



32E13NE0086 2.4285 HOPPER LAKE

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MINING LANDS SECTION

A REPORT ON

OVERBURDEN DRILLING

LOWER DETOUR LAKE AREA (M2603)

AND HOPPER LAKE AREA (M2601)

BY

C. ROCKINGHAM

WESTMIN RESOURCES LIMITED

CLAIMS: P.549918-931 incl.
 P.553303-483 incl.
 P.553503-574 incl.
 P.577751-774 incl.
 P.577792-810 incl.
 P.575672-673 incl.

N.T.S. 32-E-13

July 1981.

C. Rockingham M.Sc.

INTRODUCTION:

During the winter of 1981 a program of overburden drilling was completed by Westmin Resources Limited (formerly Western Mines Limited) on claims held in the Lower Detour Lake area (M2603) and Hopper Lake area (M2601). These claims are north of Detour Lake, north and west of Lower Detour Lake and east of Hopper Lake.

PROPERTY:

The property consists of 312 unpatented mining claims which are located in the Hopper Lake and Lower Detour Lake areas. The claims are as follows:

P549918 - P549931
 P553303 - P553483
 P553503 - P553574
 P577751 - P577774
 P577792 - P577810
 P575672 - P575673

FIELD PROGRAM:

A field program of overburden and bedrock drilling was carried out under contract to Bradley Bros. for Westmin Resources Limited.

During the period January 20 to February 6, 1981, 61 overburden drill holes were drilled. Total footage drilled was 5,473 feet. All overburden was sampled except the clay sections. The depth of holes varied from 192 feet in hole DO-81-09 to 14 feet in hole DO-81-56.

The location of the holes are as follows:

<u>Drill Hole</u>	<u>Claim</u>
DO-81-01	P553334
-02	P553327
-03	P553312
-04	P553327

<u>Drill Hole</u>	<u>Claim</u>
DO-81-05	P553332
-06	P553332
-07	P553552
-08	P553477
-09	P575672
-10	P553475
-11	P553308
-12	P553306
-13	P553546
-14	P553547
-15	P553533
-16	P553531
-17	P553511
-18	P553506
-19	P553448
-20	P553446
-21	P553444
-22	P553405
-23	P553405
-24	P553370
-25	P553370
-26	P549927
-27	P553365
-28	P553374
-29	P553402

<u>Drill Hole</u>	<u>Claim</u>
DO-81-30	P553419
-31	P553441
-32	P553452
-33	P553453
-34	P553503
-35	P553515
-36	P553515
-37	P553523
-38	P553536
-39	P553543
-40	P553556
-41	P553556
-42	P553303
-43	P553316
-44	P553323
-45	P553323
-46	P553336
-47	P553342
-48	P553338
-49	P553321
-50	P553321
-51	P553318
-52	P553561
-53	P553558

<u>Drill Hole</u>	<u>Claim</u>
DO-81-54	P553558
-55	P553558
-56	P553541
-57	P553538
-58	P553521
-59	P553461
-60	P553467
-93	P553332

The work is being filed under Section 86-18 of the Mining Act. An assessment credit of 14,501.94 days is submitted against these claims.

COST SUMMARY:

Jan 20 - Feb 6/81

1) Bradley Bros. as per Invoice
Supplies, etc. Feb. 1 to Feb. 28 \$ 30,366.70

Minus

Food for Labelle personnel	1,701.00
Cook tent	1,265.00
Oil stove	609.30
Prefab lavatory	162.00
2 Empty drums	46.00
Cook's wages Feb. 6-28	2,061.84
Cook's assistant Feb. 6-28	1,037.14
Radio rental " "	107.14
Skidoo " "	714.28
Tent rentals " "	1,714.28

\$20,948.72

Drilling Invoice Feb. 1 to Feb. 28 \$ 105,712.50

Minus

Feb. 20 24 man hours	456.00
Move equipment between areas	1,870.00
197.5 hrs. drilling @ \$225/hr.	44,437.50
14 hours breakdown @ \$170/hr.	2,380.00
15 Tricone bits @ \$625	9,375.00
3 Adaptors @ \$495	1,485.00
7 Rods @ \$475	3,325.00
66 hrs. walking time @ \$19	1,254.00
Man hours Feb. 7, 13	912.00

\$40,218.00

Drilling Invoice January \$83,412.00

Materials and Supplies Invoice January \$34,050.59

2) Westmin Resources internal charges and contract geologist*

C. Rockingham 24 days @ \$150/day	\$ 3,600.00
D. Robinson 17 days @ \$175/day	2,975.00
*G. Thomas 22 days @ \$175/day	3,850.00
D. Lewis 22 days @ \$66.30/day	1,458.60
M. Mahaffy 23 days @ \$58.50/day	1,345.50
L. Nutter 22 days @ \$58.50/day	1,287.00

Field Administration 24 days @ \$122.25 2,934.00

Office Report and administration 3 days
@ \$272.25 816.75

Project travel (truck rental, airline tickets) 1,082.77

\$19,349.62

3)	Overburden Management Ltd. as per Invoice	
	628 samples - 55 bedrock samples @ \$20.00	\$ 11,460.00
	55 bedrock samples @ \$2.00	110.00
	Shipping expenses	286.55
	" " -\$23.10 (X-Ray Assay)	1,446.40
	Sample buckets, bags, seives, etc.	1,043.17
		<hr/>
		\$ 13,302.96
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4)	Bondar-Clegg and Co. as per Invoices	
	Analysis of heavy mineral concentrates	\$ 5,689.90
	Analysis of bedrock samples	557.25
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		\$ 6,247.15
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Credit

Total cost against assessment	\$217,529.04
Total footage	5,473.00
Total days credit as per Section 86-18 (\$15/day max. 60 days/claim)	14,501.94
Total days credit against claims is 46.48 days per claim	

Credit is being applied against the following claims:

P549918	-	P549931
P553303	-	P553483
P553503	-	P553574
P577751	-	P577774
P577792	-	P577810
P575672	-	P575673

DESCRIPTION OF OVERBURDEN AND
BEDROCK DRILLING AND SAMPLING:

The equipment was a Longyear drill converted to dual tube reverse circulation. It is mounted on a Nodwell FN-160 carrier. Power for the drill is taken from the drill engine with aid of hydraulics. The drill string comprised 9 foot sectional dual-tube rods of 2 15/15" size and a standard tri-cone 15/16 bit. Rapid and reliable penetration and recovery of glacial overburden is achieved with a combination of air and water and a 20 foot continuous feed.

Water is pumped down between the outer and inner tubes to exist near the bit cone. The resultant mixture of water and sediment is returned up the centre tube of the drill string and discharges through a 1 foot diameter steel funnel (cyclone) into a + 300 gallon water recovery tank, thus allowing for recycling of drill water.

Silt, sand gravel are collected below the discharge cyclone in 5 gallon plastic pails which rest upon a steel grate lying on the top of the recovery tank. The clay size fraction is allowed to overflow the pail into the tank. Figure 1, which is reproduced from G.S.C. Open File #116, 1972, is a schematic version of this sampling system.

A 10 mesh Tyler screen is placed over the bucket to allow the geologist to continuously log the nature of the coarser

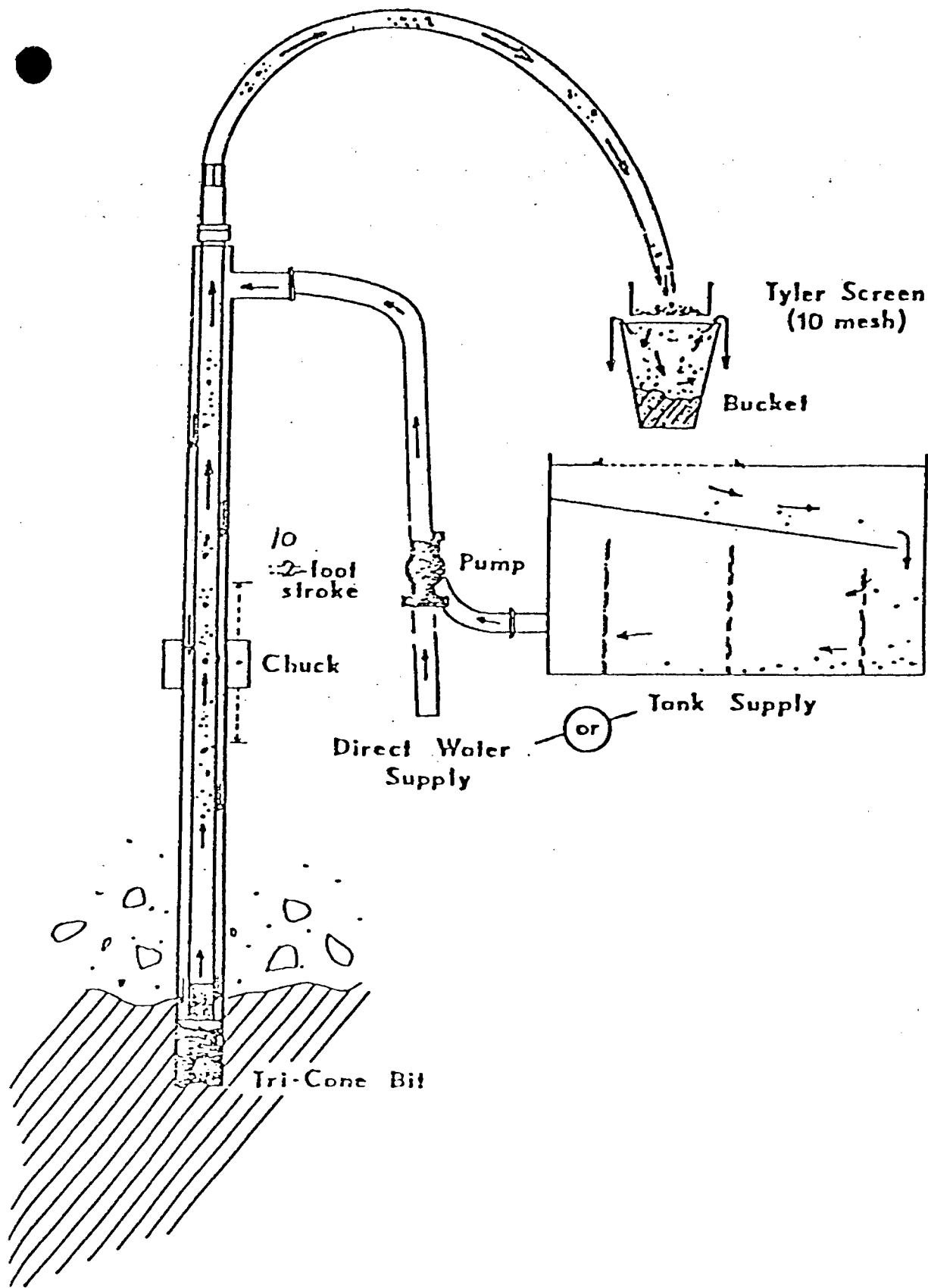


FIGURE 1 Schematic Section of Dual Tube Drilling System

drift particles, i.e. sand, gravel and till chunks, and a portion of the +10 mesh fraction may be temporarily retained for field geological examination. In normal practice, however, the +10 mesh fraction is dumped into the bucket at the end of each run so that all sediment, exclusive of clay fines, are available for laboratory investigation. Samples are bagged from each run at periodic intervals and transported to a central laboratory.

Drilling continues below the glacial drift section into bedrock for depths of 1 ft. to 5 ft. The +10 mesh bedrock chips, which are up to 1/2" in diameter, are collected on the Tyler screen during drilling and kept separately from -10 mesh bedrock fines which pass into the sample bucket.

LABORATORY TEST WORK:

The samples, as received from the drill, are sent to the Overburden Management Ltd., in Ottawa, for heavy metal separation. The samples are passed through a 10 mesh screen and the -10 mesh part (most of the sample) is passed over a shaking table and the heavys and lights are separated. The heavy fraction is dried, mixed with a solution of methylene iodide of 3.35G and the heavy part of the heavys are collected. A 3/4 split of the heavy segment is then sent to Bondar-Clegg Laboratory for analysis of copper, zinc, lead, nickel, silver, and gold.

Bedrock chips from each hole are also collected, examined and analysed.

July 10, 1981.

WESTERN MINES LTD.

GEOLOGIST: F. Thompson DATE: January 21, 1981 HOLE # DO-81-01
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: South of Gov't. Line Winter Road
 BIT NO.: 62316 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses								
0-30			No Return									
30-42		01	Poor return - fine sand	Cu	Pb	Zn	Ni	Ag	Wt	Au		
				100	33	115	31	0.6	I.S.	-		
42-48		N.S.	At 42' Water swivel packing freed from return hose Grey Clay - soft smooth non-gritty.									
48-61		02	Gravel - Cobbly with medium grained sand matrix. 50% granite + gneisses; 30% volcanics and sediments; 15% limestone.	113	18	64	35	0.4	6	65		
		03		98	35	57	45	0.2	7	165		
61-115.5		04	Till - Cobbly with gritty grey clay lumps 60-70% volcanics + sediments; 20% granites + gneisses; No limestone. Granites + gneisses content higher 61-66.	77	18	44	28	0.2	5	140		
		05		64	12	29	24	0.1	4.3	60		
		06	Gabbro boulder 61-62.5 Abundant clay lumps 61-79 and 92-95%. Two large volcanic cobbles at 79'.	45	13	36	18	0.2	3.6	95		
		07	Only minor clay in matrix 79-84'.	48	22	28	18	0.1	4.9	605		1 grain of v.g. 250µ transported
		08		39	13	32	18	ND	3	65		
		09	Sharply higher argillite content 96-104.	74	141	88	35	0.3	1.45	70		
		10										

Hole No.	Page No.
DO-81 01	1 of 2

WESTERN MINES LTD.

GEOLOGIST: F. Thompson DATE: January 21, 1981 HOLE # DO-81-01
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: Gov't. line east of Winter Road
 BIT NO.: 62316 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
				Cu	Pb	Zn	Ni	Ag	Wt	Au
		10	Clay content increasing to 115'.	69	23	33	34	0.1	7.8	750
		11		73	28	38	30	0.2	5.6	250
110		12	Pile of cobbles and boulders (primarily volcanics) 115-118, white, granite boulder 118-119.5.	186	24	52	52	0.2	2.1	170
		13		240	60	140	142	1.2	4.25	530
120		14	119.5-134' Gravel - Cobbly with medium sand matrix 50% volcanics + sediments, 20-30% granites + gneisses, 15% limestone. Poor return 123-132' - bit blocked.	285	50	102	86	0.7	7.0	835
130		NS	134-142' Sand - medium grained with thin clay beds.							
		15		172	33	76	62	0.4	10.0	130
140		16	142-147' Till - Cobbly - almost no matrix - primarily volcanics similar to bedrock.	220	51	64	116	1.3	10.0	230
150		17	Diorite(?) 147-154' Bedrock - Mottled light and dark green - soft trace pyrite. Quartz eyes in feldspathic and chloritic matrix.	3	2	27	18	ND	-	5

C. Richardson

WESTERN MINES LTD.

GEOLOGIST: C. Rockingham/D. Robinson DATE: Jan. 21/81 HOLE # DO-81-02

SAMPLER: D. Lewis CLAIM GROUP: Detour Block PROV.: Ontario

CONTRACTOR/
DRILLER: G. Gagne FIELD
LOCATION: Winter Road

BIT NO.: _____ NTS: 32E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
		0-32' - <u>Swamp</u> - humus, clay pebbles, very sparse return.							
30	DO-81-02 1	32-38' - <u>Pebbly Sand</u> - fine to medium sand matrix, <50% volcanic & sediment 35% granite, <15% limestone.	Cu 88	Pb 19	Zn 50	Ni 28	Ag 0.2	Wt 7.9	Au 45
40	DO-81-02 2	38-42' - <u>Gravel</u> - clast dominant 50% volcanic, sediment, <30% limestone.	120	24	60	36	0.2	3.5	230
50	DO-81-02 3	42-50' - <u>Pebbly Sand</u> - fine sand and matrix, volcanic, sediment, granite, very minor limestone.	76 1 grain v.g. 150µ	30	35	24	0.2	9.0	195
60	DO-81-02 4	50-58' - <u>Pebbly Till</u> - fine sand & clay matrix, volcanic, sed. granite & very minor limestone.	80	16	52	25	0.2	9.5	10
70	DO-81-02 5	58-65' - <u>Till</u> - very minor clay, fine sand - silt matrix coarse pebbles.	92	18	38	32	0.3	10.0	210
80	DO-81-02 6	65-79' - <u>Gravel</u> - cobbly, no matrix, 60% granite, 5% limestone, no clay, minor fine to medium sand.	300	17	150	37	0.3	8.5	10
90	DO-81-02 7	79-86' - <u>Gravel</u> - very minor return.	128	18	52	30	0.2	6.5	15
100	DO-81-02 8	86-96' - <u>Clay and Sand</u> - alternating beds.	100	16	42	30	0.1	9.0	95
110	DO-81-02 9	96-106' - <u>Clay and Sand</u> - alternating fine sands with clay.	93	16	35	26	0.1	10.0	10
120	DO-81-02 10	106-115' - <u>Sandy Gravel</u> - predominately volcanic clasts, 60% granite fine quartz - rich sand - grey-white (till balls).	158	50	53	35	0.2	5.4	130
130	DO-81-02 11	115-125' - <u>Gravelly Sand or Pebbly Sand</u> mixed volcanic and sediment pebbles, fine sandy matrix 30% granite.	132	17	45	30	0.2	6.5	25
140	DO-81-02 12	125-140' - <u>Sand</u> 99% sand, 1% volcanic & sed pebbles, minor + 10.	76	15	36	28	ND	8.5	95

WESTERN MINES LTD.

GEOLOGIST: C. Rockingham/D. Robinson DATE: Jan. 21/81 HOLE # DO-81-02
 SAMPLER: D. Lewis CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/DRILLER: G. Gagne FIELD LOCATION: Winter Road
 BIT NO.: _____ NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			Cu	Pb	Zn	Ni	Ag	Wt	Au
	DO-81-02 13	140-151' <u>Sand Clay</u> - fine grey sand and grey clay balls, +10-10% 60% mafic volcanic.	74	19	37	22	ND	8.0	300
	DO-81-02 14	157-159' <u>Gravelly Sand</u> - grey-white sand matrix, mixed pebbles, 99% + 10, 60% granitic, 40% volcanic, <<1% limestone.	62	12	23	20	0.1	8.5	40
		159'	<u>Granitic boulder</u> End of hole.						

C. Rockingham

WESTERN MINES LTD.

GEOLOGIST: C. Rockingham/G. Thomas DATE: Jan. 22/81 HOLE # DO-81-03
 SAMPLER: L. Nutter/M. Mahaffy CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ Bradley Bros. FIELD
 DRILLER: D. Jodouin/ G. Gagne LOCATION: Gov 't. line east of Winter Road
 BIT NO.: 62136 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
0-10		Organic - very little return.							
10-17		<u>Cochrane Till</u> 98% grey clay, gritty clay balls. 2% limestone pebbles.							
17-38		<u>Clay + Silt</u> Grey clay in rope like strings. Silt - grey with clay interbeds.							
30	01		<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ni</u>	<u>Ag</u>	<u>Wt</u>	<u>Au</u>
			90	38	105	32	0.4	9.5	55
38-45		<u>Gravel</u> 30% limestone 50% granite pebbles minor mafic cobbles.							
45-65	02	<u>Till</u> Polymictic pebbles + clay balls, more clay than pebble	122	43	122	32	0.9	9.0	10
	03	limestone cobble - clay + gravel may be stratified.	156	40	119	36	0.6	7.5	5
	04	- diorite cobble	134	36	139	37	0.4	5.0	20
	05	- medium to coarse sand	265	26	80	58	0.4	6.0	20
	06	<u>Bedrock</u> - Mafic volcanic.	91	ND	70	20	ND	-	L5

C. Rockingham

WESTERN MINES LTD.

GEOLOGIST: G. Thomas, F. Thompson DATE: January 22, 1981 HOLE # DO-81-04

SAMPLER: M. Mahaffy CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: Gov't. line east of Winter Road

BIT NO.: B62318 NTS: 32 E-13
B62316
B62321

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
10		1	0-70' - Gravel 0-20' - Gravel - Medium sized pebbles Grey silt and clay matrix. Clay as small balls.	Cu	Pb	Zn	Ni	Ag	Wt	Au
				98	28	116	29	0.3	9.0	65
20		2	20-30' - Gravel - medium sized poly-mictic pebbles; limestone up to 5%. Mafic cobble. Grey silt and clay matrix.	130	20	70	41	0.3	6.9	10
30										
40		3	30-50' - Gravel - Cobbles mafic and granitic; minor limestone. Grey silt and clay matrix, fine and medium sand abundant.	96	28	46	28	0.2	10.0	25
50		4	50-60' - Gravel - fine, medium sand matrix, silt; limestone pebbles up to 5%.	110	20	49	21	0.3	9.9	35
60		5	60-70' - As above.	60	13	29	30	3.6	7	185
				1 grain v.g. 150 μ transported						
70		6	70-80' - Till - Grey clay matrix. Mafic cobbles and lesser granitic pebbles. 73-75' - less clay, increase in fine sand.	115	25	38	28	0.2	7	120
		7	75-80 - Mafic cobbles, minor limestone	88	13	36	28	0.2	5	590
80		8	80-105' - Gravel - Fine and medium sand, minor silt matrix. 82' - Mafic cobbles - Contain epidote. Argillite cobbles and boulders; some granitic.	61	8	34	20	ND	8	25
		9	90-100' - Cobbles and boulders, argillaceous, altered. Minor fine sand matrix. Resembles a cobble-rich gravel. 92' - Epidote boulder.	48	13	23	22	0.2	4.05	210
90		10	95-96' - Granitic boulder. 96-97' - Argillaceous boulder-contains white vein quartz. Trace pyrite. 97' - Till horizon - clay balls up to 30%.	100	14	33	37	0.6	9.5	15
100				1 grain v.g. 300 μ transported						

Hole No. DO-81-04 Page No. 1092

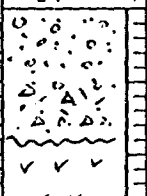
WESTERN MINES LTD.

GEOLOGIST: G. Thomas, F. Thompson DATE: January 22, 1981 HOLE # DO-81-04

SAMPLER: M. Mahaffy CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: Gov't. line east of Winter Road

BIT NO.: B62318 NTS: 32 E-13
B62316
B62321

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
				Cu	Pb	Zn	Ni	Ag	Wt	Au
110		11	100-105' - Gravel - pebbles and coarse sand matrix.	230	22	62	68	0.4	6.0	100
		12	105-109' - Till - Abundant clay balls; mafic pebbles. 109-114' - Bedrock - Mafic tuff pale green, schistose, chloritic minor quartz veins.	77	2	70	43	ND	-	15
120			114' - End of Hole.							

C. Rodinger

WESTERN MINES LTD.

GEOLOGIST: G. Thomas, F. Thompson DATE: January 22, 1981 HOLE # DO-81-05
D. Robinson
 SAMPLER: M. Mahaffy CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: Gov't. Line East of Winter Road
 BIT NO.: B62321 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses												
0-15'	Y		Swamp													
15-60'	Y	1	Gravel - Fine to medium sand matrix.	Cu 145	Pb 28	Zn 81	Ni 126	Ag 0.2	Wt 3.1	Au 15						
17-18'	Y		Granitic boulder													
18-24'	Y	2	Gravel and boulders - fine sand and silt matrix - grey; granitic, minor limestone and greenstone, altered.	102	16	64	50	0.2	8.0	545						
24-30'	Y	3	Gravel - Pebbles, cobbles and boulders mainly granitic; minor limestone. Small clay bed at 29.5'.	100	20	63	32	0.3	2.5	20						
30-35'	Y	4	Gravel up to 50% limestone; fine to medium sand matrix. 34'-narrow gravelly till layer, clay balls; limestone, pink granitic cobble.	100	20	66	29	0.3	5.25	1570	1 grain v.g. 200µ	transported				
35-40'	Y	5	Gravel - Volcanic; quartz, granitic and argillaceous pebbles. Fine sand and silt matrix. Return lost at 44'; recovered at 48'.	85	19	36	28	0.2	2.75	35						
48-54'	Y	6	Gravel - Fine sand and silt matrix, minor clay.	80	25	32	26	0.2	7	55						
48'	Y		Clay matrix - coarse mafic sand component.													
53'	Y		Coarse grey - brown sand.													
54-60'	Y	7	Gravel - Minor limestone, medium and coarse sand matrix.	95	21	27	29	0.2	9	815						
60-75'	Y	8	Till - 50% Grey clay balls for first 2 ft. Sandy and gravelly; mafic pebbles, minor limestone.	85	12	24	21	0.2	4.3	865						
70-75'	Y	9	Till - Boulders in clay - up to 5% clay balls; granitic. Medium sand matrix.	45	55	28	23	0.3	3.85	60						
75-77'	Y	10	Gravel - Polymictic pebbles; medium to coarse sand matrix.	48	12	21	20	0.5	10	14975						
76-77'	Y	11	Sand bed.													
77-81'	Y		Bedrock - Intermediate volcanic massive, angular chips, black to purplish, very hard and siliceous 5% calcite veins.								5 grains v.g. 1-600µ	1-250µ all irregular	3-150µ in shape			

C. Robinson

WESTERN MINES LTD.

GEOLOGIST: C. Rockingham DATE: Jan. 22/81 HOLE # DO-81-06
 SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/D. Jodouin FIELD LOCATION: Gov't. line east of Winter Road
 DRILLER: LOCATION: @ creek
 BIT NO.: 62320 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
0-10		Organic							
10-20		Clay - grey, rope-like.							
20-25		Sandy Gravel							
25-30	01	Intrusive, gneiss and limestone pebbles. Fine grey-white sand matrix	Cu	Pb	Zn	Ni	Ag	Wt	Au
			124	50	150	40	0.6	10.0	60
			1 grain v.g. 100µ transported						
30-35	02	Intrusive cobbles.	185	26	84	44	0.4	10.0	145
35-40		Gabbro boulder. Limestone pebbles 1%							
40-45	03		152	24	63	34	0.4	8.5	10
45-55	04		124	23	76	34	0.3	10.0	15
55-60	05	Till Clay balls - grey, gritty variable content in the section	78	23	50	33	0.7	1.9	80
60-65	06	Sandy silt matrix - fine grain Pebbles - 75% mafic volcanic + sediments, possibly local	63	10	34	22	0.2	5	70
65-70	07	25% intrusive + gneiss - no limestone.	57	16	30	27	0.2	3.65	125
70-75	08		69	14	40	29	0.3	2.2	2525
75-80	09	clay balls	146	31	80	60	0.4	2.05	50
80-85	10		78	20	36	36	0.2	6	25
85-90	11	grey clay adhering to pebbles	182	57	58	73	0.6	10	435
90-95	12		204	50	72	86	0.8	10.0	60
95-100	13		186	30	91	62	0.4	9.0	15

WESTERN MINES LTD.

GEOLOGIST: C. Rockingham DATE: Jan. 22/81 HOLE # DO-81-06
 SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/
 DRILLER: D. Jodouin FIELD LOCATION: Gov't. line east of Winter Road @ creek
 BIT NO.: 62320 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
110 120 126		Grey clay balls 50-80% of sample							
	14	Pebbles volcanic sediment gabbro Sand poor matrix Minor limestone.	Cu	Pb	Zn	Ni	Ag	Wt	Au
			162	26	84	53	0.3	10.0	75
	15	Sandy matrix.	157	36	76	65	0.4	10.0	95
	16	Clay coating on many pebbles Fine sand silt matrix.	159	22	68	60	0.2	10.0	30
	17		125	56	62	51	0.2	5.0	60
			Hole stopped. Pit plugged with pebbles. 12 hours on hole.						

C. Rockingham

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Jan. 23/81 HOLE # DO-81-07
 SAMPLER: D. Lewis CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/DRILLER: G. Gagne FIELD LOCATION: Gov't. Base line East of Winter Road
 BIT NO.: 62317 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses							
			Cu	Pb	Zn	Ni	Ag	Wt	Au	
		0-12' Swamp								
	DO-81-07 1	12-19'- <u>Boulders & Gravel</u> - minor matrix, sandy, minor limestone <5-10%, mafic volcanic, granite.	260	19	60	50	0.2	10.0	35	
	DO-81-07 2	19-26'- <u>Gravel</u> - fine to coarse. Sandy matrix, 5-10% limestone. Mafic volcanic, granite, sandy clay coating on pebbles.	118	17	48	16	0.2	10.0	5	
	DO-81-07 3	26-34'- <u>Till</u> -abundant till balls silt-sand matrix, 10% limestone - volcanic and granite pebbles.	78	18	50	25	0.2	10.0	20	
	DO-81-07 4	34-42'- <u>Clay</u> - green-grey clay, minor pebble component 1% limestone, granite - volcanic.	135	18	96	30	0.2	2.9	570	
	DO-81-07 5	42-48'- <u>Sandy Till</u> - fine silt to sand matrix, few pebbles. Limestone, granite, volcanic sediment, very sandy @ 47'.	84	40	55	30	0.2	6.5	15	
	DO-81-07 6	48-58'- <u>Sandy Till</u> - sandy - silt matrix, scattered cobbles, pebbles, limestone, granite, volcanic, sediment becomes gravelly @ 58'.	84	22	47	35	0.2	6	175	
	DO-81-07 7	58-64'- <u>Gravel - Till</u> - decreased matrix, limestone, granite, volcanic & sediment, pebbles, clay bed @ 62'.	155	27	55	30	0.3	5	60	
	DO-81-07 8	64-72'- <u>Pebbly Till</u> - fine sand matrix, till balls, pebbles-limestone, granite, volcanic, sediment.	86	18	45	28	0.2	2.75	120	
	DO-81-07 9	72-79'- <u>Gravel</u> - boulders and cobbles, sandy matrix, white gneiss boulders.	74	10	38	38	0.2	5	110	
	DO-81-07 10	79-84'- <u>Pebbly sand</u> - minor limestone component, sand dominant. Granite, mafic, volcanic - sedimentary.	98	14	42	38	0.3	4.9	305	
	DO-81-07 11	84-90'- <u>Pebbly Sand - Gravel</u> - fine- medium sand matrix sedimentary pebbles predominant. <5% limestone.	79	14	32	35	0.3	6	290	

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Jan. 23/81 HOLE # DO-81-07
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 BLOCK
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: Gov't. Base Line East of Winter Road
 BIT NO.: 62317 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			Cu	Pb	Zn	Ni	Ag	Wt	Au
90 106	DO-81-07 12	90-95' - <u>Pebble - Clay Till - very minor limestone, fine silt sand - clay matrix.</u>	89	16	36	34	0.2	7	100
	DO-81-07 13	95-100 - <u>Pebby - Sand - Clay Till - abundant clay balls, 75% volcanic & sediments. 20% granite. <5% limestone.</u>	80	18	29	46	0.2	4.5	110
	DO-81-07 14	100-105' - <u>Pebby - Sand - Till - 75-80% volcanic & sedimentary pebbles. <15% granite, 5% limestone. Numerous clay balls, increase in pebble size.</u>	88	16	31	27	0.2	7	5
	DO-81-07 15	105-106' - <u>As above.</u>	530	20	75	65	0.4	I.S.	-
	DO-81-07 16	106-111' - <u>Bedrock - Mafic Tuff Abundant quartz veins. Highly chloritized.</u>	86	2	112	38	ND	-	15

C. Robinson

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Jan. 23/81 HOLE # DO-81-08
 SAMPLER: D. Lewis CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: Gov't. Base Line - East of Winter Road
 BIT NO.: 62320 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			Cu	Pb	Zn	Ni	Ag	Wt	Au
	DO-81-08 1	0-2' - Swamp. 2-4' - Brown clay. 4-10' - Pebbly - sandy - Gravel 50% volcanics & sediments, 30% granite, 15-20% limestone.	57	19	42	21	0.4	1.6	150
	DO-81-08 2	10-18' Pebbly - sandy Gravel Brown sandy - clay matrix Minor clay balls, 50% granite. 30% limestone. 20% volcanics and sediments.	43	14	28	17	0.1	5	110
	DO-81-08 3	18-25' Sand - fine brown sand with minor clay.	23	12	21	11	0.2	4.55	110
	DO-82-08 4	25-35' Clay & Silt - green clay No pebbles.	212	30	137	89	0.7	I.S.	-
	DO-81-08 5	35-50' Clay & Silty - Sand Very fine matrix, rare granitic pebbles, matrix dominant.	90	22	64	29	0.2	10	5
	DO-81-08 6	50-60' Clay & Sand - ribbon -ropy clay - green, <5% pebbles, limestone, granite, volcanic, sediment.	112	26	76	32	0.2	2.85	65
	DO-81-08 7	60-69' Silt and Clays - minor pebble content.	105	28	80	32	0.2	1.7	150
	DO-81-08 8	69-75' Silt - Pebbly - Clay Matrix dominant, 50% volcanic sedimentary pebbles, 20% limestone, 20% granite.	93	28	69	28	0.2	6	5
	DO-81-08 9	75-80' Sandy - Gravel - fine medium silt and sand. Matrix, minor clay, 30% pebbles, 30% limestone, 30% volcanics & sediments, 20% granite.	105	16	56	28	0.2	10	50
	DO-81-08 10	80-87' Sandy Gravel - as above with cobbles.	75	17	46	25	0.3	10	20
	DO-81-08 11	87-92' Gravelly Till - clay balls mixed with pebbles, 60% volcanic sediments, 20% granite, white gneiss. No visible limestone.	69	12	37	20	0.4	6	100

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Jan. 23/81 HOLE # DO-81-08
 SAMPLER: D. Lewis CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: Gov't. Base Line
 BIT NO.: 62320 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			Cu	Pb	Zn	Ni	Ag	Wt	Au
	DO-81-08 12	92-97' <u>Silty-Clay Till</u> Very few pebbles, 90% volcanic & sediments, abundant clay & silt till balls. <1% limestone. <5% granite.	78	15	32	27	0.3	3.2	95
	DO-81-08 13	97-102' <u>Silty - Clay Till</u> Hard packed till, 98-99' pebble bed, as above.	77	17	39	30	0.2	5	300
	DO-81-08 14	102-105' <u>Silty-Clay Till</u> Scattered pebbles, silt-clay, matrix dominant, <1% limestone, <10% granite.	58	20	40	30	0.2	1.25	150
	DO-81-08 15	105-108' <u>Sandy-Clay Till</u> Increase in grey-green clay balls; alternating clay & pebbly till, till balls, petrified wood chips, no limestone. <10% granite. Local clast component.	30	10	35	18	0.3	4.15	110
	DO-81-08 16	108-114' <u>Clay - ropey-clay.</u> Massive, no pebbles, hard.							
	DO-81-08 17	114-120' <u>Silty-Clay Till</u> Till balls, gravel bed @ 118-119'. Minor pebbles. <1% granite. No limestone.	59	12	25	20	0.2	10	40
	DO-81-08 18	120-125' <u>Sandy Gravels</u> - 70% volcanic & sediments, 30% granite, no limestone. Massive pyritization @ 124', sandy matrix.	205	95	44	73	1.4	6	110
	DO-81-08 19	125-130' <u>Pebbly-Silty-Clay Till</u> Silty-clay matrix, till balls, as above.	155	28	44	80	0.6	6	45
	DO-81-08 20	130-135' <u>Silty-Clay Till</u> <30%-40% pebbles, matrix dominant, 20% pink granite, <5% limestone, cobble @ 132'.	160	24	62	65	0.6	5	110
	DO-81-08 21	135.5-140' <u>Bedrock</u> Mafic tuff - chloritized pyritization. - 1-2%, quartz veins.	46	1	200	34	0.2	-	15

C. Rodanigh

WESTERN MINES LTD.

GEOLOGIST: D. Robinson/C. Rockingham DATE: Jan. 23/81 HOLE # DO-81-09
 SAMPLER: M. Mahaffy/L. Nutter CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/DRILLER: G. Gagne FIELD LOCATION: Gov't. Base Line - East of Winter Rd.
 BIT NO.: 62314 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses							
		0-10' No return. Minor humus. Sand and pebbles.								
	DO-81-09 1	10-18' Gravel - sand-silt matrix, gritty till balls @17', 50% volcanic and sediment, 30% granite + gneiss. <20% limestone pebbles.	Cu	Pb	Zn	Ni	Ag	Wt	Au	
			130	38	240	42	0.8	6	10	
	DO-81-09 2	18-28' Gravel - 80% pebbles, 50% volcanic + sediment, 30% granite + gneiss, 20% limestone, large 1-2 cm green minor clay lumps, silt-sand matrix, mafic cobble @24'.	100	24	60	35	0.5	0.65	L75	
	DO-81-09 3	28-38' Gravel - fine sandy matrix, clast dominant.	98	30	61	36	0.5	10	1245	
	DO-81-09 4	38-48' >50% pebbles, 50% mafic, volcanic + sedimentary, 30% granite + gneiss. 20% limestone.	42-48 - poor return. 1 grain v.g. 300µ transported	110	24	71	32	0.5	10	5
	DO-81-09 5	48-56' Pebbly-Sandy Till Gritty clay balls, fine sandy matrix, pebble dominant, 80%, 50% volcanic + sediment, 30% granite + gneiss, 20% limestone.	80	13	39	20	0.3	10	165	
	DO-81-09 6	56-62' Gravel - coarse, unsorted, pebble dominant, 50% volcanic + sediment, 30% granite + gneiss, <20% limestone, <2% gritty clay balls, fine to medium sand matrix, mafic intermediate cobble @60'.	210	16	28	53	0.3	10	35	
	DO-81-09 7	62-70' Pebbly Sand - Gravel Very minor gritty clay balls, minor coating on pebbles, 90% pebbles + sand, 70% volcanic + sediment, 20-25% granite + gneiss, <10% limestone.	80	14	32	23	0.2	10	10	
	DO-81-09 8	70-80' Pebbly Sand to Gravel Fine to medium sand matrix, pebbles - 50% volcanic + sediment, granite + gneiss, <5% limestone.	52	12	30	18	0.4	10	445	
	No sample	80-90' Poor return. Clay balls, fine grit mixed with sand & pebbles.								

WESTERN MINES LTD.

GEOLOGIST: D. Robinson/ C. Rockingham DATE: Jan. 23/81 HOLE # DO-81-09

SAMPLER: M. Mahaffy/L. Nutter CLAIM GROUP: Detour PROV.: Ontario
Block

CONTRACTOR/ DRILLER: G. Gagne/D. Jodouin FIELD LOCATION: Gov't. Base Line - East of Winter Rd.

BIT NO.: 62314 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			Cu	Pb	Zn	Ni	Ag	Wt	Au
	DO-81-09 19	160-174' <u>Gravel</u> - 60% local + volcanic + sedimentary pebbles, 40% intrusive + gneiss, coarse sandy matrix.	174	31	60	78	0.4	-	175
			138	19	53	45	0.2	-	145
	DO-81-09 20	174-180' Blue-white quartz eye. Gabbro boulder, clay balls, gravel as above, medium to coarse sandy matrix.	167	33	100	68	0.4	-	30
	DO-81-09 21	180-185' <u>Till</u> - clay balls at 180', clay adhering to pebbles, 70% sedimentary + volcanic pebbles, fine sand matrix with clay balls.	169	26	76	55	0.5	-	90
	DO-81-09 22	185-187' As above.	760	210	1040	650	1.2	-	60
	DO-81-09 23	187-182' <u>Bedrock - Sediment</u> Light grey to white, very soft, bedding difficult to determine, very fine grained, minor quartz veins.	37	3	320	62	ND	-	L5

C. Rockingham

WESTERN MINES LTD.

GEOLOGIST: C. Rockingham DATE: Jan. 24/81 HOLE # DO-81-10
 SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: N.W. Corner of Lower Detour Lake
 BIT NO.: 62314 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
0-10		Organic Gneiss Boulders and Cobbles Lakeshore ice push. Clay - clay balls, calcareous, non-gritty, almost no pebbles or sand.							
10-30	1	Gravel 80% intrusive + gneiss pebbles. 20% limestone, possibly a till	Cu	Pb	Zn	Ni	Ag	Wt	Au
			118	50	114	39	0.5	-	15
30-40	No sample	Cochrane Till 85% clay balls - grey, calcareous, non-gritty pebbles are intrusive, gneissic + limestone 30%.							
40-50		Clay - grey-brown, calcareous, non-gritty.							
50-60	2	Gneiss Boulder Till - 10-30% clay balls, calcareous, pebbles 50-70% intrusive, coarse sand matrix.	126	31	84	40	0.4	-	15
60-65	3		150	37	83	37	0.5	-	30
65-70	4	Bedrock Mafic tuff, soft, fine-grained, green-grey with vague foliation.	49	18	90	62	ND	-	5

C. Rockingham

WESTERN MINES LTD.

GEOLOGIST: G. Thomas, F. Thompson DATE: January 24, 1981 HOLE # DO-81-11
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: Winter Road 0.7 km. North of Gov't. Line.
 BIT NO.: B62314 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses														
0-20'			No Return															
20-28'		1	Gravel - Grey medium and sand matrix. Polymictic pebbles (small) including limestone.															
28-38'		2	Till - Grey clay balls. Small limestone pebbles, increasing clay component from 30 - 34'; grey clay unit 32-34'. 34' - Pink granite boulder followed by subordinate mafic pebbles. 36-38' - white granitic boulder. The section is notably unsorted.	<table border="1"> <thead> <tr> <th>Cu</th> <th>Pb</th> <th>Zn</th> <th>Ni</th> <th>Ag</th> <th>Wt</th> <th>Au</th> </tr> </thead> <tbody> <tr> <td>152</td> <td>65</td> <td>121</td> <td>63</td> <td>0.6</td> <td>-</td> <td>170</td> </tr> </tbody> </table>	Cu	Pb	Zn	Ni	Ag	Wt	Au	152	65	121	63	0.6	-	170
Cu	Pb	Zn	Ni	Ag	Wt	Au												
152	65	121	63	0.6	-	170												
38-56'		3	Gravel - Medium and coarse sand matrix. 40% mafic/40% granitic/20% limestone. 50' - decrease in granitic pebbles, increase in gneissic. Minor limestone.	<table border="1"> <tbody> <tr> <td>105</td> <td>24</td> <td>71</td> <td>38</td> <td>0.3</td> <td>-</td> <td>5</td> </tr> </tbody> </table>	105	24	71	38	0.3	-	5							
105	24	71	38	0.3	-	5												
56-60'		4	Bedrock - Gabbro, coarse grained feldspar and amphiboles, minor quartz.	<table border="1"> <tbody> <tr> <td>115</td> <td>24</td> <td>57</td> <td>36</td> <td>0.4</td> <td>-</td> <td>185</td> </tr> </tbody> </table>	115	24	57	36	0.4	-	185							
115	24	57	36	0.4	-	185												
60'		5	End of hole.	<table border="1"> <tbody> <tr> <td>44</td> <td>2</td> <td>62</td> <td>53</td> <td>0.1</td> <td>-</td> <td>10</td> </tr> </tbody> </table>	44	2	62	53	0.1	-	10							
44	2	62	53	0.1	-	10												

C. Rodin

WESTERN MINES LTD.

GEOLOGIST: G. Thomas. F. Thompson DATE: January 24, 1981 HOLE # DO-81-12
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: South of Gov't. Line West of Winter Road
 BIT NO.: 62312 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
0-10			0-14' - Limited Return - 10-14' - some grey, iron-stained clay with limestone pebbles. 14-20' - Gravelly Till - Granitic - Mafic pebbles - small 60:30; approximately 10% limestone. Coarse and medium sand matrix; minor clay. Increase of coarse and medium sand with depth.	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ni</u>	<u>Ag</u>	<u>Wt</u>	<u>Au</u>
10-20		1		130	34	92	37	0.5	-	15
20-24		2	20-24' - Sand bed - brown-grey, medium and coarse sand.	153	67	145	50	1.0	-	110
24-36		3	24-36' - Clay Balls - Gritty; medium to coarse sand matrix; minor small pebbles.	110	25	97	31	0.4	-	60
30-36		N.S.	30-36' - Clay balls - minor coarse sand. Mafic and granitic boulders at 36'.							
36-38		4	36-38' - Gravel - Mafic cobbles; granitic pebbles (small) 50:50. Up to 5% limestone. Medium to coarse sand matrix.	145	23	84	48	0.4	-	150
38-43		5	38-43' - Bedrock - Greenstone - dark green, soft, massive. No sulfides quartz or carbonate.	44	2	62	53	0.1	-	10
43-			43' - End of hole.							

C. Rodenburg

WESTERN MINES LTD.

GEOLOGIST: G. Thomas, F. Thompson DATE: January 24, 1981 HOLE # DO-81-13

SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: South of Gov't. Line North of Beaver Swamp

BIT NO.: 62312 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
0-10'			0-10' - No return							
0-15'			0-15' - Grey clay - large balls.							
15-22'		1	15-22' - Gravel - 50% granitic/30% mafic/20% limestone - small pebbles only. Medium to coarse sand matrix.							
22-44'		2	22-44' - Till - Clay balls and granitic/gneissic (mafic) pebbles. Gritty silty clay matrix. Minor limestone increases between 27 and 36'. Increasing clay to framework component at ~35'.							
		3								
		4	39-44' - Clay curds - grey, stiff.							
		N.S.								
44-78'		5	44-78' - Gravel - polymictic - small pebbles including limestone. Medium and coarse sand matrix. Increase in pebble size and mafic-gneiss component 45-50'.							
54'		6	54' - Granitic boulder - small. Trace muscovite - platy - 3mm. diameter. Increasingly mafic from 57 to 60'.							
60-64'		7	60-64' - Sand in bed, predominantly coarse and medium.	Cu	Pb	Zn	Ni	Ag	Wt	Au
70-74'		7	70-74' - increase in silt/clay in matrix to an estimated 10% - as coatings and balls. Fine sand 20%/set 10%/clay 5%. Medium and coarse sand abundant.	95	20	54	32	0.3	-	15
		8		117	25	102	40	0.4	-	10
78-88'		9	78-88' - Till - coarse sand and small pebbles up to 25% by volume. Clay balls. Polymictic plus limestone, up to 5%. Increasing clay after 80'.	140	20	115	42	0.3	-	85
		10	88-106' - Sand - Polymictic. Medium and coarse. Finer fraction. Mainly quartz. Minor clay bed at 90'.	165	18	81	53	0.4	-	105

WESTERN MINES LTD.

GEOLOGIST: G. Thomas, F. Thompson DATE: January 24, 1981 HOLE # DO-81-13
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: South of Gov't. Line North of Beaver Swamp
 BIT NO.: 62312 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
				Cu	Pb	Zn	Ni	Ag	Wt	Au
		11	92' - Boulder - Granite gneiss. 94-106' - Sand - Grey, fine.	195	22	91	68	0.4	-	35
110		12	106-111' - Bedrock - Greywacke - distinct cleavage. Platy pyrite along shear surfaces. Medium green, fine-grained scratches with difficulty minor quartz veins.	32	16	72	45	0.2	-	15
			<i>C. Rodin</i>							

WESTERN MINES LTD.

GEOLOGIST: C. Rockingham DATE: Jan. 24/81 HOLE # D-81-14
 SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/
 DRILLER: D. Jodouin FIELD
 LOCATION: S. of Gov't. Line, N. of Beaver
 Swamp
 BIT NO.: 62312 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses																					
10		Organic - no return. Clay - grey, rope-like.																						
20		Cochrane Till																						
30	1	Clay balls, fine sand + silt matrix. Pebbles intrusive gneiss 70% limestone 30% Clay: pebbles 80:20 Clay																						
40	2	Gravel (Till?) Matrix coarse to fine sand + silt, pebbles intrusive, gneiss 95%, limestone 5%.																						
50	Return																							
60	3	Till 10-50% clay balls, grey, gritty medium to fine sand matrix pebbles intrusive, gneiss 95% limestone 5%.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Cu</td> <td style="text-align: center;">Pb</td> <td style="text-align: center;">Zn</td> <td style="text-align: center;">Ni</td> <td style="text-align: center;">Ag</td> <td style="text-align: center;">Wt</td> <td style="text-align: center;">Au</td> </tr> <tr> <td style="text-align: center;">108</td> <td style="text-align: center;">22</td> <td style="text-align: center;">59</td> <td style="text-align: center;">42</td> <td style="text-align: center;">0.3</td> <td style="text-align: center;">-</td> <td style="text-align: center;">150</td> </tr> </table>	Cu	Pb	Zn	Ni	Ag	Wt	Au	108	22	59	42	0.3	-	150							
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220	20	61	35	0.4	-	15																		
80	5	Mafic volcanic boulder Till clay balls 40-60% of pebbles local clay adheres to some pebbles.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">98</td> <td style="text-align: center;">13</td> <td style="text-align: center;">33</td> <td style="text-align: center;">32</td> <td style="text-align: center;">0.4</td> <td style="text-align: center;">-</td> <td style="text-align: center;">6000</td> </tr> <tr> <td colspan="7">3 grains v.g. 1 of 800µ all are delicate in form</td> </tr> </table>	98	13	33	32	0.4	-	6000	3 grains v.g. 1 of 800µ all are delicate in form													
98	13	33	32	0.4	-	6000																		
3 grains v.g. 1 of 800µ all are delicate in form																								
90	6		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">124</td> <td style="text-align: center;">26</td> <td style="text-align: center;">38</td> <td style="text-align: center;">33</td> <td style="text-align: center;">0.4</td> <td style="text-align: center;">-</td> <td style="text-align: center;">310</td> </tr> </table>	124	26	38	33	0.4	-	310														
124	26	38	33	0.4	-	310																		
100	7	Gravel + Sand Fine, medium sandy matrix. 1-1½ cm pebbles volcanic + sedimentary <5% limestone.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">80</td> <td style="text-align: center;">14</td> <td style="text-align: center;">34</td> <td style="text-align: center;">24</td> <td style="text-align: center;">0.5</td> <td style="text-align: center;">-</td> <td style="text-align: center;">L5</td> </tr> </table>	80	14	34	24	0.5	-	L5														
80	14	34	24	0.5	-	L5																		
100	8 + 9	<5% granite + gneiss.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">162</td> <td style="text-align: center;">66</td> <td style="text-align: center;">53</td> <td style="text-align: center;">34</td> <td style="text-align: center;">0.4</td> <td style="text-align: center;">-</td> <td style="text-align: center;">L10</td> </tr> <tr> <td style="text-align: center;">110</td> <td style="text-align: center;">18</td> <td style="text-align: center;">53</td> <td style="text-align: center;">34</td> <td style="text-align: center;">0.5</td> <td style="text-align: center;">-</td> <td style="text-align: center;">445</td> </tr> <tr> <td style="text-align: center;">64</td> <td style="text-align: center;">13</td> <td style="text-align: center;">30</td> <td style="text-align: center;">24</td> <td style="text-align: center;">0.2</td> <td style="text-align: center;">-</td> <td style="text-align: center;">315</td> </tr> </table>	162	66	53	34	0.4	-	L10	110	18	53	34	0.5	-	445	64	13	30	24	0.2	-	315
162	66	53	34	0.4	-	L10																		
110	18	53	34	0.5	-	445																		
64	13	30	24	0.2	-	315																		

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Jan. 25/81 HOLE # DO-81-14
 SAMPLER: M. Mahaffy CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/
 DRILLER: G. Gagne FIELD LOCATION: S. of Gov't. Line, N. of Beaver Swamp
 BIT NO.: 62312 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			Cu	Pb	Zn	Ni	Ag	Wt	Au
110	10	Sand - Pebbly Sand Fine, medium beach sand with minor pebble component.	140	24	77	36	0.5	-	10
120	11	Down section More pebble component Volcanic + sedimentary pebbles > 5% Gneiss + granite. < 30% Limestone < 10%	68	12	28	29	0.2	-	40
		End of hole. Sand blocking bit.							

C. Robinson

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Jan. 25/81 HOLE # DO-81-15
 SAMPLER: M. Mathaffy CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne : Bradley Bros. FIELD LOCATION: Gov't. Base Line - W. of Winter Rd.
 BIT NO.: 62313 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
▼ ▼ ▼ ▼	No sample	0-1' <u>Swamp - humus, brown clays, brown 1-2 cm pebbles.</u>	Poor return.						
▲ ▲ ▲ ▲	DO-81-15 1	10-20' <u>Cochrane pebble Till</u> <u>Sand-silt matrix, gritty till balls, 70% volcanic + sedimentary pebbles, 20% granite + gneiss, <10% limestone. Sand horizon 18-19'.</u>							
▲ ▲ ▲ ▲	DO-81-15 2	20-27' <u>Till</u> <u>Sandy-silt matrix, <30% granite + gneiss, 10-15% limestone. Green clay bed @25'.</u>							
▬ ▬ ▬ ▬	No sample	27-36' <u>Clay - rope-like, green-grey minor grit, <1% pebbles.</u>							
● ● ● ●	DO-81-15 3	36-46' <u>Gravel + Sand</u> <u>Minor clay till for 1/4' at top with minor pebbles; medium to coarse sandy matrix, pink granite cobble @38', abundant + 10 fraction, 50% volcanic + sedimentary, 30% granite + gneiss, <20% limestone. 1-2 cm pebble size. Limestone boulder @45'.</u>	40-44' - poor return.						
● ● ● ●	DO-81-15 4	46-54' <u>Sandy-pebbly gravel.</u> <u>20% limestone pebbles.</u>							
▲ ▲ ▲ ▲	DO-81-15 5	54-60' <u>Clay-Pebble-Silt Till</u> <u>Silty-clay balls 1 cm size.</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ni</u>	<u>Ag</u>	<u>Wt</u>	<u>Au</u>
			110	35	102	34	0.6	-	45
▲ ▲ ▲ ▲	DO-81-15 6	60-66' <u>Clay Till</u> <u>Gritty clay till balls <5% pebbles, local derivation, volcanic + sedimentary, <10 mm size, minor limestone & pink granite, silty-clay matrix, clay-coated pebbles.</u>	112	32	81	34	0.5	-	10
▬ ▬ ▬ ▬	No sample	66-72' <u>Clay - soft, grey, rope-like, no pebbles.</u>							

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Jan. 25/81 HOLE # DO-81-16
 SAMPLER: M. Mahaffy CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/DRILLER: G. Gagne : Bradley Bros. FIELD LOCATION: Small Pond North of Gov't. Base Line W. of Winter Rd.
 BIT NO.: 62311 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
0	No sample	0-10' <u>Swamp</u> - humus.							
16	DO-81-16 1	10-20' <u>Cochrane Clay-Sand Till</u> Abundant gritty till balls. Sandy matrix, <5% pebbles. Limestone, volcanic + sediment.							
20	DO-81-16 2	20-30' <u>Pebbly Till → Gravel</u> Top section is till, grey clay bed @22'. Subangular mixed pebbles assortment, 35% limestone + granite.							
30	DO-81-16 3	30-40' <u>Gravelly Till to Pebble-Silt-Clay Till</u> - 25-35% gritty till balls; 50% pebbles, fine sand matrix, calcareous, increase in till balls, decrease in pebbles, limestone > 2 cm pebble.							
40	DO-81-16 4	40-46' <u>Clay Till</u> >50% gritty clay till balls, clay-silt matrix, <10% pebbles. Quartz, limestone, granite.							
50	No sample	46-54' <u>Clay</u> - grey, soft, no pebbles.							
60	DO-81-16 5	54-64' <u>Gravel & Sand</u> - unsorted, fine to medium sand matrix, 1-2 cm size pebbles, assorted limestone, granite, gneiss, volcanic, sediment.							
70	DO-81-16 6	64-74' <u>Sandy Gravel</u> Fine to medium silty sand matrix. Assorted pebble size 1-2 cm to 1-2 mm, limestone, granite, gneiss, volcanic, sediment.	Cu	Pb	Zn	Ni	Ag	Wt	Au
			105	22	70	29	0.4	-	1030
80	DO-81-16 7	74-84' <u>Sandy Gravel</u> - no till or clay, fine to medium sand, silt matrix, abundant pebbles, tuff or argillite boulder 76.5 to 79'.	133	15	62	85	0.2	-	5
90	DO-81-16 8	84-94' <u>Sandy Gravel</u> Fine sand matrix, 30% limestone, 30% granite + gneiss, 30% volcanic + sediment. Matrix dominant, no clay.	92	18	54	23	0.3	-	10
100	DO-81-16 9	94-104' <u>Pebbly Sand</u> Fine to medium sand, ½-1 cm pebbles, limestone, granite, gneiss, volcanic, matrix dominant.	115	25	60	28	0.3	-	40

Hole No.	Page No.
16	1 of 2

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Jan. 25/81 HOLE # DO-81-16
 SAMPLER: M. Mahaffy CLAIM GROUP: Detour PROV.: Ontario
 Block
 CONTRACTOR/ DRILLER: G. Gagne : Bradley Bros. FIELD LOCATION: Gov't. Base Line: near small pond
 BIT NO.: 62311 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			Cu	Pb	Zn	Ni	Ag	Wt	Au
100	DO-81-16 10	104-113' <u>Pebbly Sand</u> - fine to medium sand matrix, 5 mm to 1 cm pebbles, 50% volcanic + sediment, 30% granite + white gneiss, <20% limestone, matrix dominant.	120	21	57	27	0.4	-	5
110	DO-81-16 11	113-119' <u>Sandy Gravel</u> - medium to coarse sand matrix, included in pebble content, white gneiss, granite, limestone, alternating sand & pebble-rich beds.	125	23	56	36	0.3	-	10
120	DO-81-16 12	119-124' <u>Bedrock - Gabbro</u> Medium grained, massive, salt and pepper texture, 2 mm white feldspar phenocryst within fine mafic matrix.	94	3	20	85	ND	-	15

C. Robinson

WESTERN MINES LTD.

GEOLOGIST: C. Rockingham DATE: Jan. 25/81 HOLE # DO-81-17
 SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: S. of Gov't. Line
 BIT NO.: 62311 NTS: 32 E-13
62315

Log (inches)	Sample No.	Overburden Description	Notes & Analyses
0 - 10		Organic - no return. Clay - grey, non-calcareous, non-gritty.	
10 - 40		Gravel Limestone 25%. Granite, gneiss 75%. Fine, grey, sandy matrix. Very poor return.	
40 - 50		Clay - grey, rope-like, calcareous, non-gritty.	
50 - 80		Sand - fine, medium grained, grey-white.	
80 - 88	1	Boulder metapyroxenite. Gravel Matrix, medium-coarse sand. Pebbles intrusive, gneiss 99% limestone 1%	
88 - 90	2	Poor return. Coarse Sand 99% passes through No. 12 screen - 1.70 mm. Pebbles 1/2 cm, well rounded.	

WESTERN MINES LTD.

GEOLOGIST: C. Rockingham DATE: Jan. 25/81 HOLE # DO-81-17
 SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: S. of Gov't. Line
 BIT NO.: 62311 NTS: 32 E-13
62315

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
		<u>Coarse Sand</u>							
	3								
110		Sand - almost no pebbles > 1.70 mm.							
	4								
120		Poor return.							
	5								
130									
140									
	6								
150									
	7	<u>Gravel</u> Pebble + cobble sized stones. Sand matrix. Pebbles predominantly small to medium. Mafic volcanics.							
160									
	8								
170									
	Reject	<u>Boulders</u> - argillite, gneiss.							
	9	<u>Bedrock - Greenstone</u> Grey-green clay, highly altered, rock fragments 30-40% by volume. About 5% quartz. Trace py, po.							
180									

Cu	Pb	Zn	Ni	Ag	Wt	Au
225	55	91	120	1.0	-	105
385	86	245	131	1.1	-	115
450	175	540	230	1.6	-	195
124	12	405	87	0.1	-	15

C. Rockingham

WESTERN MINES LTD.

GEOLOGIST: G. Thomas, F. Thompson DATE: January 26, 1981 HOLE # DO-81-18

SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: Gov't. Line West of Winter Road

BIT NO.: 62315 NTS: 32 E-13
62322

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			0-14' - Grey Clay - Rejected.							
			14-39' - Gravel - Volcanic sediment							
			40% Gneissic 30% Granitic 30% Limestone up to 10%. Medium and coarse sand matrix. Pebbles medium to small. Acid test on carbonate would indicate dolomite.							
10										
		1	32' - Small granite-gneiss boulder.	Cu	Pb	Zn	Ni	Ag	Wt	Au
20				92	19	69	32	0.3	-	35
		2	39-42' - Till - Clay balls, primarily mafic small pebbles, also some granitic. No apparent limestone. Clay unit only from 39 to 42'. Increase in coarse sand, minor gravel at 42'. Fine and medium sand matrix.	106	20	56	33	0.3	-	5
30										
		3	42' - Sandy Gravel - increase in pebble to coarse sand from 42-50'. Mafic sediments dominates granitic component. Sand is primarily granitic.	84	32	46	21	0.1	-	15
40										
		4	52' - Some clay balls for 6". 54' - Boulder granite gneiss.	56	9	27	13	0.2	-	20
50										
			55' - Hole lost in boulders - Bit undersized and binding.	46	8	21	16	0.1	-	10
60										
			55' - TD.							
70										
80										
90										
100										

C. Rodring

WESTERN MINES LTD.

GEOLOGIST: G. Thomas, F. Thompson DATE: January 26, 1981. HOLE # DO-81-19

SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: North of Gov't. Line East Side of Lake

BIT NO.: 62324 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			0-10' - No return.							
			10-16' - Clay Bed - Grey clay curds clean. Positive HCl. Rejected.							
10			16-45' - Gravel - 60% gneissic and granitic/up to 20% mafic, up to 10% limestone. Medium and coarse sand matrix.							
			20-21' - Clay bed - grey clay balls							
		1	22-23' - Grey clay curds.							
20		2	26-30' - Small pebbles. Mafics predominate, lessor granitic.							
			30-32' - No return.							
			Medium and fine sand matrix - Grey-brown.							
		3	39-41' - Granitic boulder. Rejected.							
30			41-44' - Granitic and mafic boulders and cobbles. Medium and coarse sand matrix.							
			44' - minor clay seam.							
		4	45-60' - Till - Small mafic pebbles predominate, lessor granitic and gneissic. Medium to fine sand matrix with up to 5% gritty clay balls. Minor limestone.							
40			46' - Argillaceous pebbles - good foliation; minor slate or shale.							
		5		Cu	Pb	Zn	Ni	Ag	Wt	Au
				79	10	34	27	0.3	-	795
50		N.S.	49-51' - Granite gneiss boulder - rejected.							
		6	51-56' - Primarily mafic sediment as small pebbles, lessor granitic, minor limestone. Medium to coarse matrix. More like a gravel than a till.	64	13	35	34	0.1	-	40
60		7		61	21	36	24	0.2	-	45
			56-57' - Minor gritty clay balls.							
		8	60-102' - Gravel - Mafic/granitic medium sized pebbles; coarse sand matrix, grades into coarse polymictic sand from 62-66'.	104	12	33	32	0.2	-	105
70			66' - Mafic gneiss pebbles predominate; also phyllitic/slate pebbles. Trace limestone; medium to coarse sand matrix.							
80		9	20-30% granite and gneiss as small pebbles. Increase in granite gneiss pebbles after 66'. Clast size generally increases - cobbles > pebbles.	114	12	40	31	0.1	-	110
		10		118	18	40	30	0.2	-	185
90		11	79' - Large cobble - olive green felsic volcanic.	108	16	48	31	0.2	-	55
		12	88' - White, slightly smokey quartz cobble. Trace pyrite.							
100										

WESTERN MINES LTD.

GEOLOGIST: G. Thomas, F. Thompson DATE: January 26, 1981 HOLE # DO-81-19

SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: North of Gov't. Line East Side of Lake

BIT NO.: 62324 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
				Cu	Pb	Zn	Ni	Ag	Wt	Au
		12	89' - Pink granite cobble, phyllitic cobbles. 98' - 100' - Loss of return.	104	58	46	37	ND	-	50
110		13	102-112' - Till - Clay balls medium sized. Minor mafic sediment pebbles, small. Minor limestone. 102-106' - Limited return. Section becomes increasingly granitic from 108 to 110'. 112 - 116' - Bedrock Gabbro - typical gabbro, medium grained feldspathic matrix - minor quartz amphibole phenocrysts.	86	2	18	58	ND	-	5
120										

C. Rodin

WESTERN MINES LTD.

GEOLOGIST: Don Robinson DATE: Jan. 26/81 HOLE # DO-81-20
 SAMPLER: M. Mahaffy CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: Gov't. Base Line W. of Winter Rd.
 BIT NO.: 62325 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
	NS.	0-14' <u>Swamp</u> - humus, minor sand.							
	DO-81-20 1	14-24' <u>Pebbly Sand</u> - fine to medium sand, 50% pebbles, 60% volcanic + sediment, 40% granite gneiss, pebbles <1 cm size, minor clay coating on pebbles.							
	DO-81-20 2	24-32' <u>Pebbly-Clay Till</u> - abundant gritty clay balls, 30% pebbles <1 cm size, 75% mafic volcanic + grey sediment; 25% white gneiss, pink granite + limestone; fine silt-sand matrix.	Cu 62	Pb 11	Zn 30	Ni 31	Ag ND	Wt -	Au 40
	DO-81-20 3	32-42' <u>Gravelly-Pebbly Till</u> Variable in pebble size & abundance <10% clay till balls, 50% volcanic + sedimentary pebbles, 50% gneiss + limestone, abundant local volcanic + sedimentary cobbles.	86	12	30	31	ND	-	95
	DO-81-20 4	42-52' <u>Sand</u> Scattered pebbles.							
	DO-81-20 5	52-60' <u>Gravel</u> 75% grey sediment + volcanic pebbles 2 cm to 2 mm, 25% white gneiss + limestone, fine to medium sand matrix, clast dominant.	40	5	46	14	ND	-	30
	DO-81-20 6	60-64' <u>Gravel</u> continued with few minor clay balls @60'.	60	15	31	31	0.1	-	15
	DO-81-20 7	64-73' <u>Clay-Pebble Till</u> <25% clay till balls, very pebbly, 75% sediment, 25% gneiss + limestone, fine to medium sand matrix. Alternating clay- +pebble-rich beds	65	13	31	26	0.2	-	5

Hole No.	Page No.
DO-81-20	1 of 2

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Jan. 26/81 HOLE # DO-81-20
 SAMPLER: M. Mahaffy CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: Gov't. Base Line - W. of Winter Rd.
 BIT NO.: 62325 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			Cu	Pb	Zn	Ni	Ag	Wt	Au
0' 0" - 73' 0"	DO-81-20 8	73-80' <u>Gravel</u> 75% granite + gneiss, <10% limestone, 25% local sediment + volcanic, fine to coarse sand matrix.	98	12	32	29	0.3	-	75
73' 0" - 80' 0"	DO-81-20 9	80-86' <u>Clay Till (basal)</u> Few scattered cobbles at top. Abundant gritty clay till balls. Pebbly lower section. Pebbles - 60% sediment + Gabbro, 30% white gneiss + granite <10% limestone.	173	11	38	40	0.2	-	50
80' 0" - 86' 0"	DO-81-20 10	86-91' <u>Bedrock - Gabbro</u> Medium grained, massive, feldspathic.	35	4	18	45	ND	-	5

C. Robinson

WESTERN MINES LTD.

GEOLOGIST: D. Robinson, G. Thomas DATE: January 27, 1981. HOLE # DO-81-21
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: Gov't. Line 3.9 km. West of Winter Road
 BIT NO.: 62325 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses														
10		1	Brown clay - 1 - 3' (Top) <u>0-12' - Pebbly Clay Till</u> -Fine to medium sand matrix -Abundant clay balls -60% greenstone volcanic - sedimentary pebbles															
20		2	<u>12-23' - Gravel</u> -Fine to medium sand matrix; few greenstone sedimentary or volcanic cobbles. -No clay material.															
30		3	-60% sedimentary and volcanic -30% granite gneiss. -10% limestone - 1cm. size.															
		No RETURN	-23' - clay till balls - 5 mm. in size.															
40		4	27-30' - No return <u>30-65' - Till - Clay balls up to 40%</u> fine, medium and coarse sand, probably high in silt. Minor mafic pebbles, limestone.															
		No SAMPLE	Clay bed - 37-46'; interbedded sand at 38'. 46-60' - Sandy till - polymictic pebbles - predominantly granitic and gneissic; medium and coarse sand matrix. No clay balls, however silty and apparently clay rich.															
50		5	54' - More gravelly - argillite cobbles, minor limestone.															
60		6	60' - Clay balls with medium to fine sand matrix. Argillite pebbles and cobbles predominate. Clay balls up to 75%.															
		8	10-20% pebble framework.															
70		9	<u>65-70' - Gravel - Mafic pebble component increases from previous section > 75%.</u>	1 grain v.g. 200μ transported														
		10	67' - Decrease in greenstone/increase in granitic gneiss. Medium and coarse sand matrix.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Cu</th> <th>Pb</th> <th>Zn</th> <th>Ni</th> <th>Ag</th> <th>Wt</th> <th>Au</th> </tr> </thead> <tbody> <tr> <td>139</td> <td>9</td> <td>34</td> <td>37</td> <td>0.3</td> <td>-</td> <td>1190</td> </tr> </tbody> </table>	Cu	Pb	Zn	Ni	Ag	Wt	Au	139	9	34	37	0.3	-	1190
Cu		Pb	Zn	Ni	Ag	Wt	Au											
139		9	34	37	0.3	-	1190											
		11	<u>70' - 10-30% Small clay balls; granitic, small pebbles and coarse sand.</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>124</td> <td>11</td> <td>54</td> <td>40</td> <td>0.4</td> <td>-</td> <td>50</td> </tr> </tbody> </table>	124	11	54	40	0.4	-	50							
124		11	54	40	0.4	-	50											
		12	73-74' - Granite and mafic granite gneiss boulders.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>122</td> <td>13</td> <td>37</td> <td>38</td> <td>0.3</td> <td>-</td> <td>25</td> </tr> </tbody> </table>	122	13	37	38	0.3	-	25							
122	13	37	38	0.3	-	25												
	13	74' - Gabbroic vs. Gneissic cobbles/argillite cobbles 60:40 medium sand matrix.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>115</td> <td>10</td> <td>48</td> <td>37</td> <td>0.2</td> <td>-</td> <td>30</td> </tr> </tbody> </table>	115	10	48	37	0.2	-	30								
115	10	48	37	0.2	-	30												
90	14	76' - Granite - greenstone pebbles 50:50. Fine to medium sand matrix. Minor limestone. Clay balls up to 15%.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>146</td> <td>11</td> <td>43</td> <td>46</td> <td>0.2</td> <td>-</td> <td>60</td> </tr> </tbody> </table>	146	11	43	46	0.2	-	60								
146	11	43	46	0.2	-	60												
	15	82-84' - Gravel bed, light green, siliceous medium grained cobble or small boulder. Granitic-greenstone pebbles 50:50.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>154</td> <td>14</td> <td>56</td> <td>66</td> <td>0.2</td> <td>-</td> <td>35</td> </tr> </tbody> </table>	154	14	56	66	0.2	-	35								
154	14	56	66	0.2	-	35												
100	16		<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>560</td> <td>12</td> <td>184</td> <td>260</td> <td>0.4</td> <td>-</td> <td>85</td> </tr> </tbody> </table>	560	12	184	260	0.4	-	85								
560	12	184	260	0.4	-	85												

NOTE: SAMPLE ⑦ WAS DAGED INTERVAL ?

Hole No.	Page No.
DO-81 21	1 of 2

WESTERN MINES LTD.

GEOLOGIST: D. Robinson, G. Thomas DATE: January 27, 1981 HOLE # DO-81-21
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: Gov't. Line 3.9 km. West of Winter Road
 BIT NO.: 62325 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
		17	Argillite cobbles larger than granitic medium sand matrix. 84-85' - Clay bed. Polymictic. Clay balls up to 10%. Medium and fine sand matrix. 86' - Granitic boulder. Boulder felsic volcanic. Clay balls with 10 - 15% greenstone pebbles, very dark, soft and friable. No sand. 91' - Clay balls - Minor and mafic gneiss boulder. Increase of clay balls with depth of 75%. i.e. at 92'. Primarily mafic volcanic and sedimentary pebbles - some grey felsic apparently bedded. Fine sand and silt in matrix. Trace limestone. 96' - Gritty clay balls up to 80-90% greenstone pebbles. 98' - Elongate, thin mafic sediments. 100-101' - Dark greenish grey clay balls; dark green boulder. 101-107' - Bedrock - Graphitic metasediment black, soft, graphitic, friable 5 - 10% pyrite probably banded.	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ni</u>	<u>Ag</u>	<u>Wt</u>	<u>Au</u>
				285	1	280	73	ND	-	5
			107' - End of Hole.							

C. Rodinger

WESTERN MINES LTD.

GEOLOGIST: G. Thomas, F. Thompson DATE: January 27, 1981. HOLE # DO-81-22

SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: Gov't. Line at Stream
5 km. West of Winter Road

BIT NO.: 090160 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses
	Y		0-10' - Swamp	
	Y		10-17' - Clay curds. Cream and gray.	
10	Y		17-62' - Gravel - Up to 80% pebbles. Very high in limestone; no appreciable mafics. Primarily medium quartz sand matrix.	
			32' - Increase in mafic.	
20		1	36' - Decrease in limestone <10-15%. Minor clay bed. Predominantly medium sand matrix.	
			40-44' - Medium sand, minor pebbles.	
30		2	44-46' - Minor small pebbles; coarse sand framework; medium to fine sand matrix.	
		3	54-56' - Mafic boulder - pyroxenite?	
40		4	56-60' - Small, polymictic pebbles up to 25%, coarse sand matrix. Fossiliferous limestone. Lessor gravel from 60-62' - mainly fine and medium sand.	
		5	62-78' - Till - up to 50% gritty clay balls with fine sand. Greenstone pebbles and coarse granitic sand component.	
50		NS	64' - Pink granite boulder followed by gritty clay balls to 90% containing 10% greenstone pebbles.	
60		6	72-74' - Clay bed - grey, as curds. 74-78' - Clay rich, minor mafic pebbles. 78' - Acid test positive on clay.	
		7	78-98' - Clay - Clean, grey and hard.	
70		NS	98-118' - Till - Greenstone pebbles in greyish-green clay up to 50% pebbles. Primarily phyllitic minor limestone - + HCl. test. Also granite gneiss, mainly gneiss pebble fraction.	
		8		
80		No SAMPLE	104-114' - Fine sand. Some sedimentary pebbles; minor gritty clay balls. 114' - Cobbles - granitic and greenstone sediment. Any containing trace disseminated pyrite.	
90			118-148' - Gravel - Greenstone sediment and gneissic pebbles. Medium to coarse sand matrix. Some quartz pebbles, white and pure, clear.	
100		9		

WESTERN MINES LTD.

GEOLOGIST: G. Thomas, F. Thompson DATE: January 27, 1981 HOLE # DO-81-22
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: Gov't. Line at Stream
5 km. West of Winter Road
 BIT NO.: 090160 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
				Cu	Pb	Zn	Ni	Ag	Wt	Au
		9	Greenstones argillaceous and phyllitic.	152	46	112	124	0.4	-	490
		10	119' - Section becomes more rich in coarse mafic sand.	130	19	72	70	0.3	-	60
110			120-122' - Coarse quartz and sand matrix.							
		11	124' - Granite-gneiss boulder. 128' - Granitic and gneissic component increasing, sediments decreasing - pyritic.	455	114	460	200	1.6	-	270
120		12	Minor limestone.	415	104	445	185	1.5	-	155
		13	130' - Glassy, white pebbles of vein quartz.	310	74	420	175	1.2	-	130
130			Medium and coarse sand matrix more predominant than pebble framework.							
		14	140' - Small pebbles. Coarse sand 50:50.	355	84	415	195	1.2	-	790
140			141' - Boulder - gabbroic. 143' - Boulder - light grey - felsic intrusive? 144' - Sediment and volcanic pebbles predominate. Coarse sand matrix.							
		15	Detrital pyrite and pyrrhotite?	235	92	410	220	1.2	-	150
		16		390	94	440	215	1.3	-	290
		17	148' - 153' Bedrock - Siltstone-argillite. Very fine-grained. Laminated slaty cleavage. Pyrite coatings on fracture planes; trace pyrite chips.	395	120	465	195	1.8	-	220
150		18	Sample looks graphitic.	255	22	94	55	0.4	-	15
			153' - End of Hole.							

Sample 16 1 grain v.g. 250µ transported

C. Rodenburg

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Jan. 27/81 HOLE # DO-81-23

SAMPLER: M. Mahaffy CLAIM GROUP: Detour Block PROV.: Ontario

CONTRACTOR/DRILLER: D. Jodouin FIELD LOCATION: Gov't. Base Line - W. of Winter Rd.

BIT NO.: 090160 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
NS.		0-4' <u>Humus</u> - minor brown clay.							
DO-81-23 1		4-17' <u>Sand & Pebbly Sand</u> Grey, fine clay top. Fine to medium sand matrix. Increase in % of pebbles near base.	Moderate to low return.						
			<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ni</u>	<u>Ag</u>	<u>Wt</u>	<u>Au</u>
			112	32	104	38	0.5	-	L5
DO-81-23 2		17-28' <u>Clay Till</u> 50% 1 cm - 2 mm gritty clay till balls, 50-60% white gneiss pebbles, 10-20% limestone, clay bed @25'. Clay till to 29'.	230	54	168	72	0.8	-	L5
DO-81-23 3		28-32' <u>Gravel</u> Sandy matrix, 60% granite + gneiss, 10-15% limestone clast dominant.	58	35	60	25	0.3	-	360
DO-81-23 4		32-42' <u>Sand & Gravel</u> Few clay balls @32'. Gabbro boulder 35 to 37 1/2. Brown fine to medium sand. Coarse gravel base.	156	22	66	50	0.4	-	10
DO-81-23 5		42-50' <u>Gravel to Pebbly Till</u> Few gritty clay balls @43'. 25-50% till balls @45'. Assorted pebbles, granite + gneiss dominant, abundant limestone, local sediments, limestone cobble @48'. Very sandy matrix, alternating between gravel & pebbly till.	104	20	62	40	0.4	-	L5
DO-81-23 6		50-60' <u>Gravel</u> Fine to medium sand matrix. No clay till balls, granite cobble @55', predominantly biotite gneiss, abundant limestone & sediment, assorted clast size & composition.	110	12	36	23	0.5	-	L5

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Jan. 27/81 HOLE # DO-81-23
 SAMPLER: M. Mahaffy CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: Gov't. Base Line W. of Winter Rd.
 BIT NO.: 090160 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
	DO-81-23 7	60-70' <u>Gravel</u> Fine to medium sand matrix, biotite gneiss cobble @65', assorted pebbles. Minor clay @68' till & clay coated pebbles.	Cu	Pb	Zn	Ni	Ag	Wt	Au
			138	16	31	28	0.3	-	105
	DO-81-23 8	70-80' <u>Clay-Pebble-Till</u> 50% gritty clay till balls, pebbles - 50% biotite gneiss + granite, 40% siltstone/ argillite, 10-20% limestone. 2 cm - 2 mm pebble content especially siltstone inc. down section.	210	16	32	48	0.4	-	L5
	DO-81-23 9	80-90' Abundant till balls + pebbles, 50% gneiss, 50% siltstone, minor limestone. Very sandy matrix. Inc. in pebble-size. & abundant down section.	146	17	64	48	0.4	-	145
	DO-81-23 10	90-97' @90' - 90% till balls. 92' - grey clay bed. Assorted pebble content.	133	12	39	28	0.3	10	310
	DO-81-23 11	97-103' <u>Gravelly Till</u> Alternating pebble & clay- rich sections. Pebbles are predominantly gneiss and granite.	285	42	123	98	0.6	10	55
DO-81-23 12 N.S.	103-120' <u>Silt</u> Very fast drilling. Scattered pebbles.	225	40	117	105	0.5	10	985	

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: January 28, 1981. HOLE # DO-81-23
 SAMPLER: D/ Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: S. of Gov't. Line 5 km. West of Winter Road
 BIT NO.: 090166 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
				Cu	Pb	Zn	Ni	Ag	Wt	Au
120		13	120-155' Gravel - Primarily sedimentary greenstone. Up to 1% pyrite as pebbles and spheres. 5-10% granitic or gneissic; some limestone. Quartz pebbles 1-2%. Coarse sand matrix.	385	90	500	150	1.5	10	355
130		14	132' - Increase in fine matrix up to 30-40% by volume - fine sand and silt. Could be a till horizon. 134' - Coarse matrix subordinate to fine.	395	97	475	193	1.9	10	315
140		15	135' - Increase in mafic component - gabbroic? 138' - Boulder-Gabbro?	700	103	1600	127	2.5	10	100
		16	Matrix of fine and medium sand containing pyrite. Also pyrite plates argillaceous pebbles.	945	135	675	93	3.8	10	160
150		17	142' - Massive pyrite pebbles up to 20%. Matrix medium and coarse sand. All framework volcanic and sedimentary.	400	85	250	188	1.6	10	95
160		18	148' - Boulder-Gabbro - perhaps diorite. 150' - Boulder-Gabbro. Gravel between boulders (above and below) up to 10% pyrite as pebbles and nodules. Predominantly small volcanic sediment pebbles. Minor granitic/gneiss. 154' - Pyrite pebbles .5 - 1%. Little or no matrix. Limestone minor. 155-160' - Bedrock Mafic volcanic - green, fine grained, massive, minor calcite, no sulfides.	116	1	46	65	ND	-	15
			160' - End of hole							

C. Rodolph

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: January 28, 1981. HOLE # DO-81-24
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: South of Gov't. Line
6.2 km. West of Winter Road
 BIT NO.: 080116 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			0-10' - Good return - no sample							
10			10-20' - Till - clay balls up to 60%. Gritty. Small mafic and granitic pebbles. Minor medium grained sand matrix, silt.							
		1	15' - increase in mafic sediment component, lesser granitic pebbles, + HCl. test on clay.							
20			20-34' - Sandy Gravel - Coarse sand fine sand and silt 10:90. Coarse and medium sand fraction increases with depth. Small pebbles are mainly granitic and gneissic. Minor limestone.							
		2	20-26' - limited return.							
30			34-40' - Till - Clay balls up to 40%. Granitoid pebbles, minor limestone.							
		3	35-36' - Decrease in clay, increase in fine and medium sand. 37' - Greenstone sediment cobble. 38' - Quartz-rich gneiss cobble.							
40			40-56' - Gravel - Decrease in clay to 10%. Medium to coarse sand matrix. Granitoid cobbles increase.							
		4	41' - Quartz cobble. Return grades into a gravel.							
50			42-44' - Medium grained sand - as a bed. Polymictic composition.							
		5	46' - mafic sediment cobble. 48' - Greenstone sediment pebbles and cobbles; medium sand matrix.							
60			54' - Granitic boulder followed by mafic gneiss boulder (small).	Cu	Pb	Zn	Ni	Ag	Wt	Au
		6		170	12	41	39	0.2	-	15
70			56-74' - Till - Clay balls. Greenstone sediment pebbles with subordinate granitic, minor limestone.							
		7		118	11	40	42	0.2	-	45
		8	59' - small granite boulder. 62-66' - Predominantly clay. Minor sediment pebbles. Positive HCl. test on clay.	140	18	42	60	0.3	-	110
		9	66' - Boulder-gabbro. 71' - Cobble-gabbro. 73-74' - Boulder-gabbro.	355	10	27	54	0.2	-	50
80			74' - Cobbles and small boulders quartz diorite, granite gneiss.	46	9	32	24	0.1	-	20
		10	-Increase in boulders and cobbles after 66' - decrease in clay. Granodiorite Boulder 75-76' - + 10 rejected.							
90			76-78' - Gravel - greenstone sediments (slate?) with lesser granitic pebbles. Granitic component smaller in size. Medium to coarse sand matrix. Minor limestone.	185	12	45	30	0.2	-	310
100		12		10	1	30	55	ND	-	15

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: January 28, 1981 HOLE # DO-81-24
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: South of Gov't. Line
6.2 km. West of Winter Road
 BIT NO.: 080116 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses
		80-82' - Limited sample - some fine sand and silt.	
		86' - Clay balls - minor, clay as coatings.	
		88-90' - Gravel - greenstone pebbles; medium sand matrix.	
		90-92' - Clay balls - grey, soft. Sediment pebbles.	
		94' - Predominantly medium to fine sand matrix, less clay. Cobble-grey, felsic volcanic.	
		94-100' - Bedrock - Mafic volcanic green, fine-grained massive 5% calcite veins.	
		<i>C. Rodd</i>	

WESTERN MINES LTD.

GEOLOGIST: Thomas/D. Robinson DATE: Jan. 28/81 HOLE # DO-81-25
 SAMPLER: D. Lewis/M. Mahaffy CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne : Bradley FIELD LOCATION: Gov't. Line, 6.5 km W. of Winter Rd.
 BIT NO.: _____ NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
		0-6' Limited return.							
10	DO-81-25 1	6-12' Till - tan and gray clay balls. Minor pebbles - mainly limestone. 8' - granitic boulder rejected. Grey clay balls become silty, gritty.	Cu 325	Pb 25	Zn 83	Ni 34	Ag 0.4	Wt 10	Au 5
20	DO-81-25 2	12-20' Granitic pebbles increase. Pebble to matrix 1:4. Pebbles greenstone and granitic. 19' - above section appears to grade into gritty grey clay - as small balls.	149	24	66	123	0.7	10	20
	DO-81-25 3	20-30' Gravel Assorted pebbles; 50% pink granite + white gneiss, 50% sediment + mafic volcanic, minor limestone - 1-2 cm size, subangular. Fine sand matrix.	215	26	62	37	0.4	10	15
	DO-81-25 4	30-40' Predominantly foreign pebbles, 60% biotite gneiss, 40% sediments + volcanics. Abundant limestone, few scattered cobbles.	162	16	49	30	0.2	10	15
	DO-81-25 5	40-50' Sandy gravel. 43' - mafic cobble. Predominately local volcanic + sedimentary pebbles. 46' - pink feldspar-gabbro boulder. 49' - 25% milky-white quartz chips.	360	20	50	46	0.3	10	230
	NS.	50-53' Gravel 51' - feldspar-gabbro cobble. 53' - clay till balls.							
	DO-81-25 6	53-59' Clay Till (local?) Abundant 1 cm clay till balls. 54' - 90% argillite pebbles. <25% total pebble component. Fine silt-sand matrix. No limestone. 56' - pink granite pebbles. 56½, 58½ - grey clay balls.	200	20	57	43	0.4	5	15

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Jan. 28/81 HOLE # DO-81-25
 SAMPLER: M. Mahaffy CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: North E - W Line; Gov't Line
 BIT NO.: _____ NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			Cu	Pb	Zn	Ni	Ag	Wt	Au
	DO-81-25 7	59-65' <u>Clay Till</u> Predominantly gritty clay till balls, <25% pebbles, predominantly local argillite. Very hard unit.	350	30	80	48	0.3	8	35
	DO-81-25 8	65-59' <u>Local till.</u> 65' - argillite cobble. >50% matrix, clay till balls. 25% pebbles, 90% grey argillite, 1 cm - 2 mm size.	137	14	38	35	0.4	7	105
	DO-81-25 9	69-73½' <u>Bedrock - Argillite</u> Blue-grey-green, very fine grained, schistose/laminated. Minor sulphide coating on fracture surfaces.	38	1	23	12	ND	-	15

C. Roddingham

WESTERN MINES LTD.

GEOLOGIST: D. Robinson/C. Rockingham DATE: Jan. 28/81 HOLE # DO-81-26
 SAMPLER: M. Mahaffy/L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/
 DRILLER: D. Jodouin/G. Gagne FIELD
 LOCATION: N.W. Corner of Property
 BIT NO.: 090162 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
0 - 10		<u>Swamp</u> Very minor return.							
10 - 20		<u>Pebbly sand</u>							
20 - 30	1								
30 - 40		<u>Gravel</u>							
40 - 45	2	<u>Cochrane Till</u> 60% 2 cm - 2 mm biotite gneiss pebbles.							
45 - 50	3	25-35% local volcanic + argillite Limestone fragments. Abundant sand.	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ni</u>	<u>Ag</u>	<u>Wt</u>	<u>Au</u>
			110	13	54	23	0.2	10	85
50 - 60		<u>Clay</u> Grey clay, very few pebbles.							
60 - 65	4								
65 - 70	5	<u>Pebbly Till</u> Pebble-rich, predominantly argillite, minor granite, no limestone visible. 10% clay balls (<5 mm).	120	10	31	26	0.2	10	15
70 - 75	6	Larger pebbles are local.	90	9	27	27	0.1	6	5
75 - 80	7		77	12	115	22	0.1	5	5
80 - 85	8	<u>Limestone cobble.</u>	137	15	60	24	0.1	10	110
85 - 90	9		400	43	100	75	0.7	10	740
90 - 95	N.S.	<u>Gabbro boulder.</u>							
95 - 100	10		365	123	250	170	2.0	10	85
100 - 105	11	<u>Local Gravel</u> 75-85% pebbles are local gabbro volcanic + sediment. Medium sand matrix.	375	140	275	175	2.3	10	80

WESTERN MINES LTD.

GEOLOGIST: D. Robinson/C. Rockingham DATE: Jan. 29/81 HOLE # DO-81-26

SAMPLER: M. Mahaffy/L. Nutter CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/
DRILLER: D. Jodouin/G. Gagne FIELD
LOCATION: N.W. Corner of Property

BIT NO.: 090162 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			Cu	Pb	Zn	Ni	Ag	Wt	Au
110	11	Local Gravel	375	140	275	175	2.3	10	80
	12	1% graphite + pyrite nodules throughout.	315	115	270	165	1.9	10	160
	13	1% pyrite + quartz pebbles (angular).	265	70	290	158	0.9	10	130
	14	5% clay balls.	285	75	290	180	1.0	10	70
120	15	Bedrock-Gabbro In part typical of local gabbro. In part sheared or foliated resembling mafic tuff.	26	ND	23	55	ND	-	15
130									
140									

C. Rockingham

WESTERN MINES LTD.

GEOLOGIST: C. Rockingham DATE: Jan. 29/81 HOLE # DO-81-27
 SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: Central Line W. End of Property
 BIT NO.: 090162 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			Cu	Pb	Zn	Ni	Ag	Wt	Au
	1	<u>Organic</u> <u>Cochrane Till</u> Calcareous clay balls -80%, 10% granite, 10% limestone. Minor local content. Abundant medium coarse sand.	115	28	80	32	0.3	5	L10
	2		545	55	134	88	1.2	10	20
	3	<u>Bedrock - Mafic Volcanic</u> Minor quartz veins + sulfides, massive fine-grained, dark-green basalt.	48	ND	24	38	ND	-	5

C. Rockingham

WESTERN MINES LTD.

GEOLOGIST: C. Rockingham DATE: Jan. 29/81 HOLE # DO-81-28

SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/ DRILLER: G. Gagné FIELD LOCATION: 2nd Hole from W. End on Central Line

BIT NO.: 090162 NTS: 32 E-13
090163

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
		<u>Cochrane Till + Organic</u>							
		<u>Cochrane Till</u>							
10	1	Granite + gneiss pebbles - 80%. Local mafic volcanics - 20%. Minor limestone.	<u>Cu</u> 300	<u>Pb</u> 20	<u>Zn</u> 53	<u>Ni</u> 40	<u>Ag</u> 0.4	<u>Wt</u> 8	<u>Au</u> 45
	2	Abundant medium to coarse sand. Variable clay ball content.	250	23	50	64	0.3	9	15
20	3		74	13	73	26	0.1	10	15
	4	<u>Bedrock + Till</u>	560	3	54	115	0.5	10	5
30	5+6	<u>Mafic Volcanic Flow</u> Massive, dark-green, fine-grained.	100	ND	34	56	ND	-	15
40									

C. Rockingham

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Jan. 29/81 HOLE # DO-81-29
 SAMPLER: M. Mahaffy CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: 2nd E-W Line, on Creek, W. End.
 BIT NO.: 090162 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses							
			Cu	Pb	Zn	Ni	Ag	Wt	Au	
0-6'	NS.	<u>Humus</u>								
6-26'	DO-81-29	<u>Cochrane Clay Till</u> Few pebbles, abundant limestone. Biotite gneiss boulder @10'. Fine to medium sand matrix. Gravelly @10' with no clay, foreign clasts, biotite gneiss + granite.	110	30	80	32	0.3	6	5	
26-36'	DO-81-29	<u>Sandy-Clay Till</u> Minor gritty till balls. Very sandy.	184	22	75	43	0.3	10	L5	
36-48'	DO-81-29	Sporadic return; 40' large, soft grey clay balls - 2-1 cm.	315	34	135	88	0.6	10	130	
48-51½'	DO-81-29	<u>Sand & Gravel</u> Abundant biotite gneiss, 50% Limestone 10%, argillite, cobble at 50', mafic volcanic boulder @51'.	173	24	64	42	0.4	10	L5	
51½-56'	DO-81-29	<u>Bedrock</u> Argillite or intermediate mafic tuff, grey, very fine grained, minor quartz veins, trace sulphide coating on fracture surfaces.	95	ND	56	79	ND	-	10	

C. Robinson

WESTERN MINES LTD.

GEOLOGIST: C. Rockingham DATE: Jan. 30/81 HOLE # DO-81-30

SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/
DRILLER: G. Gagne FIELD
LOCATION: 600 m E. of #29 @ Creek

BIT NO.: 090160 (used) NTS: 32 E-13
59251 (new)

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
		<u>Organic</u>							
		<u>Cochrane Till</u>							
10	1	80% grey, calcareous, gritty clay balls. 20% pebbles.	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ni</u>	<u>Ag</u>	<u>Wt</u>	<u>Au</u>
		60% granite + gneiss.	144	29	91	35	0.4	-	110
	2	10-20% limestone.	118	24	64	35	0.4	-	15
20		5-20% local volcanic + sediment. High content of medium-grained sand in matrix.							
	3		94	18	58	29	0.2	-	15
30		Local pebble content is variable (up to 30%).							
	4		96	18	66	31	0.2	-	15
40									
	5		72	16	38	24	0.2	-	25
50		High clay content.							
	6		88	21	58	32	0.3	-	90
60									
	7		230	28	92	66	0.4	-	110
70		<u>Bedrock - Mafic Volcanic</u>							
	8	Minor quartz veins with sulfides. Massive fine-grained dark-green. Difficult drilling.	94	1	44	105	ND	-	15

C. Rockingham

WESTERN MINES LTD.

GEOLOGIST: C. Rockingham DATE: Jan. 30/81 HOLE # DO-81-31
 SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/
 DRILLER: G. Gagne FIELD
 LOCATION: W. Edge of Swamp @ 40 E.
 BIT NO.: 59251 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
0-10		<u>Organic</u>							
10-20	1	<u>Cochrane Till</u> Clay ball content variable up to 80%. Local volcanic + sedimentary pebble content also variable but increases down section. Limestone content 0-10%. High content of medium-coarse, white sand in matrix.	Cu 123	Pb 38	Zn 260	Ni 44	Ag 0.3	Wt 3.3	Au 1.5
20-30	2		113	37	98	38	0.6	10	15
30-40	3		93	20	75	28	0.3	10	1.5
40-50	4	Gneiss cobble. Limestone cobble.	83	30	70	26	0.3	10	1.5
50-60	5	High clay content.	95	22	78	27	0.3	10	1.5
60-70	6		375	27	77	40	0.4	4.2	30
70-80	7	<u>Bedrock - Mafic Volcanics</u> Minor quartz veining + pyrite. Massive, fine-grained, dark-green.	58	1	21	106	ND	-	1.5

C. Rockingham

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Jan. 31/81 HOLE # DO-81-32
 SAMPLER: M. Mahaffy CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: 2nd E-W Line; Road Junction
 BIT NO.: 090160 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
[Hatched pattern]	NS.	70-100' <u>Clay</u> Green-grey, no pebbles, very fine-grained, massive. Very fast drilling. Moderate to low return.							
[Dotted pattern]	DO-81-32 6	100-105' <u>Gravel</u> 90% granitic, mafic volcanic pebbles (local), minor limestone, quartz, red jasper. Coarse matrix.	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ni</u>	<u>Ag</u>	<u>Wt</u>	<u>Au</u>
			210	32	52	80	1.0	10	380
			1 grain v.g. 100 μ transported						
[V-shaped pattern]	DO-81-32 7	105-108' <u>Bedrock - Mafic tuff.</u> Chlorite, schist, very fine-grained, chloritic, dark-green.	Water problems. Change holes after 3' of bedrock.						
<i>C. Robinson</i>									

WESTERN MINES LTD.

GEOLOGIST: D. Robinson/C. Rockingham DATE: Jan. 31/81 HOLE # DO-81-33

SAMPLER: M. Mahaffy/L. Nutter CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/
DRILLER: Jodouin/Gagne FIELD
LOCATION: S. of DO-81-32 (400m)

BIT NO.: 090155 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
10		<u>Humus</u> - very minor return.							
10	1	<u>Cochrane Till</u> Calcareous clay balls. Very few pebbles - granite and limestone.	<u>Cu</u> 58	<u>Pb</u> 20	<u>Zn</u> 42	<u>Ni</u> 25	<u>Ag</u> 0.2	<u>Wt</u> -	<u>Au</u> 15
20	2	15-20% gritty clay balls, pebble dominant, 10% local volcanic clasts Abundant medium sand matrix.	116	16	56	44	0.2	-	65
30	3	60% clay balls. 30% local pebbles.	96	11	33	37	0.3	-	125
40	4	Dominantly local volcanic + gabbro pebbles.	130	14	38	40	0.3	-	100
50	5	<u>Bedrock Mafic Volcanic</u> Massive, fine-grained, dark-green.	17	6	635	45	ND	-	15
		<i>C. Rockingham</i>							

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: January 31, 1981 HOLE # DO-81-34

SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: 45 + 00E, 11+00N

BIT NO.: 090155 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses								
			0-6' - No return									
10		1	6-30' Till - Greenish-grey clay balls; minor granitic pebbles. Some limestone.	Cu	Pb	Zn	Ni	Ag	Wt	Au		
				130	30	30	37	0.5	-	10		
		2	9' - Granitic cobbles and pebbles; minor clay balls up to 15%. 10-12' - Increase in greenstone pebbles; clay balls up to 75%. 12-14' - Limestone up to 15-20%. 14-16' - Clay balls >75%.	255	35	108	52	0.6	-	15		
20		3	20' - Boulder-sheared greenstone sediment.	1900	28	46	39	0.7	-	55		
		4	20-24' - Increase in sheared sediment cobbles and small boulders. 24-26' - Boulder-greenstone-gabbroic, soft - rejected.	740	31	62	37	0.4	-	70		
30		5	26-28' - Mainly sheared sediment boulders; minor clay balls, limestone; granite gneiss boulder. 28-30' - Section becomes more pebbly - small sized. Granitic component increases.	65	2	71	93	0.1	-	15		
40			Mafic volcanic - dark green, massive fine-grained, soft, chloritic 1% coarse pyrite.									
			36' - End of Hole.									

C. Rodin

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: January 31, 1981. HOLE # DO-81-35

SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: 7+00N, 49+50E

BIT NO.: _____ NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
				Cu	Pb	Zn	Ni	Ag	Wt	Au
			0-4' - Good return; limited sample.							
10		1	4-28' - Till - greenish-grey clay balls, gritty. Limestone present - minor mafic gneiss pebbles, quartz, sediments, granitic.	68	25	54	24	0.2	-	L5
		N.S.	10-12' - Grey clay balls, minor granitic pebbles.							
20		2	12-16' - Clay bed - Grey clay as balls and curds, clean - rejected.	114	32	80	38	0.5	-	L5
		3	17' - Grey felsic cobble.	36	12	22	17	0.1	-	140
		4	21' - Cobble - medium brown, fine-grained felsic volcanic.	30	17	21	14	0.2	-	175
30		5	22' - Mafic gneiss and granitic pebble bed; some sand.	132	20	53	40	0.2	-	70
		6	23' - Clay balls become slightly yellowish as well as being grey.	210	48	72	54	1.0	-	25
40		7	26-28' - Sand bed - yellowish brown, medium.	132	20	82	32	0.3	-	45
		8	28-38' - Gravel - Greenstone slate pebbles and cobbles, lessor granitoid. Coarse and medium sand matrix Grey in colour. Minor limestone.	48	1	88	58	ND	-	L5
50			32' - Mainly small pebbles.							
			34-37' - Polymictic - up to 5% limestone.							
60			37' - Coarse and granular, small pebbles.							
			Small boulder olive-green, fine-grained felsic volcanic-weathered.							
			38-46' Till - Clay balls. Lithology remains comparable to gravel section except for clay matrix - up to 15% cobbles limestone, mafic gneiss; volcanic pebbles.							
			40' - Boulder granite gneiss.							
			42' - Small pebbles - mainly granitoid; medium sand matrix.							
			43' - Minor 4-1% clay balls.							
			46-51' Bedrock - Mafic volcanic massive to moderate foliation, dark green soft chloritic.							
			51' - End of hole.							

C. Redington

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: January 31, 1981 HOLE # DO-81-36
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: 7+00N, 52+25E
 BIT NO.: _____ NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			0-4' - Good return. Limited clay balls and wood.							
10		1	4-20' - Till - Clay balls up to 25%. Limestone up to 25% as cobbles and pebbles. Granitoid pebbles. Minor greenstone as pebbles.	Cu	Pb	Zn	Ni	Ag	Wt	Au
			4-14' - Clay balls grey; minor limestone and granitoid pebbles.	158	20	60	22	0.2	-	5
		2	18' - Clay balls become gritty.	102	35	118	38	0.6	-	20
20		3	20-24' - Gravel - coarse and medium sand matrix.	2200	37	96	70	0.9	-	125
		4	21' - Mafic gneiss cobbles and pebbles. Coarse and medium sand. Mafic sand - appears to be hornblende. Minor limestone pebbles.	132	45	103	32	0.6	8	10
30		5	24-36' - Till - Clay balls vary from minor to >75%. Limestone cobble, granitic pebbles. Minor greenstone. Clay balls gritty.	132	43	105	36	0.7	6	15
			28' - Boulder granite gneiss. Limestone up to 30%.	18	2	73	8	0.1	-	15
40		No SAMPLE	30' - Nearly all clay balls; minor granitoid and limestone as small pebbles. Minor greenstone. 32' - Cobble greenstone. 36-57' - Clay Bed - Large grey curds and strings; soft and clean. Rejected. 57-62' - Bedrock Quartz eye intermediate tuff, blue quartz eyes ~1mm. brown-purple siliceous fine-grained matrix, hard to scratch. Minor quartz veins.							
50										
60										

C. Rodighiero

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 1, 1981 HOLE # DO-81-37
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: 7+00N, 55+50E
 BIT NO.: 090159 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
				Cu	Pb	Zn	Ni	Ag	Wt	Au
			0-8' - Good return - limited sample wood, minor clay.	144	50	150	43	0.7	3.5	L15
10		1	8-64' - Till - Clay balls, grey. Minor mafic sediments as pebbles, limestone. Clay somewhat gritty. Limited sample from 12-16'. 18-24' - Clay bed - grey, clean, soft - as strings. Rejected. 24-34' - Clay balls gritty and soft. Minor pebbles - limestone, gneissic and granitic, greenstone. Fine to medium sand plus silt in matrix.							
20		NO SAMPLE	34' - Fine to medium sand matrix.							
30		2	35' - Greenstone cobbles, granitic cobble; medium and coarse sand matrix.	145	42	133	44	0.8	8	20
40		3	36' - Small quartz-rich gneiss boulder, pink granite boulder. Clay balls (gritty) up to 30%. Greenstone, limestone and gneissic pebbles. Fine sand and silt in matrix.	125	37	54	45	0.5	8	20
40		4	40' - Hard, grey, gritty clay balls - some appear brittle. Minor fossile sediment pebbles, gneissic, limestone.	155	20	66	53	0.8	7	845
50		5	42' - Granite cobble; ultramafic cobble. Greyish-green felsic volcanic pebbles. Up to 60% gritty clay balls. Fine sand and silt in matrix.	87	20	68	30	0.1	10	10
50		6	44' - Small granite gneiss boulder rejected.	177	38	65	98	0.5	8	25
60		7	46' - No granitoid component. Up to 20% greenstone sediments as pebbles. Minor limestone.	170	39	73	98	0.4	8	190
60		8	49' - Cobble-grey felsic volcanic.	220	30	55	75	0.5	7	75
70		9	63' - Boulder - granite. Rejected.	345	30	62	77	0.8	8	105
70		10	64-69' - Bedrock - Mafic volcanic, fine-grained, dark green, moderate foliation chloritic, minor py and calcite.	78	ND	92	25	ND	-	5

Sample 4 1 grain v.g. 150µ
 Sample 8 1 grain v.r. 500µ
 Both are transported

C. Rodding

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 1, 1981. HOLE # DO-81-38

SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: 7+00N, 58+50E

BIT NO.: 090119 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses								
			0-6' - Poor return, no sample. 6-10' - Good return, poor sample - some grey clay and wood. 10-84' Till - Grey clay balls with fine sand and silt. Up to 20% pebbles.									
10		1	Limestone and greenstone sediments, primarily. 26-27' - Clay bed - soft and smooth grey clay - rejected. 27' - Pebbles - primarily greenstone, granitic and gneissic. Limestone up to 5%. Medium and fine sand, silt matrix. Small pebbles, granular in part. Section becomes increasingly like a gravel - coarser matrix from 34'.	150	40	137	49	0.6	2.4	L25		
20		2		147	44	95	45	0.6	3.05	70		
30		3	36' - Greenstone cobbles, granite cobble. 37' - Clay balls - section as described from 10 - 26'.	150	27	54	60	0.4	10	30		
40		4	42' - Greenstone sediment cobble.	197	28	42	32	0.4	5	15		
		5	45-50' - Gritty clay balls; very minor pebble.	115	18	45	32	0.2	8	130		
50		6	52' - Quartz cobble, small sediment boulder. 53' - Small mafic gneiss boulder.	103	17	74	42	0.3	7	15		
		7	53-54' - Increasing granitic pebble. Pebble framework > matrix. 54-60' - Matrix becomes more gritty.	180	43	65	80	0.7	9	15	1 grain v.g. 250µ transported	
60		8	66-72' - Clay Till -90% clay till balls	147	33	87	78	0.6	6	35		
		9	-10% pebbles - predominantly volcanic plus sediment, minor granite and limestone. -very soupy samples clay matrix dominant.	205	33	102	95	0.6	2.8	130		
70		10	72-78' - as above. -minor quartz + red jasper pebbles.	185	35	64	83	0.6	7	60		
		11	<10% pebbles <.5 cm. size.	180	45	85	85	0.5	5	25		
80		12	78-84' - Clay Till -matrix dominant -<10% pebbles, local.	225	34	68	77	0.5	4.9	800		
90		13	84-90' - Bedrock - Mafic Schist -very fine-grained. -dark green. -chloritic and sericitic -50% quartz chips.	9	ND	20	12	ND	-	30		

C. F. [Signature]

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Feb. 1/81 HOLE # DO-81-39
 SAMPLER: L. Nutter CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: 2nd E-W Line
 BIT NO.: 090119 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
0-3'	N.S.	Humus							
3-14'	DO-81-39 1	Clay Till 1/4' brown clay, 25% pebbles. Assorted, granitic limestone sediment, volcanic, oxidized.							
14-18'	DO-81-39 2	Clay Till 17' - abundant pink granite chips. Limestone chips 1-2 cm size.							
18-23'	DO-81-39 3	Gravel Coarse, 1-2 cm assorted pebbles, granite, gneiss, limestone. No clay till balls. Medium to coarse sandy matrix, 22' greywacke cobble.							
23-30'	DO-81-39 4	Pebbly Till & Gravel 23-25' - 35% clay till balls mixed with pebbles, coarse limestone, granite, gneiss, distal clasts, @25' gravel, no clay, 60% sand matrix.	Cu	Pb	Zn	Ni	Ag	Wt	Au
			120	24	54	55	0.4	10	15
30-36'	DO-81-39 5	Clay Till 40% clay till balls with abundant pebbles. 90% granite, volcanic + sediment, 10% granite + limestone.	177	63	107	145	0.7	9	100
36-42'	DO-81-39 6	Clay matrix dominant with local pebbles. 38' - mafic gneiss boulder.	135	30	130	70	0.3	10	350

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Feb. 1/81 HOLE # DO-81-39
 SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 BLOCK
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: 2nd E-Y Line
 BIT NO.: 090119 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			Cu	Pb	Zn	Ni	Ag	Wt	Au
42-48'	DO-81-39 7	Clay Till Clay matrix dominant. <10% pebbles, local granite, volcanic or sediment, 46' - grey greywacke boulder, 48' - biotite gneiss cobble, 10-25% total pebbles.	137	42	84	74	0.7	10	1390
48-54'	DO-81-39 8	Matrix dominant. <10% pebbles, mostly local. Minor granite, gneiss + limestone.	172	26	75	73	1.6	5	GI5000
54-60'	DO-81-39 9	Matrix dominant. Biotite gneiss boulder at 54.5 to 57', <5-10% pebbles.	150	25	67	65	0.4	10	20
60-66'	DO-81-39 10	Clay till, 5 mm size, green pebbles, local sediment + volcanic.	135	24	68	55	0.3	10	360
66-72'	DO-81-39 11	Same as above. 68' - pebble-rich grey greywacke. 64' - Gabbro - medium-grained, massive, lime-green - feldspathic.	103	25	67	60	0.4	10	200
72-78'	DO-81-39 12	Predominantly clay matrix. 72.5 to 73.5 - pink granitic boulder. 75' - volcanic cobble. <10% total pebbles - local.	112	21	45	78	0.3	7.5	520
78-84'	DO-81-39 13	90% clay till balls.	107	23	45	75	0.3	7	295
84-90'	DO-81-39 14	@88' - 20% pebbles grey greywacke & limestone.	166	27	72	87	0.4	6	115

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Feb. 1/81 HOLE # DO-81-39
 SAMPLER: L. Nutter CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: 2nd E-W Line
 BIT NO.: 090119 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			Cu	Pb	Zn	Ni	Ag	Wt	Au
	DO-81-39 15	90-96' <u>Clay Till</u> Matrix dominant. Granite boulder @91' and 94 to 96'.	134	30	55	95	0.3	10	65
	DO-81-39 16	96-99' <u>Clay-Pebble-Till</u> Abundant angular, green volcanic chips with clay.	137	28	40	80	0.4	9	205
	DO-81-39 17	99-104' <u>Bedrock - Mafic tuff, chloritic, green, very fine-grained.</u> 5-10% fine disseminated pyrite in quartz - calcium veins, small scale banding of quartz & volcanic. Excellent <u>Au</u> host rock.	94	ND	76	75	0.3	-	15
							1.7		48

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Feb. 1/81 HOLE # DO-81-40
 SAMPLER: L. Nutter CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: 2nd E-W Line
7+00N 64+50E
 BIT NO.: 090119 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
	NS.	0-3' <u>Humus</u> - brown clay.							
	DO-81-40 1	3-6' <u>Pebble - Clay - Till</u> 40% pebbles, abundant limestone. Medium-coarse sandy matrix.	<u>Cu</u> 5	<u>Pb</u> 10	<u>Zn</u> 14	<u>Ni</u> 8	<u>Ag</u> ND	<u>Wt</u> 7	<u>Au</u> 205
	DO-81-40 2	6-16' <u>Gravel + Sand</u> Coarse assorted pebbles. 1-2 cm limestone chips, medium-coarse sand, <u>no</u> clay till balls.	16	9	14	9	ND	8	25
		16-20' No return.							
	DO-81-40 3	20-24' <u>Pebble - Clay - Till</u> <u>Grey clay bed @22'</u> . 24-30' <u>Gravel + Sand</u> Assorted pebbles. Granite, gneiss, sediment + volcanic. Sandy matrix.	90	18	55	40	0.3	10	25
	DO-81-40 4	30-40' Assorted pebbles, clast dominant, very sandy, <u>no</u> clay.	137	17	48	40	0.4	10	65
	DO-81-40 5	40-46' As above. 46' - minor clay till balls.	121	19	102	40	0.4	9	195
	DO-81-40 6	46-52' <u>Clay Till</u> Abundant clay till balls. 46' - grey-green Mafic volcanic boulder. 90% of pebbles are local.	169	34	83	105	0.6	7	480
	DO-81-40 7	52-58' Matrix dominant. < 25% pebbles, 90% grey-green sediment + volcanic (local). 55' - pink granite cobble. 56-57' - intermediate volcanic boulder.	192	27	125	160	0.4	8	100

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Feb. 1/81 HOLE # DO-81-40
 SAMPLER: L. Nutter CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: 2nd E-W Line
 BIT NO.: 090119 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
✓	DO-81-40	58-64' Bedrock	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ni</u>	<u>Ag</u>	<u>Wt</u>	<u>Au</u>
✓	8	Mafic volcanic tuff - schistose, chloritic.	98	3	88	78	0.3	-	20
✓		Quartz - calcareous - pyritic chips, small-scale banding.	(Assayers Ltd.)						
✓		Very sulphidic sections & cherty same as #39.					2.6	-	55
✓		Excellent potential as host rock.							
✓		<i>C. Rodolph</i>							
✓									

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Feb. 1/81 HOLE # DO-81-41
 SAMPLER: M. Mahaffy CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/
 DRILLER: D. Jodouin FIELD LOCATION: 2nd E-W Line; 300 m E. of 40
 7+00N 67+50E
 BIT NO.: 090157 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
	NS.	0-5' <u>Humus</u>							
	DO-81-41 1	5-10' <u>Gravel and Sand</u> 6" - grey clay bed (1/2). Assorted pebble component. Medium-coarse sand matrix.	Cu 18	Pb 11	Zn 19	Ni 9	Ag ND	Wt 10	Au 5
	DO-81-41 2	10-14' <u>Clay Till</u> 99% clay till balls, 1% pebbles, granite + limestone 1/2 cm size.	118	30	116	36	0.6	5	10
	DO-81-41 3	14-18' <u>Gravel and Sand</u> Coarse limestone chips, granite, volcanic - assorted. Medium-coarse sand matrix. No clay.	100	39	118	34	0.6	6	5
	DO-81-41 4	18-24' <u>Clay Till</u> >80% clay till balls, no sand matrix; limestone, gra- nite, volcanic, sediment peb- bles.	120	25	60	36	0.4	7	45
	DO-81-41 5	24-34' <u>Gravel (Till?)</u> No clay till balls. Pebble dominant, assorted. Limestone - granite - volcanic. Abundant medium sand matrix. 29' - 5% clay till balls.	82	14	50	28	0.2	8	20
	DO-81-41 6	34-40' <u>Pebbly Clay Till</u> Clay till balls. Abundant assorted pebbles with clay coating.	82	12	32	27	0.2	6	95

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 1, 1981 HOLE # DO-81-41
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: 7+00N, 67+50E
 BIT NO.: 090157 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses							
				Cu	Pb	Zn	Ni	Ag	Wt	Au	
40		7	40-74' - Till - Gritty clay balls. Mainly mafic gneiss and granitoid - subordinate greenstone, minor limestone. Coarse and medium sand in matrix. 41-42' - Gravelly.	230	17	43	17	0.2	7	75	
		8	44' - cobbles - granite gneiss, granite; minor clay balls. 50-56' - Greyish-green clay balls - greenstone cobbles and pebbles, Decreasing greenstone sediment to 41% with depth.	29	7	17	16	ND	5	110	
50		9	56' - Dark greenish gray clay balls, hard, somewhat gritty. <2% small pebbles including limestone.	31	9	23	25	0.1	2.5	120	
		10	58' - Greenstone boulder - small. Dark greenish-black clay - looks like licorice - up to 100% from 58 to 63'.	33	7	23	40	ND	3	115	
60		11	63-68' - Greenish-grey clay balls, gritty - minor greenstone, limestone. 68' - Greenstone pebbles increase.	280	18	40	58	ND	4	110	
		12	69' - Greenstone sediment boulder - rejected.	6	7	17	28	ND	10	20	
70		13	71-74' - Granitic boulder - rejected.	30	8	16	14	ND	10	280	
		REJECTED	74-90' - Gravel - Predominantly greenstone pebbles. Coarse and medium sand up to 75% granular and coarse sand framework component.								
		14	76' - Mafic gneiss and greenstone pebbles predominant.	48	7	28	26	ND	8	35	
80		15	76-78' - volcanic pebbles predominant, also limestone present. Coarse sand matrix.	32	8	23	26	0.2	10	35	
		16	78' - Mafic gneiss cobbles, quartz pebbles.	120	24	54	70	0.4	9	250	
90		17	78' - Clay bed - narrow followed by clay balls up to 75% over 1'.	1 grain v.g. 100% transported							
		18	79' - Intermediate intrusive? cobbles and small boulders - grandioritic.	153	26	68	65	0.4	3.5	40	
		19	80-82' - Mainly sediment pebbles; medium sand and silt. Minor limestone.	157	17	32	60	0.5	8	55	
100		20	83-86' - Mainly sediment pebbles with granular - coarse sand. Coarse and medium sand matrix. Limestone up to 5%.	1 grain v.g. 300% transported	190	15	28	50	0.5	7	4425
			90-104' - Till - Grey, gritty clay balls. Silt and medium sand matrix. Sediment pebbles up to 25%. Some granitoid and limestone.	66	ND	84	72	ND	-	15	
110			95-98' - increasing pebble-cobble component, decrease in clay.								
			98-104' - Sea-green clay balls with framework as above.								
			104-109' - Mafic tuff - dark green, fine-grained, well developed foliation.								

C. Rodighiero

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 2, 1981 HOLE # DO-81-42
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: 7+00N, 70+75E
 BIT NO.: _____ NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			0-10' - Bad return - minor clay.							
			10-44' Till - Clay balls; small pebbles. Polymictic, granular.							
10		1	20' - Silt and medium sand matrix. 25' - Limestone increases. Section becomes more clay-rich after 25'. Clay as balls both gritty and smooth.	Cu	Pb	Zn	Ni	Ag	Wt	Au
			38-43' - Clay bed clean, grey, smooth - as strings.	108	32	190	34	0.6	10	20
20		2	44-49' - Bedrock - Mafic volcanic - dark green, fine-grained, massive, minor epidote.	118	34	80	36	0.6	10	10
30		3		181	89	90	58	0.8	6.66	15
		4		98	53	99	34	0.9	3	35
40		REJECTED								
		5		268	13	38	16	0.3	3.5	55
		6		58	ND	44	20	ND	-	15
50				Sample 5 2 grains of v.g. 400µ 100µ both transported						

C. Rodin

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 2, 1981 HOLE # DO-81-43

SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: 7+00N, 73+75E

BIT NO.: _____ NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			0-10' - No sample.							
			10-20' - Till - Clay balls and pebbles.							
			20-28' - Sand bed - brown and coarse; granular. Grades into medium and coarse, few pebbles.							
10		1	28-75' - Till - Grey, gritty clay balls, few pebbles, limestone present. Framework 41%.	Cu	Pb	Zn	Ni	Ag	Wt	Au
			52' - Quartz cobble. Some fine sand in matrix.	74	52	120	20	0.4	3.5	115
20		2	Uniform till layer from 28-62'. Clay balls become less gritty after 64' - then about the same again at 68'.	73	25	170	25	0.4	6.5	115
			75-92' - Clay bed - Soft and smooth; as curds rejected.							
30		3	92-109' - Till - Fine sand matrix; primarily quartzitic. Pebbly sand.	132	52	102	34	0.8	5	10
			93' - Gravelly - mostly greenstone pebbles/granitoid. Minor limestone.							
40		4	97' - Mafic gneiss boulder - 6". Fine and medium sand plus silt matrix.	125	54	99	38	0.9	6	15
			98' - Boulder-granite.							
			99' - Clay balls up to 20%, gritty; limestone present.							
50		5	100' - Small boulder-granite.	192	52	112	38	0.9	4	110
			102' - Cobble limestone.							
			104' - Clay balls with greenstone sediment pebbles and cobbles. Also granitic pebbles and limestone.							
60		6	105' - Boulder-gabbro - 1'. Rejected.	124	40	99	34	0.9	6	165
			106' - Clay balls up to 10%. Greenstone sediments. Approximately half framework component is granitoid. Minor limestone.							
70		7		114	45	103	34	0.9	4.5	110
		8		138	49	146	40	0.8	4.5	110
		9		135	70	100	42	0.7	2.5	120
80		REJECTED								
90										
		10		102	16	36	34	ND	10	340
100		11		110	25	32	60	0.5	7	65

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 2, 1981 HOLE # DO-81-43
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: 7+00N, 73+75E
 BIT NO.: _____ NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			Cu	Pb	Zn	Ni	Ag	Wt	Au
109	12		425	26	52	65	0.5	6	35
	13		142	23	53	60	0.7	4	610
	REJECT	109-114' - Bedrock, Mafic volcanic							
	14	massive dark green, fine-grained soft chloritic.	145	46	55	70	0.7	5	50
110	15		94	ND	80	73	0.1	-	15
120									

C. Reding

WESTERN MINES LTD.

GEOLOGIST: C. Rockingham DATE: Feb. 2/81 HOLE # DO-81-44
 SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: Centre Line 7N @ Creek
7+00N 76+75E
 BIT NO.: _____ NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
0-10		Organic + clay. Very little return.							
10-20	1	<u>Cochrane Till</u> 85% clay balls, gritty, calcareous. 5% limestone pebbles. 10% granite + gneiss pebbles.	Cu	Pb	Zn	Ni	Ag	Wt	Au
			115	45	200	36	0.5	5	870
20-30	NS.	99% clay balls (about). 1% pebbles.							
30-40	2	70% medium-fine white sand. 20-30% clay balls. 10% pebbles. Pebbles 70:30 - granite: limestone.	125	52	199	38	0.7	2.35	L20
40-50	3	Minor local pebble content.	108	37	89	34	0.7	7	10
50-60	4	95% clay balls. 5% pebbles.	190	30	57	30	0.3	3.5	20
60-70	5	<u>Gravelly Till</u> 5-1% clay balls. 40% medium, white sand. 50% pebbles: 10-20% local volcanic 5% limestone	87	22	55	26	0.2	9	30
70-80	6	75% granitoid. Clay adheres to some pebbles.	128	23	73	24	0.3	8	195
80-90	7	60-70% local pebbles. Abundant sand in matrix. 1-15% clay balls.	97	19	37	34	0.3	7	20
90-100	8		38	10	21	20	0.2	10	230
100-110	9	<u>Bedrock - Mafic Volcanic</u> Dark-green, fine-grained, massive, slow-drilling. No sulfides or quartz veins.	69	10	13	18	0.2	8	30
110-120	10		110	ND	49	60	ND	-	L5

C. Rockingham

Hole No.	Page No.
DO-81-44	1 of 1

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 2, 1981 HOLE # DO-81-45
 SAMPLER: D. Lewis CLAIM GROUP: _____ PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: South of Line 7+00N
North side of Creek
300 m. SE of 44
 BIT NO.: 080115 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses									
		0-10' - Poor return - Minor clay, wood.										
		10-14' - Till - Gritty, grey clay balls; minor pebbles.										
10	1	14-21' - Gravel - Very granular with small pebbles. Coarse sand matrix. Polymictic with up to 5% limestone.	Cu	Pb	Zn	Ni	Ag	Wt	Au			
		19' - Small pink granite boulder.	120	92	170	55	1.4	10	.5			
20	2	20' - Very dark green and purplish black boulder plus cobbles of same. Ultramafic in appearance. Some sediment. Greenstone pebbles - slaty cleavage.	64	20	35	22	0.2	10	1.5			
30	3	21-43' - Till - Clay balls; minor black pebbles, quartzitic pebbles. Framework up to 20%. Fair return.	70	22	30	16	0.3	7	1.5			
40	4	28-36' - Light and medium grey clay balls. Medium grey balls tend to be more gritty - could be a varved clay or reworked till. Up to 10% greenstone pebbles.	43	19	30	15	ND	5	20			
50	5	40' - Fine to medium sand matrix, clay balls.	58	11	25	17	0.2	10	630			
60	6	43-55' - Gravel - Medium and coarse sand. About equal greenstone and granitoid rock units. Some limestone, clear and glassy quartz pebbles.	57	11	25	16	0.2	10	10			
70	7	54' - Increasing sand - medium. Clay balls, silt after 54' with less pebbles.										
80	8	55-90' - Till - Appears to have been reworked.	54	17	33	16	0.1	10	1.5			
90	9	62' - Clay balls; minor pebble. Limited recovery.										
	10	68-77' - Gravelly. Only minor sample from return. Typical pebble assemblage.	68	16	22	12	ND	3.25	1.15			
	11	77-90' - Grey clay balls - small with minor pebbles. Limited recovery.	84	12	45	24	0.1	5	1.10			
		90-95' - Bedrock - Mafic volcanic massive, dark green fine-grained, soft, chloritic no sulfides or carbonate.	315	18	49	68	0.5	3.4	1.15			
100			90	2	94	53	0.2	-	1.5			

C. Rodriguez

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 2, 1981 HOLE # DO-81-46
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: North side of Creek 600m. NW of Winter Road
 BIT NO.: 080115 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			0-10' - Good return - no sample							
			10-12' - Clean, grey, smooth clay. Rejected.							
10			12-20' - Till - Clay balls, up to 20% pebbles.							
		1	14-18' - Good return; no recovery. 18' - fine and medium sand and pebbles with clay balls.	Cu	Pb	Zn	Ni	Ag	Wt	Au
			20-45' - Gravel - Sandy; limestone present. Medium and coarse sand matrix. Granular. Matrix to framework 50:50.	95	45	86	34	0.8	7	L5
20		2	27' - Limestone cobble.	84	39	100	34	0.5	10	L5
			28-30' - Minor pebbles; clay balls. Clay gritty. Reworked material?							
30		3	30-32' - Clean, grey clay bed. Rejected.	105	20	80	36	0.4	9	10
			32' - Medium and coarse sand matrix. Granular and small pebble framework-polymictic. Increase in greenstone pebbles with depth.	165	22	50	48	0.4	10	15
40		4	45-78' - Till? - Clay balls; pebbles up to 25%. Mafic boulder at 45' - gabbroic, altered. Minor (up to 5%) silty clay balls after 50'. Section becomes more cobbly with depth. Gneissic rocks increase with depth. Limestone still prevalent.	118	17	35	32	0.3	9	10
50		5	60' - Minor silty clay balls; medium and coarse sand present.	98	14	31	30	0.1	10	70
		6	63' - Small granite boulder - rejected.	58	11	24	20	0.2	10	L5
60		7	65' - Gritty clay balls increase up to 25%. Minor pebbles.	84	15	34	24	0.2	10	15
		8	25% Minor Pebbles.							
70		9	78-83' - Bedrock - Quartz-eye gabbro (?) 1 mm blue white quartz eyes feldspathic matrix streaky mafic minerals 1-2% pyrite.	102	15	27	24	0.4	10	L5
		10		82	23	27	26	0.3	9	L5
		11		925	17	25	140	1.2	10	35
80		12		138	3	31	20	0.2	-	L5
90			<i>C. Rodring</i>							
100										

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 3, 1981 HOLE # DO-81-47
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: N. side of Creek
300m NW of Winter
Road at Creek.
 BIT NO.: 080115 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses								
			0-27' - No return									
10			27-38' - Clay 27-28' Clay balls, medium and fine sand; limited recovery.									
20			38'45' - Sand - Medium grained. Coarse granular framework. Pebbles come in at 42' - Polymictic limestone up to 10%.									
			44' - Clay balls, gritty - up to 10%.									
			45-56' - Till - Gritty clay balls >75%. Pebbles up to 10%.									
30		1	46-52' - Clay bed - rejected.									
			52' - Cobble mafic gneiss; fine sand and silt followed by another boulder at 54'.	Cu	Pb	Zn	Ni	Ag	Wt	Au		
				109	29	87	30	0.3	4.1	25		
40		2	56'- 89' - Gravel - Heavy in granitic pebbles. Some limestone. Medium and fine sand. Coarse sand as part of framework. Greenstones up to 20% tend to increase in depth.	125	53	125	42	1.0	5	110		
50		3	78' - Section becomes sandier - brown, medium as matrix.	95	14	37	28	0.2	10	15		
			89-94' - Bedrock - Mafic volcanic dark green, fine-grained massive, soft, chloritic quartz and carbonate ~5%.									
60		4		83	16	44	25	0.2	8	15		
70		5		85	17	58	30	0.2	10	15		
80		6		64	17	50	24	0.1	8	40		
90		7		138	29	90	48	0.1	9	40		
		8		290	22	50	60	0.5	2.9	55		
		9		58	ND	63	143	0.1	-	15		

C. Rodinger

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Feb. 3/81 HOLE # DE-81-48

SAMPLER: L. Nutter CLAIM GROUP: Detour Block PROV.: Ontario

CONTRACTOR/
DRILLER: D. Jodouin FIELD LOCATION: South E-W Line
BL. 82+75E

BIT NO.: 080108 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
	NS.	0-12' <u>Humus</u>							
	DO-81-48 1	12-20' <u>Sand and Gravel</u> Minor clay @12', assorted pebbles - greenstone, granite, minor limestone, medium to coarse sand matrix.	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ni</u>	<u>Ag</u>	<u>Wt</u>	<u>Au</u>
			139	27	68	38	0.4	9	L5
	DO-81-48 2	20-25' <u>Gravel</u> Coarse assorted pebbles. Predominantly Mafic Volcanic. No clay.	187	15	38	36	0.4	10	L5
	DO-81-48 3	25-35' 25-26' - mafic volcanic boulder. Minor limestone, granite, gneiss. 31' - brown quartzite sediment pebble. Very sandy matrix.	65	26	36	26	0.2	10	5
	DO-81-48 4	35-39' As above.	94	14	49	22	0.3	8	215
	DO-81-48 5	39-45' <u>Clay Till (Basal)</u> > 90% green clay till balls 1/2-2 mm size. Very few pebbles.	228	14	47	45	0.2	3.5	85
	DO-81-48 6	45-50' <u>Bedrock</u> Porphyritic Volcanic intermediate, dark-grey, massive matrix, very fine-grained. 5 mm pink feldspar, phenocrysts, euhedral, 10-15% mode.	24	ND	20	34	ND	-	L5

C. Robinson

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Feb. 3/81 HOLE # DO-81-49
 SAMPLER: L. Nutter CLAIM GROUP: Detour Block PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: South E-W Line
 BIT NO.: 080108 NTS: 32 E-13 BL 79+75E

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
0-8'	NS.	Humus							
8-20'	DO-81-49 1	Clay Till Cochrane Pebbly top rich in limestone chips. >90% clay till balls. 18-19' - green-grey clay bed	Cu 63	Pb 21	Zn 38	Ni 24	Ag 0.4	Wt 4	Au L10
20-30'	DO-81-49 2	Gravel Assorted pebbles - predominantly mafic volcanic - granite - gneiss - limestone. Abundant medium to coarse sand matrix. No clay.	90	17	43	28	0.3	10	20
30-40'	DO-81-49 3	Coarse mafic volcanic pebbles in very sandy matrix.	99	28	58	34	0.4	10	15
40-46'	DO-81-49 4	As above.	93	24	47	36	0.4	10	5
46-56'	DO-81-49 5	46' - abundant pink granite chips. Sandy gravel. 52' - few scattered clay balls, abundant granite pebbles, 10-15% limestone.	100	21	48	27	0.4	10	55
56-61'	DO-81-49 6	Very sandy gravel with assorted pebbles.	100	23	39	50	0.4	5	50

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Feb . 3/81 HOLE # DO-81-49
 SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 Block
 CONTRACTOR/
 DRILLER: D. Jodouin FIELD
 LOCATION: South Block E-W Line
 B.L. 79+75E
 BIT NO.: 080108 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			Cu	Pb	Zn	Ni	Ag	Wt	Au
	DO-81-49 7	61-69' <u>Pebble - Clay</u> Till - Basal 50-60% pink granite, biotite gneiss pebbles, 10% lime- stone. 40% 5 mm clay till balls.	148	27	45	40	0.4	10	110
	DO-81-49 8	69.5-74' <u>Bedrock</u> Basalt flow, very fine- grained, massive, not tuf- faceous or schistose. 5% quartz veining with fine pyrite dusting.	1400	50	115	160	1.4	10	30

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Feb. 4/81 HOLE # DO-81-50
 SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 BLOCK
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: South E-W Line; Detour Block
 B.L. 76+70E
 BIT NO.: 080108 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
	NS.	1-5' Humus - no return.							
	DO-81-50 1	5-25' <u>Cochrane Clay Till</u> Grey c/lay top. 40-50% clay till balls. <5% pebbles - abundant limestone & granite chips. 8 to 23' - no return.	Cu 132	Pb 47	Zn 180	Ni 30	Ag 0.4	Wt -	Au I.S.
	DO-81-50 2	25-35' Clay till & gravel Very limited return. Pebble-rich, abundant limestone, gneiss & local volcanic + sediment 33-34' - grey clay bed.	96	35	50	28	0.4	4	110
	DO-81-50 3	35-45' Clay till, limited return. Abundant 5 mm clay balls. Assorted pebble component. Mixed foreign - limestone + granite and local volcanic + sediment pebbles.	94	13	34	30	1.3	2	L25
	DO-81-50 4	45-50' Abundant 5 mm mafic volcanic pebbles mixed with small clay till balls.	125	16	42	40	0.3	7	10
	DO-81-50 5	50-60' Clay till. 50-51' - mafic basalt boulder. 75-80% clay till balls. 10-25% mafic volcanic pebbles <5 mm size, rare limestone + granite + quartz.	196	18	40	50	0.3	5	65
	DO-81-50 6	60-65' 75-90% clay till balls. 60-62' - 25% mafic volcanic pebbles. Scattered limestone, + gneiss.	290	13	34	40	0.4	3.5	400

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 4, 1981 HOLE # DO-81-51

SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: B.L. 73+70E

BIT NO.: _____ NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses													
			0-8' - Humus														
10		1	8-14' - Clay Till - Pebbly. 40 - 50% clay till balls; 50% pebbles assorted. Predominantly mafic volcanic with limestone and granite gneiss. Very sandy matrix.	Cu	Pb	Zn	Ni	Ag	Wt	Au	106	55	90	34	0.6	1.5	L50
		2	14-67' - Clay till - 80% 5 mm size clay till balls; <70% pebbles. Assorted.	124	42	88	36	0.7	6	135							
20		3	20-22' - Clay balls up to 75%. Limestone cobble; cobble altered reddish-brown granitic rock. Minor granitoid (granular) and greenstone pebbles.	84	30	80	30	0.6	8	50							
30		4	34-36' - Clay bed - minor pebbles.	98	35	90	35	0.6	6	10							
		5	36' - Greenstone pebble increasing up to 10%. Clay balls (gritty) matrix. Framework tends to be granular.	118	44	152	40	1.0	2.5	L20							
40		6	50' - ~5% framework only. Gritty clay balls predominate. Limestone prevalent throughout the section.	116	55	112	45	0.9	2	L25							
50		7	60-67' - Clean, grey clay - smooth as knots and ropes - rejected.	118	43	132	40	0.9	2.5	1380							
		8	67-72' - Bedrock - Basalt - up to 1-2% calcite, massive, fine-grained, dark green, soft.	119	50	120	40	0.9	2.5	60							
60		9		136	55	100	I.S.	1.0	3	45							
		REJECTED															
70		10		72	ND	95	26	0.2	-	10							
80																	

C. Rodin

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 4, 1981 HOLE # DO-81-52

SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: B.L. 70+50E

BIT NO.: _____ NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
		0-12' - Wood, minor clay - Fine return - rejected.							
		12-22' - Till - Return off and on - poor recovery.							
10	1	22-24' - Grey clay balls, <5% granular mafic and granitoid material.							
		24-32' - Smooth grey clay bed - rejected.	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ni</u>	<u>Ag</u>	<u>Wt</u>	<u>Au</u>
20		32-39' - Gravel - Polymictic, medium and coarse sand matrix. Quite uniform granular pebble framework - 50% greenstone/50% granite-gneiss. Limestone present in minor amounts. Sand matrix up to 35 - 40% by volume. Primarily quartz.	87	33	98	65	0.8	5	110
30	REJECTED								
	2	39-43' - Bedrock - Basalt - massive, dark green fine-grained, soft, minor epidote patches.	270	23	55	55	0.9	5	6190
40	3		112	ND	50	72	ND	-	5
50									
60									
70									

C. Rodin

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 4, 1981 HOLE # DO-81-52
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: B.L. 70+50E
 BIT NO.: _____ NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
		0-12' - Wood, minor clay - Fine return - rejected.							
		12-22' - Till - Return off and on - poor recovery.							
10	1	22-24' - Grey clay balls, <5% granular mafic and granitoid material.							
		24-32' - Smooth grey clay bed - rejected.	Cu	Pb	Zn	Ni	Ag	Wt	Au
20			87	33	98	65	0.8	5	110
	REJECTED	32-39' - Gravel - Polymictic, medium and coarse sand matrix. Quite uniform granular pebble framework - 50% greenstone/50% granite-gneiss. Limestone present in minor amounts. Sand matrix up to 35 - 40% by volume. Primarily quartz.							
30	2	39-43' - Bedrock - Basalt - massive, dark green fine-grained, soft, minor epidote patches.	270	23	55	55	0.9	5	6190
40	3		112	ND	50	72	ND	-	5
50		<i>C. Rodring</i>							
60									
70									

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 5, 1981. HOLE # DO-81-53
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: B.L. 67+40E
 BIT NO.: _____ NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			0-10' - Organics - Good return - Rotted wood balls.							
10			10-97' - Till - Clay balls up to 75% - pebbles polymictic up to 25%							
		1	20' - clay bed - thin, smooth, grey.	Cu	Pb	Zn	Ni	Ag	Wt	Au
			22' - limestone cobble.	110	25	70	25	0.4	1	L50
20			28' - Clay balls and fine sand up to 20% by volume.							
		2	36' - Clay balls up to 95% - gritty. Silt disappears. Minor greenstone pebbles.	92	30	90	50	0.6	8	5
			41' - Limestone boulder - large.							
30		3	52-58' - Clay bed - clean, smooth grey clay - as ropes. Rejected.	126	35	100	37	0.7	10	5
			58' - Fine and medium sand matrix. Polymictic pebbles - high granitoid content. No clay balls. 40% greenstone/30%, Granite/25%, Gneiss/5% Limestone.							
40		4	66' - Minor clay coatings on greenstone pebbles.	108	33	85	32	0.6	6	5
			68' - Mafic granite boulder - biotite/hornblende.							
50		5	70' - Clay balls, gritty. Pebbles up to 50% - mainly greenstone. Minor limestone.	148	120	93	55	2.4	3.5	L15
			74' - Pink granite cobble; clay ball matrix. Clay balls and greenstone framework become smaller in size after 74 feet - possibly due to hardness as a function of compactness.							
60		REJECTED	76-77' - Silt and fine sand matrix. Predominantly gneissic cobbles.							
		6	77-78' - Small greenstone pebbles up to 1 cm. - in clay.	114	20	65	55	0.6	10	335
			79' - Cobble granite gneiss, cobble greenstone along with clay balls.	93	15	95	49	0.6	10	25
70		7	79-80' - Large granite boulder - rejected.							
		8	80' - Clay balls up to 90%. Grey and gritty. Some small granitoid pebbles. Minor limestone. Greenstone sedimentary pebbles up to 5 - 10% - small.	106	18	50	33	0.5	10	55
		9	87' - Cobble - olive-green, fine-grained, felsic.	112	25	40	80	0.3	5	L10
80		10	88' - Increase in sedimentary cobbles and pebbles up to 50-75% by volume - all green. Clay balls up to 25%. Silt in matrix.	154	25	55	60	0.4	5	25
		11	90' - Minor limestone.	134	20	68	60	0.4	4	40
90		12	95' - Greenstone volcanic cobbles prevalent.	126	18	44	60	0.3	6	2170
		13	96' - Greenstone sedimentary cobbles - shearing distinctive.	330	22	62	90	0.6	3.5	1585
100		14	97 - 102' - Bedrock - Basalt	54	2	52	82	ND	-	5
			10% white calcite in veins with quartz - massive, dark green, fine-grained.							
			102' - End of hole							

C. Kozlowski

Hole No.	Page No.
DO-81-53	1051

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 5, 1981. HOLE # DO-81-54
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: B.L. 64+35E
 BIT NO.: _____ NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
		0-8' - <u>No Return</u> 8-12' - <u>Clay Bed</u> - clean, grey.							
10		12-36' - <u>Till</u> - Clay balls, very minor pebble component. Thin pebble layer at 14'. 22' - Thin granular pebble layer with clay balls.							
20	1	Pebbles average 5-10% up to 25%. Minor limestone. Apparently more granitic types than greenstone.	Cu	Pb	Zn	Ni	Ag	Wt	Au
		31' - greenstone sediment cobble. More pebble coming into section - especially greenstone. Some fine sand and tilt in matrix.	198	45	225	50	0.5	-	I.S.
30	2	32' - Small pink granite boulder. 34' - Granular with limestone. After 30' - Decreasing clay as balls increasing silt and fine sand.	108	70	105	45	0.8	7	15
40	3	36 - 46' - <u>Gravel till</u> - Very minor clay balls. Fine sand matrix poly-mictic.	120	33	98	35	0.6	8	30
	4	38' - Limestone up to 20% about equal proportion granitoid to greenstone. Some pebbles grey felsic extrusive at 42'.	118	35	90	35	0.8	8	5
50	5	44' - Minor clay coatings on greenstone pebbles.	98	35	108	34	0.8	7	15
	6	46 - 61' - <u>Till</u> Clay balls up to 50%. Limestone present.	124	57	125	40	0.8	4	625
60	REJECTED	52' - Clay curds - gritty. Very minor granular framework - rejected. 54-60' - Clay bed - smooth and clean. 60' - Clay balls and greenstone cobbles.							
	7	61-66' - <u>Bedrock</u> - Basalt with minor quartz veins. Very fine-grained. Massive; hard. Dark green, very chloritic.	240	15	60	70	0.5	1.5	150
70		66' - End of Hole.	65	2	26	88	ND	-	5

C. Rodin

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Feb. 5/81 HOLE # DO-81-55
 SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: 200 m south of 54
 BIT NO.: _____ NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
	NS.	0-5' <u>Humus</u>							
	DO-81-55 1	5-10' <u>Gravel</u> Grey massive clay top. Very sandy matrix. >50% pebbles - abundant lime-stone, sediment & green volcanic.	<u>Cu</u> 81	<u>Pb</u> 13	<u>Zn</u> 23	<u>Ni</u> 20	<u>Ag</u> 0.2	<u>Wt</u> 6	<u>Au</u> 15
	DO-81-55 2	10-13' 10-11' - grey clay bed. <5% clay till balls. 11' - green mafic volcanic cobble. 13' - pink granite cobble. Predominantly sand matrix Assorted pebbles.	300	12	50	50	0.3	10	10
	DO-81-55 3	13-16' <u>Basalt - bedrock</u> Massive. Very fine-grained. Very minor quartz veins. Chloritized.	62	ND	35	37	0.2	-	50

C. Robinson

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Feb. 5/81 HOLE # DO-81-56
 SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/
 DRILLER: D. Jodouin FIELD LOCATION: 300 m West of 54; Southern E-W Line
 BIT NO.: 080109 NTS: 32 E-13
 B.L. 60+25E

Log (inches)	Sample No.	Overburden Description	Notes & Analyses									
			Cu	Pb	Zn	Ni	Ag	Wt	Au			
0-6	NS.	Humus - swamp.										
6-13'	DO-81-56 1	Clay Till Few scattered pebbles. 50-60% clay till balls. Pebbles, - limestone, quartz, mafic volcanic.	80	13	28	20	0.3	1	15			
13-14'	DO-81-56 2	Bedrock - Basalt Very fine -grained. Massive, chloritic. Minor quartz veins. Near 300 change holes.	47	ND	25	64	0.1	-	5			

C. Jodouin

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Feb. 5/81 HOLE # DO-81-57
 SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: South E-W Line
B.L. 57+25E
 BIT NO.: 080109 NTS: 32 E-13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
	NS.	0-4' <u>Humus</u>							
	DO-81-57 1	4-14' <u>Cochrane Pebble-Clay Till</u> 4-8' - pebble-clay till to gravel. 10% clay till balls. 9' - green-grey clay bed. 10' - no clay till balls - sandy gravel. Pebbles with mafic volcanic + abundant limestone.	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ni</u>	<u>Ag</u>	<u>Wt</u>	<u>Au</u>
			60	20	142	30	0.4	3	95
	NS.	14-31' <u>Clay</u> Grey, massive, very soft. Ropy return.							
	DO-81-57 2	31-38' <u>Pebbly-Clay Till</u> 25% clay till balls. Abundant pebbles - 75% mafic volcanic. Minor limestone, 25% gneiss + very sandy matrix.	96	20	72	50	0.5	10	35
	DO-81-57 3	38-44' 50-60% assorted pebbles - mafic volcanic, pink granite, biotite gneiss, limestone. Very sandy → gravelly.	88	14	34	25	0.3	9	5
	DO-81-57 4	44-50' Biotite gneiss cobble @46'. 40-50% pebbles - mafic volcanic, 25% granite, gneiss, quartz, minor limestone. Abundant clay till.	88	18	38	27	0.4	10	70
	DO-81-57 5	50-56' Biotite gneiss boulder. Abundant clay-coated pebbles. Very sandy matrix.	I.S.	I.S.	I.S.	I.S.	I.S.	9	10

WESTERN MINES LTD.

GEOLOGIST: D. Robinson DATE: Feb. 5/81 HOLE # DO-81-57
 SAMPLER: L. Nutter CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: D. Jodouin FIELD LOCATION: South E-W Line
B.L. 57+25E
 BIT NO.: 080109 NTS: 32 E-13

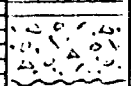

Log (inches)	Sample No.	Overburden Description	Notes & Analyses						
			Cu	Pb	Zn	Ni	Ag	Wt	Au
	DO-81-57 6	56-62' <u>Clay Till</u> Decrease in pebble content. 50-75% clay till balls. Very sandy matrix. 62' - biotite-feldspar, granite boulder.	82	16	33	25	0.4	8	45
	DO-81-57 7	62-66' <u>Pebble-Clay Till (local)</u> 40% pebbles - predominantly local mafic volcanic - 1-2 cm size, lesser granite, gneiss, sediment, limestone. 64' - mafic volcanic boulder. 66' - mafic volcanic boulder.	114	30	42	30	0.4	8	Cl5000
	DO-81-57 8	66-72' 67-70' - Quartz - biotite - granite boulder. Abundant pebbles predominantly mafic volcanic, lesser pink granite. 72' - 10% white quartz chips.	134	22	34	70	0.8	9	365
	DO-81-57 9	72-78' <u>Local till.</u> 73' - 10-15% limestone chips. Pink intermediate intrusive pebbles - granite 20%. Predominantly local mafic volcanic pebbles + green clay till balls.	134	14	40	60	0.4	10	165
	DO-81-57 10	78-81' As above.	140	18	36	65	0.4	5	110
	DO-81-57 11	81-86' <u>Bedrock - Mafic Volcanic</u> Grey-green, very fine-grained, massive to tuffaceous. Minor quartz veins.	92	22	230	70	0.2	-	5

C. Jodouin

Hole No.	Page No.
DO-81-57	2 of 2

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 5, 1981. HOLE # DO-81-58
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/
 DRILLER: G. Gagne FIELD LOCATION: B.L. 54+25E
 BIT NO.: 080109 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses								
				Cu	Pb	Zn	Ni	Ag	Wt	Au		
			0-3' - Humus									
		1	3-10' - Clay. Grey, ropey and soft	200	150	110	68	0.7	7	20		
10		2	10-14' - Pebble-Clay-Till - Cochrane 50% Clay; assorted pebbles 41 cm. size. Limestone, gneiss, etc.	96	2	39	68	0.2	-	5		
20		3	14' - Increase in pebbles - 90% local basalt.									
			14.5' - Bedrock - Basalt - Dark green, massive, very fine grained.									
			16-17' - sulphide chips with quartz prominent.									
30			18-20' - Medium to dark grey return colour could be due to sulphide content of bedrock.									
			20' - End of Hole.									

C. Rodin

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 5, 1981 HOLE # DO-81-59

SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario

CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: 300m. NW of DO-81-58

BIT NO.: 080109 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses							
			0-6' - Wood rot and brown clay.								
10		1	6-18' Till - Tan brown clay and limestone cobbles. Minor granitoid Clay balls up to 75%.	Cu 66	Pb 30	Zn 50	Ni 40	Ag 0.4	Wt 6	Au 270	
		2	12' - Grey clay balls up to 90%. Increase in granitoid, less limestone, minor greenstone (pebbles).	107	27	75	45	0.8	4	45	
20		3	18-23' - Bedrock - Basalt 5% carbonate. Moderate clay alteration. No visible sulphide. Dark green, fine-grained, massive. 23' - End of hole.	104	ND	54	31	0.1	-	5	
30											

C. Rodin

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 5, 1981 HOLE # DO-81-60
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: Winter Road at Creek North of Camp
 BIT NO.: 080113 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses								
			0-10' - No return									
10		1	10-31' - Till - 10-11' - Clean grey clay knots. Clay balls; up to 40% polymictic pebbles including limestone. 17' - Narrow clay bed. 18' - Minor greenstone pebbles only with gritty clay balls. 18' - Granite-gneiss boulder - rejected.	Cu	Pb	Zn	Ni	Ag	Wt	Au		
				150	47	280	50	0.9	6	180		
20		REJECTED	19-26' - Clay bed - clean, grey and smooth - rejected. 26-31' - Good return, no recovery. 31-34' - Gravel - Medium and coarse sand matrix pebbles. Limestone up to 10%. High in granitoids. About 25% grey felsic rock, fine-grained.									
30		2	34-36' - Till - Clay balls - gritty, up to 25%. Granitic cobbles. 3:1 granitoids/greenstones. Limestone up to 5%. Granitic types tend to be smaller in size, more granular than greenstone component.	94	34	73	33	0.6	9	210		
		3		144	27	68	30	0.6	5	L10		
		4		21	17	22	10	0.2	8	15		
40		5	36-48' Gravel - Limestone rich. Medium and coarse sand matrix.	48	16	27	13	0.4	5	L10		
		6	37-38' - Extremely granular.	145	150	90	60	3.2	8	20		
50		7	37-38' - Coarse sand matrix. Granular and small pebble framework. Polymictic but mainly granitoid. 40' - Matrix > framework by 2:1.	112	50	80	35	1.0	7	30		
		8	41-43' - Bed of brown, medium sand; some coarse sand - all granitic. 43' - Greenstone pebbles minor.	88	28	78	30	0.4	7	40		
60		9	43' - Greenstone pebbles minor. Primarily mafic gneiss cobbles and pebbles. Medium and coarse sand matrix. Limestone present.	116	42	90	35	0.6	4	L10		
		10	47' - Greenstone pebbles tend to be more abundant. Limestone prevalent - up to 10% 48' - Minor clay balls followed by a mafic gneiss (light green cobble).	128	42	85	33	0.6	4	L10		
70		11	48-77' - Till - Clay balls up to 50% Greenstone cobbles up to 50% ± granitoid pebbles. After 50' clay balls increase >75% by volume.	142	47	90	36	0.8	6	5		
80		REJECTED	Limestone still present. 54' - Almost no granitic component; approximately 5% greenstone pebble. 58' - Limestone cobble - only greenstone pebbles about 5% at this depth along with clay balls.	112	20	62	25	0.4	9	160		
		12	77-84' - Clay bed - grey and smooth as ropes.	112	20	62	25	0.4	9	160		
90		13	84-134' - Sandy Till - Boulders prevalent. 84' - Pebble layer followed by poor recovery on silt.	118	14	52	30	0.2	10	10		
100												

WESTERN MINES LTD.

GEOLOGIST: G. Thomas DATE: February 5, 1981. HOLE # DO-81-60
 SAMPLER: D. Lewis CLAIM GROUP: Detour PROV.: Ontario
 CONTRACTOR/ DRILLER: G. Gagne FIELD LOCATION: Winter Road at Creek North of Camp
 BIT NO.: 080113 NTS: 32 E-13

Feet	Log (inches)	Sample No.	Overburden Description	Notes & Analyses								
				Cu 240	Pb 18	Zn 60	Ni 40	Ag 0.4	Wt 9	Au 45		
		14	85-90' - Good return, silt only? - Limited sample.									
		15	90' - Gravel. Fine sand and silt matrix. Limestone up to 25%. Greenstone and granitic pebbles prevalent.	74	16	48	20	0.3	10	5		
110		16	91' - Boulder granite gneiss. Minor sand - silt matrix. Mainly pebble. 101' - Boulder - mafic granite gneiss. 104' - Fine sand and silt matrix. Granular framework 50:50 matrix/framework. Up to 25% small pebbles.	100	15	100	25	0.2	9	5		
120		17	110' - Minor clay and silt. Clay as balls with pebbles. Limestone prevalent.	78	18	105	25	0.5	10	5		
		18	115' - Granite-gneiss cobbles, limestone cobble. 118' - Medium sand matrix with pebbles. (Sandy Gravel).	176	13	35	65	0.7	8	G15000		
130		19	119' - Pink granite boulder - rejected. 122' - Fine and medium sand; granular framework.	18	11	24	14	0.2	3.5	455		
140	Gossan ?	20	124' - Medium and coarse sand and pebbles - predominantly greenstone (gravel). 126' - Pebbles - up to 25% gneissic and 50% greenstone by volume. 132' - Orange-yellow clay balls up to 20% with greenstone pebbles. 134'140' - <u>Bedrock</u> - orange-yellow iron stained clay after bedrock. Relict rock fragments up to 1 cm. in size at 136-140'. Crumbly, soft and friable, yellowish brown in colour. 140' - End of hole.	148	ND	55	112	0.1	-	35		
												Sample 14 1 grain v.g. 250µ transported

C. Rodolph

WESTERN MINES LTD.

GEOLOGIST: Don Robinson DATE: February 23, 1981. HOLE # DO-81-93
 SAMPLER: M. Mahaffy CLAIM GROUP: Detour Lake PROV.: Ontario
 CONTRACTOR/ DRILLER: Don Jodouin FIELD LOCATION: Gov't. BL: Old DO-81-6 site.
 BIT NO.: 080119 NTS: 32E13

Log (inches)	Sample No.	Overburden Description	Notes & Analyses
0		0-26' - <u>Humus</u> - no return.	No analyses for this hole as it is a repeat of hole Do-81-6
10	NS.		
20			
26			
26	1	26-40' - <u>Cochrane-Pebble-Clay till</u> 20-30% pebbles - polymictic 10% limestone, 10-20% clay till balls. fine-medium sand matrix.	
40	2	40-60' 20% pebbles volcanic plus sed. 40% clay till balls. fine silt matrix. poor return 40-54'.	
60	3	60-70' - <u>Pebbly till</u> 30-40% pebbles, 60% basalt sed. -clay till balls. -fine silt matrix.	
70	4	70-80' - <u>Cochrane Pebble-Clay till</u> 40% pebbles, 1 cm. size, 50% granite + gneiss, 50% basalt + sediment, 5% limestone. fine-silt-sand matrix. 5-10% clay till.	
80		80' - hole terminated. as a result of warm weather and the deterioration of the Winter Road.	

C. Robinson



32E13NE0006 2.4285 HOPPER LAKE

900

2.4285

September 13 1982

Mr. W. L. Good
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Mr. Good:

Re: Assaying submitted under Section 77(19) of the Mining Act RSO 1980, as on List "B"

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

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

Yours very truly,

E. F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Telephone: (416) 965-1316

/dj

Encl.

cc: Westmin Resources Limited
cc: Resident Geologist/Timmins, Ontario

Recorded Holder WESTMIN RESOURCES LIMITED
Township or Area Hopper Lake & Lower Detour Lake Areas

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Section 86(18) ⁷⁹⁽¹⁹⁾ See across _____ days Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	<p>\$217,529.04 spent on overburden drilling on the claims listed on List "B" (Attached).</p> <p>14502 assessment work days are allowed which may be grouped in accordance with Section 76(6) of the Mining Act RSO 1980.</p> <p>For Mining Recorder's use: The work assignment for each of the above listed 51 claims is 284 days per claim.</p>

Special credits under section 86 (15a) for the following mining claims

--

No credits have been allowed for the following mining claims

<input type="checkbox"/> not sufficiently covered by the survey <input type="checkbox"/> 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 86(18)-60:

LIST "B"

All the work was performed on the following Mining Claims:

<u>Drill Hole</u>	<u>Claim</u>
DO-81-01	P553334*
-02	P553327✓
-03	P553312✓
-04	P553327
-05	P553332
-06	P553332✓
-07	P553552*
-08	P553477*
-09	P575672 *
-10	P553475 *
-11	P553308*
-12	P553306*
-13	P553546 *
-14	P553547*
-15	P553533 *
-16	P553531*
-17	P553511 *
-18	P553506 *
-19	P553448
-20	P553446 *
-21	P553444 *
-22	P553405

19

Drill Hole

Claim

DO-81 -23	P553405 •
-24	P553370 •
-25	P553370
-26	P549927 •
-27	P553365 •
-28	P553374 •
-29	P553402 •
-30	P553419 •
-31	P553441 •
-32	P553452 •
-33	P553453 •
-34	P553503 •
-35	P553515 •
-36	P553515
-37	P553523 •
-38	P553536 •
-39	P553543 •
-40	P553556
-41	P553556 •
-42	P553303 •
-43	P553316 •
-44	P553323 •
-45	P553323
-46	P553336 •
-47	P553342 •
-48	P553338 •
-49	P553321
-50	P553321 •

23

Drill Hole

Claim

DO-81-51	P553318 *
-52	P553561 *
-53	P553558 *
-54	P553558
-55	P553558
-56	P553541 *
-57	P553538 *
-58	P553521 *
-59	P553461 *
-60	P553467 *
-93	P553332 *

9.

51 claim

2.4285

L.D.

Mining Lands Comments

To: Geophysics

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Geology - Expenditures

Mr. Kustka

Comments

Approved

Wish to see again with corrections

Date

Mar 8/82

Signature

Kustka

To: Geochemistry

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)



Ontario

P.S. 49918

RECEIVED

Ministry of Natural Resources

Notification of recording of assessment work credits

NOV 2 01981

MINING LANDS SECTION

Lands Administration Branch
Mining Lands Section
Ministry of Natural Resources
Room 1617, Whitney Block
Queen's Park, Toronto
M7A 1W3

Date of recording of work: November 16, 1981.

Recorded holder: Westmin Resources Limited

390 Bay Street

Address: Suite 1414, Toronto, Ontario M5H 2Y2

Township or Area: HOPPER LAKE & LOWER DETOUR LAKE AREAS

Table with 2 columns: Type of survey and number of Assessment days credit per claim, Mining claims. Includes rows for Geophysical (Electromagnetic, Magnetometer, Radiometric, Induced polarization, Section 77 19 (18) 46.48), Geological, Geochemical, and checkboxes for Man days, Airborne, Special provision, Ground.

Notice to recorded holder:

[X] Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.

[] Reports and maps are being forwarded to the Lands Administration Branch with this letter.

Handwritten signature and 'Mining recorder' stamp.

List "A"

<u>Claim No.</u>	<u>Days</u>	<u>Claim No.</u>	<u>Days</u>
1. P.549918	46.48	31. P.553319	46.48
2. P.549919	46.48	32. P.553320	46.48
3. P.549920	46.48	33. P.553321	46.48
4. P.549921	46.48	34. P.553322	46.48
5. P.549922	46.48	35. P.553323	46.48
6. P.549923	46.48	36. P.553324	46.48
7. P.549924	46.48	37. P.553325	46.48
8. P.549925	46.48	38. P.553326	46.48
9. P.549926	46.48	39. P.553327	46.48
10. P.549927	46.48	40. P.553328	46.48
11. P.549928	46.48	41. P.553329	46.48
12. P.549929	46.48	42. P.553330	46.48
13. P.549930	46.48	43. P.553331	46.48
14. P.549931	46.48	44. P.553332	46.48
15. P.553303	46.48	45. P.553333	46.48
16. P.553304	46.48	46. P.553334	46.48
17. P.553305	46.48	47. P.553335	46.48
18. P.553306	46.48	48. P.553336	46.48
19. P.553307	46.48	49. P.553337	46.48
20. P.553308	46.48	50. P.553338	46.48
21. P.553309	46.48	51. P.553339	46.48
22. P.553310	46.48	52. P.553340	46.48
23. P.553311	46.48	53. P.553341	46.48
24. P.553312	46.48	54. P.553342	46.48
25. P.553313	46.48	55. P.553343	46.48
26. P.553314	46.48	56. P.553344	46.48
27. P.553315	46.48	57. P.553345	46.48
28. P.553316	46.48	58. P.553346	46.48
29. P.553317	46.48	59. P.553347	46.48
30. P.553318	46.48	60. P.553348	46.48

<u>Claim No.</u>	<u>Days</u>	<u>Claim No.</u>	<u>Days</u>
61. P.553349	46.48	91. P.553379	46.48
62. P.553350	46.48	92. P.553380	46.48
63. P.553351	46.48	93. P.553381	46.48
64. P.553352	46.48	94. P.553382	46.48
65. P.553353	46.48	95. P.553383	46.48
66. P.553354	46.48	96. P.553384	46.48
67. P.553355	46.48	97. P.553385	46.48
68. P.553356	46.48	98. P.553386	46.48
69. P.553357	46.48	99. P.553387	46.48
70. P.553358	46.48	100. P.553388	46.48
71. P.553359	46.48	101. P.553389	46.48
72. P.553360	46.48	102. P.553390	46.48
73. P.553361	46.48	103. P.553391	46.48
74. P.553362	46.48	104. P.553392	46.48
75. P.553363	46.48	105. P.553393	46.48
76. P.553364	46.48	106. P.553394	46.48
77. P.553365	46.48	107. P.553395	46.48
78. P.553366	46.48	108. P.553396	46.48
79. P.553367	46.48	109. P.553397	46.48
80. P.553368	46.48	110. P.553398	46.48
81. P.553369	46.48	111. P.553399	46.48
82. P.553370	46.48	112. P.553400	46.48
83. P.553371	46.48	113. P.553401	46.48
84. P.553372	46.48	114. P.553402	46.48
85. P.553373	46.48	115. P.553403	46.48
86. P.553374	46.48	116. P.553404	46.48
87. P.553375	46.48	117. P.553405	46.48
88. P.553376	46.48	118. P.553406	46.48
89. P.553377	46.48	119. P.553407	46.48
90. P.553378	46.48	120. P.553408	46.48

<u>Claim No.</u>	<u>Days</u>	<u>Claim No.</u>	<u>Days</u>
121. P.553409	46.48	151. P.553439	46.48
122. P.553410	46.48	152. P.553440	46.48
123. P.553411	46.48	153. P.553441	46.48
124. P.553412	46.48	154. P.553442	46.48
125. P.553413	46.48	155. P.553443	46.48
126. P.553414	46.48	156. P.553444	46.48
127. P.553415	46.48	157. P.553445	46.48
128. P.553416	46.48	158. P.553446	46.48
129. P.553417	46.48	159. P.553447	46.48
130. P.553418	46.48	160. P.553448	46.48
131. P.553419	46.48	161. P.553449	46.48
132. P.553420	46.48	162. P.553450	46.48
133. P.553421	46.48	163. P.553451	46.48
134. P.553422	46.48	164. P.553452	46.48
135. P.553423	46.48	165. P.553453	46.48
136. P.553424	46.48	166. P.553454	46.48
137. P.553425	46.48	167. P.553455	46.48
138. P.553426	46.48	168. P.553456	46.48
139. P.553427	46.48	169. P.553457	46.48
140. P.553428	46.48	170. P.553458	46.48
141. P.553429	46.48	171. P.553459	46.48
142. P.553430	46.48	172. P.553460	46.48
143. P.553431	46.48	173. P.553461	46.48
144. P.553432	46.48	174. P.553462	46.48
145. P.553433	46.48	175. P.553463	46.48
146. P.553434	46.48	176. P.553464	46.48
147. P.553435	46.48	177. P.553465	46.48
148. P.553436	46.48	178. P.553466	46.48
149. P.553437	46.48	179. P.553467	46.48
150. P.553438	46.48	180. P.553468	46.48

<u>Claim No.</u>	<u>Days</u>	<u>Claim No.</u>	<u>Days</u>
181. P.553469	46.48	211. P.553518	46.48
182. P.553470	46.48	212. P.553519	46.48
183. P.553471	46.48	213. P.553520	46.48
184. P.553472	46.48	214. P.553521	46.48
185. P.553473	46.48	215. P.553522	46.48
186. P.553474	46.48	216. P.553523	46.48
187. P.553475	46.48	217. P.553524	46.48
188. P.553476	46.48	218. P.553525	46.48
189. P.553477	46.48	219. P.553526	46.48
190. P.553478	46.48	220. P.553527	46.48
191. P.553479	46.48	221. P.553528	46.48
192. P.553480	46.48	222. P.553529	46.48
193. P.553481	46.48	223. P.553530	46.48
194. P.553482	46.48	224. P.553531	46.48
<u>195. P.553483</u>	46.48	225. P.553532	46.48
196. P.553503	46.48	226. P.553533	46.48
197. P.553504	46.48	227. P.553534	46.48
198. P.553505	46.48	228. P.553535	46.48
199. P.553506	46.48	229. P.553536	46.48
200. P.553507	46.48	230. P.553537	46.48
201. P.553508	46.48	231. P.553538	46.48
202. P.553509	46.48	232. P.553539	46.48
203. P.553510	46.48	233. P.553540	46.48
204. P.553511	46.48	234. P.553541	46.48
205. P.553512	46.48	235. P.553542	46.48
206. P.553513	46.48	236. P.553543	46.48
207. P.553514	46.48	237. P.553544	46.48
208. P.553515	46.48	238. P.553545	46.48
209. P.553516	46.48	239. P.553546	46.48
210. P.553517	46.48	240. P.553547	46.48

<u>Claim No.</u>	<u>Days</u>	<u>Claim No.</u>	<u>Days</u>
241. P.553548	46.48	271. P.577754	46.48
242. P.553549	46.48	272. P.577755	46.48
243. P.553550	46.48	273. P.577756	46.48
244. P.553551	46.48	274. P.577757	46.48
245. P.553552	46.48	275. P.577758	46.48
246. P.553553	46.48	276. P.577759	46.48
247. P.553554	46.48	277. P.577760	46.48
248. P.553555	46.48	278. P.577761	46.48
249. P.553556	46.48	279. P.577762	46.49
250. P.553557	46.48	280. P.577763	46.48
251. P.553558	46.48	281. P.577764	46.48
252. P.553559	46.48	282. P.577765	46.48
253. P.553560	46.48	283. P.577766	46.48
254. P.553561	46.48	284. P.577767	46.48
255. P.553562	46.48	285. P.577768	46.48
256. P.553563	46.48	286. P.577769	46.48
257. P.553564	46.48	287. P.577770	46.48
258. P.553565	46.48	288. P.577771	46.48
259. P.553566	46.48	289. P.577772	46.48
260. P.553567	46.48	290. P.577773	46.48
261. P.553568	46.48	<u>291. P.577774</u>	46.48
262. P.553569	46.48	292. P.577792	46.48
263. P.553570	46.48	293. P.577793	46.48
264. P.553571	46.48	294. P.577794	46.48
265. P.553572	46.48	295. P.577795	46.48
266. P.553573	46.48	296. P.577796	46.48
<u>267. P.553574</u>	46.48	297. P.577797	46.48
268. P.577751	46.48	298. P.577798	46.48
269. P.577752	46.48	299. P.577799	46.48
270. P.577753	46.48	300. P.577800	46.48

<u>Claim No.</u>	<u>Days</u>
301. P.577801	46.48
302. P.577802	46.48
303. P.577803	46.48
304. P.577804	46.48
305. P.577805	46.48
306. P.577806	46.48
307. P.577807	46.48
308. P.577808	46.48
309. P.577809	46.48
<u>310. P.577810</u>	46.48
311. P.575672	46.48
312. P.575673	46.48

1981 11 17

2.4285

Mining Recorder's Office
Ministry of Natural Resources
60 Wilson Avenue,
Timmins, Ontario
P4N 2S7

Dear Sir;

We have received data for Overburden Drilling submitted on mining claims P 553334 et al in the Areas of ~~Detour~~Detour and Hopper Lake.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone 416/965-1380

J. Skura

cc: Westmin Resources Limited
Toronto, Ontario



WESTMIN RESOURCES LIMITED
(formerly Western Mines Limited)

EASTERN CANADA EXPLORATION OFFICE
SUITE 1414
390 BAY STREET
TORONTO, ONTARIO, CANADA M5H 2Y2
TELEPHONE: (416) 364-8116
TELEX: 06-22072

November 12, 1981

Lands Admin. Branch,
Ministry of Natural Resources,
Whitney Block, Room 6450,
Queen's Park,
Toronto, Ontario.
M7A 1X1.

RECEIVED

NOV 16 1981

MINING LANDS SECTION

Dear Sirs:

Re: Assessment Report Overburden Drilling Lower
Detour Area and Hopper Lake Area

Please find in duplicate a Report on Overburden Drilling,
Lower Detour Area and Hopper Lake Area, by C. Rockingham.
A form "Report of Work" has been forwarded to the Mining
Recorder Office in Timmins.

Thank you, and I hope you will find everything in order.

Yours truly,

WESTMIN RESOURCES LIMITED

(Mrs.) S. Kuprejanov,
Administrative Geologist.

SK/hmc
Encl.

List "A"

<u>Claim No.</u>	<u>Days</u>	<u>Claim No.</u>	<u>Days</u>
1. P.549918	46.48	31. P.553319	46.48
2. P.549919	46.48	32. P.553320	46.48
3. P.549920	46.48	33. P.553321	46.48
4. P.549921	46.48	34. P.553322	46.48
5. P.549922	46.48	35. P.553323	46.48
6. P.549923	46.48	36. P.553324	46.48
7. P.549924	46.48	37. P.553325	46.48
8. P.549925	46.48	38. P.553326	46.48
9. P.549926	46.48	39. P.553327	46.48
10. P.549927	46.48	40. P.553328	46.48
11. P.549928	46.48	41. P.553329	46.48
12. P.549929	46.48	42. P.553330	46.48
13. P.549930	46.48	43. P.553331	46.48
<u>14. P.549931</u>	46.48	44. P.553332	46.48
15. P.553303	46.48	45. P.553333	46.48
16. P.553304	46.48	46. P.553334	46.48
17. P.553305	46.48	47. P.553335	46.48
18. P.553306	46.48	48. P.553336	46.48
19. P.553307	46.48	49. P.553337	46.48
20. P.553308	46.48	50. P.553338	46.48
21. P.553309	46.48	51. P.553339	46.48
22. P.553310	46.48	52. P.553340	46.48
23. P.553311	46.48	53. P.553341	46.48
24. P.553312	46.48	54. P.553342	46.48
25. P.553313	46.48	55. P.553343	46.48
26. P.553314	46.48	56. P.553344	46.48
27. P.553315	46.48	57. P.553345	46.48
28. P.553316	46.48	58. P.553346	46.48
29. P.553317	46.48	59. P.553347	46.48
30. P.553318	46.48	60. P.553348	46.48

60

<u>Claim No.</u>	<u>Days</u>	<u>Claim No.</u>	<u>Days</u>
61. P.553349	46.48	91. P.553379	46.48
62. P.553350	46.48	92. P.553380	46.48
63. P.553351	46.48	93. P.553381	46.48
64. P.553352	46.48	94. P.553382	46.48
65. P.553353	46.48	95. P.553383	46.48
66. P.553354	46.48	96. P.553384	46.48
67. P.553355	46.48	97. P.553385	46.48
68. P.553356	46.48	98. P.553386	46.48
69. P.553357	46.48	99. P.553387	46.48
70. P.553358	46.48	100. P.553388	46.48
71. P.553359	46.48	101. P.553389	46.48
72. P.553360	46.48	102. P.553390	46.48
73. P.553361	46.48	103. P.553391	46.48
74. P.553362	46.48	104. P.553392	46.48
75. P.553363	46.48	105. P.553393	46.48
76. P.553364	46.48	106. P.553394	46.48
77. P.553365	46.48	107. P.553395	46.48
78. P.553366	46.48	108. P.553396	46.48
79. P.553367	46.48	109. P.553397	46.48
80. P.553368	46.48	110. P.553398	46.48
81. P.553369	46.48	111. P.553399	46.48
82. P.553370	46.48	112. P.553400	46.48
83. P.553371	46.48	113. P.553401	46.48
84. P.553372	46.48	114. P.553402	46.48
85. P.553373	46.48	115. P.553403	46.48
86. P.553374	46.48	116. P.553404	46.48
87. P.553375	46.48	117. P.553405	46.48
88. P.553376	46.48	118. P.553406	46.48
89. P.553377	46.48	119. P.553407	46.48
90. P.553378	46.48	120. P.553408	46.48

60

<u>Claim No.</u>	<u>Days</u>	<u>Claim No.</u>	<u>Days</u>
121. P.553409	46.48	151. P.553439	46.48
122. P.553410	46.48	152. P.553440	46.48
123. P.553411	46.48	153. P.553441	46.48
124. P.553412	46.48	154. P.553442	46.48
125. P.553413	46.48	155. P.553443	46.48
126. P.553414	46.48	156. P.553444	46.48
127. P.553415	46.48	157. P.553445	46.48
128. P.553416	46.48	158. P.553446	46.48
129. P.553417	46.48	159. P.553447	46.48
130. P.553418	46.48	160. P.553448	46.48
131. P.553419	46.48	161. P.553449	46.48
132. P.553420	46.48	162. P.553450	46.48
133. P.553421	46.48	163. P.553451	46.48
134. P.553422	46.48	164. P.553452	46.48
135. P.553423	46.48	165. P.553453	46.48
136. P.553424	46.48	166. P.553454	46.48
137. P.553425	46.48	167. P.553455	46.48
138. P.553426	46.48	168. P.553456	46.48
139. P.553427	46.48	169. P.553457	46.48
140. P.553428	46.48	170. P.553458	46.48
141. P.553429	46.48	171. P.553459	46.48
142. P.553430	46.48	172. P.553460	46.48
143. P.553431	46.48	173. P.553461	46.48
144. P.553432	46.48	174. P.553462	46.48
145. P.553433	46.48	175. P.553463	46.48
146. P.553434	46.48	176. P.553464	46.48
147. P.553435	46.48	177. P.553465	46.48
148. P.553436	46.48	178. P.553466	46.48
149. P.553437	46.48	179. P.553467	46.48
150. P.553438	46.48	180. P.553468	46.48

<u>Claim No.</u>	<u>Days</u>	<u>Claim No.</u>	<u>Days</u>
181. P.553469	46.48	211. P.553518	46.48
182. P.553470	46.48	212. P.553519	46.48
183. P.553471	46.48	213. P.553520	46.48
184. P.553472	46.48	214. P.553521	46.48
185. P.553473	46.48	215. P.553522	46.48
186. P.553474	46.48	216. P.553523	46.48
187. P.553475	46.48	217. P.553524	46.48
188. P.553476	46.48	218. P.553525	46.48
189. P.553477	46.48	219. P.553526	46.48
190. P.553478	46.48	220. P.553527	46.48
191. P.553470	46.48	221. P.553528	46.48
192. P.553480	46.48	222. P.553529	46.48
193. P.553481	46.48	223. P.553530	46.48
194. P.553482	46.48	224. P.553531	46.48
<u>195. P.553483</u>	46.48	225. P.553532	46.48
196. P.553503	46.48	226. P.553533	46.48
197. P.553504	46.48	227. P.553534	46.48
198. P.553505	46.48	228. P.553535	46.48
199. P.553506	46.48	229. P.553536	46.48
200. P.553507	46.48	230. P.553537	46.48
201. P.553508	46.48	231. P.553538	46.48
202. P.553509	46.48	232. P.553539	46.48
203. P.553510	46.48	233. P.553540	46.48
204. P.553511	46.48	234. P.553541	46.48
205. P.553512	46.48	235. P.553542	46.48
206. P.553513	46.48	236. P.553543	46.48
207. P.553514	46.48	237. P.553544	46.48
208. P.553515	46.48	238. P.553545	46.48
209. P.553516	46.48	239. P.553546	46.48
210. P.553517	46.48	240. P.553547	46.48

<u>Claim No.</u>	<u>Days</u>	<u>Claim No.</u>	<u>Days</u>
241. P.553548	46.48	271. P.577754	46.48
242. P.553549	46.48	272. P.577755	46.48
243. P.553550	46.48	273. P.577756	46.48
244. P.553551	46.48	274. P.577757	46.48
245. P.553552	46.48	275. P.577758	46.48
246. P.553553	46.48	276. P.577759	46.48
247. P.553554	46.48	277. P.577760	46.48
248. P.553555	46.48	278. P.577761	46.48
249. P.553556	46.48	279. P.577762	46.49
250. P.553557	46.48	280. P.577763	46.48
251. P.553558	46.48	281. P.577764	46.48
252. P.553559	46.48	282. P.577765	46.48
253. P.553560	46.48	283. P.577766	46.48
254. P.553561	46.48	284. P.577767	46.48
255. P.553562	46.48	285. P.577768	46.48
256. P.553563	46.48	286. P.577769	46.48
257. P.553564	46.48	287. P.577770	46.48
258. P.553565	46.48	288. P.577771	46.48
259. P.553566	46.48	289. P.577772	46.48
260. P.553567	46.48	290. P.577773	46.48
261. P.553568	46.48	<u>291. P.577774</u>	46.48
262. P.553569	46.48	292. P.577792	46.48
263. P.553570	46.48	293. P.577793	46.48
264. P.553571	46.48	294. P.577794	46.48
265. P.553572	46.48	295. P.577795	46.48
266. P.553573	46.48	296. P.577796	46.48
<u>267. P.553574</u>	46.48	297. P.577797	46.48
268. P.577751	46.48	298. P.577798	46.48
269. P.577752	46.48	299. P.577799	46.48
270. P.577753	46.48	300. P.577800	46.48

<u>Claim No.</u>	<u>Days</u>
301. P.577801	46.48
302. P.577802	46.48
303. P.577803	46.48
304. P.577804	46.48
305. P.577805	46.48
306. P.577806	46.48
307. P.577807	46.48
308. P.577808	46.48
309. P.577809	46.48
<u>310. P.577810</u>	46.48
311. P.575672	46.48
312. P.575673	46.48

17-

LIST "B"

All the work was performed on the following Mining Claims:

<u>Drill Hole</u>	<u>Claim</u>
DO-81-01	P553334
-02	P553327
-03	P553312
-04	P553327
-05	P553332
-06	P553332
-07	P553552
-08	P553477
-09	P575672
-10	P553475
-11	P553308
-12	P553306
-13	P553546
-14	P553547
-15	P553533
-16	P553531
-17	P553511
-18	P553506
-19	P553448
-20	P553446
-21	P553444
-22	P553405

<u>Drill Hole</u>	<u>Claim</u>
DO-81 -23	P553405
-24	P553370
-25	P553370
-26	P549927
-27	P553365
-28	P553374
-29	P553402
-30	P553419
-31	P553441
-32	P553452
-33	P553453
-34	P553503
-35	P553515
-36	P553515
-37	P553523
-38	P553536
-39	P553543
-40	P553556
-41	P553556
-42	P553303
-43	P553316
-44	P553323
-45	P553323
-46	P553336
-47	P553342
-48	P553338
-49	P553321
-50	P553321

Drill Hole

Claim

DO-81-51

P553318

-52

P553561

-53

P553558

-54

~~P553558~~

-55

~~P553558~~

-56

P553541

-57

P553538

-58

P553521

-59

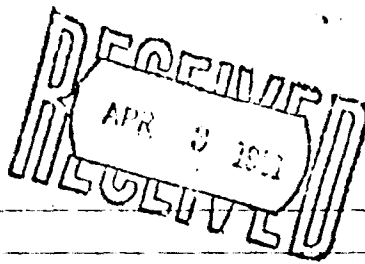
P553461

-60

P553467

-93

P553332



Western Mines Limited
Eastern Canada Exploration Office,
Suite 1414 - 390 Bay St.
Toronto, Ontario
M5H 2Y2

HOLE NO.	TO COVER DIAMOND DRILLING FOR Feb. 1 to 28, 1981				
	FROM	TO	FOOTAGE COMPLETED		
	Man hours - Feb. 20 (no snow)				
	✓ 24 man hours	@	\$19.00	\$456 00	✓✓
	Move equipment between areas:				
	✓ 11 hours	@	170.00	1,870 00	✓✓
	Move out equipment:				
	✓ 13 hours	@	170.00	2,210 00	✓✓
	Moving out camps & Supplies:				
	✓ 270 man hours	@	19.00	5,130 00	✓
	✓ 10 ton truck rental - 53 hrs @		35.00	1,855 00	✓
	✓ 1 ton truck rental - 27 hrs.@		15.00	405 00	✓
	Servicing -				
	✓ 54 man hours	@	19.00	1,026 00	✓
	✓ 49 - 1 ton truck	@	15.00	735 00	✓
				\$105,712 50	✓

*DETOUR
PRECIOUS METALS*

50 271 320 105,712 50

P82 17 Rm 105,712 50
[Signature]

Debit to Customer's Account

WESTERN UNION

No. 12173

WESTERN UNION
1057123450

PAY TO THE
ORDER OF

BRADLEY BROS.

WESTERN UNION

BANK OF MONTREAL

Form 6023BL

Printed in CANADA
Imprimé au

Western Mines Limited
Eastern Canada Exploration Office,
Suite 1414 - 390 Bay Street,
Toronto, Ontario M5H 2Y2

HOLE NO.	TO COVER DIAMOND DRILLING FOR				
	FROM	TO	FOOTAGE COMPLETED		
	Stove oil: attached			\$1,176	52 ✓
	Propane gas - 100 lbs (gas only)			562	47 ✓
	Groceries - attached			7,295	70 ✓
	4 Safety hats	@	\$23.00	92	00 ✓
	M.J. Labelle & Co. - attached		\$17,118.50 ✓		
	Plus 15%		<u>2,567.75</u>	19,686	25 ✓
				<u>\$34,050</u>	<u>59</u> ✓
	<i>1 RECIOUS METALS</i>				
	<i>D. TOUR</i>	<i>302</i>	<i>11,800.00</i>		
	<i>DE TOUR</i>	<i>339</i>	<i>8,200.00</i>		
	<i>✓</i>	<i>338</i>	<i>1,875.00</i>		
	<i>✓</i>	<i>370</i>	<i>7,225.00</i>		
	<i>✓</i>	<i>363</i>	<i>12.00</i>		
	<i>✓</i>	<i>360</i>	<i>1,200.00</i>		
	<i>✓</i>	<i>361</i>	<i>2,000.00</i>		
	<i>980</i>	<i>ET</i>	<i>34</i>	<i>2,000.00</i>	

DATE March 13, 1981

WESTERN MINES LTD. \$117,462.59

\$117,462.59

PAY TO THE ORDER OF

BRADLEY BROS. LIMITED

WESTERN MINES LIMITED
TORONTO IMPREST ACCOUNT

William

NOT NEGOTIABLE

BANK OF MONTREAL
MAIN BRANCH
VANCOUVER, B.C., CANADA

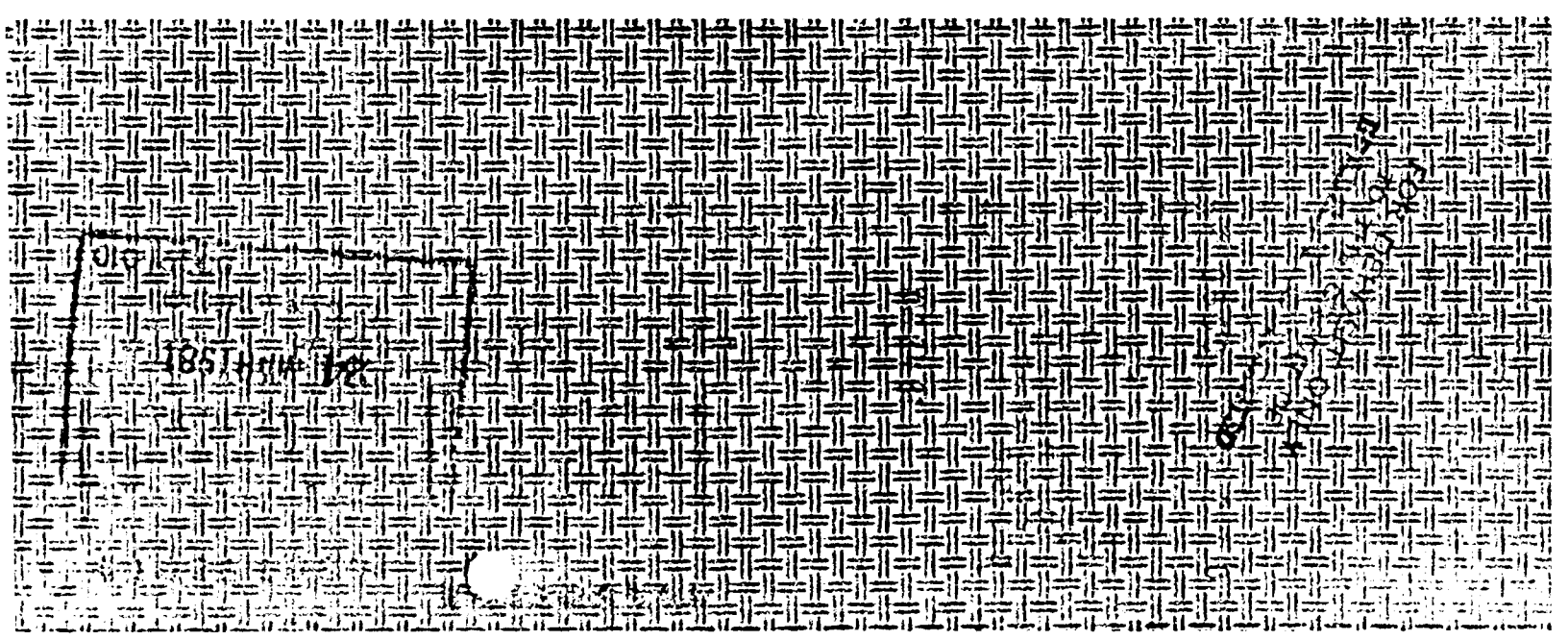
IN PAYMENT OF: WESTERN MINES LIMITED

Invoice dated January 31, 1981

.. \$ 83,412.00
.. 34,050.59

\$117,462.59

CB118





OVERBURDEN DRILLING MANAGEMENT LIMITED

192 POWELL AVENUE, OTTAWA, ONTARIO K1S 2A5 - (613) 822-0202

RECEIVED
MARCH 11 1981
REQUESTED

March 02, 1981

To: Western Mines Limited
1414 - 390 Bay Street
Toronto, Ontario
M5H 2Y2

Re: February Invoice - Overburden Drilling Program
Detour Lake, P. Q.

Laboratory Services:

Overburden samples: 01-01 to 64-12 560 samples @ 20.00	11,200.00	✓	350
Basal overburden +10 split (in vials) sample numbers: 01-16 to 66-05 66 @ 1.00	66.00	✓	320
Bedrock samples: 01-17 to 66-06 60 samples @ 2.00	120.00	✓	320
Extra +10 split (in vials and kraft bags) 60 @1.00	60.00	✓	300
Storage and handling: 57 samples @ 4.00	<u>228.00</u>	✓	300
	11,674.00		

Expenses: as per attached summary and receipts	<u>1,469.50</u>	✓	365
TOTAL:	\$13,143.50	✓	

Yours truly,

S. A. Averill
S. A. Averill
President

WESTERN UNION TELETYPE
300 BAY STREET TORONTO, ONTARIO
No. 1214
DATE: March 27, 1971
WESTERN UNION TELETYPE
TORONTO
JOY BURDEN, EXECUTIVE MANAGEMENT LIMITED
BANK OF MONTREAL
MONTREAL, QUEBEC
100 HONG KONG ST. TORONTO

WESTERN UNION TELETYPE
TORONTO
JOY BURDEN, EXECUTIVE MANAGEMENT LIMITED
BANK OF MONTREAL
MONTREAL, QUEBEC
100 HONG KONG ST. TORONTO

WESTERN MINES LIMITED

DIVISION EXPLORATION

SALARY DISTRIBUTION — EXPLORATION

Name C. ROCKINGHAM Month FEBRUARY 19 81

Day	Project/Location	AFE No.	Day	Project/Location	AFE No.
1	DETOUR / DETOUR LAKE	1	16	DETOUR / DETOUR LAKE	
2	↓		17		
3			18		
4	NORANDA		19		
5	DETOUR LAKE		20		
6	↓		21		
7			22		SAT 1.5 SUN
8			23		
9			24		
10			25	↓	
11	↓		26	NORANDA	
12	LA SARRÉ		27	↓	
13	DETOUR LAKE		28		SAT.
14	↓		29		
15			30		SAT SUN 1.5
			31		

Bonus days earned* 5 1/2

Cumulative bonus days previous month 5

Bonus days taken —

Cumulative bonus days this month 10.5

Distribution: Project	Total Days	%
DETOUR	27	100

* The basic work week is 5 1/2 days per week

Vacation days taken —

Sick days taken —

APPROVED: R. [Signature]

SPECIAL CODE
 P — Public holiday; V — Paid vacation; S — Sick; B.D. — Bonus days taken.

WESTERN MINES LIMITED

DIVISION EXPLORATION

SALARY DISTRIBUTION – EXPLORATION

Name C. ROCKINGHAM Month JANUARY 19 81

Project/Location	AFE No.	Day	Project/Location	AFE No.
P		16	DETOUR / DETOUR	
P		17	" "	
P	SAT	18	" "	SAT 1.5 SUN
P	SUN	19	" "	
DETOUR / TORONTO		20	" "	
"		21	" "	
"		22	" "	
"		23	" "	
" LA SARRE		24	" "	SAT
" LA SARRE	SAT	25	" "	1.5 SUN
" LA SARRE	1.5 SUN	26	" "	
" TORONTO		27	" "	
" LA SARRE		28	" "	
" LA SARRE		29	" "	
" DETOUR		30	" "	
		31	" "	SAT .5

Bonus days earned*	<u>5</u>		Distribution: Project	Total Days	%
Cumulative bonus days previous month	<u>—</u>		DETOUR	27	100
Bonus days taken	<u>—</u>				
Cumulative bonus days this month	<u>5</u>				
* The basic work week is 5½ days per week					
Vacation days taken	<u>—</u>				
Sick days taken	<u>—</u>				

APPROVED: [Signature]

SPECIAL CODE
P – Public holiday; V – Paid vacation; S – Sick; B.D. – Bonus days taken.

WESTERN MINES LIMITED

DIVISION EXPLORATION

SALARY DISTRIBUTION — EXPLORATION

Name D. ROBINSON

Month FEBRUARY 19 81

Project/Location	AFE No.	Day	Project/Location	AFE No.
DETOUR / DETOUR LAKE	1	SUN	DETOUR / DETOUR LAKE	
		16		
		17		
		18		
		19		
		20		
		21		
		22		SAT 1.5 SUN
	SAT 1.5 SUN	23		
		24		
		25		
		26		
		27		
		28	v	1.5 SAT
		29	L A I D O F F	
v		30		
	SAT 1.5 SUN	31		

Bonus days earned* NA 6
 Cumulative bonus days previous month NA 2
 Bonus days taken NA 8
 Cumulative bonus days this month NA 8

Distribution: Project	Total Days	%
DETOUR	28	100

* The basic work week is 5½ days per week

Vacation days taken —
 Sick days taken —

APPROVED: *R. [Signature]*

SPECIAL CODE
 P — Public holiday; V — Paid vacation; S — Sick; B.D. — Bonus days taken.

WESTERN MINES LIMITED

DIVISION EXPLORATION

SALARY DISTRIBUTION — EXPLORATION

Name D. ROBINSON Month JANUARY 19 81

Day	Project/Location	AFE No.	Day	Project/Location	AFE No.
16					
17					
18					
19	DETOUR			TORONTO	
20	"			DETOUR	
21	"			"	
22	"			"	
23	"			"	
24	"			"	
25	"			"	SAT 15 WUN
26	"			"	
27	"			"	
28	"			"	
29	"			"	
30	"			"	
31	"			"	SAT 15

Bonus days earned* 2
 Cumulative bonus days previous month _____
 Bonus days taken _____
 Cumulative bonus days this month 2

Distribution: Project	Total Days	%
DETOUR	13	100

* The basic work week is 5½ days per week

Vacation days taken _____
 Sick days taken _____

APPROVED: R.H. [Signature]

SPECIAL CODE
 P — Public holiday; V — Paid vacation; S — Sick; B.D. — Bonus days taken.

WESTERN MINES LIMITED

390 BAY STREET, TORONTO, ONTARIO
M5H 2Y2

No. 02169

WARRANTED

DATE March 20, 19 81

WESTERN MINES LTD. **\$6,384.32**

PAY TO THE ORDER OF

\$6,384.32

G.N. THOMAS

WESTERN MINES LIMITED
TORONTO IMPREST ACCOUNT

R. G. McNeill

NOT NEGOTIABLE

BANK OF MONTREAL
MAIN BRANCH
VANCOUVER, B.C., CANADA

IN PAYMENT OF: WESTERN MINES LIMITED

Invoice dated March 4, 1981 Re: Detour Project	..	\$4,725.00
Expense Statement dated March 5, 1981	..	<u>1,659.32</u>
		\$6,384.32

CB 119

PLEASE DETACH BEFORE DEPOSITING

DEBIT

DISTRIBUTION

CREDIT

ACC. NO.	PARTICULARS	AMOUNT	ACC. NO.	PARTICULARS	AMOUNT

APPROVED FOR PAYMENT

MANAGER

CERTIFIED CORRECT

ACCOUNTANT

WESTERN MINES LIMITED

200 BAY STREET, TORONTO, ONTARIO

No. 1027

March 30

WESTERN MINES LTD. \$6384 and 3265

\$6384.32

PAY TO THE ORDER OF

G.M. THOMAS

[Handwritten signature]

BANK OF MONTREAL

1000 AVENUE DE LA MONTELENAIS, MONTREAL, CANADA

[Vertical handwritten notes and stamps on the right side of the document]

[Handwritten signature and scribbles in the lower section]

WESTERN MINES LIMITED

390 BAY STREET, TORONTO, ONTARIO
M5H 2Y2

No. 02108

DATE February 18, 1981

WESTERN MINES LTD. \$3,925 and 84/100

\$3,925.84

PAY TO THE ORDER OF

G. M. THOMAS

WESTERN MINES LIMITED
TORONTO IMPREST ACCOUNT

R. A. McMillan

NOT NEGOTIABLE

BANK OF MONTREAL
MAIN BRANCH
VANCOUVER, B.C., CANADA

IN PAYMENT OF: WESTERN MINES LIMITED

Consulting Fees
Invoice dated Feb. 12, 1981 .. \$3,150.00
Re: Detour Project

Expense Statement dated Feb. 12/81 .. 775.84

\$3,925.84

C6117

PLEASE DETACH BEFORE DEPOSITING

DEBIT

DISTRIBUTION

CREDIT

ACC. NO.	PARTICULARS	AMOUNT	ACC. NO.	PARTICULARS	AMOUNT

APPROVED FOR PAYMENT _____
MANAGER

CERTIFIED CORRECT _____
ACCOUNTANT

WESTERN MOUNTAIN

No. 0008

WESTERN MOUNTAIN
MINES LTD. \$3,925.00

PAY TO THE ORDER OF

G. W. THOMAS

[Handwritten signature]

BANK OF MONTREAL

1000-0-0017

1000-0-0017

1000-0-0017

WESTERN MINES LIMITED

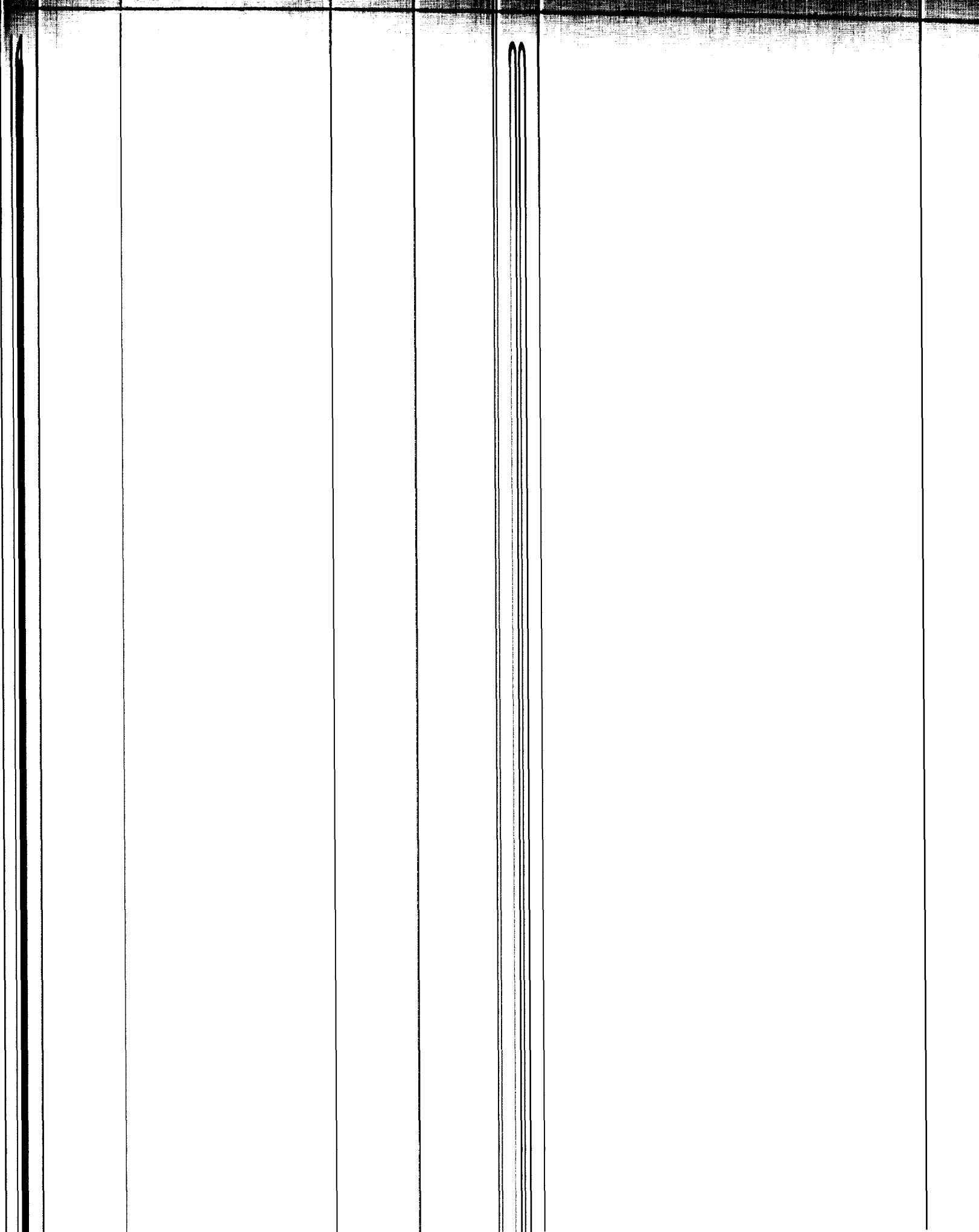
DIVISION EXPLORATION

SALARY DISTRIBUTION - EXPLORATION

Name D. LEWIS Month FEBRUARY 19 81

Day Project/Location AFE No. Day Project/Location AFE No.

Day	Project/Location	AFE No.	Day	Project/Location	AFE No.
1	DETOUR / DETOUR LAKE		16	DETOUR / DETOUR LAKE	
2			17		
3			18		
4			19		
5			20		
6			21		
7			22		
8			23		
9			24		
10			25		
11			26		
12			27		
13			28		



WESTERN MINES LIMITED

DIVISION EXPLORATION

SALARY DISTRIBUTION — EXPLORATION

Name D. LEWIS Month FEBRUARY 19 81

Day	Project/Location	AFE No.	Day	Project/Location	AFE No.
1	DETOUR / DETOUR LAKE		16	DETOUR / DETOUR LAKE	
2			17		
3			18		
4			19		
5			20		
6			21		
7			22		
8			23		
9			24		
10			25		
11			26		
12			27		
13			28	↓	
14			29	L A I D O F F	
15	↓		30		
			31		

Bonus days earned* NA
 Cumulative bonus days previous month NA
 Bonus days taken NA
 Cumulative bonus days this month NA

Distribution: Project	Total Days	%
<u>DETOUR</u>	<u>28</u>	<u>100</u>

* The basic work week is 5½ days per week

Vacation days taken —
 Sick days taken —

APPROVED: *R. [Signature]*

SPECIAL CODE

P — Public holiday; V — Paid vacation; S — Sick; B.D. — Bonus days taken.

WESTERN MINES LIMITED

DIVISION EXPLORATION

SALARY DISTRIBUTION — EXPLORATION

Name DAN LEWIS Month JANUARY 19 81

Day	Project/Location	AFE No.	Day	Project/Location	AFE
1			16	DETOUR	DETOUR
2			17	"	"
3			18	"	"
4			19	"	"
5			20	"	"
6			21	"	"
7			22	"	"
8			23	"	"
9			24	"	"
10			25	"	"
11			26	"	"
12			27	"	"
13			28	"	"
14	DETOUR OTTAWA / LA SARRE		29	"	"
15	"		30	"	"
			31	"	"

Bonus days earned* NA

Cumulative bonus days previous month _____

Bonus days taken _____

Cumulative bonus days this month _____

Distribution: Project	Total Days	%
<u>DETOUR</u>	<u>18</u>	<u>100</u>

* The basic work week is 5½ days per week

Vacation days taken _____

Sick days taken _____

APPROVED: [Signature]

SPECIAL CODE

P — Public holiday; V — Paid vacation; S — Sick; B.D. — Bonus days taken.

WESTERN MINES LIMITED

DIVISION EXPLORATION

SALARY DISTRIBUTION — EXPLORATION

Name M. MAHAFFY Month FEBRUARY 19 81

Day	Project/Location	AFE No.	Day	Project/Location	AFE No.
1	DETOUR / DETOUR LAKE		16	DETOUR / DETOUR LAKE	
2			17		
3			18		
4			19		
5			20		
6			21		
7			22		
8			23		
9			24		
10			25		
11			26		
12			27		
13			28	↓	
14			29	L A I D O F F	
15	↓		30		
			31		

Bonus days earned* NA
 Cumulative bonus days previous month NA
 Bonus days taken NA
 Cumulative bonus days this month —

Distribution: Project	Total Days	%
<u>DETOUR</u>	<u>28</u>	<u>100</u>

* The basic work week is 5½ days per week

Vacation days taken —
 Sick days taken —

APPROVED: *R. Smith*

SPECIAL CODE
 P — Public holiday; V — Paid vacation; S — Sick; B.D. — Bonus days taken.

WESTERN MINES LIMITED

DIVISION EXPLORATION

SALARY DISTRIBUTION — EXPLORATION

Name M. MAHAFFY

Month JANUARY 19 81

Day	Project/Location	AFE No.	Day	Project/Location	AFE No.
1			16	DETOUR	DETOUR
2			17	"	"
3			18	"	"
4			19	"	"
5			20	"	"
6			21	"	"
7			22	"	"
8			23	"	"
9			24	"	"
10			25	"	"
11			26	"	"
12			27	"	"
13	DETOUR	SADBURY-NORANDA	28	"	"
14		LA SARE	29	"	"
15	DETOUR		30	"	"
			31	"	"

Bonus days earned* NA

Cumulative bonus days previous month _____

Bonus days taken _____

Cumulative bonus days this month _____

Distribution: Project	Total Days	%
<u>DETOUR</u>	<u>19</u>	<u>100</u>

* The basic work week is 5½ days per week

Vacation days taken _____

Sick days taken _____

APPROVED: [Signature]

SPECIAL CODE

P — Public holiday; V — Paid vacation; S — Sick; B.D. — Bonus days taken.

WESTERN MINES LIMITED

DIVISION EXPLORATION

SALARY DISTRIBUTION — EXPLORATION

Name L. NUTTER

Month FEBRUARY 198

Day	Project/Location	AFE No.	Day	Project/Location	AFE
1	DETOUR / DETOUR LAKE		16	DETOUR / DETOUR LAKE	
2			17		
3			18		
4			19		
5			20		
6			21		
7			22		
8			23		
9			24		
0			25		
1			26		
2			27		
3			28	v	v
4			29	LAID OFF	
5	v		30		
			31		

Bonus days earned* NA
 Cumulative bonus days previous month NA
 Bonus days taken NA
 Cumulative bonus days this month NA

Distribution: Project	Total Days	%
<u>DETOUR</u>	<u>28</u>	<u>100</u>

* The basic work week is 5½ days per week

Vacation days taken —
 Sick days taken —

APPROVED: R. M. M. [Signature]

SPECIAL CODE
 P — Public holiday; V — Paid vacation; S — Sick; B.D. — Bonus days taken.

WESTERN MINES LIMITED

DIVISION EXPLORATION

SALARY DISTRIBUTION — EXPLORATION

Name L. NUTTER

Month JANUARY 198

Day	Project/Location	AFE No.	Day	Project/Location	AFE No.
1			16	DETOUR	DETOUR
2			17	"	"
3			18	"	"
4			19	"	"
5			20	"	"
6			21	"	"
7			22	"	"
8			23	"	"
9			24	"	"
10			25	"	"
11			26	"	"
12			27	"	"
13			28	"	"
14	DETOUR LA SARRE		29	"	"
15	" DETOUR		30	"	"
			31	"	"

Bonus days earned* NA

Cumulative bonus days previous month _____

Bonus days taken _____

Cumulative bonus days this month _____

Distribution: Project	Total Days	%
DETOUR	18	100

* The basic work week is 5½ days per week

Vacation days taken _____

Sick days taken _____

APPROVED: [Signature]

SPECIAL CODE
 P — Public holiday; V — Paid vacation; S — Sick; B.D. — Bonus days taken.

WESTERN MINES LIMITED

390 BAY STREET, TORONTO, ONTARIO
M5H 2V2

No. 02132

DATE March 13, 19 81

WESTERN MINES LTD. \$635 and 70cts

PAY TO THE ORDER OF

\$ 635.70

BONDAR-CLEGG & COMPANY LTD.

WESTERN MINES LIMITED
TORONTO IMPREST ACCOUNT

R.G. McMillan

NOT NEGOTIABLE

BANK OF MONTREAL
MAIN BRANCH
VANCOUVER, B.C., CANADA

IN PAYMENT OF: WESTERN MINES LIMITED

Invoice No. E2965	dated Feb. 11, 1981	..	\$ 34.80
" E2998	" Feb. 13, 1981	..	32.70
" E3001	" Feb. 16, 1981	..	542.70
" E3002	" Feb. 16, 1981	..	<u>25.50</u>
			\$635.70

CB118

PLEASE DETACH BEFORE DEPOSITING

DEBIT

DISTRIBUTION

CREDIT

ACC. NO.	PARTICULARS	AMOUNT	ACC. NO.	PARTICULARS	AMOUNT

APPROVED FOR PAYMENT _____
MANAGER

CERTIFIED CORRECT _____
ACCOUNTANT

WESTERN MINES LIMITED

180 BAY STREET TORONTO, ONTARIO

No. 07132

WESTERN MINES LIMITED

March 1931

PAY TO THE ORDER OF

BONDAR GIBSON & COMPANY

TORONTO IMPREST ACCOUNT

BANK OF MONTREAL

1000-0-0000

1000-0-0000

1000-0-0000

BONDAR GIBSON & COMPANY
1000-0-0000

WESTERN MINES LIMITED

390 BAY STREET, TORONTO, ONTARIO
M5H 2Y2

No. 02178

WARRANTED

DATE March 27, 19 81

WESTERN MINES LTD. \$1,808 and 15/100

\$1,808.15

PAY TO THE ORDER OF

BONDAR-CLEGG & COMPANY LTD.

WESTERN MINES LIMITED
TORONTO IMPREST ACCOUNT

R.A. [Signature]

NOT NEGOTIABLE

BANK OF MONTREAL
MAIN BRANCH
VANCOUVER, B.C., CANADA

IN PAYMENT OF: WESTERN MINES LIMITED

Invoice No. E 3045	dated Feb. 19, 1981	..	\$ 297.25
Credit No. E 3320	" Mar. 5, 1981	..	(22.50)
Invoice No. E 3051	" Feb. 20, 1981	..	603.00
Credit No. E 3058	" Feb. 20, 1981	..	(2.55)
Invoice No. E 3060	" Feb. 20, 1981	..	353.30
" " E 3067	" Feb. 23, 1981	..	388.70
" " E 3069	" Feb. 23, 1981	..	190.95
			<u>\$1, 808.15</u>

\$1, 808.15

CB120

PLEASE DETACH BEFORE DEPOSITING

DEBIT

DISTRIBUTION

CREDIT

ACC. NO.	PARTICULARS	AMOUNT	ACC. NO.	PARTICULARS	AMOUNT

APPROVED FOR

CERTIFIED
CORRECT

WARRANTED

DATE April 29, 1981

PAY TO THE ORDER OF

~~WESTERN MINES LTD.~~ \$1,053.75

\$ 1,053.75

WESTERN MINES LIMITED
TORONTO IMPREST ACCOUNT

BONDAR-CLEGG & COMPANY LTD.

R.A. [Signature]

NOT NEGOTIABLE

BANK OF MONTREAL
MAIN BRANCH
VANCOUVER, B.C., CANADA

IN PAYMENT OF: WESTERN MINES LIMITED

Invoice No. E 3463 dated March 23, 1981	..	\$ 52.50
" " E 3474 " March 24, 1981	..	911.25
" " E 3524 " March 30, 1981	..	90.00
		<u>\$1,053.75</u>

CB 122

PLEASE DETACH BEFORE DEPOSITING

DEBIT			DISTRIBUTION		CREDIT	
ACC. NO.	PARTICULARS	AMOUNT	ACC. NO.	PARTICULARS	AMOUNT	

APPROVED FOR PAYMENT _____
MANAGER

CERTIFIED CORRECT _____
ACCOUNTANT

WESTERN MINE S T M I L L E D

90 BAY STREET TORONTO ONTARIO

No. 02235

WESTERN RESOURCE LTD

DATE April 22 1981

PAY BY
ORDER OF

WESTERN MINE S T M I L L E D
\$1058 and 75 cts

\$1,058-75

WESTERN MINE S T M I L L E D
TORONTO IMPREST ACCOUNT

BONDAR CHEGG & COMPANY LTD.

[Handwritten Signature]

[Handwritten Signature]

BANK OF MONTREAL

TORONTO BRANCH

10000105875

FOR DEPOSIT ONLY

TO THE CREDIT OF

BONDAR CHEGG & CO. LTD.

R. 106-634

WESTERN MINES LIMITED

No. 02218

WESTERN MINES LTD. \$4,531 and 90cts

PAY TO THE ORDER OF

BONDARTHEIST & COMPANY LTD.

WESTERN MINES LIMITED TORONTO MERCH. ACCOUNT

[Handwritten signature]

BANK OF MONTREAL

700 BOND STREET

TORONTO

10000058480

FOR DEPOSIT ONLY
BONDARTHEIST & CO. LTD.
100 BOND ST.
TORONTO



BONDAR-CLEGG & COMPANY LTD.

74 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

RECEIVED
MAY 26 1981
RECEIVED

Westmin Resources Limited,
Suite 1414- 390 Bay Street,
Toronto, Ontario.
M5H 2Y2

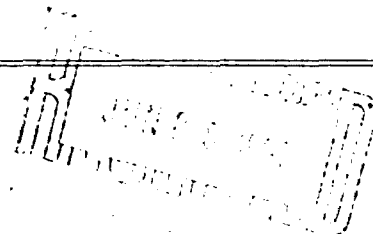
INVOICE: E 5951

DATE: May 21, 1981

REPORT NO: 111-0596

PROJECT:

Attention: Mr. C. Rockingham



4	Analyses of Copper	@ \$1.75	\$7.00
4	Analyses of Lead	@ 0.75	3.00
4	Analyses of Zinc	@ 0.75	3.00
4	Analyses of Nickel	@ 0.75	3.00
4	Analyses of Silver	@ 0.75	3.00
4	Analyses of Gold	@ 5.25	21.00
4	Sample Preparation	@ 1.25	5.00
4	transferred from poly-bags	@ 0.10	0.40

TOTAL \$45.40 ✓

PRECIOUS METALS

50071 301 4540

p91

R
to CR 4540

CR Return

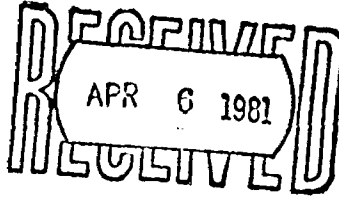
Wm

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED



BONDAR-CLEGG & COMPANY LTD.

4 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455



Western Mines Limited
1414-390 Bay Street
Toronto, Ontario
M5H 2Y2

Attention: R. McMillan

INVOICE: E 3556

DATE: April 1, 1981

REPORT NO: 318-81

PROJECT:

61	Analyses of Copper	@\$1.75	\$106.75
61	Analyses of Lead	@ .75	45.75
61	Analyses of Zinc	@ .75	45.75
61	Analyses of Nickel	@ .75	45.75
61	Analyses of Silver	@ .75	45.75
61	Analyses of Gold	@ 5.25	320.25
61	Sample Preparations	@ 1.25	76.25

\$686.25 ✓

CHARGE TO PRECIOUS METALS				
ACCOUNT	SUB-EDIFY L. NO.	CON- FIGURE	FE.	AMOUNT
	50271	301		686.25
086	CTR			686.25

mk

**THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED**



BONDAR-CLEGG & COMPANY LTD.

BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited
1414, 390 Bay Street
Toronto, Ontario
M5H 2Y2

RECEIVED
APR 2 1981
RECEIVED

INVOICE: E 3524

DATE: March 30, 1981

REPORT NO: 319-81

PROJECT:

Attention: R. McMillan

8	Analyses of Copper	@\$1.75	\$ 14.00
8	Analyses of Lead	@ .75	6.00
8	Analyses of Zinc	@ .75	6.00
8	Analyses of Nickel	@ .75	6.00
8	Analyses of Silver	@ .75	6.00
8	Analyses of Gold	@ 5.25	42.00
8	Sample Preparations	@ 1.25	10.00

\$90.00 ✓

CHARGE TO				
ACCOUNT	SUBSIDIARY LEDGER	SUB FEATURE	AFE.	AMOUNT
	50271	34		90.00
REC'D P83	CHK'D CR	AP FOR		90.00

Due to CR

Signature

mk

**THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED**



BONDAR-CLEGG & COMPANY LTD.

64 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited
1414-390 Bay Street
Toronto, Ontario
M5H 2Y2

RECEIVED
MAR 25 1981
RECEIVED

INVOICE: E 3474

DATE: March 24, 1981

REPORT NO: 299-81

PROJECT:

Attention: R. McMillan

81	Analyses of Copper	@ \$ 1.75	\$141.75
81	Analyses of Lead	@ .75	60.75
81	Analyses of Zinc	@ .75	60.75
81	Analyses of Nickel	@ .75	60.75
81	Analyses of Silver	@ .75	60.75
81	Analyses of Gold	@ 5.25	425.25
81	Sample Preparations	@ 1.25	101.25

\$911.25 ✓

CHARGE TO

PRECIOUS METALS

ACCOUNT	SUBSIDIARY LEDGER	SUB FEATURE	AMOUNT
	50271	301	911.25
REC'D BY <i>p83</i>	CHK'D BY <i>CR</i>	<i>Am</i>	911.25

mk

R. Mc to CR.

Am

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited
1414, 390 Bay Street
Toronto, Ontario
M5H 2Y2

Attention: R. McMillan

RECEIVED
MAR 26 1981

INVOICE: E 3463

DATE: March 23, 1981

REPORT NO: 300-81

PROJECT:

5	Analyses of Copper	@ \$ 1.75	\$8.75 ✓
5	Analyses of Lead	@ .75	3.75 ✓
5	Analyses of Zinc	@ .75	3.75 ✓
5	Analyses of Nickel	@ .75	3.75 ✓
5	Analyses of Gold	@ 5.25	26.25 ✓
5	Sample Preparations	@ 1.25	6.25 ✓

~~\$56.25~~ 510 52.50
phoned
4/3/81

CHARGE TO

PRECIOUS METALS			
ACCOUNT	SUBSIDIARY LEDGER	SUR FEATURE	AMOUNT
	50271	301	52 50

REC'D. P83 CR 52 50 to CR. Rm

mk

Wm

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited,
1414- 390 Bay Street,
Toronto, Ontario.

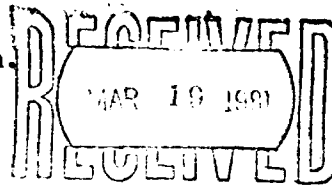
Attention: Mr. R. McMillan.

INVOICE: **E 3417**

DATE: March 16, 1981

REPORT NO: 273-81

PROJECT:



11	Analyses of Copper	@ \$1.75	\$19.25
11	Analyses of Lead	@ 0.75	8.25
11	Analyses of Zinc	@ 0.75	8.25
11	Analyses of Nickel	@ 0.75	8.25
11	Analyses of Silver	@ 0.75	8.25
11	Analyses of Gold	@ 5.25	57.75
11	Sample Preparation	@ 1.25	13.75

TOTAL \$123.75 ✓

CHARGE TO **PRECIOUS METALS**

ACCOUNT	SUBSIDIARY NUMBER	SUB FEATURE	AFE.	AMOUNT	
	50271	301		123	75
REC'D BY PRB	PAID BY CR	APPROVED FOR		123	75

to CR, R.M.

Wm.

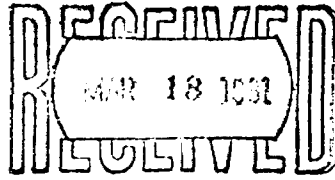
THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited,
1414- 390 Bay Street,
Toronto, Ontario.

Attention: Mr. R. McMillan.



INVOICE: **E 3387**

DATE: March 13, 1981

REPORT NO: 272-81

PROJECT:

89	Analyses of Copper	@ \$1.75	\$155.75
89	Analyses of Lead	@ 0.75	66.75
89	Analyses of Zinc	@ 0.75	66.75
89	Analyses of Nickel	@ 0.75	66.75
89	Analyses of Silver	@ 0.75	66.75
88	Analyses of Gold	@ 5.25	462.00
89	Sample Preparation	@ 1.25	111.25

TOTAL

\$996.00 ✓

TO PRECIOUS METALS				
ACCT. NO.	SUBSIDIARY LEDGER	SUB FEATURE	QTY.	AMOUNT
	50271	301		996.00
REC'D BY	CK'D. BY	APPROV.	DATE	996.00
P.S.R.	CR	<i>[Signature]</i>		

[Handwritten signature] CR

[Handwritten signature]

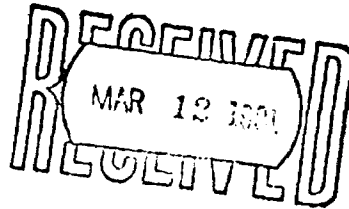
THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

BONDAR-CLEGG & COMPANY LTD.

64 BELFAST ROAD, OTTAWA, ONTARIO, K1G. 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited,
1414- 390 Bay Street,
Toronto, Ontario.

Attention: Mr. R. McMillan



INVOICE: E 3359

DATE: March 10, 1981

REPORT NO: 256-81

PROJECT:

86	Analyses of Copper	@ \$1.75	\$150.50
86	Analyses of Lead	@ 0.75	64.50
86	Analyses of Zinc	@ 0.75	64.50
85	Analyses of Nickel	@ 0.75	63.75
86	Analyses of Silver	@ 0.75	64.50
84	Analyses of Gold	@ 5.25	441.00
87	Sample Preparation	@ 1.25	108.75
TOTAL			<u>\$957.50</u> ✓

PRECIOUS METALS

50271	301	957.50
P82 CR	Rm	957.50

PH

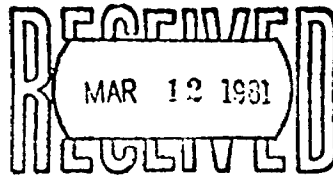
R. McMillan
to CR

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited,
1414- 390 Bay Street,
Toronto, Ontario.

Attention: Mr. R. McMillan.



INVOICE: E 3348

DATE: March 10, 1981

REPORT NO: 233-81

PROJECT:

80	Analyses of Copper	@ \$1.65	\$132.00
80	Analyses of Lead	@ 0.75	60.00
80	Analyses of Zinc	@ 0.75	60.00
80	Analyses of Nickel	@ 0.75	60.00
80	Analyses of Silver	@ 0.75	60.00
80	Analyses of Gold	@ 4.25	340.00
80	Sample Preparation	@ 1.15	92.00

TOTAL \$ 804.00 ✓

PRECIOUS METALS

50271	301	804	00
P82 CR		804	00

11

t CR

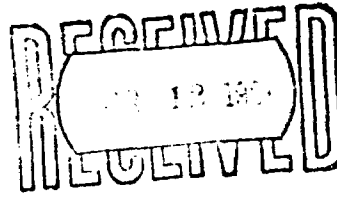
Rm

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited,
1414- 390 Bay Street,
Toronto, Ontario.

Attention: Mr. R. McMillan.



INVOICE: E 3347

DATE: March 10, 1981

REPORT NO: 243-81

PROJECT:

102	Analyses of Copper	@ \$1.65	\$168.30
102	Analyses of Lead	@ 0.75	76.50
102	Analyses of Zinc	@ 0.75	76.50
102	Analyses of Nickel	@ 0.75	76.50
102	Analyses of Silver	@ 0.75	76.50
102	Analyses of Gold	@ 4.25	433.50
102	Sample Preparation	@ 1.15	117.30

TOTAL \$1,025.10 ✓

PRECIOUS METALS

PRECIOUS METALS		AMOUNT
50271	301	1,025.10
P82	CR	1,025.10

ML

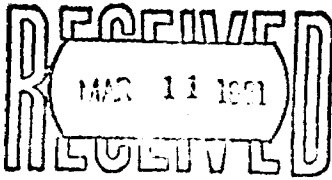
*RM
to CR*

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ACCOUNTS DUE WHEN RENDERED**

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited,
1414- 390 Bay Street,
Toronto, Ontario.



Attention: Mr. R. McMillan

INVOICE: E 3336

DATE: March 9, 1981

REPORT NO: 257-81

PROJECT:

16	Analyses of Copper	@ \$1.75	\$28.00
16	Analyses of Lead	@ 0.75	12.00
16	Analyses of Zinc	@ 0.75	12.00
16	Analyses of Nickel	@ 0.75	12.00
16	Analyses of Silver	@ 0.75	12.00
16	Analyses of Gold	@ 5.25	84.00
16	Sample Preparation	@ 1.25	20.00
		TOTAL	<u>\$180.00</u> ✓

PRECIOUS METALS

50271	301	180.00
P82	CR	180.00

ALL

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ACCOUNTS DUE WHEN RENDERED

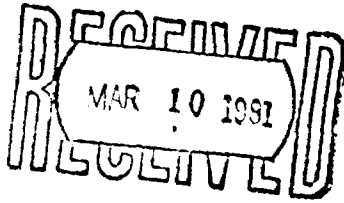
CR
Rm

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited,
1414- 390 Bay Street,
Toronto, Ontario.

Attention: Mr. McMillan



INVOICE: E 3331

DATE: March 6, 1981

REPORT NO: 244-81

PROJECT:

16	Analyses of Copper	@ \$1.65	\$26.40
16	Analyses of Lead	@ 0.75	12.00
16	Analyses of Zinc	@ 0.75	12.00
16	Analyses of Nickel	@ 0.75	12.00
16	Analyses of Silver	@ 0.75	12.00
16	Analyses of Gold	@ 4.25	68.00
16	Sample Preparation	@ 1.15	18.40

TOTAL \$160.80 ✓

PRECIOUS METALS

50271 301

160 80

P82 CR R 160 80

llm

to CR

1/1/81

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ACCOUNTS DUE WHEN RENDERED**

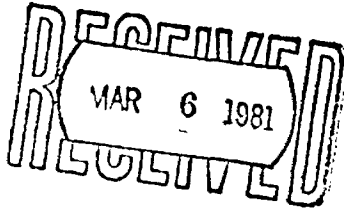
BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited
1414-390 Bay Street

Toronto, Ontario

Attention: Mr. R. McMillan



INVOICE: E 3301

DATE: March 3, 1981

REPORT NO: 218-81

PROJECT:

67

Analyses of Gold

@\$4.25

\$284.75 ✓

PRECIOUS METALS

50271 301

284 75

P82

CR

284.75

mk

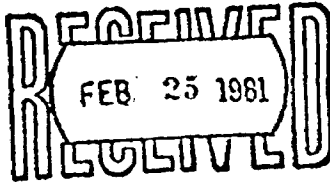
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**THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED**

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited,
1414, 390 Bay Street,
Toronto, Ontario.

Attention: Mr. R. McMillan



INVOICE: E 3069
DATE: February 23, 1981
REPORT NO: 219-81
PROJECT:

19	Analyses of Copper	@ \$1.65	\$31.35
19	Analyses of Lead	@ 0.75	14.25
19	Analyses of Zinc	@ 0.75	14.25
19	Analyses of Nickel	@ 0.75	14.25
19	Analyses of Silver	@ 0.75	14.25
19	Analyses of Gold	@ 4.25	80.75
19	Sample Preparation	@ 1.15	21.85

TOTAL

\$190.95 ✓

PRECIOUS METALS

50271 301		190	95
P80 CR Rm		190	95

Wm
**THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED**

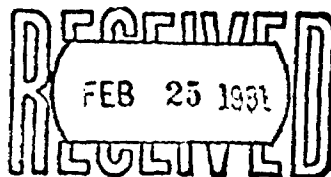
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to CR.

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited,
1414-390 Bay Street,
Toronto, Ontario.

Attention: Mr. R. McMillan.



INVOICE: **E 3067**
DATE: February 23, 1981
REPORT NO: 218-81
PROJECT:

67	Analyses of Copper	@ \$1.65	\$110.65
67	Analyses of Lead	@ 0.75	50.25
67	Analyses of Zinc	@ 0.75	50.25
67	Analyses of Nickel	@ 0.75	50.25
67	Analyses of Silver	@ 0.75	50.25
67	Sample Preparation	@ 1.15	77.05
TOTAL			\$388.70 ✓

PRECIOUS METALS

<i>50271 301</i>	<i>388.70</i>
<i>P80 CR Rm</i>	<i>388.70</i>

**THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED**

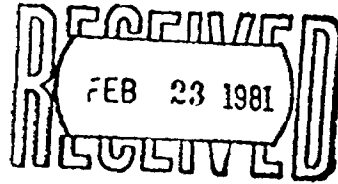
*Rm
to CR.*

BONDAR-CLEGG & COMPANY LTD.

BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited
1414-390 Bay Street
Toronto, Ontario
M5H 2Y2

Attention: Mr. R. McMillan



INVOICE: E 3060
DATE: February 20, 1981
REPORT NO: 173-81
PROJECT:

36	Analyses of Copper	@ \$ 1.65	\$59.40
36	Analyses of Lead	@ .75	27.00
36	Analyses of Zinc	@ .75	27.00
36	Analyses of Nickel	@ .75	27.00
36	Analyses of Silver	@ .75	27.00
34	Analyses of Gold	@ 4.25	144.50
36	Sample Preparations	@ 1.15	41.40
			<u>\$353.30</u> ✓

PRECIOUS METALS

50271 301

353 30

P80 CR Rm

353 30

Rm
to CR.

mk

Wm

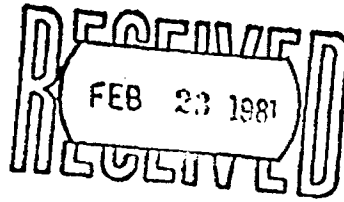
THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited
1414-390 Bay Street
Toronto, Ontario
M5H 2Y2

Attention: Mr. R. McMillan



INVOICE: E 3058

DATE: February 20, 1981

REPORT NO: 175-81

PROJECT:

CREDIT NOTE

To credit Invoice E 2998 Report 175-81 dated February 13, 1981
Sample Preparation charges at 2.00/sample should be 1.15/sample

Credit Amount ----- \$2.55 ✓

PRECIOUS METALS

DETOUR 301 (2.55)

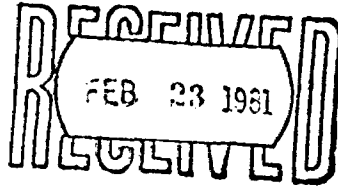
P79 *[Signature]* *[Signature]* (2.55)

[Signature]

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited,
1414- 390 Bay Street,
Toronto, Ontario.
M5H 2Y2



INVOICE: E 3051

DATE: February 20, 1981

REPORT NO: 200-81

PROJECT:

Attention: Mr. R. McMillan

60	Analyses of Copper	@ \$1.65	\$99.00
60	Analyses of Lead	@ 0.75	45.00
60	Analyses of Zinc	@ 0.75	45.00
60	Analyses of Nickel	@ 0.75	45.00
60	Analyses of Silver	@ 0.75	45.00
60	Analyses of Gold	@ 4.25	255.00
60	Sample Preparation	@ 1.15	69.00

TOTAL

\$603.00 ✓

PRECIOUS METALS

50271 301

603 00

P20 CR Rm 603 00 Rm

to C.R.

Am

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

SONDAR-CLEGG & COMPANY LTD.

BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited
 1414-390 Bay Street
 Toronto, Ontario
 M5H 2Y2

INVOICE: **E 3045**
 DATE: February 19, 1981
 REPORT NO: 174-81
 PROJECT:

RECEIVED
 FEB 23 1981
RECEIVED

30	Analyses of Copper	@ \$ 1.65	\$49.50
30	Analyses of Lead	@ .75	22.50
30	Analyses of Zinc	@ .75	22.50
30	Analyses of Nickel	@ .75	22.50
29	Analyses of Gold	@ 4.25	123.25
30	Sample Preparations	@ 1.15	34.50

\$297.25

PRECIOUS METALS

50271 301

297.25

*En to fall
for \$22.50
H*

CR R.M. 297.25

mk

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 ACCOUNTS DUE WHEN RENDERED**

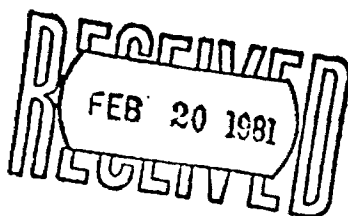
*Wm
 H.C.R.
 R.M.*

BONDAR-CLEGG & COMPANY LTD.

64. BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited
1414-390 Bay Street
Toronto, Ontario
M5H 2Y2

Attention: Mr. R. McMillan



INVOICE: E 3002

DATE: February 16, 1981

REPORT NO: 142-81

PROJECT:

6

Analyses of Gold

@ \$ 4.25

\$25.50 ✓

PRECIOUS METALS

50271 301

25 50

P80 CR

R. McMillan

25 50

mk

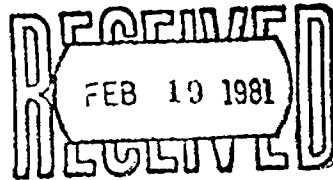
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ACCOUNTS DUE WHEN RENDERED

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Western Mines Limited,
1414- 390 Bay Street,
Toronto, Ontario.
M5H 2Y2



INVOICE: E 3001

DATE: February 16, 1981.

REPORT NO: 141-81

PROJECT:

Attention: Mr. R. McMillan.

54	Analyses of Copper	@ \$1.65	\$89.10
54	Analyses of Lead	@ 0.75	40.50
54	Analyses of Zinc	@ 0.75	40.50
54	Analyses of Nickel	@ 0.75	40.50
54	Analyses of Silver	@ 0.75	40.50
54	Analyses of Gold	@ 4.25	229.50
54	Sample Preparation	@ 1.15	62.10

TOTAL

\$542.70 ✓

PRECIOUS METALS

DETOUR 301

542 70

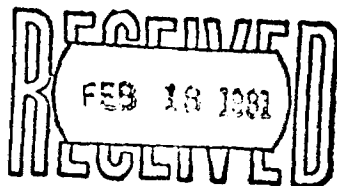
P80 CR *[Signature]* 542 70

Wm
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ACCOUNTS DUE WHEN RENDERED

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited
 1414-390 Bay Street
 Toronto, Ontario
 M5H 2Y2



INVOICE: E 2998

DATE: February 13, 1981

REPORT NO: 175-81

PROJECT:

Attention: Mr. R. McMillan

3	Analyses of Copper	@ \$ 1.65	\$4.95
3	Analyses of Lead	@ .75	2.25
3	Analyses of Zinc	@ .75	2.25
3	Analyses of Nickel	@ .75	2.25
3	Analyses of Silver	@ .75	2.25
3	Analyses of Gold	@ 4.25	12.75
3	Sample preparations	@ 2.00	6.00

\$32.70 ✓

PRECIOUS METALS

DETOUR 301

32 70

P80 CR *[Signature]* 32 70.0

C.R.

mk



BONDAR-CLEGG & COMPANY LTD.

4 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Western Mines Limited
1414-390 Bay Street
Toronto, Ontario
M5H 2Y2
Attention: Mr. R. McMillan

RECEIVED
FEB 16 1981

INVOICE: E 2965
DATE: February 11, 1981
REPORT NO: 142-81
PROJECT:

6	Analyses of Copper	@ \$ 1.65	\$9.90
6	Analyses of Lead	@ .75	4.50
6	Analyses of Zinc	@ .75	4.50
6	Analyses of Nickel	@ .75	4.50
6	Analyses of Silver	@ .75	4.50
6	Sample Preparations	@ 1.15	6.90

\$34.80 ✓

PRECIOUS METALS

DETOUR 301

Detour

3480 Payment

P79 Wm

Approved for
[Signature]

3480

mk

**THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED**



W8106-49918

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of Porcupine Mining Division
Westmin Resources Limited T778

I, name of Recorded Holder Prospector's Licence
390 Bay Street, Suite 1414, Toronto, Ontario. M5H 2Y2.

do hereby report the performance of 14,501.94 days of Overburden Drilling type of work

not before reported to be applied on the following contiguous claims

Table with 6 columns: Claim No., Days, Claim No., Days, Claim No., Days. Contains entries for P.549918-931, P.553303-483, P.553503-574, P.577751-774, P.577792-810 and P.575672-673.

All the work was performed on Mining Claim (s) See attached list "B".
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
For Compressed Air or Other Power Driven or Mechanical Equipment
Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

Footage: 5,473 feet
Operator: Bradley Bros. Ltd., 98, 14th Street, Noranda, Quebec. J9X 5A9.
Cost: \$217,529.04
Work was carried out between January 20 to February 6, 1981.

Date 9 November, 1981. Signature of Recorded Holder or Agent

The Mining Act Certificate Verifying Report of Work

I, C. J. Rockingham
390 Bay Street, Suite 1414, Toronto, Ontario. M5H 2Y2.
(Post Office Address)

hereby certify:

- 1. 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.
2. That the annexed report is true.

Dated 9 November 1981. Signature

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

M-3004

AREA OF

HOPPER LAKE

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND Ⓟ
- CROWN LAND SALE C.S.
- LEASES Ⓛ
- 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 —

NOTES

400' Reserve around all Lakes and Rivers to Dept. of Lands & Forests.

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

Order No.	File	Date	Disposition
NR. W.1/81	18511	15/1/81	S.R.O.

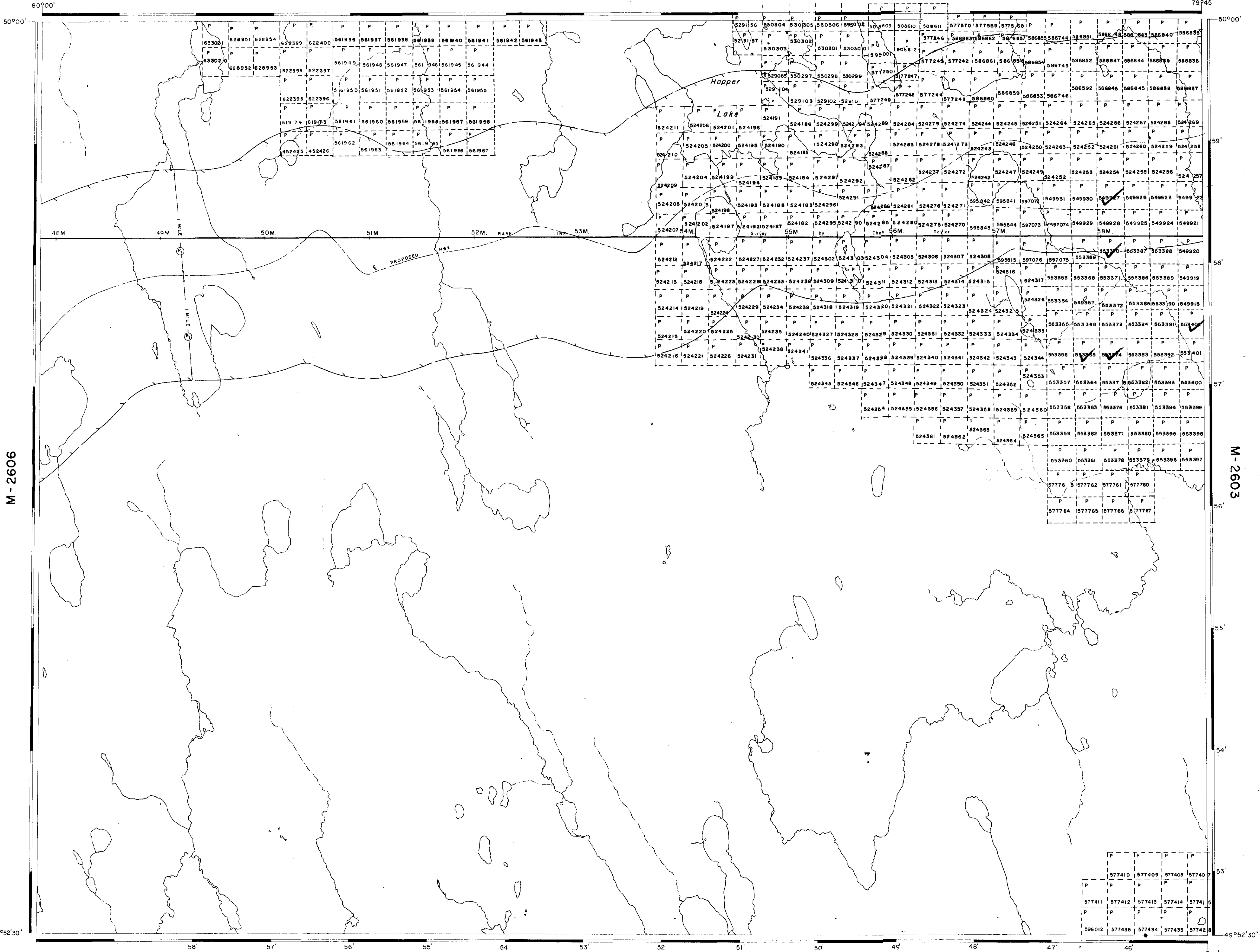
DATE OF ISSUE

FEB 25 1982

Ministry of Natural Resources
TORONTO

PLAN NO. - M.2601

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



M-2606

M-2603

M-2667



32E13NE086 2.4285 HOPPER LAKE

200

498794

24285

SUNDAY LAKE M-3003

AREA OF LOWER DETOUR LAKE

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND Ⓢ
- CROWN LAND SALE Ⓞ
- LEASES Ⓛ
- LOCATED LAND Ⓜ
- LICENSE OF OCCUPATION Ⓛ.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

NOTES

400' Surface rights reservation around all lakes and rivers

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

Order No.	File	Date	Disposition
NR. 1/181	188511	15/1/81	S.R.O.

DATE OF ISSUE

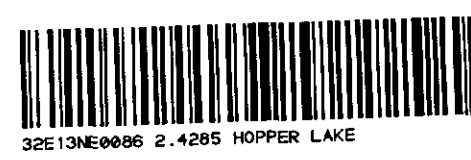
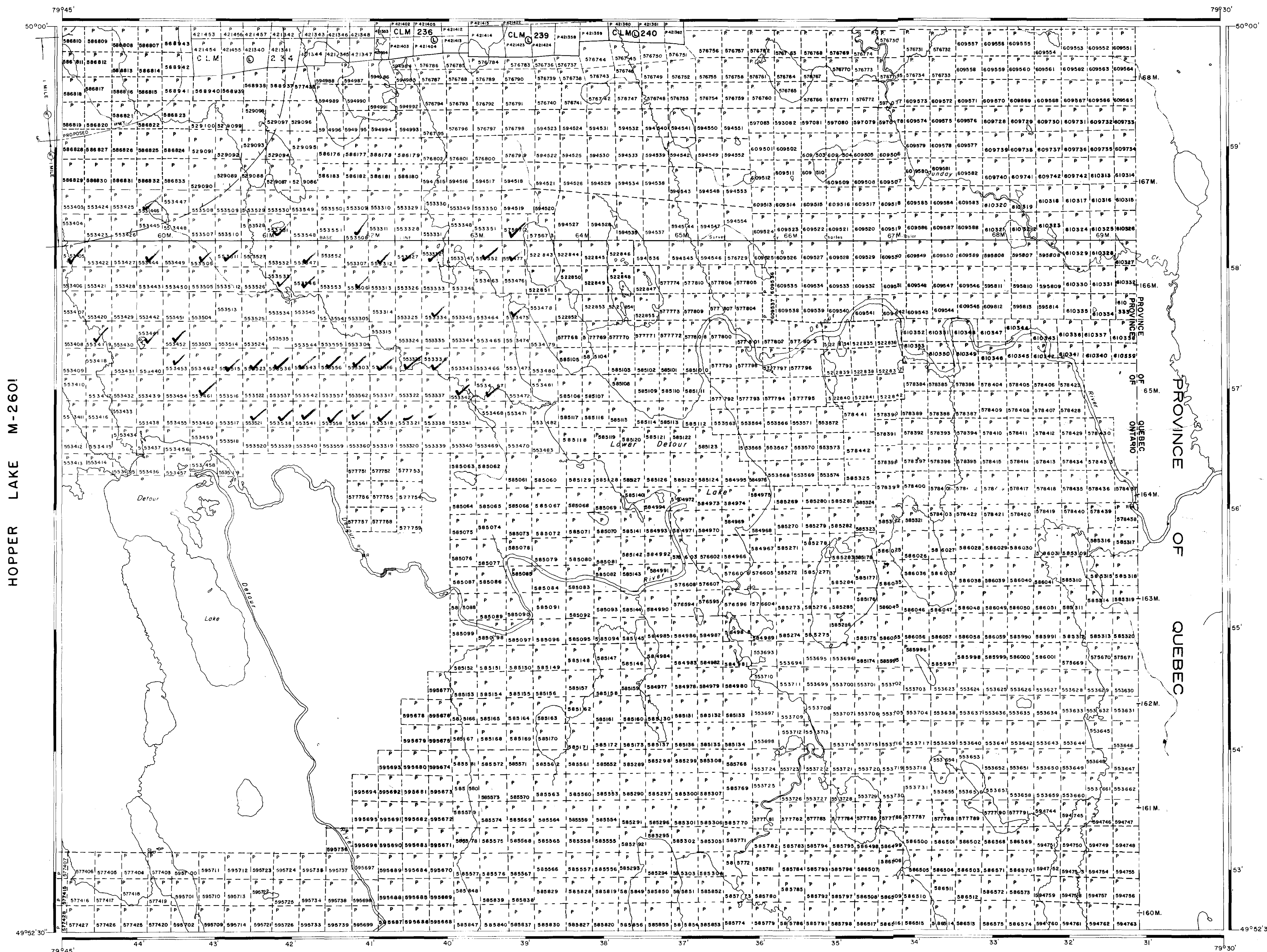
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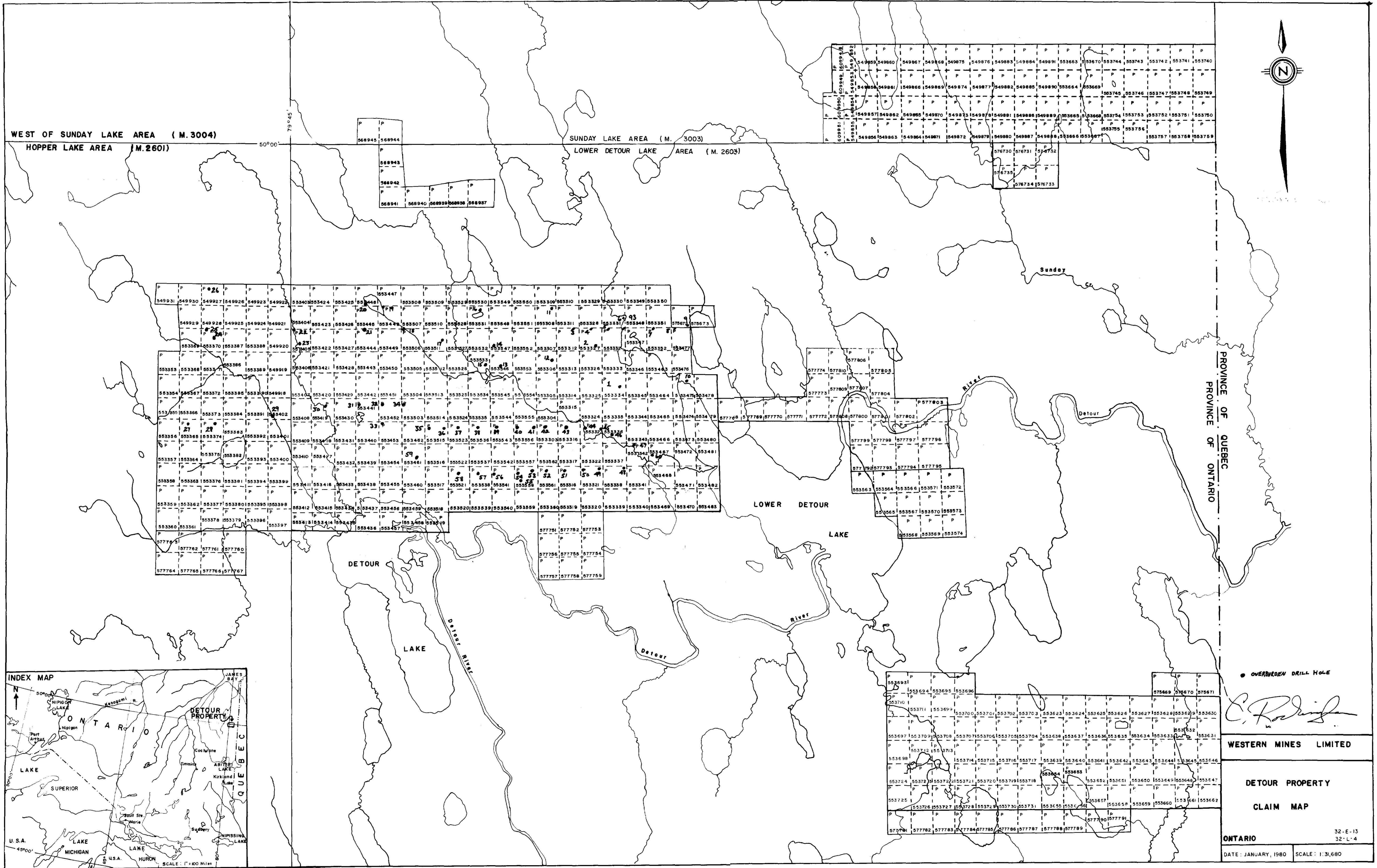
Ministry of Natural Resources TORONTO

NATIONAL TOPOGRAPHIC SERIES 32E13

PLAN NO. - M.2603

ONTARIO MINISTRY OF NATURAL RESOURCES SURVEYS AND MAPPING BRANCH





OVERBIDDEN DRILL HOLE

C. Rodolph

WESTERN MINES LIMITED

DETOUR PROPERTY

CLAIM MAP

ONTARIO

DATE: JANUARY, 1980

SCALE: 1:31,680

32-E-13
32-L-4

