



41115SE0063 0037 RATHBUN

010

Diamond Drilling

Township : RATHBUN

Report NO : 21

Work performed by: REINO L. VIITALA

Claim NO	Hole NO	Footage	Date	Note
S 574962	RV-1	135'	June/84	(1)
	RV-4	137'	July/84	(1)
	<u> </u>	<u> </u>		
TOTAL	2 DH	272 FT		

Notes: (1) #37 - 85

ORIGINAL

RV-I

Page I

DIAMOND DRILL RECORD

Hole No. **RV-I** Length **135 ft** CO-ORDINATES OF COLLAR
 Working Place **RATHBUN TWP** Section **0-20'** Lat.
 Date Finished **JUNE-4, 1984.** Dip **VERT.** Dep.
 Bearing Elevation

SIGNIFICANT INTERSECTIONS

From	To	C.L.	Cu. %	Au. oz./ton	Remarks

Purpose - PROVE STRUCTURE AT DEPTH.

From FT	To FT	DESCRIPTION	Sample No	Width			
0.0	0.5	GREEN, CHLORITIZED META-ARGILLITE. CARBONATE AND Fe- WEATHERING FRG. SURFACE TO 1/4". FRACTURES AT RANDOM.					
0.5	1.0	1/8" CARBONATE CRYSTALS, TR-PYRITE. 60°S, 70°SE JOINTING					
1.0	1.5	CHLORITIZED, PY- ALONG JOINT FACES.					
1.5	2.0						
2.0	2.5	1/2" GRANITIC INCLUSION - GORANDA FORMATION TYPE. CHLORITE RICH WITH TRACE OF PYRITE					
2.5	3.0	40°N JOINTING					
3.0	3.5	CARBONATE ALTERATION					
3.5	4.0	60°S CHLORITE SHEARS AND JOINTING. CARBONATE ALTERATION					
4.0	4.5	WITH TR-PYRITE.					
4.5	5.0						

RECEIVED

Rev. L. Vitt

From FT	To FT	DESCRIPTION	Sample No	Width			
5.0	5.5	SOME QUARTZ INCLUSIONS ALONG 60°S CHLORITIZED SHEARS AND JOINTS.					
5.5	6.0						
6.0	6.5	1/16" QRT, CARB CRYSTALS IN MATRIX OF CHLORITIZED META-ARGILLITE. 60°S - SHEARS & JOINTING. SECONDARY JOINTS AT RANDOM. TR-PYRITE, MAGNETITE. SOME LEACHING OF CARBONA- TE RESULTING IN VUGS. FINE-GRAINED (SILICIOUS) META-ARGILLITE.					
6.5	7.0						
7.0	7.5						
7.5	8.0						
8.0	8.5						
8.5	9.0						
9.0	9.5						
9.5	10.0						
10.0	10.5						
10.5	11.0						
11.0	11.5						
11.5	12.0						
12.0	12.5	INTENSELY FOLDED & JOINTED AT 60°S. SOME 40°N, W SECONDARY JOINTS.					
12.5	13.0						
13.0	13.5	LESS JOINTED, FOLDED					
13.5	14.0						
14.0	14.5	SILICIOUS, VERY FINE GRAINED CARBONATE ALONG 60°S SHEARS AND JOINTS					
14.5	15.0						
15.0	15.5	WATER MOVEMENT & Fe OXIDES ALONG 40°N JOINT FACES. SLIGHTLY SHEARED AT 60°S					
15.5	16.0						

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From	To	DESCRIPTION	Sample No	Width			
16.0	16.5	1/16" CARB-CRYSTALS. CARBONATE ALTERATION (SIDERITE, ANKERITE), LESS SILICIOUS WITH INCREAS- ING CHLORITE CONTENT. Fe-OXIDE ALONG 40, 50°S JOINTS. SOME VUGS. END OF BOX - 1 (0-20')					
16.5	17.0						
17.0	17.5						
17.5	18.0						
18.0	18.5						
18.5	19.0						
19.0	19.5						
19.5	20.0						

Rev. L. Uitto

DIAMOND DRILL RECORD

Hole No. **R-1** Length **135 ft** CO-ORDINATES OF COLLAR
 Working Place **RATHBUNTWD** Section **20-40'** Lat.
 Date Finished **JUNE 4/84** Dip **VERT** Dep.
 Bearing Elevation
 Purpose

SIGNIFICANT INTERSECTIONS

From	To	C.L.	Cu. %	Au. oz./ton	Remarks

From	To	DESCRIPTION	Sample No	Width		
20.0	20.5	FINE-GRAINED GREEN-CHLORITIZED META-ARGILLITE. 50°S-JOINTING WITH Fe-OXIDES ALONG FACES. 1/8" CARB-CRYSTALS. TR-PY, CALCO-PY WITH CARBONATE.				
20.5	21.0	60°S - 1/8" QUARTZ VEIN 60°N - CHLORITE SHEAR. TR-PY, Fe-OXIDES.				
21.0	21.5	30, 40°E JOINTING WITH Fe-OXIDES ALONG FACES. TR-PYRITE CRYSTALS				
21.5	22.0					
22.0	22.5	1/8" GRANITIC INCLUSION → GOGANDA FORMATION TYPE. CHLORITIZED				
22.5	23.0	CHLORITIZED. 50°S, 40°N JOINTING				
23.0	23.5					
23.5	24.0	SAME AS ABOVE. PY; CARB. ALONG 60°S, 50°S SHEARS. QUARTZ FILLING JOINT-FACES.				
24.0	24.5					

Reis. L. Vetch

From	To	DESCRIPTION	Sample No	Width			
24.5	25.0	SAME. TR-PY.					
25.0	25.5	1/4" GRANITIC INCLUSIONS.					
25.5	26.0	SAME					
26.0	26.5	CHLORITIZED STRINGERS AND					
26.5	27.0	SHEARS AT 60°S.					
27.0	27.5	TR-PYRITE					
27.5	28.0						
28.0	28.5	VERTICAL CHLORITE FLOW & SHEARS. CHLORITE AND CARBONATE RICH					
28.5	29.0	1/8" QRT-VEINS AT 30°E.					
29.0	29.5	CHLORITIZED, TR-PYRITE.					
29.5	30.0	VERTICAL CHLORITE SHEARS					
30.0	30.5						
30.5	31.0	20, 40°S JOINTING WITH FE- OXIDES ALONG FACES.					
31.0	31.5	60°S - QRT VEINLETS ASSOCIATED					
31.5	32.0	WITH CHLORITE SHEARS (1/16") SOME UGS.					
32.0	32.5	CHLORITIZED STRINGERS WITH PY & AU SPECS ALONG FACES			→ ASSAY	#1.	(Au)
32.5	33.0	SAME.					
33.0	33.5	TR-PYRITE.					
33.5	34.0	CHLORITIZED					
34.0	34.5						
34.5	35.0	60°S - QRT VEINLETS WITH CHLORITE SHEARS (1/8") TR-CALCO-PY, PY AND AU-SPECS.			→ ASSAY	#2	(Au)

Revised by Vitch

RJ-1

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From	To	DESCRIPTION	Sample No	Width			
35.0	35.5	CHLORITIZED ARGILLITE.					
35.5	36.0	TR - 1/16" PY-CUBES.					
36.0	36.5						
36.5	37.0						
37.0	37.5						
37.5	38.0	60°S - JOINTING WITH CARBONATE					
38.0	38.5	CHLORITIZED					
38.5	39.0	60, 70°S CHLORITE SHEARS.					
39.0	39.5	INTENSELY CHLORITIZED					
39.5	40.0	AND JOINTED ALONG 60°S AXIS WITH RANDOM SECONDARIES.					
		End of Box 2.					

Revised L. V. V. V.

RV-1

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DIAMOND DRILL RECORD

Hole No. RV-I Length 135 ft CO-ORDINATES OF COLLAR
 Working Place RATHBUN TWP Section 40-60' Lat.
 Date Finished JUNE 4/84 Dip VERT. Dep.
 Bearing Elevation
 Purpose

SIGNIFICANT INTERSECTIONS					
From	To	C.I.	Cu. %	Au. oz./ton	Remarks

From	To	DESCRIPTION	Sample No	Width			
40.0	40.5	DARK-GREEN META-ARGILLITE. VERTICAL CHLORITE SHEARS. TR-PYRITE.					
40.5	41.0	CARBONATE-ALTERATION					
41.0	41.5	FINE-GRAINED. PY-CRYSTALS AND IN CLUSTERS. VERT-CHLORITE SHEARS					
41.5	42.0	1/16" CARB-CRYSTALS. 60°S-CHLORITE SHEARS WITH PYRITE					
42.0	42.5	CHLORITIZED TR-BLUE METALLIC?, PY, CALCO.					
42.5	43.0	SAME-DISSIMINATED BLUE METALLIC & PYRITE					
43.0	43.5	60°S-CHLORITE SHEARS					
43.5	44.0	40° N-FE OXIDE COATED					
44.0	44.5	JOINTING. WATER MOVEMENT - ALONG JOINTS.					

→ ASSAY Au, PT #3

Russ. L. V. V. V.

From	To	DESCRIPTION	Sample No	Width			
44.5	45.0	SAME AS ABOVE.					
45.0	45.5	SAME					
45.5	46.0	SAME					
46.0	46.5	INTENSELY CHLORITIZED TR-PY, BLUE-METALLIC. Ag?	→	ASSAY	#4	for Au PT Ag	
46.5	47.0	60°S-CHLORITE SHEARS - SOME BRECCIATION AND CARBONATE CRYSTALS.					
47.0	47.5						
47.5	48.0	CARB- CRYSTALS, CHLORITIZED					
48.0	48.5	DISSIMINATED PYRITE					
48.5	49.0	TRACE- AU SPEC.					
49.0	49.5	INCREASED QUARTZ CONTENT.					
49.5	50.0	TR-PY, BLUE METALLIC.					
50.0	50.5	SILICA-RICH. TR-PY, BLUE METALLIC.					
50.5	51.0	TR- Fe-OXIDE ALONG JOINT FACES.					
51.0	51.5						
51.5	52.0	VERTICAL JOINTS. CHLORITE ALONG JOINTS WITH Fe-OXIDE. TR-PYRITE, HEMATITE.					
52.0	52.5	JOINTS AT 50°S.					
52.5	53.0	QRT, HEM, PY ALONG VERT, HURZ JOINTS.					
53.0	53.5	QRT VEINS 1/16" WITH PY, HEM. JOINTS & SHEARS AT 70°S, 20°E.					

From	To	DESCRIPTION	Sample No	Width			
53.5	54.0	CHLORITIZED WITH FE-OXIDES ALONG 70°S, 20°E SHEARS AND JOINTS					
54.0 54.5	54.5 55.0	CHLORITIZED AND JOINTED. HEM + LIMONITE ALONG JOINTS					
55.0	55.5	LESS ALTERED. 1/16" CARBONATE BLENDS					
55.5 56.0 56.5	56.0 56.5 57.0	VERTICAL CHLORITE SHEARS TR-PYRITE					
57.0	57.5	FE, CARB ALTERATION TR-PY, EPIDOTE ALONG SHEARS					
57.5	58.0	60°S SLIP-JOINTS WITH 1/4" DISPLACEMENT SHEAR-ZONE, INTENSE FRACTURING. SLICKENSIDES ALONG FACES.					
58.0 58.5	58.5 59.0	CHLORITIZED, JOINTED AT 20°E. HEM, LIM ALONG JOINTS. WATER MOVEMENT ALONG JOINTS.					
59.0	59.5	DENSER, MORE SILICIOUS ARGILLITE LESS ALTERED					
59.5	60.0	60°S CHLORITE SHEARS CUTTING SILICIOUS METH-ARGILLITE.					
		End of Box 3.					

RV-I

Py-10

DIAMOND DRILL RECORD

Hole No. RV-I Length 135 ft CO-ORDINATES OF COLLAR
 Working Place RATHBUN TWP Section 60-80' Lat.
 Date Finished JUNE-4/84 Dip VERT. Dep.
 Bearing Elevation
 Purpose

SIGNIFICANT INTERSECTIONS					
From	To	C.I.	Cu. %	Au. oz./ton	Remarks

From	To	DESCRIPTION	Sample No	Width			
60.0	60.5	SLIGHTLY ALTERED (CHLORITIZED) META-ARGILLITE. TR-PY, CARB-ALTERATION					
60.5	61.0	60,800'S CHLORITE SHEARS. TR-PY.					
61.0	61.5	80'S CHLORITE SHEARS, 30'S - 1/16" QRT-VEIN (FRACTURE FILLING WHITE-QUARTZ)					
61.5	62.0	20,30'S FRACTURES ALONG JOINTS					
62.0	62.5	Fe, CARB ALTERATION. TR-HEM.					
62.5	63.0	20,40'S FE-OXIDE COATED JOINTS.					
63.0	63.5	TR-PY, CALCO-PY, HEM.					
63.5	64.0	-FELSIC-INCLUSION WITH CALCO PY. 1/16" PYRITE CRYSTALS.					
64.0	64.5	DISSEMINATED PYRITE THRU-OUT.					
64.5	65.0	SILICIOUS.					
65.0	65.5	DISSIMINATED PY. 30'S, 30'E JOINTS AND SHEARS WITH HEM, PY ALONG JOINT FACES.					

→ ASSAY # (5) for Au.

Rein. L. Vittko

R-I

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From	To	DESCRIPTION	Sample No	Width			
65.5	66.0	1/2" QRT, CARB VEINS. VAGGY, HEM, PYRITE. CHLORITIZED SHEARS ALONG HANGING WALL. 1/4" WALL ROCK ALTERATION ON BOTH SIDES.			ASSAY → AU	# 6	
66.0	66.5	50'S - QRT VEINLETS WITH HEM, PY.					
66.5	67.0	SAME, PYRITE & HEM			ASSAY → AU	# 7	
67.0	67.5	60'S - 1/8" CHLORITIC - QRT VEIN WITH ASSOCIATED PY, IN CLUSTERS AND CRYSTALS. TR - HEM, AU - SPECS.			ASSAY → AU	# 8	
67.5	68.0	SAME, DISSIMINATED PYRITE. 50'S - JOINTS; SHEAR WITH FE-OXIDES ALONG FACES.					
68.0	68.5	SLIGHTLY ALTERED (ONLY). SILICIOUS					
68.5	69.0	VERT - CHLORITE SHEAR (1/4"), TR - PY. JOINTS - JOINTING WITH FE-OXIDES ALONG FACES. INCREASED CARBONATE CONTENT.					
69.0	69.5	1/4" CHLORITE SHEAR - VERTICAL. SECONDARY JOINTS AT 20, 40'S.					
69.5	70.0	SAME, TR - PY.					
70.0	70.5	FINE HEMATITE ALONG JOINTS.					
70.5	71.0	50'S - SLIP-JOINTS, SERPENTINE AND SLICKENSLIDES ALONG FACES. TR - PY, HEM.					

Rein. L. Vintels

R-I

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From	To	DESCRIPTION	Sample No	Width			
71.0	71.5	30°N JOINTING WITH Fe-OXIDES					
71.5	72.0	SILICIOUS, DENSE FINE-GRAINED META-ARGILLITE.					
72.0	72.5	RANDOM FRACTURING, TR-FINE PYRITE.					
72.5	73.0	60°S CHLORITE SHEAR + INCLUSIONS, TR-PY.					
73.0	73.5	INCREASED CARBONATE CONTENT, TR-PY.					
73.5	74.0	SAME.					
74.0	74.5	SAME.					
74.5	75.0	80°S - 1/16" QRT-FILLED JOINTS WITH FINE PYROPHILITE.					
75.0	75.5	60°S - CHLORITE SHEARS, SERPENTINE, SLIP-JOINTS. HEM ALONG JOINTS. TR - MARSHITE, MILLERITE, PY.					
75.5	76.0	60, 30°S JOINTS. HEM - PY ALONG JOINTS. WATER MOVEMENT ALONG JOINTS.					
76.0	76.5	20°S, 20°N JOINTS. CHLORITE + SERPENTINE. 1/8" BLEBS OF PY, AU-SPECS IN IT.	ASSAY			→ AU # 9	
76.5	77.0	SAME AS ABOVE. VERT - CHLORITE SHEAR. 20°S - 1/16" QRT VEIN.					
77.0	77.5	HEM STAINS ALONG FRACTURES, JOINTS.					
77.5	78.0	HEM ALONG VERTICAL JOINTS.					
78.0	78.5	SILICIOUS, META-ARGILLITE.					

Rev. I. W. H.

From	To	DESCRIPTION	Sample No	Width			
78.5	79.0	CHLORITIZED 20,30°S JOINTS WITH HEM. CARB-ALTERATION.					
79.0	79.5	20°S, 30°N - QRT, HEM FRACTURE FILLING & JOINTING. 40°S, 40°N - QRT, HEM FRACTURE FILLING & JOINTING. WATER MOVEMENT. HEM ALONG ALL JOINT FACES.					
79.5	80.0	CHLORITE-BRECCIA, WITH PY-CRYSTALS. DISSIMINATED PYRITE. BRECCIA FLOW AT 70°S AXIS. TR-HEM.					→ ASSAY for Au → #10
		End of box 4.					

RV-I

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DIAMOND DRILL RECORD

Hole No. RV-I Length 135 ft CO-ORDINATES OF COLLAR
 Working Place RATHBUN TWP Section 80-100' Lat. _____
 Date Finished JUNE-4/84. Dip VERT. Dep. _____
 Bearing _____ Elevation _____
 Purpose _____

SIGNIFICANT INTERSECTIONS

From	To	C.L.	Cu. %	Au. oz./ton	Remarks

From FT	To FT	DESCRIPTION	Sample No	Width			
80 +		- CONTACT AT 81.0 ft TO CARBONATE ENRICHMENT-ZONE IN ARGILLITE. - CONTACT AT 84.5 ft TO HANGING-WALL (CHLORITIC) OF QRT-CARB VEIN. - CONTACT AT 85.5 ft TO FOOTWALL (HEM-STAINED) OF QRT-CARB VEIN. - CONTACT AT 91.5 ft FROM CARBONATE ENRICHMENT-ZONE TO A DARKER, GREEN DENSE AND MORE SILICIOUS ARGILLITE.					
80.0	80.5	BRECCIATED CHLORITE, CARBONATE RICH ARGILLITE, TR-PY (CRYSTALS)					
80.5	81.0	CONTACT BETWEEN CHLORITE RICH TO ARGILLITE AT 60'S. DISSIMINATED-PY.					
81.0	81.5	40, 60'S JOINTING. HEM, PY IN CLUSTERS ALONG JOINT FACES.					
81.5	82.0	DISSIMINATED PY IN CARBONATE RICH ZONE,					

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From	To	DESCRIPTION	Sample No	Width			
82.0	82.5	HIGHLY FRACTURED AND JOINTED AT 50°S, 30°W AND 60°S, 50°W AXES.					
82.5	83.0	TR-PY, HEMATITE.					
83.0	83.5	60°S - 1/8" QRT, CARB, HEM VEIN. UUGS, FINE PYRITE.					
83.5	84.0	50°S - CHLORITE SHEAR WITH QRT, HEM, SERPENTINE ALONG IT.					
84.0	84.5	HANGING WALL CONTACT TO 60°S - DIPPING QRT/CARB VEIN. WHITE QRT, STRONGLY BRITTLE & FRACTURED WITH PY, UUGS, HEM.				→ ASSAY for Au	# 11
84.5	85.0	QUARTZ-VEIN - WHITE. HEM ALONG BRITTLE - FRACTURES. TR-PY, MARCASITE.				→ ASSAY for Au	# 12
85.0	85.5	SAME AS ABOVE.				→ ASSAY for Au	→ # 13
85.5	86.0	60°S - CONTACT OF QUART/CARB VEIN TO CARBONATE RICH ARGILLITE. (FOOTWALL CONTACT), TR - HEM, PY. NO DEFORMATION OR ALTERATION - CLEAN CONTACT					
86.0	86.5	60°S - CHLORITE SHEARS. CARB-RICH ARGILLITE. FINE, FRACTURES.					
86.5	87.0	FOLIATED ALONG 60°S AXIS.					
87.0	87.5	CHLORITIZED ALONG 60°S WITH HEM ALONG IT. QRT - INCLUSIONS.					
87.5	88.0	FINE - FRACTURES. TR - PY.					
88.0	88.5	INCREASED FINE - PY CONTENT. FRACTURED - CARB RICH ZONE.					

Rev. I. V. A.

From	To	DESCRIPTION	Sample No	Width			
88.5	89.0	QRT-INCLUSIONS, PY-CLUSTERS					
89.0	89.5	DISSIMINATED PY.					
89.5	90.0	DISSIMINATED PY, (CLUSTER & CRYSTALS ALSO)					
90.0	90.5	80°S FRACTURING, QRT ALONG IT. PY-IN DISSIMINATED & CRYSTAL FORM.	TR-HEM.				
90.5	91.0	SAME, 1/8" PY CRYSTALS, CLUSTERS					
91.0	91.5	CONTACT AT 60°S WITH CARBONATE ENRICHED ZONE TO DARK GREEN, FINE-GRAINED TROILLITE. CONTACT IS GRADUAL, DIFFUSE. (OVER 6"). -PY, HEM ALONG FINE FRACTURES ALONG CONTACT.				→ ASSAY for Au - #14	
91.5	92.0	80°S JOINTING WITH HEM.					
92.0	92.5	SAME. HEM ALONG JOINT FACES.					
92.5	93.0	80°S - CHLORITE SHEAR.					
93.0	93.5	QRT, PY, HEM ALONG JOINTS.					
93.5	94.0						
94.0	94.5	40, 70°S SHEARS & FRACTURES WITH HEM & PY, SOME VERTICAL FRACTURES					
94.5	95.0	HORIZ, 60°S CHLORITE SHEARS, JOINTS AND FRACTURES					
95.0	95.5	TR-PY.					
95.5	96.0	SAME.					
96.0	96.5	SAME.					
96.5	97.0	SAME.					

From	To	DESCRIPTION	Sample No	Width			
97.0 97.5	97.5 98.0	60°S - CHLORITE SHEAR. 1/8" QRT VEIN WITH CHALC-PY.					
98.0 98.5	98.5 99.0	CHLORITIZED, 80°S, VERT FRACTURES - PY, HEM ALONG JOINTS.					
99.0 99.5	99.5 100.0	DENSE, FINE-GRAINED SILICIOUS META-ARGILLITE HORIZ, 70°S JOINTS AND FRACTURES.					
		End of box 5.					

Rein. L. Vith

R-I.

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DIAMOND DRILL RECORD

Hole No. **RV-I** Length **135 ft** CO-ORDINATES OF COLLAR
 Working Place **RATHBUNTWP.** Section **100-120'** Lat.
 Date Finished **JUNE-4/84.** Dip **VERT.** Dep.
 Bearing Elevation
 Purpose

SIGNIFICANT INTERSECTIONS					
From	To	C.L.	Cu. %	Au. oz./ton	Remarks

From	To	DESCRIPTION	Sample No	Width		
100.0	100.5	80°S, VERT, RANDOM JOINTING IN GREEN				
100.5	101.0	FINE-GRAINED META-ARGILLITE.				
101.0	101.5	JOINT FILLING BY, QRT, PY, MARCASITE.				
101.5	102.0	SAME, WITH HEM, PY, MARCASITE.				
102.0	102.5					
102.5	103.0	SAME.				
103.0	103.5	30°S RANDOM JOINTING.				
103.5	104.0	FE-OXIDES ALONG JOINTING.				
104.0	104.5	30°S JOINTING WITH TRS-CALCOPYRITE.				
104.5	105.0	CHLORITE SHEARS, VERT RANDOM.	TR-CALCO-SPECS.			
105.0	105.5	CHLORITE SHEARS, TR-PY, CALCO, HEM, K-FELDS.				
105.5	106.0	SLIP-FAULTING ALONG SHEARS.				
106.0	106.5	40°W, 50°S-JOINTS WITH HEM, CHLORITIZED.				
106.5	107.0	50°S, 30°E JOINTING WITH CHLORITE & HEM. TR-CALCO, K-FELDS. K-FELDS POSSESS THE DEEP PINK-RECOOKED APPEARANCE.				

→ ASSAY for Au — #15

Rev. L. Vittor

From	To	DESCRIPTION	Sample No	Width			
107.0	107.5	30°E, 20°N JOINTING, CHLORITIZED, TR-PY.					
107.5	108.0	80, 60, 40°S JOINTING, + SHEARS.					
108.0	108.5	CHLORITE BRECCIA - ZONE.					
108.5	109.0	QRT, K-FELDS ALONG JOINTS. TR-PY.					
109.0	109.5	60°S - CHLORITE SHEAR, TR-PY.					
109.5	110.0	30°S, 30°N CHLORITE SHEARS + JOINTING. INCREASED SILICA CONTENT.					
110.0	110.5	30°S, 40°S JOINTS WITH HEM ALONG FACES. VERTICAL CHLORITE SHEARS, DISPLACED 1/4" ALONG SHEAR AXIS.					
110.5	111.0	60°S CHLORITE SHEARS					
111.0	111.5	TR-PY, HEM					
111.5	112.0	INCREASED HEMATITE CONTENT ALONG JOINTS & MATRIX.					
112.0	112.5	SHEARED & FRACTURED.					
112.5	113.0	SAME					
113.0	113.5	SAME					
113.5	114.0	SLIGHTLY LESS ALTERED, TR-PY.					
114.0	114.5	40°S, 40°N CHLORITE SHEARS, JOINTING.					
114.5	115.0	HEM + SERPENTINE ALONG JOINTS.					
115.0	115.5	CHLORITIZED, HEM, SERPENTINE ALONG					
115.5	116.0	60°S, 40°E JOINTS.					
116.0	116.5	SAME					
116.5	117.0	SAME					
117.0	117.5	1/8" - 60°S CHLORITE, HEM SHEAR. TR-PY.					
117.5	118.0	LESS ALTERED.					

From	To	DESCRIPTION	Sample No	Width			
118.0	118.5	LESS JOINTED AND FRACTURED					
118.5	119.0	40°S, 30°W CHLORITE FRACTURES.					
119.0	119.5	CARBONATE ALTERATION					
119.5	120.0	DARK-GREEN META-ARGILLITE					
		End of box 6.					

R-I

pg 21.

DIAMOND DRILL RECORD

Hole No. RV-I	Length 135 ft.	<u>CO-ORDINATES OF COLLAR</u>		SIGNIFICANT INTERSECTIONS					
Working Place RATHBUN TWP.	Section 120-135'	Lat.		From	To	C.L.	Cu. %	Au. oz./ton	Remarks
Date Finished JUNE-4/84	Dip VERT	Dep.							
Purpose	Bearing	Elevation							

From	To	DESCRIPTION	Sample No	Width			
120.0	120.5	60'S, 30°E CHLRITE SHEARS.					
120.5	121.0	CARB- ALTERATION, FE- ALTERATION (HEM)					
121.0	121.5	DARK- GREEN META- ARGILLITE.					
121.5	122.0	70'S, HURE- HEM COATED JOINTING.					
122.0	122.5	CHLORITIZED, CARB- ALTERATION					
122.5	123.0	CHLORITIZED,					
123.0	123.5	HEM, QRT ALONG FRACTURES.					
123.5	124.0	TR- PY.					
124.0	124.5	SAME					
124.5	125.0	SAME					
125.0	125.5	SAME					
125.5	126.0	SAME					
126.0	126.5	SAME BUT- LESS ALTERED					
126.5	127.0	- LESS FRACTURED.					
127.0	127.5						
127.5	128.0						
128.0	128.5	TR- PY ALONG CHLORITE SHEARS					

Hole No. ...

Logged By *Russ. L. Vitt*

R-I

pg 22.

From	To	DESCRIPTION	Sample No	Width			
128.5	129.0	60°S, 60°N CHLORITE SHEARS WITH HEM, QRT.					
129.0	129.5	-20°S JOINTS WITH HEM ALONG					
129.5	130.0	JOINT FACES,					
130.0	130.5	LESS ALTERED					
130.5	131.0	SAME					
131.0	131.5	SAME					
131.5	132.0	70°S, HORIZ JOINTING WITH HEM ALONG IT.					
132.0	132.5	SAME					
132.5	133.0	SAME WITH TR-PY.					
133.0	133.5	30, 40°S JOINTING WITH					
133.5	134.0	HEM & PY,					
134.0	134.5	60°S - 1/8" QRT VEIN WITH K-FELDS, HEM & PY.					
134.5	135.0	1/2" GRANITIC INCLUSION WITH PY, CALCO-PY, MARCASITE, DARK, GREEN, CHLORITIZED ARGILLITE. FINE-GRAINED					
		End of Hole R-I -should have been drilled deeper.					

ORIGINAL

R-4,

pg I,

DIAMOND DRILL RECORD

Hole No. R-4 Length 137 FT. CO-ORDINATES OF COLLAR
 Working Place RATHBUN TWP. Section 0-20' Lat.
 Date Finished JULY-21, 1984. Dip 45° N. Dep.
 Bearing _____ Elevation _____

SIGNIFICANT INTERSECTIONS

From	To	C.L.	Cu. %	Au. oz./ton	Remarks

Purpose PROVE STRUCTURE AT DEPTH.

From	To	DESCRIPTION	Sample No	Width		
		META-ARGILLITE. - CONTACT AT 15.0' TO CARBONATE ENRICHED ZONE. - CONTACT AT 16.0' TO 6" QRT-CARB VEIN. - CONTACT AT 17.5-18.5 TO LOWER LIMIT OF CARBONATE ENRICHED ZONE.				
0.0	0.5	1/4" SURFACE WEATHERING. CARB & FE ALTERATION. 60°S JOINTS & FRACTURES.				
0.5	1.0	CHLORITIZED. CARB-ALTERATION.				
1.0	1.5	SAME.				
1.5	2.0	40°S - JOINTING.				
2.0	2.5	30°S - JOINTING.				
2.5	3.0	VERT - CHLORITE SHEAR. TR-CALCO PYRITE				

RECORDED

From	To	DESCRIPTION	Sample No	Width			
3.0	3.5	Fe-oxide along 40°S joints.					
3.5	4.0	30°S chlorite shear.					
4.0	4.5	40°S - jointing, with Fe-oxides.					
4.5	5.0	ugs, chloritized, carb-alteration.					
5.0	5.5	30°S, 30°N chlorite shears, chloritized.					
5.5	6.0	foliations at 50°S axis.					
6.0	6.5	highly fractured & jointed at					
6.5	7.0	vert and 60°S axis.					
7.0	7.5	highly fractured at					
7.5	8.0	30, 40, 60, vert, south & north, axis.					
8.0	8.5	foliated, laminations of chloritized					
8.5	9.0	argillite.					
9.0	9.5						
9.5	10.0	same - -					
10.0	10.5	30, 60°S jointing. TR-Hem.					
10.5	11.0	carbonate alteration.					
11.0	11.5	60°S foliations of bedding planes in					
11.5	12.0	argillite.					
12.0	12.5	60°S foliated bedding of					
12.5	13.0	chloritized argillite.					
13.0	13.5	TR - fine py.					

From	To	DESCRIPTION	Sample No	Width			
13.5	14.0	60°S, 60°N CHLORITE SHEARS					
14.0	14.5	60°S - 1/16" QRT VEIN. WHITE QRT.					
14.5	15.0	60°S - CHLORITE SHEARS.					
15.0	15.5	60°S - CHLORITE SHEARS INCREASED CARB CONTENT. TR-PY. CARBONATE ENRICHED ZONE.					
15.5	16.0	60°N, 60°S CHLORITE SHEARS CUT BY 3/8" QRT-CARB VEINS VEIN CONTAINS CLEAR MICH, QRT, CARB - PINK, HEM.				ASSAY → AH # (1)	
16.0	16.5	20°S - WHITE QRT VEIN (4.5") TR - CARB, HEM, MICH, UGGS. Fe-OXIDE + SILICA ALONG FOOTWALL OF VEIN.				ASSAY → AH - # (2)	
16.5	17.0	60°S - SHEARS. TR-FINE PY.					
17.0	17.5	BOTTOM OF SILICA + CARB ENRICHED ZONE NEAR VEIN. 60°S CHLORITE SHEARS. TR - BLUE METALLIC, PY, BORNITE CONTACT TO DARK GREEN CHLORITIZED ARGILLITE.				ASSAY → AH - # (3)	
17.5	18.0	60°S - CHLORITE SHEARS.					
18.0	18.5	SAME CHLORITE FLOW + INCLUSIONS ALONG SHEAR AXIS.					
18.5	19.0	SAME AS ABOVE 40°N - 1/16" - QRT, K-FELDS VEINLET.					
19.0	19.5	SAME AS ABOVE.					
19.5	20.0	CARBONATE ALTERATION. DARK - GREEN META - ARGILLITE.					
		End of Box 1.					

R-4.

pg 4.

DIAMOND DRILL RECORD

Hole No. RU-4 Length 137 FT. CO-ORDINATES OF COLLAR
 Working Place RATHBUN TWP. Section 20-40' Lat.
 Date Finished JULY-21. 84. Dip 45°N. Dep.
 Bearing Elevation
 Purpose

SIGNIFICANT INTERSECTIONS					
From	To	C.L.	Cu. %	Au. oz./ton	Remarks

From	To	DESCRIPTION	Sample No	Width		
20.0	20.5	60°S, CHLORITE SHEARS.				
20.5	21.0	30°N - BRECCIATED FLOW, FAULTED, SLICKENSIDES. 60°S - 1/16" QRT VEIN.				
21.0	21.5	BRECCIATED WITH 60°S, 60°S CHLORITE SHEAR ZONES.				
21.5	22.0	QRT, FELDS, Fe-OXIDES, HEM, LIMONITE ALONG SHEARS				
22.0	22.5	40°S, N - KINK FOLDED WITH PINK-QRT ALONG BRECCIATED PLANES. CHLORITIZED. HEM & LIM ALONG SHEARS.				
22.5	23.0	MISSING CORE.				
23.0	23.5	60°S CHLORITE SHEARS AND				
23.5	24.0	JOINTS.				
24.0	24.5	LESS ALTERED. DARK-GREEN ARGILLITE.				
24.5	25.0	VERT-JOINTS, 60°S CHLORITE SHEARS. TR-PY.				
25.0	25.5	SAME AS ABOVE PY & PINK QRT ALONG JOINT FACES				
25.5	26.0	60°S, VERT CHLORITE SHEARS.				

From	To	DESCRIPTION	Sample No	Width			
26.0	26.5	SAME, TR-PY, CALCO-PY, ALONG SHEARS.					
26.5	27.0	60°S CHLORITE SHEARS, 40°N FRACTURES WITH PINK-QRT.					
27.0	27.5	SAME, CHLORITIZED, SHEARS MARKS ALONG JOINTS.					
27.5	28.0	SAME, HEM, LIM ALONG JOINTS.					
28.0	28.5	SAME					
28.5	29.0	HEM ALONG JOINTS					
29.0	29.5	SAME					
29.5	30.0	SAME } BRECCIATED & JOINTED.					
30.0	30.5	SAME					
30.5	31.0	FRACTURED & JOINTED. 70°S, 60°S, 40°N.					
31.0	32.5	TR-PY, CALCO					
31.5	32.0	QRT, HEM ALONG JOINTS.					
32.0	32.5	BRECCIATED					
32.5	33.0	BRECCIATED, CHLORITIZED					
33.0	33.5	60°S, 60°N CHLORITE SHEARS.					
33.5	34.0	SAME, 60°N, 60°S SHEARS					
34.0	34.5	BRECCIATED - CHLORITIZED ARGILLITE.					
34.5	35.0	SAME					
35.0	35.5	SAME					
35.5	36.0	SAME - PINK QRT ALONG SOME BRECCIA PLANES.					
36.0	36.5	INTENSIVELY CHLORITIZED, HEM ALONG SHEARS.					
36.5	37.0	CARBONATE ALTERATION. 40°S, 50°N JOINTING AND CHLORITE SHEARS.					

R-4.

pg 6.

From	To	DESCRIPTION	Sample No	Width			
37.0 37.5	37.5 38.0	CARBONATE ALTERATION HEM, LIMONITE ALONG JOINTS.					
38.0 38.5	38.5 39.0	60°S, VERT CHLORITE SHEARS. HEMATITE ALONG PLANES & JOINTS.					
39.0 39.5	39.5 40.0	SAME DARK GREEN, CHLORITIZED, MEDIUM GRAINED ARGILLITE. 60°S, 60°N SHEARS AND JOINTS. BRECCIATED					
		End of Box 2.					

R-4,

pg 7.

DIAMOND DRILL RECORD

Hole No. RU-4 Length 137 ft CO-ORDINATES OF COLLAR
 Working Place RATHBUN TWP Section 40-60' Lat.
 Date Finished JULY 21, 1985. Dip 45°N Dep.
 Bearing 45°N Elevation
 Purpose

SIGNIFICANT INTERSECTIONS

From	To	C.L.	Cu. %	Au. oz./ton	Remarks

From	To	DESCRIPTION	Sample No	Width			
40.0	40.5	VERT, 70°S JOINTS. HEM ALONG JOINT FACES. META-ARBILLITE.					
40.5 41.0	41.0 41.5	80°S, 40°N JOINTING. TR-PY, HEM. SOME CHLORITE AND QRT ALONG JOINTS.					
41.5 42.0	42.0 42.5	SAME, CHLORITIZED, HEM ALONG JOINTS. SERPENTINE ALONG SHEARS.					
42.5 43.0	43.0 43.5	CHLORITIZED, CARB-ALTERATION. FE-OXIDES. TR-PY.					
43.5 44.0 44.5	44.0 44.5 45.0	60, 50°S CHLORITE SHEARS WITH QRT. TR-PY. BRECCIATED.					
45.0 45.5	45.5 46.0	70°S, 40°E CHLORITE SHEARS WITH QRT & HEM. TR-PY, CALCO-PY.					
46.0 46.5 47.0 47.5	46.5 47.0 47.5 48.0	BRECCIATED AT 70°S. 60°S, 70°E CHLORITE SHEARS. QRT, HEM. ALONG SHEARS.					

Rev. L. Veth.

From	To	DESCRIPTION	Sample No	Width		
48.0	48.5	60°S, 60°E CHLORITE SHEARS (BRECCIATED) INTENSELY CHLORITIZED → ≈ 60% CHLORITE CONTENT. INTENSELY BRECCIATED → "SUDBURY BRECCIA" TYPE OCCURRENCE. SAME				
48.5	49.0					
49.0	49.5					
49.5	50.0					
50.0	50.5					
50.5	51.0	60°S, 40°N CHLORITE SHEARS. SAME CARBONATE ALTERATION				
51.0	51.5					
51.5	52.0					
52.0	52.5	60°S - CHLORITE AND (QUARTZ) SHEARS, CARB, FE-ALTERATION.				
52.5	53.0					
53.0	53.5	SAME AS ABOVE. WATER FLOW MARKS ALONG JOINTS. TR-LIMONITE ALONG JOINTS.				
53.5	54.0					
54.0	54.5	1/4" DISPLACEMENT ALONG CHLORITE SHEARS. TR-PY, MAGNETITE.				
54.5	55.0					
55.0	55.5	60°S CHLORITE JOINTS, 60°W JOINTS WITH QRT. 1/16" HORIZ QRT VEIN, TR-CALCO-PY. BRECCIATED.				
55.5	56.0					
56.0	56.5					
56.5	57.0					
57.0	57.5	60°S CHLORITE SHEARS, 70°N CHLORITE SHEAR WITH AU-SPECS. ASSAY → Au (4)				
57.5	58.0					
58.0	58.5	60°S CHLORITE SHEARS, 40°E-JOINTING. HEM & LIM. HIGHLY FRACTURED AT 60°S, CHLORITE INCLUSIONS WITH TR-CALCO-PY. CHLORITIZED META-ARBILLITE Panel of Box 3.				
58.5	59.0					
59.0	59.5					
59.5	60.0					
60.0						

RV-4.

page 9.

DIAMOND DRILL RECORD

Hole No. RV-4.

Length 137 FT

CO-ORDINATES OF COLLAR

SIGNIFICANT INTERSECTIONS

Working Place

Section

Lat.

From

To

C.L.

Cu. %

Au. oz./ton

Remarks

RATHBUN TWP.

60-80'

Date Finished

Dip

Dep.

JUNE-21, 1984.

450N

Bearing

Elevation

Purpose

From

To

DESCRIPTION

Sample No

Width

60.0

60.5

60, 70°S CHLORITE SHEARS.

60.5

61.0

SECONDARY SHEARS AND JOINTS AT RANDOM.

61.0

61.5

VR-PY.

61.5

62.0

1/16" WHITE, QRT VEIN AT 50°SE. CARB-ALTERATION.

62.0

62.5

SLUMPING ALONG BEDDING PLANES

62.5

63.0

OF META-ARGILLITE, CHLORITIZED.

63.0

63.5

CARB-ALTERATION, HEM ALONG SHEARS AT 60°S, VERT.

63.5

64.0

INTENSELY CHLORITIZED (≈60% CHLORITE CONTENT), BRECCIATED.

64.0

64.5

BRECCIATED

64.5

65.0

Fe-HEM, QRT ALONG FRACTURES AND JOINT FACES.

65.0

65.5

BRECCIATED

65.5

66.0

Fe, QRT ALONG FRACTURES & JOINTS.

66.0

66.5

CARB-ALTERATION

66.5

67.0

67.0

67.5

60°S, VERT CHLORITE SHEARS.
CHLORITIC.

Hole No.

Rev. X. Usitola

From	To	DESCRIPTION	Sample No	Width		
67.5	68.0	INTENSELY CHLORITIC ALONG 60°S AXIS.				
68.0	68.5	1/16" QRT-VEIN AT 60°W. BRECCIATED FLOWS.				
68.5	69.0	RE-CRYSTALLIZED CARBONATE.				
69.0	69.5	HANGING WALL CONTACT TO WHITE-QRT VEIN AT 60°S.				
69.5	70.0	CARB- ALTERATION, TR- PY, CALCO-SPECS. BRITTLE QRT, FRACTURED AT RANDOM FOOTWALL AT Δ 70.0'				- ASSAY for Au (5)
70.0	70.5	CHLORITIZED, SHEARED 60°S.				
70.5	71.0	VERT FRACTURES				
71.0	71.5	CARB- ALTERATION.				
71.5	72.0	CHLORITIZED ALONG 60°S AXIS.				
72.0	72.5	CHLORITIZED, CARB-ALTERATION.				
72.5	73.0	HEM, ALONG JOINTS 60-80°E,				
73.0	73.5	60°S SHEARS.				
73.5	74.0	60-70% CHLORITE, CARB-CRYSTALS, HEM ALONG SHEARS.				
74.0	74.5	20°S - 1/16" QRT VEIN. TR- PY, ALONG SHEARS.				
74.5	75.0	CHLORITIZED ALONG 60°S AXIS,				
75.0	75.5	TR- PY, HEM				
75.5	76.0	RANDOM FRACTURES.				
76.5	77.0	WATER MOVEMENT ALONG FRACTURES.				
77.0	77.5	BRECCIATED, CHLORITIZED, 60°S, 40°S - QRT VEIN 1/16" STRINGER.				
77.5	78.0	HEM ALONG JOINTS AND FRACTURES				
78.0	78.5	60°S - 1/16" QRT VEIN. TR- PY, CALCO- PY, HEM.				
78.5	79.0	CHLORITIZED, CARB-ALTERATION,				
79.0	79.5	TR- PY.				
79.5	80.0	META-ARDILLITE, INTENSELY CHLORITIZED.				

End of box 4

RV-4.

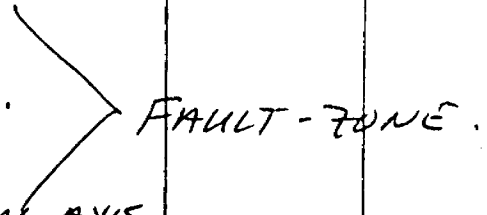
pg 11.

DIAMOND DRILL RECORD

Hole No. **RV-4,** Length **137 FT**
 Working Place **RATHBUN TWP.** Section **80-100'**
 Date Finished **JULY-21.84.** Dip **45°N.**
 Bearing _____ Elevation _____
 Purpose _____

SIGNIFICANT INTERSECTIONS					
From	To	C.L.	Cu. %	Au. oz./ton	Remarks

From	To	DESCRIPTION	Sample No	Width		
80.0 80.5	80.5 81.0	CHLORITE BRECCIA ALONG 80°S-60°S FLOW PATTERN QRT, HEM AND CHLORITE ALONG FRACTURES + JOINTS.				
81.0 81.5	81.5 82.0	CARB-ALTERATION. SAME AS ABOVE. PINK-QRT ALONG SHEARS.				
82.0 82.5	82.5 83.0	CHLORITE RICH. (≈60%) 50°S, 60°S JOINTING.				
83.0 83.5	83.5 84.0	60°S, VERT CHLORITE SHEARS + FLOWS. (SLUMPING ALONG PLANES) CHLORITE SHEARS AT 70°S, HEM ALONG ALL FACES.				
84.0 84.5 85.0 85.5 86.0 86.5 87.0 87.5 88.0 88.5	84.5 85.0 85.5 86.0 86.5 87.0 87.5 88.0 88.5 89.0	SAME - AS ABOVE. 60-70% CHLORITE CONTENT. HEM ALONG PLANES 83.0' - 89.0' → FAULTED, BRECCIATED. 60°N, 60°S CHLORITE SHEARS BRECCIATED, FLOW STRUCTURES AT VERTICAL AXIS. 1/16" QRT VEINS. HEM ALONG FRACTURES + JOINTS.				



From	To	DESCRIPTION	Sample No	Width			
89.0 89.5	89.5 90.0	LESS ALTERED > OUT OF FAULT-ZONE LESS CHLORITIC					
90.0 90.5 91.0 91.5	90.5 91.0 91.5 92.0	70'S, 70°N JOINTING. VERT CHLORITE SHEARS. TR-PY, MAGNETITE ALONG SHEARS. HEM ALONG SHEARS.					
92.0 92.5 93.0 93.5 94.0 94.5	92.5 93.0 93.5 94.0 94.5 95.0	70'S, VERT CHLORITIC FLOWS. QRT, HEM ALONG FLOWS. 50°W, 70'S SHEARS, JOINTING. PINK (RE-COOKED) QRT ALONG SHEARS WITH CHLORITE.					
95.0 95.5 96.0 96.5	95.5 96.0 96.5 97.0	CHLORITE FLOW, BEDDING PLANES INDISTINCT. KINK-FOLDING ALONG FLOWS. TR-PY, CALCO + AU-SPECS. FINE-PY ALONG FLOW. CHLORITE INCLUSIONS WITH FLOW. FLOW 70'S TO VERT AXIS.					
97.0 97.5	97.5 98.0	CHLORITE FLOWS THRU 60'S BEDDING PLANES IN FINE-GRAINED ARGILLITE. PINK-QRT, PY ALONG FLOWS AT 60'S AND VERTICAL.					
98.0 98.5	98.5 99.0	60'S, 40°N CHLORITE SHEARS. 1/16" QRT VEINLET (PINK-QRT). CHLORITE BRECCIA WITH INCLUSIONS OF CHLORITE.					TR-PY, CALCO-SPECS.
99.0 99.5	99.5 100.0	LESS ALTERED. SLIGHTLY CHLORITIZED. END OF BRECCIATED-ZONE. META-ARGILLITE WITH CHLORITE SHEARS.					
End of box-5.							

R-4.

pg 13.

DIAMOND DRILL RECORD

Hole No. R.V.-4 Length 137 FT. CO-ORDINATES OF COLLAR

Working Place RATHBUN TWP. Section 100-120' Lat. _____

Date Finished JULY-21/84. Dip 45°N Dep. _____

Bearing _____ Elevation _____

Purpose _____

SIGNIFICANT INTERSECTIONS					
From	To	C.L.	Cu. %	Au. oz./ton	Remarks

From	To	DESCRIPTION	Sample No	Width		
100.0	100.5	META-ARGILLITE, VERT-FRACTURED.				
100.5	101.0	SLIGHTLY CHLORITIZED, 50°S, 50°N CHLORITE SHEARS.				
101.0	101.5	60°S, 70°W SHEARS, JOINTING.				
101.5	102.0	CHLORITIZED.				
102.0	102.5	PINK-QRT ALONG SHEARS.				
102.5	103.0	SAME.				
103.0	103.5	60°S CHLORITE SHEARS. VERTICALLY DISPLACED ≈ 1/4".				
103.5	104.0	TR-PY, CALCO-PY.				
104.0	104.5	SAME AS ABOVE.				
104.5	105.0	SAME.				
105.0	105.5	CHLORITIZED ALONG 60°S, 60°N AXIS.				
105.5	106.0	70°S SHEARS, SECONDARIES AT RANDOM.				
106.0	106.5	LESS CHLORITIZED.				
106.5	107.0	SLIGHTLY FRACTURED.				
107.0	107.5	60°S CHLORITE SHEARS ALONG 60°S BEDDING PLANES				
107.5	108.0	OF META-ARGILLITE.				
108.0	108.5	TR-PY ALONG SHEARS.				
108.5	109.0					

Rev. F. Vittala

(R-4.

Pg 14.

From	To	DESCRIPTION	Sample No	Width			
109.0	109.5	CHLORITIZED, META-ARGILLITE ALONG		60°S AXIS.			
109.5	110.0	SOME VERTICAL SHEARS & JOINTS.					
110.0	110.5	SOME PINK-QRT ALONG SHEARS.					
110.5	111.0						
111.0	111.5	DR-HEM, PY, CALCO-PY ALONG SHEARS.					
111.5	112.0						
112.0	112.5	SECONDARY SHEARS, JOINTS AT RANDOM.					
112.5	113.0	SAME					
113.0	113.5	-11-					
113.5	114.0	SAME					
114.0	114.5						
114.5	115.0	-11-					
115.0	115.5	SAME					
115.5	116.0						
116.0	116.5	-11-					
116.5	117.0	SAME					
117.0	117.5						
117.5	118.0	-11-					
118.0	118.5	SAME					
118.5	119.0						
119.0	119.5	-11-					
119.5	120.0	CHLORITIZED, META-ARGILLITE WITH 60°S-CHLORITE SHEARS WITH SECONDARIES AT 60°N AND AT RANDOM.					
		End of box 6.					

RV-4.

Page 15.

DIAMOND DRILL RECORD

Hole No. **RV-4.** Length **137 FT.** CO-ORDINATES OF COLLAR
 Working Place **RATHBUN TWP.** Section **120-137'** Lat.
 Date Finished **JULY-21.85.** Dip **45°N.** Dep.
 Bearing **45°N.** Elevation
 Purpose

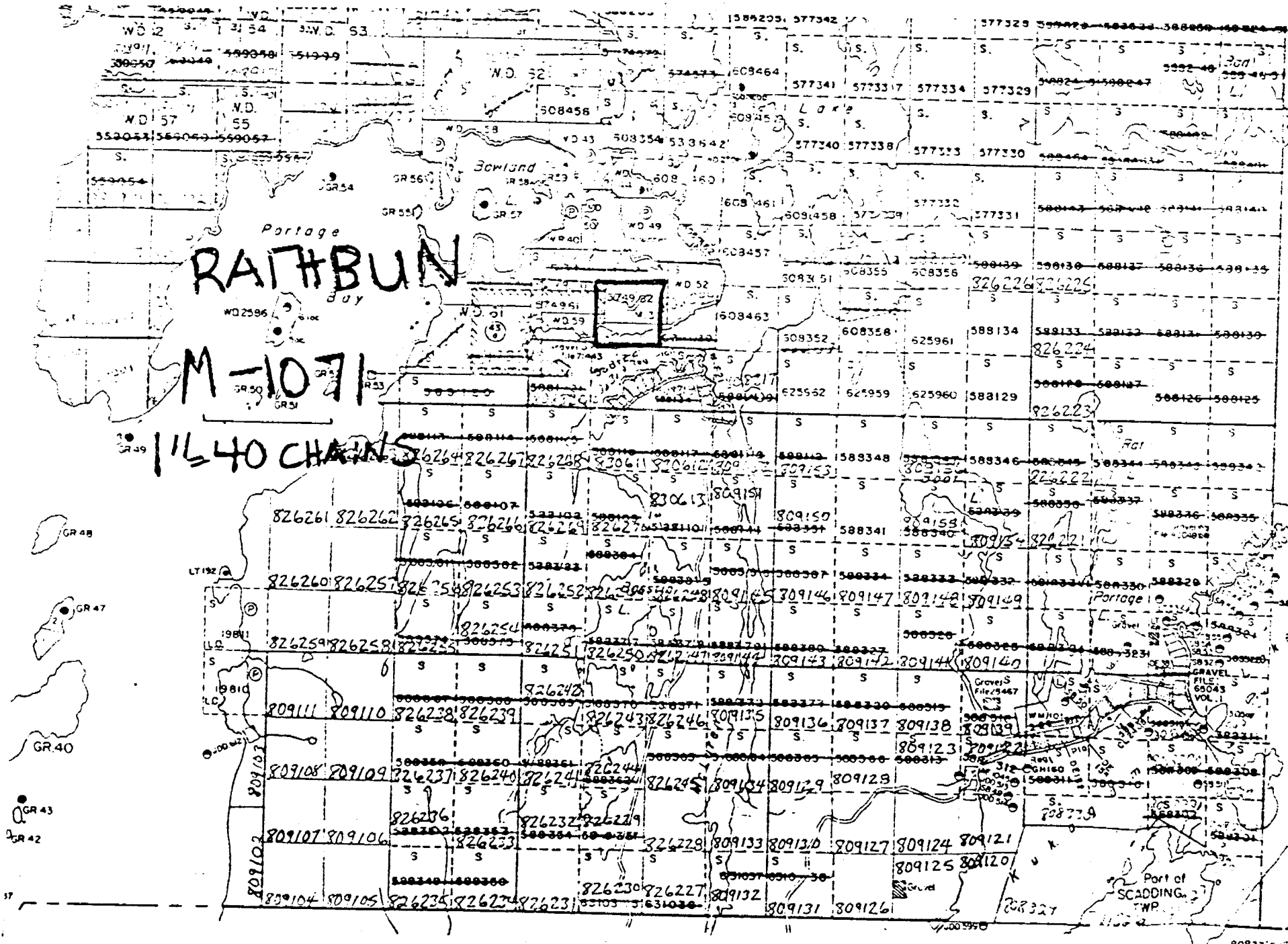
SIGNIFICANT INTERSECTIONS					
From	To	C.L.	Cu. %	Au. oz./ton	Remarks

From	To	DESCRIPTION	Sample No	Width			
120.0	120.5	CHLORITIZED META-ARGILLITE					
120.5	121.0	CHLORITIZED AT 60°S. CHLORITE AND SILICA RICH.					
121.0	121.5	60°S, 60°N SHEARS					
121.5	122.0	TR-HEM ALONG SHEARS.					
122.0	122.5	SOME FAULTING ALONG 60°S SHEARS.					
122.5	123.0	TR-HEM ALONG SHEARS					
123.0	123.5	60°S, 60°N SHEARS. TR-HEM.					
123.5	124.0	SOME SLUMPING ALONG 60° BEDDING PLANES.					
124.0	124.5	SAME.					
124.5	125.0						
125.0	125.5	SAME AS ABOVE. SOME 1" CHLORITE INCLUSIONS.					
125.5	126.0	1/16"-20°E QRT VEIN WITH CALCO-PY ALONG IT.					
126.0	126.5	SAME, MAG-HEM ALONG CHLORITE SHEARS AT 60°S.					
126.5	127.0	60°S-PRIMARY SHEARS + JOINTS.					
127.0	127.5	60°N-SECONDARY JOINTS.					
127.5	128.0	SAME.					

R-4.

py 16.

From	To	DESCRIPTION	Sample No	Width		
128.0	128.5	QRT - ALONG 60°S AND VERT SHEARS.				
128.5	129.0	- 11 -				
129.0	129.5	SAME				
129.5	130.0					
130.0	130.5	SAME. 1/4" GRANITIC INCLUSION AS IN 'GOGHATH FORMATION' TYPE				
130.5	131.0	TR-CALCO-PY, PY, ALONG SHEARS AND ASSOCIATED WITH INCLUSIONS.				
131.0	131.5	PINK-QRT ALONG 60°S SHEARS				
131.5	132.0	TR-PY.				
132.0	132.5	SAME				
132.5	133.0	PINK-QRT ALONG 60°S SHEARS.				
133.0	133.5	PINK & WHITE QRT ALONG 60°S SHEARS.				
133.5	134.0	SHEARS ARE SLIGHTLY INCREASING WITH THICKNESS AS DEPTH INCREASES.				
134.0	134.5	PINK-QRT ASSOCIATED WITH 60°S PRIMARY SHEARS & BEDDING PLANES.				
134.5	135.0	WHITE-QRT ASSOCIATED WITH 60°N SECONDARY SHEARS & JOINTING.				
135.0	135.5	SAME, CHLORITIZED ALONG 60°S AXIS.				
135.5	136.0	AT 136.0' SOME AU-SPECS ALONG 60°S CHLORITE SHEARS → ASSAY-AU # 6				
136.0	136.5	PINK QRT, ALONG 60°S SHEARS.				
136.5	137.0	META-ARGILLITE, CHLORITIZED ALONG 60°S, WITH 60°N SECONDARIES.				
		End of Box - 7 End of Hole R-4. Note* - should have been drilled deeper.				

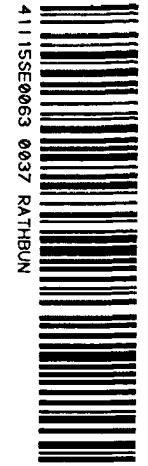


RAITHBUN

M-1071

11640 CHAINS

IV
KELLY TWP. M.96:



900

SCADDING TWP. M.1092

46°42'40" approx.
80°13'54" approx.

Name and Postal Address of Recorded Holder: **REINO, L. VIITALA,**
RR #17, THUNDER BAY, ONT. P7B-6C2.

Prospector's Licence No.: **C-32251.**

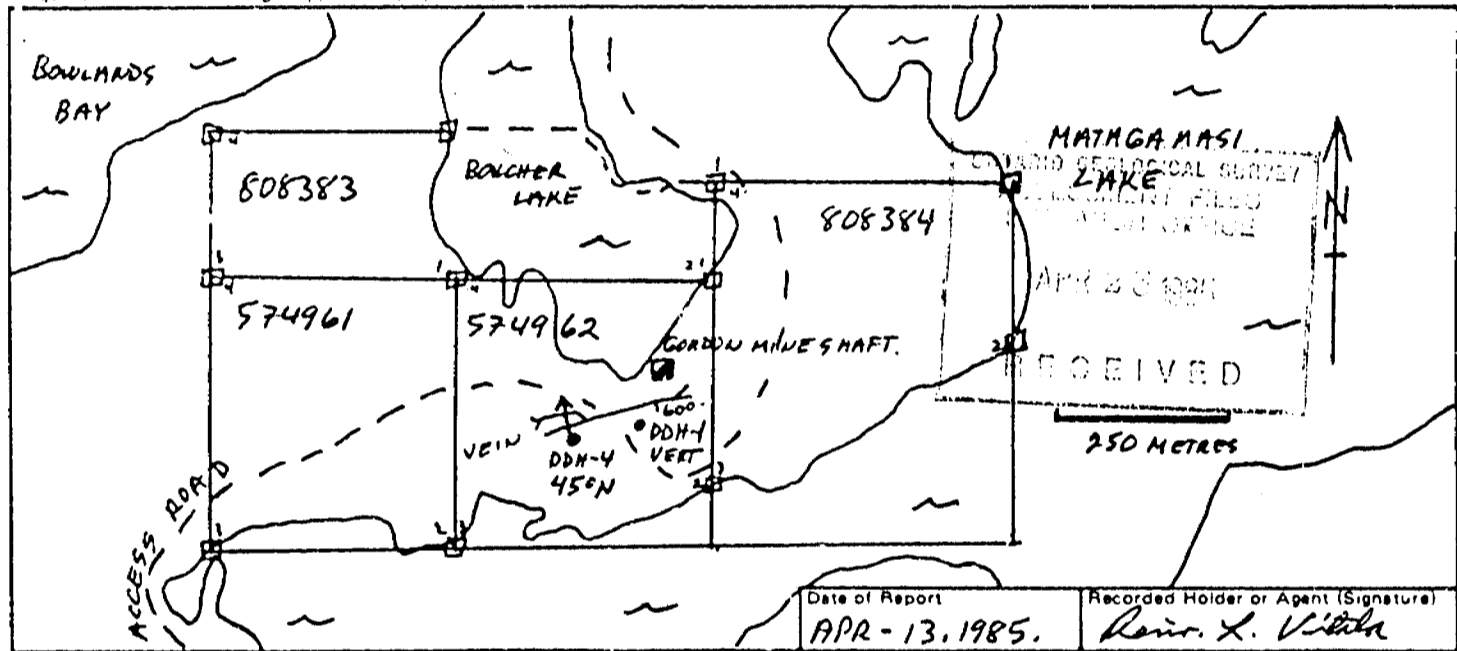
Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 272	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only)									
	<input type="checkbox"/> Manual Work								
	<input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work.								
<input type="checkbox"/> Compressed Air, other Power driven or mechanical equip.									
<input type="checkbox"/> Power Stripping									
<input checked="" type="checkbox"/> Diamond or other Core drilling									
<input type="checkbox"/> Land Survey									

Recorded Apr 19/85

All the work was performed on Mining Claim(s): **574962** **S-574962=272 BAL. 3566.8**

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)



Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying: **SAME AS ABOVE**

Date Certified: **APR-13, 1985.**

Certified by (Signature): *Reino L. Viitala*

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	✓
Power Stripping	Type of equipment and amount expended Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling ✓	Signed core log showing, footage, diameter of core, number and angles of holes. ✓	<i>on Reserve</i> ✓	Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyer.	Nil	Nil