	987283	997123
901344	933572	947102	949106	987284	997124
901345	933573	947103	949107	987285	997125
901346	933574	947104	949108	987286	997126
901347	933575	947105	949109	987287	997127

Sketch outlining claims on which assays were taken



Sketch outlining claims on which assays are being filed.



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
3rd Floor, 880 Bay Street
Toronto, Ontario
M5S 1Z8

Tel: (416) 965-4888

January 30, 1990

Your File: W8906-369
Our File: 2.12782

Mining Recorder
Ministry of Northern Development & Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Re: Data for Expenditure submitted under Section 77(19) of the Mining Act. R.S.O. 1980 on Mining Claims P 878419 et al in Townships of Sewell, Penhorwood, Reeves and Kenogaming.

The enclosed statement of assessment work credits for Assaying has been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W. R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

JS:zm

Encl:

cc: Resident Geologist
Timmins, Ontario

American Barrick Resources Corp.
Kirkland Lake, Ontario

Ministry of Northern Development and Mines

Ontario

Technical Assessment Work Credits

File 2.12782

Date January 30, 1990

Mining Recorder's Report of Work No. W8906-369

Recorded Holder: AMERICAN BARRICK RESOURCES CORP.

Township or Area: SEWELL, REEVES, PENHORWOOD, KENOGAMING

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	$8842.50 spent on overburden drilling and assaying samples taken from mining claims:
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	See attached sheet
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☐ Ground ☐	
☐ Credits have been reduced because of partial coverage of claims.	Days credit allowed which may be grouped in accordance with Section 76(6) of the Mining Act R.S.O. 1980.
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.

CLAIM LIST

Claims alleged to have assays but for which no sample locations are marked on the map .

755313
755317
804636
893525
893528
901349
921400
944885
944892
944901
947088
947089
947090
947149
947150
949120
987249
987257
997141
1072110
1072111

Claims on which assays have been taken.

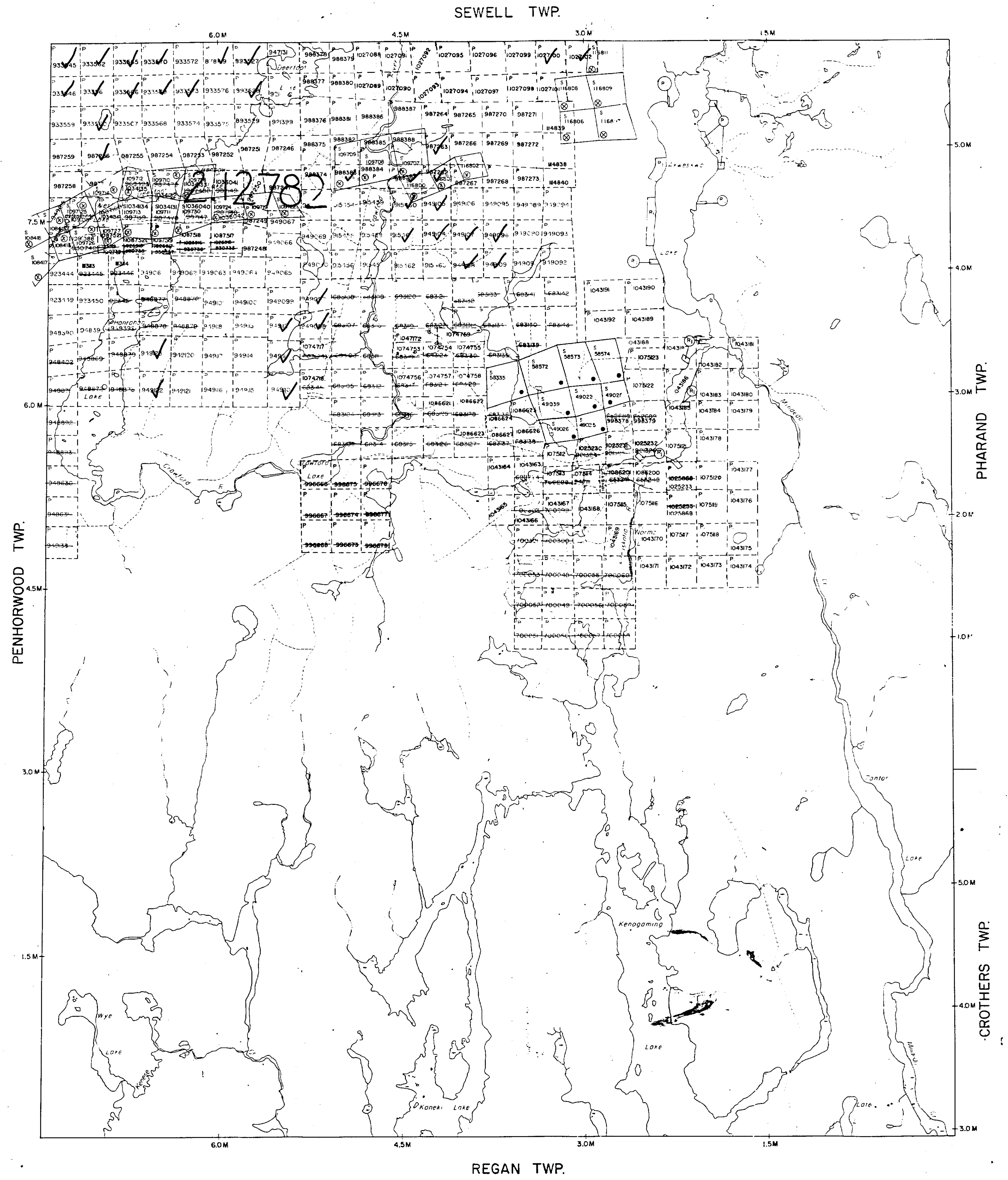
724554	901348	944882	947098	987275
755310	901353	944886	947099	987276
755311	901354	944889	947101	987282
755315	901356	944890	947104	987291
755318	901357	944891	947105	988383
798200	901358	944893	947106	988389
798201	901359	944894	947108	997101
798202	915460	944896	947251	997103
826331	915461	944897	947253	997117
831625	929607	944898	947257	997131
848909	929609	944899	947258	997148
878419	929610	944900	949096	997149
893526	929611	944902	949097	997152
893527	929612	944903	949098	997154
901327	932074	944904	949104	997182
901328	932075	944905	949105	1027100
901329	932076	944908	949107	1027102
901330	933528	944909	949108	1027204
901331	933545	944910	949109	1029371
901332	933546	944911	949110	1029372
901333	933560	944912	949111	1029373
901334	933561	944913	949112	1033455
901335	933562	944914	949122	1033456
901336	933563	944915	949123	1033458
901340	933564	944916	950273	1033460
901341	933565	947091	987256	1033462
901342	933566	947092	987262	1033463
901343	933569	947094	987263	1033465
901346	933570	947097	987274	1072109
1072113	1072116	1072117	1072393	1072394
1072396	1073061	933571	933573	

REFERENCE

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File



LEGEND

HIGHWAY AND ROUTE No
OTHER ROADS
TRAILS
SURVEYED LINES:
TOWNSHIPS, BASE LINES, ETC
LOTS, MINING CLAIMS, PARCELS, ETC
UNSURVEYED LINES
LOT LINES
PARCEL BOUNDARY
MINING CLAIMS ETC
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON-PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◓
" , MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	⬒
" , MINING RIGHTS ONLY	⬓
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	Ⓡ
CANCELLED	⊗
SAND & GRAVEL	Ⓢ

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O 1970, CHAP 380, SEC 63, SUBSEC 1

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

NOTE

(P) PROPOSED COTTAGING AREAS NOTICE RECEIVED DEC 22/89

PORCUPINE MINING DIVISION RECEIVED AUG 10 1989

TOWNSHIP

KENOGAMING

M.N.R. ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

SUDBURY

Ministry of Natural Resources — Land Management Branch
Ontario

Date APRIL 1985
RECEIVED APR.22/87

Number G-3239

42A04NW0004 2.12782 REEVES

200

REFERENCE

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY

S.R.O. – SURFACE RIGHTS ONLY

M.+ S. – MINING AND SURFACE RIGHTS

	Description	Order No.	Date	Disposition	File
R1	400' RESERVE			S.R.O.	135537
R2	SEC. 43/70	W.91/72	27/12/72	S.R.O.	163006 V.2
R3	SEC. 36/80		11/7/81	S.R.O.	135537
R4	ORDER OF THE MINISTER #33/87 DATED MARCH 30/87 WITHDRAWS MINING AND SURFACE RIGHTS UNDER SECTION 36 OF THE MINING ACT, RSO 1980				

SAND AND GRAVEL

(G1) GRAVEL .... FILE 38729

(G2) GRAVEL PIT .... FILE 13555 V.6

(G3) GRAVEL .... FILE 106274

(G4) QUARRY PERMIT # 22805 ISSUED FOR THE REMOVAL OF QUARTZ JULY 1, 1987.

(G5) QUARRY PERMIT # 22808 ISSUED FOR THE REMOVAL OF QUARTZ SEPT. 10, 1987.

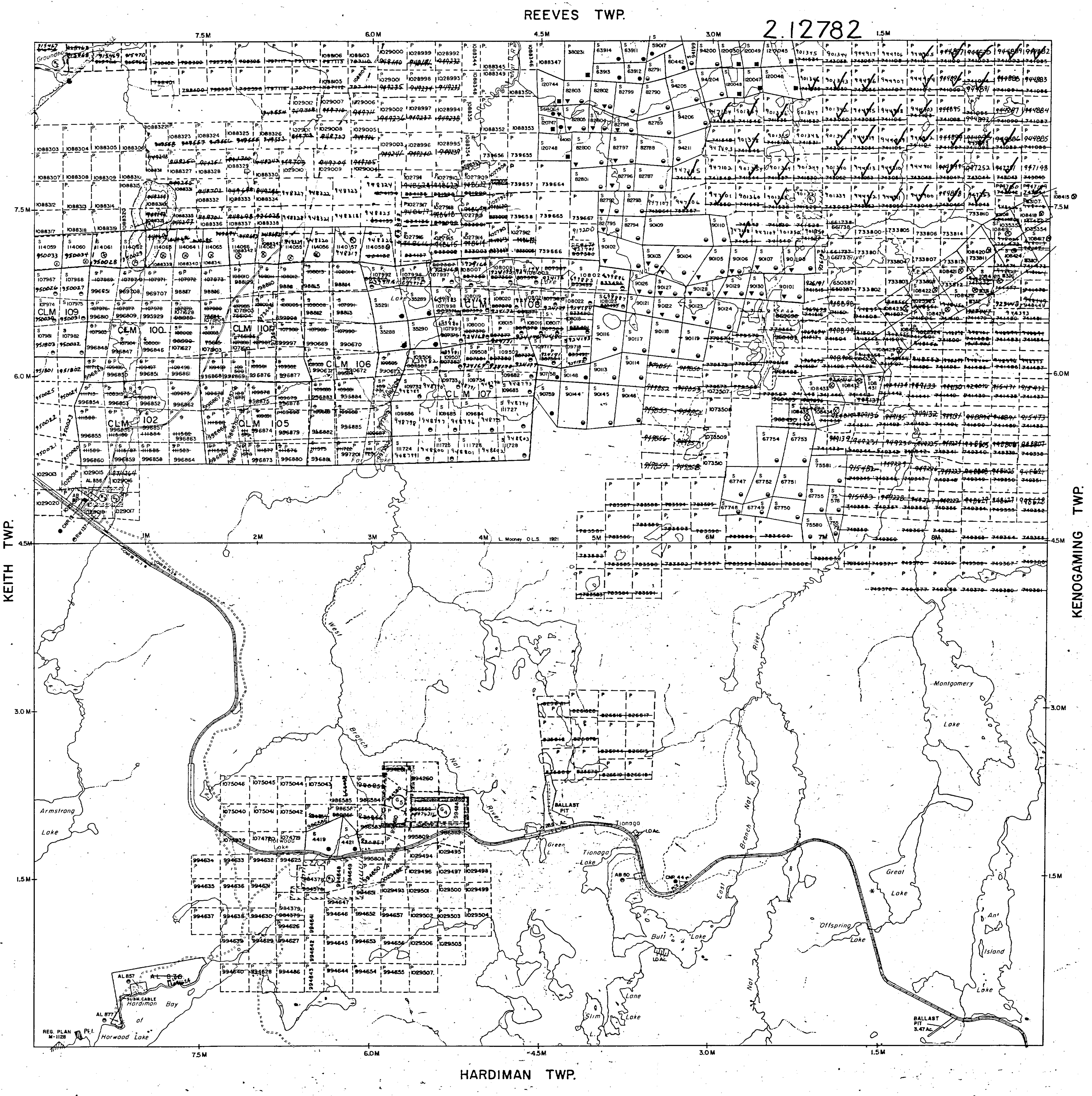
NOTES

FLOODING RIGHTS ON HORWOOD LAKE RESERVED TO ONTARIO HYDRO TO CONTOUR ELEVATION 117' .... L.O. 7746

PORCUPINE MINING DIVISION
RECEIVED
MAY 26 1989

42A04NW0004 2.12782 REEVES

210



LEGEND

HIGHWAY AND ROUTE No.
OTHER ROADS
TRAILS
SURVEYED LINES:
TOWNSHIPS, BASE LINES, ETC.
LOTS, MINING CLAIMS, PARCELS, ETC.
UNSURVEYED LINES:
LOT LINES
PARCEL BOUNDARY
MINING CLAIMS ETC.
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON-PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◓
" , MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	⬒
" , MINING RIGHTS ONLY	⬓
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	ⓡ
CANCELLED	⊗
SAND & GRAVEL	ⓢ
LAND USE PERMIT	*

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 (1 KM) 2000 (2 KM)

TOWNSHIP

PENHORWOOD

M.N.R. ADMINISTRATIVE DISTRICT

CHAPLEAU

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

SUDBURY

Ontario — Ministry of Natural Resources — Land Management Branch

Date MARCH 1985

Number G-3244

checked June 14/85

MELROSE TP. M.861

MUSKEGO TP. M.881

SEWELL TP. M.1102

PENHORWOOD TP. M.1055

THE TOWNSHIP OF

REEVES

DISTRICT OF SUDBURY

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	● or (P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C
PATENTED S.R.O.	

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O. 1970.

Order No.	File	Date	Disposition
(43)	63302	27 7 72	S.R.O. M.R.

(5) S.R.O. withdrawn from staking under Section 43 of the Mining Act, R.S.O. 1960 File 163216

RECEIVED
JUN 5 1980
PORCUPINE MINING DIVISION

2.12782

Rec. Feb. 11/80

PLAN NO. M.1074

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

42A04NW0004 2.12782 REEVES

220

REFERENCES

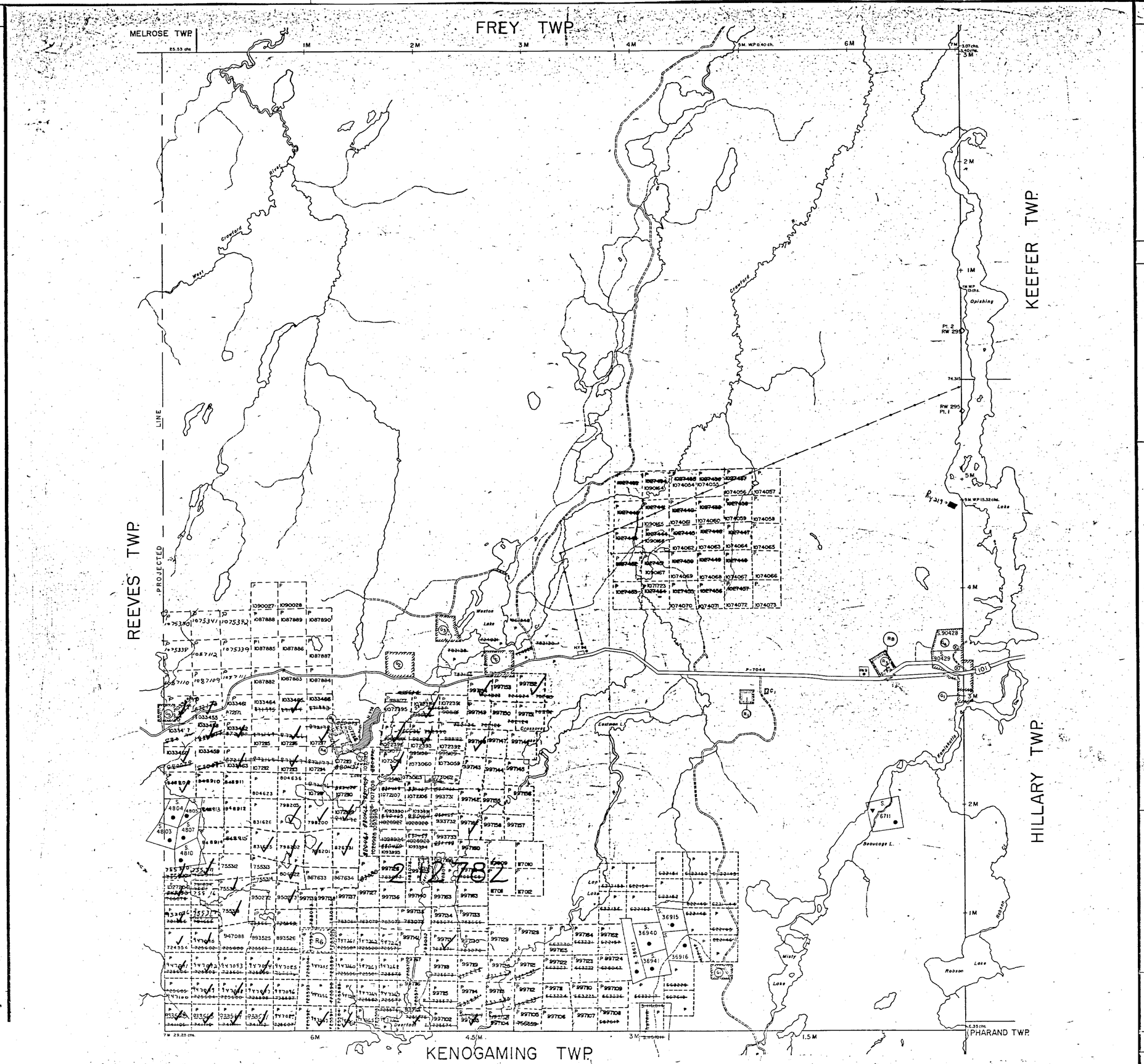
AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M+S. – MINING AND SURFACE RIGHTS

	Description	Order No.	Date	Disposition	File
R1	SEC 43/70	W.30/77	11/3/77	S.R.O.	135748
R2	SEC. 43/70	W.19/78	10/4/78	S.R.O + M&S	188543
R3	SEC. 43/70	W.10/78	14/11/78	S.R.O.	135748
R4	DUMP ATTENUATION ZONE				
R5	SEC. 36/80	W. 46/83	14/8/83	M. + S.	
R6	Not open for staking AWAITING INSPECTION 71/86				
R7	"FILED ONLY" D-26/86				
R8	NOT OPEN FOR STAKING + BONA FIDE APPLICATION UNDER PUBLIC LANDS ACT PENDING. 21/01/87				

SAND AND GRAVEL

G1	GRAVEL	FILE 135748		
G2	M.T.C.	PIT 1577		
G3	M.T.C.	PIT 3M-1	FILE 135748	
G4	M.T.C.	PIT 1575		
G5	M.T.C.	PIT 3M-2	FILE 184702	
G6	M.T.C.	PIT 1243		



LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◓
" , MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	▬
" , MINING RIGHTS ONLY	▬
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	®
CANCELLED	⊗
SAND & GRAVEL	G

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

TOWNSHIP

SEWELL

M.N.R. ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

SUDBURY

Ontario Ministry of Natural Resources — Land Management Branch

Date MARCH, 1985

Number G-3247

SEWELL LAKE

KENOGAMING LUMBER ROAD

APP LAKE

DEERFOOT LAKE

HANRAHAN LAKE

SEWELL TWP.

KENOGAMING TWP.

PENHORWOOD LOGGING ROAD

STRIPPED AREA
1500 ppb Au

1:5000
TRENCH 18 AREA

old trenches
0.45 oz T Au

STRIPPED AREA

0.8 oz T Au

TRENCH 10

TRENCH 11
abandoned due to thick overburden

TRENCH 12

TRENCHES 13 14

TRENCHES 15 16
abandoned due to thick overburden

1:5000
FOUR CORNERS EAST HALF

No. 3

2.12782

Dave R Alexander
AMERICAN BARRICK
RESOURCES CORPORATION

– Claims on which Assays were taken

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for AMERICAN BARRICK RESOURCES CORPORATION		
	Title REEVES J.V. PROPERTY CLAIM MAP AND LOCATION OF 1988 TRENCHES MAP 1		
	Date: Feb. 88	Scale: 1 : 10,000	N.T.S.:
	Drawn: SS/BSB	Approved: [redacted]	File: M-223

804636

1072111

1072110

SEWELL LAKE

798203

798200

1072109

798202

798201

826331

x98944 0.12
98943 0.73
98924 0.09
98929 0.66
98935 1.38
0.16, 0.36, 0.05, 0.03
98939 0.04
98942 0.09
x98904 0.19
x98902
x98903 0.02
x98925 0.78
x98926, 27 | 57, 248
x98928 3.14
x98930 0.42
x98931, 98932 14, 0.20
x98933, 34 1.72, 0.11
x98940 1.36
x98941 0.30
x98901 0.10
x98900 0.13
x98989 0.10
x98899 0.01
x98972 0.13
x98990 0.12
x98991 0.10
x98909 0.10
x98905 7 0.12, 0.09 0.16
x98908 0.12
x98945 0.47

N

Dan R Alexander
AMERICAN BARRICK
RESOURCES CORPORATION

AMERICAN BARRICK
RESOURCES CORPORATION

checked

SEWELL -- REEVES

TRENCH 18 AREA

SCALE 1:5000

100 50 0 100 200 300 400

METERS

DATE: Jan 23/90 DRAWN BY: JM | CHECKED BY: DRA NTS NO.:

42A04NW0004 2.12782 REEVES

933571
947089
947257
947258
947265
947266
933570
933572
878419
893527
947131
DEERFOOT LAKE
933569
933573
933576
893528
921400
933568
933574
933575
893529
921399

AMERICAN BARRICK
RESOURCES CORPORATION

AMERICAN BARRICK RESOURCES CORPORATION

checked

SEWELL – REEVES

FOUR CORNERS EAST HALF

SCALE 1:5000

100 50 0 100 200 300 400
METERS

DATE: Jan 23/90 | DRAWN BY: TBM | CHECKED BY: DAA | NTS NO.:

987291 987282 987281 1029373 932076 755317 755318

901328 901330 901331 901337 724554 947090 947088

901329 901332 901336 947091 947092 947093

929610 929611 901327 901333 901335 947100 947099 947098

929608 929609 929612 901334 932075 932074 933528 933563 933564

944897 944890 944889 944882 933545 933562 933565

944906 944905

944907 944904 944896 944891 944888 944883 933546 933561 933566

944908 944903 944895 944892 944887 944884 933559 933560 933567

944909 944902 944894 944893 944886 944885 987259 987256

Dale R Alexander
AMERICAN BARRICK RESOURCES CORPORATION

AMERICAN BARRICK RESOURCES CORPORATION
checked
FOUR CORNERS WEST PART
SCALE 1: 5000
100 50 0 100 200 300 400
METERS
DATE Jan 23/90 DRAWN BY DRAFTED BY DRA

HIGHWAY 101

HIGHWAY 101

REEVES ASBESTOS MINE

1:5000
FOUR CORNERS WEST PART

CHUBB LAKE

REEVES TOWNSHIP

PENHORWOOD TOWNSHIP

REEVES TWP.
SEWELL TWP.

PENHORWOOD TWP.
KENOGAMING TWP.

HANRAHAN LAKE

DRILLHOLE N-9 sampled

98889
Au 0.07
Cu 150
Ni 190
Zn 22
Ag <1

DRILLHOLE N-8

DRILLHOLE N-7

2.12.82

Dave R Alexander
AMERICAN BARRICK RESOURCES CORPORATION

AMERICAN BARRICK RESOURCES CORPORATION

SEWELL – REEVES
EAST BLOCK
(WEST HALF)

SCALE 1:10,000

200 100 0 200 400 600 800
METERS

DATE:	DRAWN BY: BM	CHECKED BY:	NTS NO.:

42A04NW0004 2.12782 REEVES

HIGHWAY 101

SEWELL LAKE

KENOGAMING LUMBER ROAD

1:5000
TRENCH 18 AREA

1:5000
FOUR CORNERS EAST PART

LAPP LAKE

AKWESKWA LAKE

DEERFOOT LAKE

HANRAHAN LAKE

SEWELL TOWNSHIP
KENOGAMING TOWNSHIP

DRILLHOLE N-14

DRILLHOLE N-11

DRILLHOLE N-12

DRILLHOLE N-13

DRILLHOLE N-10

2.12782

Dale R Alexander
AMERICAN BARRICK
RESOURCES CORPORATION

AMERICAN BARRICK RESOURCES CORPORATION

SEWELL – REEVES
EAST BLOCK
(EAST HALF)

SCALE 1:10,000

200 100 0 200 400 600 800
METERS

DATE:	DRAWN BY: BM	CHECKED BY:	NTS NO.:

HIGHWAY 101

REEVES ASBESTOS MINE

1:5000
FOUR CORNERS
WEST HALF

CHUBB LAKE

MAP 2

REEVES TWP.

SEWELL TWP.

PENHORWOOD TWP.

KENOGAMING TWP.

ROAD no. 3

1:5000
FOUR CORNERS
EAST HALF

PENHORWOOD LOGGING ROAD

HANRAHAN LAKE

STRIPPED AREA

old trenches
0.45 oz-T Au

0.11 oz T Au

visible gold

TRENCH

TRENCH II
abandoned due to thick overburden

TRENCHES

TRENCHES
abandoned due to thick overburden

1033456 1033461 1033464 1033465
1033457 1033458 1033462 10721 15 10721 16
1033460 1033459 1033463 10721 12 10721 13
987276
848909 848910 848911 804623 804636
987296 987287 987286 987277 987275
848913 848912 831626 798203
987295 987288 987285 987278 987274
848914 848915 831625 798202
987294 987289 987284 987279 1029371
755311 755312 755313 804622
755310
987293 987290 987283 987280 1029372
1027204 755314
755316 755315 950272 950273
987292 987291 987282 987281 1029373
932076 755317 755318
901328 901330 901331 893525 893526
901337
724554 947090 947088
901329 901332 901336 947094 947085
947091 947092 947093
929610 929611 901327 901333 901335 947097 947096
947100 947099 947098
929606 929607 929608 929609 929612 932075 901334 932074 933563 933564 947089
933528 933571
944905 944897 944890 944889 944882
901344 944917
944906 944904 944896 944891 944888 944883
901343 944916
901346 944907 944903 944895 944892 944887 944884
901342 944915
947104 901357 901356 901347 933545 933562 933565 933570 933572
944908 944902 944894 944893 944886 944881
901341 944914
947103 901358 901355 933546 933561 933566 933569 933573
944909 944901 944899 947252 947251 947248
901340 944913
947102 901359 901354 933559 933560 933567 933568 933574
944910 944900 944898 947150 947249
947105 901339 944912
947101 901360 901353 944911
947107 947106
947108 947109
987259 987256 987255 987254 987253
987258 987257
949062
949123 949120
949122 949121