Diamond Drilling

010

Township of ELDORADO

Report NO 21

Work performed by: Utah Mines Limited

Claim NO	Hole NO	Footage	Date	Note
P 453331	R-4	200.0'	Apr/78	(1)
P 453331	R-5	268.0'	Apr/78	(1)
P 453331	R-7	427.0'	Mar/78	(2)
P 453331	R-8	302.0'	June/78	(3)

Notes:

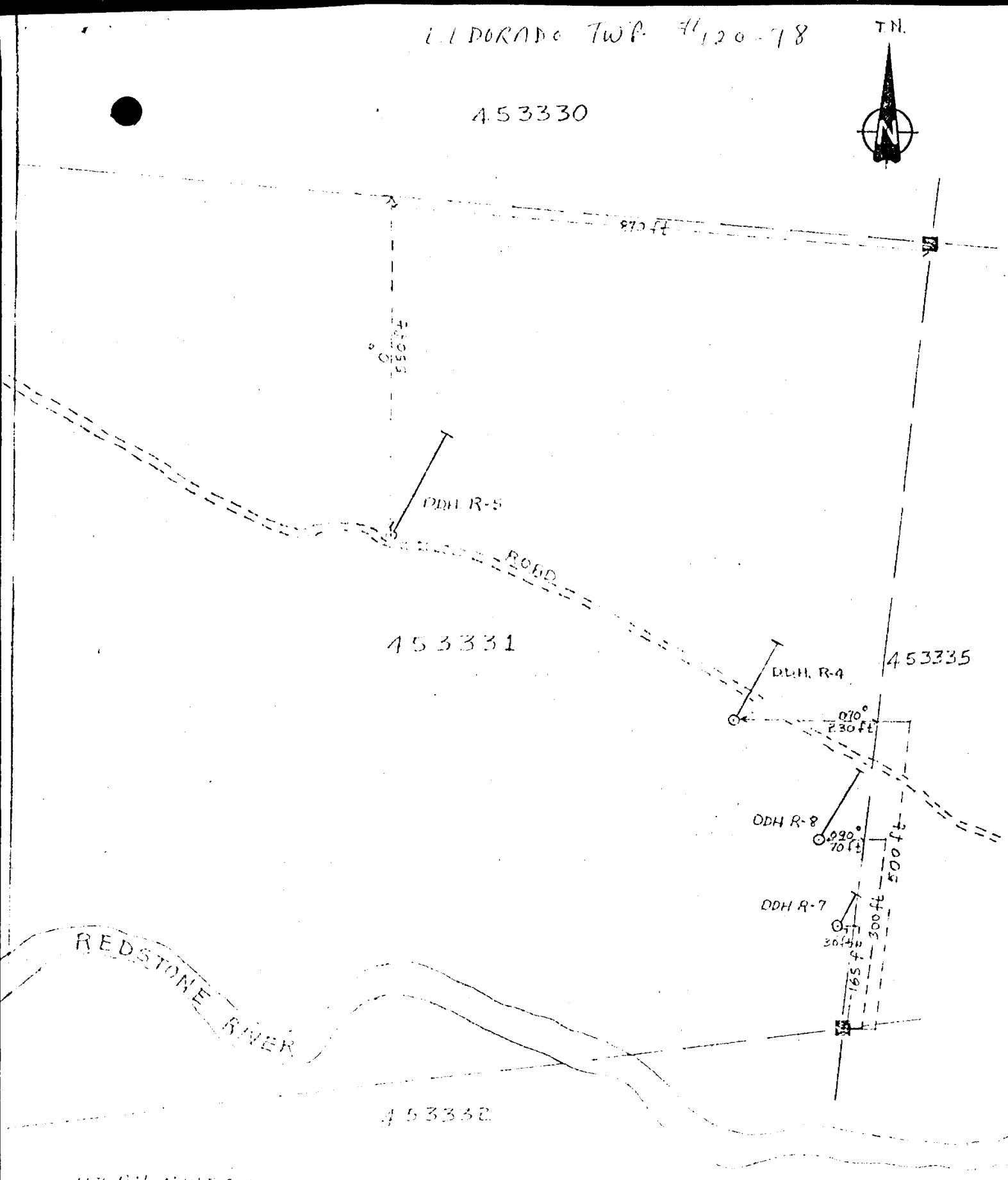
(1) #120-78

(2) #119-78

(3) #117-78

EL DORADO TWP. #120-78

453330



U.T.H.I. MINES LIMITED
REDSTONE PROPERTY
Location Drill Holes R-5, R-7, R-8
May 11, 1978
Scale-Edited

0 200 400
Scale in Feet

HOLE NO. R-5 | PROJECT: [illegible] | PAGE NO. 1 OF 5

CASING COLLAR ELEV.: | GROUND ELEV. 950 | DATE STARTED: Apr 14/78 | REF. TO CLAIM CORNER:

COORDINATES: 12, 330 N. 11 020 E. | DATE FINISHED: Apr 15/78 | SCALE: 1" = 10'

INCLINATION: -45° (Az ?) | BEARING: 113.5° E | TOTAL DEPTH: 268 ft. | LOGGED BY: D Robinson.

11/20

COMMENTS: Basal [illegible] thin flow sequence shows a gradual Δ in Talc, chlorite, calcite, magnetite & ↑ MgO downsection. - spinifex textures define tops (meta Picrite)

AVE CORE REC'Y / HOLE

ALTERATION | FRACTURING | MINERAL | GEOLOGY

DESCRIPTIVE GEOLOGY

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTIMATED
0	nil	10	0	BQ			
			40				
		20					
	Trace		100				
		30					
			100				
		40					
			100				
		50					
			100				
		60					

0-16 Overburden - glacial till, sand, silt, boulders - cased

16-17.6 Felsic x'lln Rhy Vole
- ltgry, vfg, v mav, mm, chl specs.

17.6-47.9 Mafic Vole — Komatiitic Bas. (meta Picrite)
- v/fg mod grn xx chltz, x schistose.
- v poorly developed spinifex @ 19' random mod spinifex @ 25' needles up to 5 cm
- weakly Talcose along shear planes - mod T @ 20.5'
- v carb calcite calc to 40'
random to sheaf spinifex
- Talc carb ↑ - komatiitic Bas → typical fine grg
magnetic to non magnetic Mafic Vole
- well banded or schistose @ 40° to CA
- calcite veins & blebs 0.5-1mm in diameter

@ 50 Ultramafic gradational contact v/fg dk grn-blk
- lg v chltz mod Talc - marked by magnetic veins
40-47.45 - v Talcose & laminated
- intense fracturing & broken core [fault zone?]
47.45 v. Talcose & v schistose, pale grn v/fg Talc schist

47.95-55.2 QFP
- ltgry/grng qtz plag phenos v abun avg 1-2 mm. minor smoky grey qtz eyes.
- v min calc. min chl specs.

55.2-59.6 Komatiitic Basalt — Ultramafic (Mafic Picrite)
- sheaf-random spinifex needles up to 1-2 cm long
- schistose, minor fold recrystallization cleavage needle texture

HOLE NO. R-5 | PROJECT: Kodiak Island | PAGE NO: 2 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: 95 | DATE STARTED: Apr 14/78 | REF. TO CLAIM CORNER:

COORDINATES: 12,350 N. 16,[illegible] E. | DATE FINISHED: Apr 15/78 | SCALE: 1" = 10'

INCLINATION -45° [illegible]' | BEARING: N 30° E | TOTAL DEPTH: 200' | LOGGED BY: D. Robinson

COMMENTS: Difficult to distinguish Mafic Volc & Komat Bas - abun calc, v chltz, minor to mod Talc zones, v fg.
@ 109.7 - Tremolite prismatic xtals developed [chill margin].

AVE CORE REC'Y / HOLE

ALTERATION | FRACTURING | MINERAL | GEOLOGY | SECTION | DESCRIPTIVE GEOLOGY | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y SAMP INT | ESTIMATED

59.6-66.1 Feldspar Pfg - abn Rhcg - vaguest if fractured upper contact but visible wt plag phenos, grey-lt. - minor banding plag phenos.
- v/g grey v msv. min plag phenos 1-2mm.

66.1-75 Mafic Volcanic
- v/fg med grn - v chltz, schistose. v min Talc or schist @
- abun calc in veins and thin lenses
- v/fg visible wt plag crystals (lt pfg)
- crossing Talcose @ 70' abun calc blebs denser conc.

75-100.3 Komatiite Bas — grey — Ultramafic
- v/fg dk grn, mod Talcose, strongly chltz, abun calc blebs < 1mm
- abun calc v/fg med grn, abun py cubes 5mm - <1cm
- abun wt phenos 1-2mm + magnesite.
- no N. texture

soft type flt zone moderately developed

@ 97' crenulated folds - well developed

100.3 - 103.35 Feldspar Porphyry - lt grey mg plag phenos msv.
qtz vn

103.35 - 104.7 - Mafic Volc - v/fg strongly chltz. schistose
- banded - mod calc in v/thin wt blebs < 1mm diameter

104.7 - 109.7 Tremolite prismatic xtals @ lower contact 2-4 mm

109.7 - 118.25 Xtal'n flow volc
- M grey fg msv min qtz, abun chl specs, wt plag xtals < 1mm diameter

118.25 - 118.4 Komatiitic Bas med grn - mod Talcose, magnesite & calc vn

SULPHIDES: T a c e; 1% - 2%; 0.5; trace

DRILLING INTERVAL: 70, 80, 90, 100, 120

% CORE RECOVERED: 100, 100, 100, 100, 100, 100

CORE SIZE: BQ

HOLE NO. R-3 | PROJECT: Redstone | PAGE NO: 3 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: 95 | DATE STARTED: Apr 14/78 | REF. TO CLAIM CORNER:

COORDINATES: 12,500 N. 10,200 E. | DATE FINISHED: Apr 15/78 | SCALE: 1" = 10'

INCLINATION: -45° & -0 | BEARING: N30°E | TOTAL DEPTH: 210' | LOGGED BY: D. Robinson

COMMENTS: Iron formation - 127.1 - 174.3. - 2 in vole tuffs & sediments. Inc IF - 168.5 - 174.4.

AVE CORE REC'Y / HOLE

ALTERATION | FRACTURING | MINERAL | GEOLOGY

DESCRIPTIVE GEOLOGY

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTIMATED
120				BQ			
	5%			↓	120	100	2767
					127		
130		130	100		130		
	2%					100	2768
			100				
		140			140		
	1%						
			100		145	150	2771
150	0.5%	150					
			100				
	0.5 to 1	160					
	0.5%		95		168		
	10 to 15%	170				60	2789
					174		

127.1 - 127.8 xtal Phy Vole - Pfy
- lt grey fg msv. abun chl specs. minor qtz eyes. wt plag xtals < 1mm.
- broken core from 123 - 125, 130 - 132. slightly porphyritic towards lower contact.
- min calc vn @ 126 remarks.

127.8 - 129.2 Intermediate to Felsic Vole Tuffs or sediments alternating sequences
- Ard lt grey mod chlty @ 129 garnet zone. 132 - 133
- RD tuff lt grey v/g msv
- chlty Ard.

129.2 - 131.9
131.9 - 135.3

Iron form 127.4 - 128.3 banded po+py @ -
- banded grey py
- msv po
- 1-2 mm thick.

135.3 - 140.85 Cherty Felsic Vole lt grey v/g msv, banded aphanitic
@ 136 po bands along bedding planes & stringers + fractures

140.85 - 144.5 xtallin Phy Tuff lt grey v/g msv equigranular small phy xtals, chl specs
- foliation not banded
- gen hungry alteration zone of same composition

144.5 - 150 Banded Cherty Felsic Intermediate Vole Tuff - (Iron Formation)
- grey-green fg po+py throughout in coarse bands & veins < 2mm wide

150 - 154.8 Cherty Felsic Tuff lt grey v msv equigranular to sugary texture.

154.8 - 160.5 Andesite Tuff - lt gren, v/g, intensely calcified
150 - 151.5 angular fragmental blocks in calc matrix
- banded bedding base

banded Ard Tuff - bands 1-2 cm wide - separated by calc

168.5 - 174.4 Iron Formation
- msv po+py
- msv po.

sugary wt. chert - Vole. & msv bands of po+py + stringers
4 seams of PO
basal band of PO

174.4 Andesite Vole. Tuff lt gren/g - strongly chltz - minor seams & lenses of po+py
- hematite alteration

178.5 - 179.5 Garnet zone

HOLE NO: R-5 | PROJECT: Redstone | PAGE NO: 4 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: 1150 | DATE STARTED: Apr 14/78 | REF. TO CLAIM CORNER:

COORDINATES: 12,250 N. 6,[illegible] E | DATE FINISHED: Apr 15/78 | SCALE: 1" = 10'

INCLINATION: -[illegible] BEARING: [illegible] | TOTAL DEPTH: 218 | LOGGED BY: D.F[illegible]

COMMENTS: Volcanic units - are variable in composition from And to Dac + cherty wk interbedded Ash beds - alum to sulfides contained in these units.

AVE CORE REC'Y / HOLE

SECTION	ALTERATION: SILICIFICATION	ALTERATION: CHLORITIZATION	ALTERATION: SERICITIZATION	ALTERATION: TALC	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	** SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTIMATED
	moderate	minor				py		191.4 - 191.65 Moderate Volc Tuff - Ash, Hgrn. - dg banded clastic tuff-ash @180.5 - complete to stone. - bands of po+py @ 180.8 @ 186-187.5 predominantly po. - many ash beds contained in	2 to 5%	180		BQ	180 to 191.6		2770
								- start of Ash beds		191.6					
	moderate to moderately	minor				py		191.65 - 201.6 QFP - Hgrey mg wk plag phenos, sm elongated qtz (some) alum & chl specs. - uniform	0%	201.6			191.6 to 191.6		
						py		201.6 - 239.35 Intermediate And-Dac. Ash-Tuff - Hgrn grey - v well-laminated & bedded + Hgrey wk Ash beds - weak to mod chlt - abun po+py along laminations & along fractures @ 204, 209 seams & lenses - minor calc - aphanitic grain size	1% to 2.5%	210					
						py		@ 210 Volc Tuffs are more dacitic in composition Dacite Tuff - Ash - po+py abundant as veinlets, fillings, fracs, pyrite coatings	Trace - 0.5	220					
						py		- 239.35 - end Ash-Tuff sequence - weakly - moderately bounded. po+py seams @ 222, 223.3 228 & blebs	0.5%	230					
						py		@ 227.8 - 227.6 - breccia zone + v angular fragments 1-2 cm avg. 1cm - bedding @ <45° to core - aphanitic grain size							
								QFP		240					

** SULPHIDES

HOLE NO. R-5 | PROJECT: Redstone | PAGE NO: 5 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: 1650 | DATE STARTED: Apr 11/78 | REF. TO CLAIM CORNER:

COORDINATES: 17,350 N 10,020 E | DATE FINISHED: Apr 15/78 | SCALE: 1" = 10'

INCLINATION: -45° @ 0, -45 @ 268 | BEARING: N 30°E | TOTAL DEPTH: 270.5 | LOGGED BY: D Robinson

SECTION	ALTERATION: Silicification	ALTERATION: Sericite	ALTERATION: Chlorite	ALTERATION: Talc	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTIMATED
								DESCRIPTIVE GEOLOGY								
250		moderate				Py		239.35 - 249.6 QFP - light grey not phenos, chl specs, smoky qtz eyes <1-2mm - hair line calc veins - qtz vns 1cm thick - irregular contact		Trace	250	100	PQ			
260		moderate	moderate		X	Py 1/10		249.6 - 268.5 Andesitic Vole Tuff - pale grn. vfg - mod. chltz weakly banded to laminated. - 5m pa fenses		nil	260	100 85				
270											270					

PAGE NO.: 1 OF 5

CASING COLLAR ELEV.: GROUND ELEV.: 950'

COORDINATES: 12,330 N. E.

INCLINATION: -55°@270 BEARING: N30°E

PROJECT: Redstone

DATE STARTED: Apr 14/78

DATE FINISHED: Apr 15/78

TOTAL DEPTH: 208.5

HOLE NO.: R-5

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY:

-55 @ 270°

DEPTH INTERVAL		CORE								DEPTH INTERVAL		SLUDGE							
FROM	TO	SAMPLE NO.	INCHES REC.	% REC.	ASSAY					FROM	TO	SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

PAGE NO.: 2 OF 5

CASING COLLAR ELEV.: GROUND ELEV.: 950

COORDINATES: 12,330 N. 16,020 E.

INCLINATION: -45°00' BEARING: 132°E

-45°00'

PROJECT: Redstone

DATE STARTED: Apr 11/78

DATE FINISHED: Apr 15/78

TOTAL DEPTH: 318.5

HOLE NO.: R-5

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: D. Robinson

DEPTH INTERVAL		CORE								DEPTH INTERVAL		SLUDGE							
FROM	TO	SAMPLE NO.	INCHES REC	% REC.	ASSAY					FROM	TO	SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

PAGE NO.: 5 OF 5

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: Redstone

DATE STARTED: Apr 14/78

DATE FINISHED: Apr 15/78

TOTAL DEPTH:

HOLE NO.: 125

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY:

CORE										SLUDGE								
DEPTH INTERVAL		SAMPLE NO.	INCHES REC.	% REC.	ASSAY					DEPTH INTERVAL		SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
FROM	TO				Ni	Cu	Fe	Cg		FROM	TO								
125	130	2767	30"		0.02	0.01	0.002	0.002											
130	140	2768	120"		0.01	0.01	0.007	0.09											
145	150	2771	60"		0.01	0.01	0.007	0.002											
168.5	174.4	2769	47"		0.02	0.01	0.002	0.06											

PAGE NO.: 4 OF 5

CASING COLLAR ELEV.: GROUND ELEV.: 950'

COORDINATES: 12,330 N. 16,020 E.

INCLINATION: -45° @ 0' BEARING: N 30° E

-49° @ 268.5

PROJECT: Redstone

DATE STARTED: Apr 14/78

DATE FINISHED: Apr 15/78

TOTAL DEPTH: 268.5

HOLE NO.: R-5

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: D. Robinson

CORE										SLUDGE								
DEPTH INTERVAL		SAMPLE NO.	INCHES REC.	% REC.	ASSAY					DEPTH INTERVAL		SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
FROM	TO				Ni	Cu	Fire	Ag		FROM	TO								
180	191.6	2776	139.2"		0.01	0.01	0.002	0.005											
180																			
190																			
200																			
210																			
220																			
230																			

PAGE NO.: 5 OF 5

CASING COLLAR ELEV.: GROUND ELEV.: 750

COORDINATES: 12,330 N. 16,020 E.

INCLINATION: -45° @ 268.5 BEARING: 133°

PROJECT: Redstone

DATE STARTED: Apr 14/78

DATE FINISHED: Apr 15/78

TOTAL DEPTH: 268.5

HOLE NO.: R-5

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: D Pelton

CORE										SLUDGE									
DEPTH INTERVAL		SAMPLE NO.	INCHES REC	% REC.	ASSAY					DEPTH INTERVAL		SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
FROM	TO									FROM	TO								

240

230

220

210

HOLE NO. R-4
CASING COLLAR ELEV.:
COORDINATES: N. 16,870 E.
INCLINATION: -45°
GROUND ELEV.: 950
BEARING: 150°
PROJECT: [illegible]
DATE STARTED: [illegible] /78
DATE FINISHED: [illegible] /78
TOTAL DEPTH: [illegible]
PAGE NO: 1 OF 4
REF. TO CLAIM CORNER:
SCALE: 1" = [illegible]
LOGGED BY: [illegible]

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTIMATED
0													
10					0 - 32.0 Csg.								
					32.0 - 49.9 Mafic to Ultramafic Volcanic								
					32.0 - 35.2 poorly [illegible]								
					[illegible] predominant orientation				100	↑			
					appears [illegible]								
					[illegible] section 35.2 - 49.9		.5	40					
					[illegible]					BQ			
					[illegible] 35.2 - 49.9.								
					[illegible]								
					[illegible]					↓			
					[illegible]				100				
					49.9 - 61.7 [illegible]		tr						
					[illegible] upper and lower [illegible]								
					appears [illegible] 49.9 - [illegible]			60					

HOLE NO. 12-4

CASING COLLAR ELEV.:

GROUND ELEV.: 954

COORDINATES 12.[illegible] N. 16[illegible] E.

INCLINATION: [illegible]

BEARING: [illegible]

PROJECT: [illegible]

DATE STARTED: April 12/78

DATE FINISHED: [illegible]

TOTAL DEPTH: [illegible]

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: [illegible]

COMMENTS: Possibly [illegible] 89.4-91.2. [illegible]

AVE CORE REC'Y / HOLE

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTIMATED
60					66.7 - 83.5 [illegible]							
					[illegible] throughout							
					62.5 - 73.5 [illegible]							
					[illegible]							
70			Po		[illegible]			100				
					[illegible]							
					[illegible] mineral [illegible]							
					[illegible]							
80							83					
					83.5 - 85.4 [illegible] Tuff							
90			Po		85.4 - 91.2 [illegible]	1%						
					89.4 - 91.2 [illegible]					89.4		
			Py		91.2 - 105.6 Sulfide Cherty [illegible]			100				
					[illegible] quartz [illegible]	10%					100	
					[illegible]							
					[illegible]	2						
100			Po		[illegible]	3	100			92.4		
					[illegible]	5					10	
						80%				105.4		
					[illegible]							
110			Po		occasional [illegible]	5%						
					disseminated Po throughout.							
					110.5 - 118.7 [illegible]							
			Po		[illegible] quartz [illegible]	1%						
					[illegible]							
					[illegible] at 118.2							
					([illegible])		123					

HOLE NO. R-4 | PROJECT: [illegible] | PAGE NO. 3 OF 4

CASING COLLAR ELEV.: | GROUND ELEV.: 154 | DATE STARTED: April 12/78 | REF. TO CLAIM CORNER:

COORDINATES: [illegible] N. 1657.3 E | DATE FINISHED: April 13/78 | SCALE: [illegible]

INCLINATION: [illegible] | BEARING: N130 E | TOTAL DEPTH: [illegible] | LOGGED BY: [illegible]

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTIMATED
	M S				116.1 - 122.4 Andesite tuff	t						
					medgreen grading to grey green.							
	V				122.4 - 133.1 Dacite	r						
					massive, aphanitic,							
					129.0 - 132.4 scattered black spherulitic	q		100				
					blebs (possibly vesicles)							
	M				133.1 - 134.0 Andesite tuff	c						
					134.0 - 140.5 Aphanitic Rhyolite	c						
					grey to slightly brown grey							
					[illegible]							
					[illegible]		140					
	V				massive	t						
					140.5 - 146.2 [illegible] Andesite	r						
	V				[illegible]							
					146.2 - 157.3 Dacite [illegible]			100				
					[illegible]							
					[illegible] and stringers							
					[illegible]							
					[illegible] vague bedding planes [illegible] of 107							
					CA.	c						
					157.3 - 165.6 [illegible] andesite tuff		160					
					occasional [illegible] and [illegible]							
					[illegible]	t						
					165.6 - 173.1 Rhyolite tuff	r						
					[illegible]							
					[illegible] trace	q		100				
					[illegible] generally at 50° [illegible]							
					173.1 - 180.0 Andesite [illegible]							
					[illegible]							
					aphanitic with the exception of [illegible]							
					[illegible] highly variable in composition							

HOLE NO. R-4 | PROJECT: [illegible] | PAGE NO 4 OF 4

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: [illegible] | REF. TO CLAIM CORNER:

COORDINATES: [illegible] N. [illegible] E. | DATE FINISHED: [illegible] | SCALE: 1" = 50'

INCLINATION: -51° [illegible] | BEARING: N30°E | TOTAL DEPTH: 209' | LOGGED BY: [illegible]

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI-MATED
								DESCRIPTIVE GEOLOGY								
180								180.2 - 209 ± Quartz veins minor sphalerite variable silicification from sericite/pyrite to strong silicification		t						
190								195.9 - 197.7 siliceous section (probable)		r		100				
								rare py on fractures		q						
										s						
										r	209					
200																

PAGE NO.: 1 OF 4

CASING COLLAR ELEV.: GROUND ELEV.: 154

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: Rocky

DATE STARTED: April 12 '18

DATE FINISHED: April 13 '18

TOTAL DEPTH:

HOLE NO.: R-4

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY:

DEPTH INTERVAL		CORE								DEPTH INTERVAL		SLUDGE							
FROM	TO	SAMPLE NO.	INCHES REC	% REC.	ASSAY					FROM	TO	SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

PAGE NO.: 2 OF 4 | PROJECT: | HOLE NO.: [illegible]-4

CASING COLLAR ELEV.: | GROUND ELEV.: [illegible] | DATE STARTED: [illegible] 12/18 | REF. TO CLAIM CORN.:

COORDINATES: [illegible] N. [illegible] E. | DATE FINISHED: [illegible] 13/18 | SCALE: 1"=[illegible]'

INCLINATION: [illegible] BEARING: [illegible] | TOTAL DEPTH: | LOGGED BY: [illegible]

DEPTH INTERVAL		CORE								DEPTH INTERVAL		SLUDGE							
					ASSAY										ASSAY				
FROM	TO	SAMPLE NO.	INCHES REC	% REC.	Ni	Cu	Zn	Ag		FROM	TO	SAMPLE NO.	LBS. REC.	% REC.					
[illegible]	22.4	[illegible]		[illegible]	0.02	None	0.01	Tr.											
						0.002	0.002	0.005											
[illegible]	[illegible]	2166		100	0.002	0.002	0.002	0.002											

PAGE NO.: 1 OF 4

CASING COLLAR ELEV.: GROUND ELEV.: 9[illegible]

COORDINATES: N E.

INCLINATION: BEARING:

PROJECT:

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: R-4

REF. TO CLAIM CORNER:

SCALE:

LOGGED BY:

CORE										SLUDGE									
DEPTH INTERVAL		SAMPLE NO.	INCHES REC.	% REC.	ASSAY					DEPTH INTERVAL		SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
FROM	TO									FROM	TO								

PAGE NO.: 4 OF 4

PROJECT: Redstone

HOLE NO.: R-4

CASING COLLAR ELEV.:

GROUND ELEV.: 15?1

DATE STARTED: June 18/48

REF. TO CLAIM CORNER:

COORDINATES: 12 S N. 15 E.

DATE FINISHED: 18/48

SCALE: 1"

INCLINATION: -85 Deg

BEARING: N 45 E

TOTAL DEPTH: 200

LOGGED BY:

DEPTH INTERVAL		CORE								DEPTH INTERVAL		SLUDGE							
FROM	TO	SAMPLE NO.	INCHES REC.	% REC.	ASSAY					FROM	TO	SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

HOLE NO. R- 7 | PROJECT: [illegible] | PAGE NO. 1 OF 2

CASING COLLAR ELEV. | GROUND ELEV. [illegible] | DATE STARTED [illegible] | REF. TO CLAIM CORNER

COORDINATES [illegible] N [illegible] | DATE FINISHED [illegible] | SCALE [illegible]

INCLINATION -59° [illegible] -74-1427 | BEARING: N-30° [illegible] | TOTAL DEPTH: [illegible] | LOGGED BY: [illegible] Louis G[illegible]

COMMENTS:

Dip Tests 200' - 82°
487' - 79°

AVE CORE REC'Y / HOLE

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECOV. SAMP.	ESTIMATED
0								0 - 27 Over Burden Casing Glacial Till, sand [illegible]							
10									Nil		0				
20															
30								27 - 28 Black to dk [illegible] fine grained porphyritic diabase dyke (contact chill margin) - strongly magnetic. [illegible] 1 [illegible] long. 28 - 60 Chlorite [illegible] [illegible] calcite [illegible] interstitial and [illegible] [illegible] and [illegible] for [illegible] [illegible] a 1" zone with 10% pebbles [illegible] [illegible] 20% [illegible] magnetic [illegible] [illegible] [illegible] [illegible] up to at [illegible] long random orientations [illegible] calcite [illegible] mainly [illegible] 1/16", 40 - 60 as irregular veins and [illegible] [illegible]			100	[illegible]			
40									Nil						
50									n		100				
									Nil						

HOLE NO. 7 | PROJECT: [illegible] | PAGE NO. [illegible] OF 3

CASING ELEV.: | GROUND ELEV.: [illegible] | DATE STARTED: [illegible] | REF. TO CLAIM POST:

COORDINATES: [illegible] N [illegible] E | DATE FINISHED: March 15, 1974 | SCALE: 1" = [illegible]

INCLINATION: -49°10' -49°30' | BEARING: N 40° E | TOTAL DEPTH: 121' | LOGGED BY: [illegible]

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTIMATED
					DESCRIPTIVE GEOLOGY								

0 - 63 Light grey laminated calcareous chlorite sch. (Mafic Vol.) 25% calcite as irreg. veins. Core broken by [illegible]

63 - 65 Coarse chlorite sch. & 10% calcite as veins + blebs

65 - 81 Calcareous chlorite sch. & 20% calcite as irreg. patches and veins. Fg. calcite veining throughout

81 - 84.2 Light grey Massive fine grained calcite with chlorite blebs throughout. Weak sericitic alteration, several irregular calcite veins with chlorite selvages

84.2 - 100 Chlorite schist (Mafic Vol.) Mostly massive, 20% calcite mostly as fine veinlets and lesser veins and veinlets

113 - 121 Core is washed [illegible] Appears to be chlorite - calcite schist.

100 - 115 Chlorite schist (Mafic Vol.) & [illegible] sericite and minor talc throughout. 2 - 3% calcite as 1/2" - 1" veins & 10% calcite veinlets

115 - 121 Light grey Massive fine grained [illegible] with 20% to 30% irregular quartz vein 1" - 6" wide (½ to ¾ core axis) with minor calcite within. Upper & lower contacts [illegible]

HOLE NO. K-7 | PROJECT: Redstone | PAGE NO. 3 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: [illegible] | DATE STARTED: [illegible] | REF. TO CLAIM CORNER:

COORDINATES: [illegible] N. 16151 E | DATE FINISHED: [illegible] | SCALE: 1" = 50'

INCLINATION: -45° [illegible] | BEARING: N 30° E | TOTAL DEPTH: 221' | LOGGED BY: [illegible]

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI-MATED
					DESCRIPTIVE GEOLOGY								

121-127 - Beige green aph chloritic with chlorite blebs, stringers & 1" wide [illegible] with some Cc

127-130 - [illegible] quartz veinlets & stringers, [illegible] quartz vein 2" wide at top & 1" wide at bottom

130-142 - Aphanitic chloritic schist, Cc blebs, irregular veins and interstitial blebs, occasional pyrite

142-158 Aphanitic chloritic sch (And) with disseminated Cc & trace

158-161 Chloritic sch (Mod Vol) 20% [illegible] Cc

161-177 Chloritized Andesite with [illegible] features [illegible] and [illegible] Cc [illegible]

177-199 Fine Med [illegible] chlorite specs throughout white frags through [illegible]

HOLE NO. K-7 | PROJECT: Redstone | PAGE NO. 4 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: 1427 | DATE STARTED: March 14 1978 | REF. TO CLAIM CORNER:

COORDINATES: 11107 | N. 16137 E | DATE FINISHED: March 15, 1978 | SCALE: 1" = 10'

INCLINATION: -72°-1427 | BEARING: N-50°E | TOTAL DEPTH: 427' | LOGGED BY: I. Goldsmith

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTIMATED
100					Lava flow and tuffaceous breccias Sedimentary contact		1% K H E		100				
140			Py		188-223 chloritized andesite, ≤ 10% disseminated $CaCO_3$ and occasional vein or patch of $CaCO_3$. Rare bedding features apparent.		<1%		100				
200			Py		Dip test 80°		1 K H E						
220			Py						100				
240			Py		225-240 chloritized andesite tuff with slightly more bedding features.		1%		100				
					240-427 1" zones of chloritized andesite tuff to schistosity (above) calcite throughout as fine interstitial material and veins 11 to schistosity ≤ 5%		N 1 1						
									100				

HOLE NO. R-7 | PROJECT: Redstone | PAGE NO: 5 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: 7417 | DATE STARTED: March 14, 1978 | REF. TO CLAIM CORNER:

COORDINATES: 11106 N. 15137 E. | DATE FINISHED: March 15, 1978 | SCALE: 1" = 10'

INCLINATION -84-10 -82-107 | BEARING: N. 30° E. | TOTAL DEPTH: 422' | LOGGED BY: [illegible]

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTIMATED
					DESCRIPTIVE GEOLOGY								

200

[illegible] Moderately chloritized [illegible] with calcite only in veins and seams [illegible]% pyrite widely scattered by veins [illegible] moderately throughout

[illegible] section with fine white [illegible] veins which form [illegible] to schistosity.

[illegible] 2% fractured calcareous tip veins [illegible]" to schistosity.

300

400

Highly chloritized to some [illegible] (Andesite) [illegible] throughout

[illegible] pebbles of brown siliceous mineral which is fine grained and [illegible] veining

[illegible] generally weakened planes [illegible] to [illegible]

[illegible] - 413 - 60% Pyrite [illegible]" feldspar [illegible]

500

[illegible] - 1866 - Chloritized Andesite - Minor calcite veins

[illegible] - [illegible] 60% Pyrite - chloritic [illegible] - some [illegible] on fractures

[illegible] Chloritized and [illegible] schists (Andesite Tuff)

[illegible] veins to 1" throughout - [illegible] throughout

[illegible] 1" by patch

600

[illegible] - [illegible] Tuffaceous (Mafic)

[illegible] - 701 - Chloritized Andesite - Mafic Volcanic schist

[illegible] veins

HOLE NO. [illegible] 7

CASING COLLAR ELEV.

COORDINATES [illegible]

INCLINATION -84°10 [illegible]

GROUND ELEV. 1447

N. [illegible]

BEARING [illegible]

PROJECT [illegible]

DATE STARTED [illegible]

DATE FINISHED March 15, 1978

TOTAL DEPTH 437'

PAGE NO. [illegible] OF 8

REF. TO CLAIM CORNER

SCALE 1" = 10'

LOGGED BY: [illegible]

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
300								301 – 302 Porous soft chlorite [illegible] (top of [illegible] Fm.)		Py			BQ			
								302 – 305 Iron formation [illegible] Tremolite c̄ diss. py and Massive pyrite bands, Tremolite is [illegible] with white specs, garnets? [illegible] 305 c̄ [illegible]		40%		100				
								305 – 310.7 Fractured granular [illegible] with irregular patchy and stringers of sulfides, increase [illegible] toward 310 [illegible] 305 [illegible] porous pyrite (QEP)		[illegible]						
310								310.7 – 318.6 Massive rhyolite [illegible] conformable with [illegible] calcite Ankerite veins [illegible] stringers // [illegible] core axis [illegible] increasing near 318.6		Nil		100				
								318.6 – [illegible] Massive banded sulfides [illegible]								
320								[illegible] – 321.4 [illegible] garnetiferous Tremolite Hornfels [illegible]								
								321.4 – 341 Massive grey Rhyolite tuff [illegible] some phenos of feldspar visible [illegible] throughout [illegible] calcite [illegible]				100				
330										Nil		100				
								@ [illegible] Po stringer No Ni Reaction								
340								341 – 345 [illegible] tuff [illegible] [illegible] fine [illegible] no Ni reaction [illegible] patches [illegible]		[illegible]				341	100	
								345 – 351.5 [illegible] massive [illegible]		Tr		100		345		
350								351.5 – 360 [illegible] with [illegible] schistosity No Ni reaction [illegible] CO_2 [illegible] 351 – 360 some [illegible] Py Po along [illegible] 355'				100		[illegible]	100	

HOLE NO: R-7 | PROJECT: Redstone | PAGE NO: 7 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: 999.1 | DATE STARTED: March 14, 1978 | REF. TO CLAIM CORNER:

COORDINATES: 11108 N. 12737 E. | DATE FINISHED: March 19 1978 | SCALE: 1" = 10'

INCLINATION: -84.10 (-84.2) | BEARING: N 30° E | TOTAL DEPTH: 417' | LOGGED BY: [illegible]

SECTION	ALTERATION: INTENSITY	ALTERATION: TYPE	ALTERATION: MINERAL	FRACTURING	VEIN MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
							DESCRIPTIVE GEOLOGY								
							0-[illegible] Bed Siliceous Rhyolitic Lapilli Tuff - well banded with calcareous bands ≤ 5%								
320							308-308.7 Siliceous Bed Tuff & Lapilli Tuff (Grey white crags-flag)		Tr		100				
							308.7-310 Laminated Tuff well banded								
							310-340 Siliceous Bed Tuff well banded throughout with calcareous bands and fracture ≤ 5%		Tr		100				
360															
									NIL		100				
400							413-414 m calcite vein at 45°				100				
							408-409 Banded Dac Tuff with thin banded calcite ≤ 10%		NIL		100				
440							409-420 Massive Aph Dac Tuff weakly banded								
									NIL		100				
480															

HOLE NO: R-7 | PROJECT: Redstone | PAGE NO: 4 OF 4

CASING COLLAR ELEV.: | GROUND ELEV.: 1483' | DATE STARTED: March 14, 1918 | REF. TO CLAIM CORNER:

COORDINATES: 11[illegible] N. 16[illegible] E. | DATE FINISHED: March 15, 1918 | SCALE: 1" = 10'

INCLINATION: -54°10'[illegible] | BEARING: N 30° E | TOTAL DEPTH: 421' | LOGGED BY: L. Gorman

SECTION	ALTERATION: INTENSITY	ALTERATION: TYPE	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	* SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTIMATED
420						DESCRIPTIVE GEOLOGY								

420-423 Moderately banded pyrite with interstitial and vein occurring calcite

M

423-421 Massive high sulphide

421

100

BQ

← Dip Test - 79°

End of Hole 421' Kevin Ballard 3/16/78

PAGE NO.: 1 OF 8

CASING COLLAR ELEV.:

GROUND ELEV.: 947.9

COORDINATES: 11708 N. 16731 E.

INCLINATION: -84°10 BEARING: N-30°E

-79°1121

PROJECT: Redstone

DATE STARTED: March 14, 1978

DATE FINISHED: March 15 1978

TOTAL DEPTH: 427'

HOLE NO.: R-7

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: L. GODBOU

Louis Godbout

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	CORE INCHES REC.	CORE % REC.	CORE ASSAY	DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	SLUDGE LBS. REC.	SLUDGE % REC.	SLUDGE ASSAY

0

10

20

30

40

50

PAGE NO.: 2 OF 8 | PROJECT: Redstone | HOLE NO.: R-7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY:

CORE							SLUDGE						
DEPTH INTERVAL		SAMPLE NO.	INCHES REC.	% REC.	ASSAY		DEPTH INTERVAL		SAMPLE NO.	LBS. REC.	% REC.	ASSAY	
FROM	TO						FROM	TO					

60
70
80
90
100
110
120

PAGE NO.: 3 OF 8 | PROJECT: Kidd Lake | HOLE NO.: K-7

CASING COORD. ELEV.: | E.O.H. ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY:

DEPTH INTERVAL		CORE								DEPTH INTERVAL		SLUDGE							
FROM	TO	SAMPLE NO.	INCHES REC.	% REC.	ASSAY					FROM	TO	SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

120

130

140

150

160

170

PAGE NO.: 4 OF 8 | PROJECT: Kidston | HOLE NO.: K-7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY:

DEPTH INTERVAL		CORE								DEPTH INTERVAL		SLUDGE							
FROM	TO	SAMPLE NO.	INCHES REC.	% REC.	ASSAY					FROM	TO	SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
180																			
190																			
200																			
210																			
220																			
230																			
240																			

PAGE NO.: 5 OF 8 | PROJECT: Redstone | HOLE NO.: R-7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY:

CORE								SLUDGE							
DEPTH INTERVAL		SAMPLE NO.	INCHES REC.	% REC.	ASSAY					DEPTH INTERVAL		SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
FROM	TO									FROM	TO								

240

250

260

270

280

290

300

PAGE NO.: 6 OF 8

PROJECT: Redstone

HOLE NO.: A-7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED:

REF. TO CLAIM CORNER:

COORDINATES: N. E.

DATE FINISHED:

SCALE:

INCLINATION: BEARING:

TOTAL DEPTH:

LOGGED BY:

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	CORE INCHES REC.	CORE % REC.	CORE ASSAY % Ni	CORE ASSAY % Cu	DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	SLUDGE LBS. REC.	SLUDGE % REC.	SLUDGE ASSAY
341	345	2701	48	100	0.01	0.01						
345	351.5	2702	78	100	0.008	0.008						
351.5	360	2703	102	100	0.01	0.01						

PAGE NO.: 7 OF 8 | PROJECT: Redstone | HOLE NO.: K-7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY:

DEPTH INTERVAL		CORE								DEPTH INTERVAL		SLUDGE							
FROM	TO	SAMPLE NO.	INCHES REC.	% REC.	ASSAY					FROM	TO	SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

360

370

380

390

400

410

420

PAGE NO.: 8 OF 8

CASING COLLAR ELEV.:

GROUND ELEV.: 949.9

COORDINATES: 11708 N. 16737 E.

INCLINATION: -84° BEARING: N-30° E

PROJECT: Redstone

DATE STARTED: March 14 1978

DATE FINISHED: March 15 1978

TOTAL DEPTH: 427'

HOLE NO.: N-7

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: L. GOUDREAULT

CORE										SLUDGE									
DEPTH INTERVAL		SAMPLE NO.	INCHES REC.	% REC.	ASSAY					DEPTH INTERVAL		SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
FROM	TO									FROM	TO								
427	End of Hole																		

430

HOLE NO: R-8 | PROJECT: REDSTONE | PAGE NO: 1 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: 949.9 | DATE STARTED: June 28/77 | REF. TO CLAIM CORNER:

COORDINATES: 11839.9 N 10699.8 E | DATE FINISHED: June 30/77 | SCALE: 1" = 10'

INCLINATION: -65° | BEARING: N30°E | TOTAL DEPTH: 302 @ 65° | LOGGED BY: M. Wilson

ALTERATION: SERPENTINE | CHLORITE | CALCITE | CLAY ?? | FRACTURING | MINERAL | GEOLOGY

COMMENTS: Felsic Volcanics 197 - 205
Quartz Carb Leach : 208 - 217

AVE CORE REC'Y / HOLE

SECTION | SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y SAMP INT | ESTIMATED

DESCRIPTIVE GEOLOGY

0 - 13': Casing

10

15 - 21.6
Altered Ultramafic/pl dk. green, massive, v.f.g. - f.g., weak magnetic
- calcite stringers strong and moderate veining; occasional chlorite envelopes
- magnetite - talc pseudomorphing olivine

20

21.6 - 53.8
Calc. Altered Ultramafic : dk. grey grn, massive, m.g., calcareous
- pervasive calcite as granular and occasional veins, stringers
- pyrite as cubic crystals (2-5mm), restricted to zones for no apparent reason
- chloritic near dyke contact

30

32.1 - 38.0
QFP Dyke : Uggy f.g. - m.g. (interior)
- chill margins (1" both ends; intrusive contact
- hairline veins of calcite-zeolite ±0-30° to CA

40

continuation of calcareous sequence
- macroscopically texturless

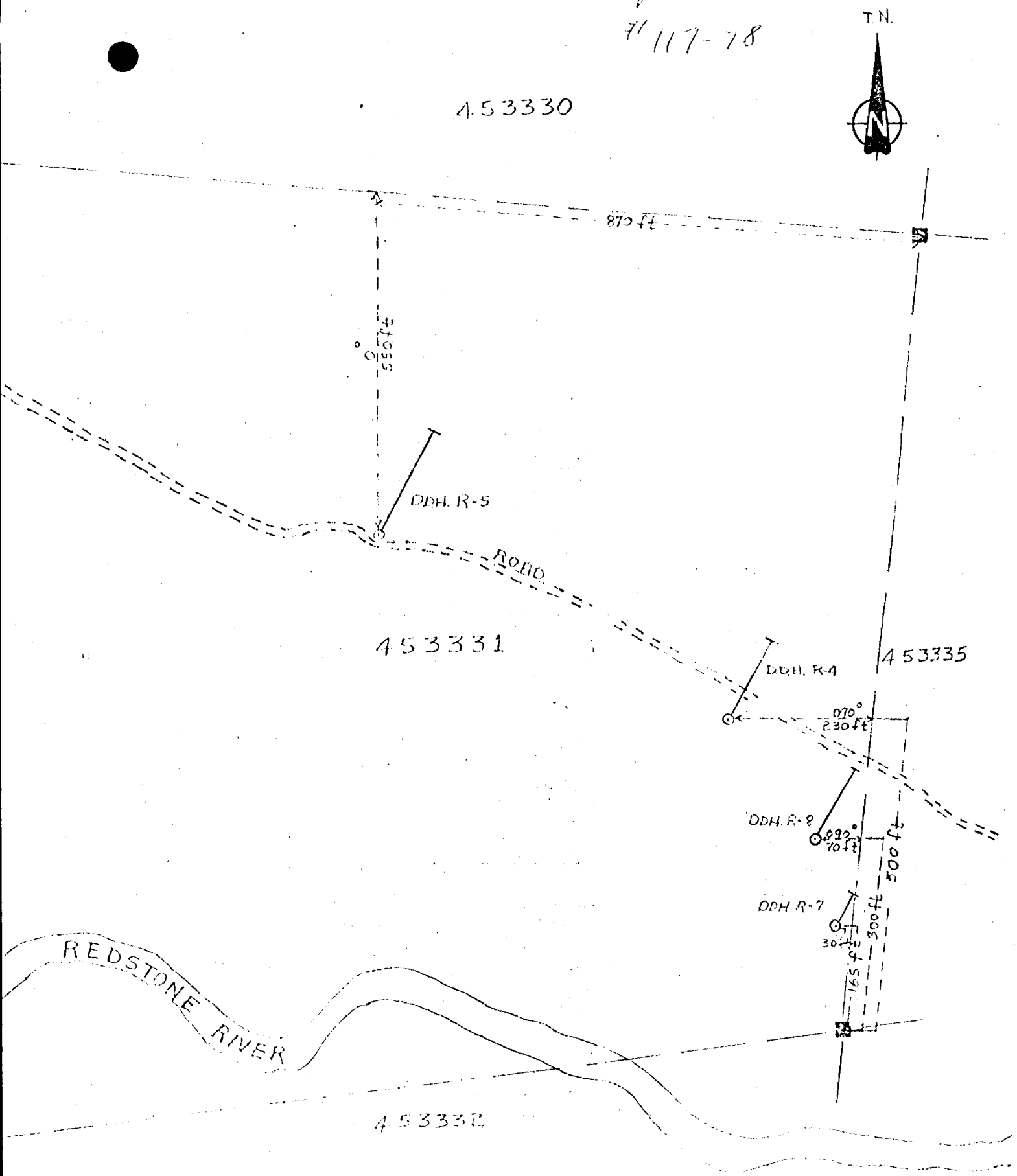
50

52 - 53.2: C.g. olivine remanents

53.8 - 61.8
Talcose Ultramafic (semi soapstone)
- pale grey grn with f.g. white alt'n dist. (5%)
- comp. coarse grained ppride in chlorite shadows

Eldorado Surf.

71 117-78



UTAH MINES LIMITED
REDSTONE PROPERTY
Location DDH's R-4, 5, 7, 8
May 11, 1978
Dennis Gotland

0 200 400
Scale in Feet

HOLE NO: 80-6 | PROJECT: REDSTONE | PAGE NO: 2 OF

CASING COLLAR ELEV.: | GROUND ELEV.: 949.9' | DATE STARTED: June 28/77 | REF. TO CLAIM CORNER:

COORDINATES: 11930.9 N, 16599.8 E | DATE FINISHED: June 30/77 | SCALE: 1" = 10'

INCLINATION: -65° | BEARING: N30°E | TOTAL DEPTH: | LOGGED BY: M. Wilson

ALTERATION: SERPENTINE | CHLORITE | CALCITE | QUARTZ | FRACTURING | VEINING | SECTION | COMMENTS | AVE. CORE REC'Y / HOLE | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y SAMP INT | ESTIMATED

DESCRIPTIVE GEOLOGY

60

61.8 - 72.0

Chloritic Talcose Ultramafic : massive, fg. pale green with calcite restricted to veins and stringers; wk. magnetic

70

72 - 80.3

Medium grained serpentinized Ultramafic : pale chloritic green, v.wk. magnetic

- gradual increase in crystallinity towards base due to stretching of grains as schistosity increases
- shear zone (mush at base) contact calcified with calcite veins
- lower contact marked by 2" calcite vein

80

80.3 - 91.8

Talcose chloritic ultramafic : sl. serp, v. wk. magnetic

- zones of soapstone (2 [illegible]; 86-87; 89-91.3)
- massive, textureless with fg. dots, white all'n grains in soapstone areas
- ends fol'n @ 35-40°

90

91.8 - 110.3

Mod-Highly altered Ultramafic: talcose, serp, calcite, chlorite

- fg. pale-dk grn gray with conchoidal breakage and abundant (strong) calcite veining causing semi-banded appearance
- becomes schistose towards base, near dyke contact but not at contact

Mineralization : consists of minor-trace e.g. pyrite crystals

100

110

110.3 - 129.4

Quartz-Feldspar Porphyry Dyke : coarse grained

110.3 - 112.1 : fg. dk grn glasses with lighter gray

Some feldspar crystals (e.g.) ; possibly chill margin but definite contact quartz-feldspar-hornblende dyke

120

DRILL NO: 00H-8 | PROJECT: REDSTONE | PAGE NO: 3 OF

CASING COLLAR ELEV.: | GROUND ELEV: 9999 | DATE STARTED: June 28/88 | REF. TO CLAIM CORNER:

COORDINATES: [illegible] | [illegible] | DATE FINISHED: June 30/88 | SCALE: 1"=20'

INCLINATION: -65° | BEARING: N30°W | TOTAL DEPTH: | LOGGED BY: M. Gibson

ALTERATION: SERPENTINE | CHLORITE | CALCITE | Quartz | FRACTURING | MINERAL | GEOLOGY

COMMENTS: Counts: 175.3-180.5

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTIMATED
120							
130							
140							
150							
160							
170	3-5%					2±	
	60%						
	15%						
	10%						

124.4-138
Talcose chl-chloritic Fault Zone: blue green, f.g., massive
- massive f.g. with crude to good foli of actinolite serp (lizardite?); probably antigorite

129.5-130.5: Semi-assimilation of dyke & talcose unit

138-142.9
Quartz-Feldspar-Hornblende Dyke
- It grey, f.g. chill margin at base, c.g. at upper contact with m.g. interior

142.9-146.7
Talcose Ultramafic: blue green, f.g. massive
- crude foln, not a fault zone due to creation of serp(?)

146.7-151.2
Quartz-Feldspar-Hornblende Dyke: chill margin upper contact; assimilation 6-8" at lower contact

151.2-168.4
Serp. Talcose ULTRAMAFIC: blue green, massive, f.g.
- actinolite veins (½") weak to mod. as approaching quartz vein
- calcite
- approaching quartz vein veining changes at contact marked by calcite vein to geolite (?)

168.4-169.9: Geolite (?) Silicified Ultramafic with pyrite, pyrrhotite; calcite veining (1-2%) strong

169.9-169.0 Silicified Ultramafic

169.0-175.3
Mineralized Quartz Vein: coarse py pyrrh with (massive) otherwise massive
- minor cpy and trace pentlandite intimately mixed

169-170.3: Massive py minor po
170.3-173: Massive po, trace py
173.-175.3: Quartz vein & po/py stringers

175.3-180.5
Mineralized Silicified Carbonatized Ultramafic: 20% garnets 1-4mm
- stringers of po/cpy/py and dis. po/py
- highly altered

HOLE #: 00N-5 | PROJECT: Reactive | PAGE NO: 4 OF

CASING COLLAR ELEV.: | GROUND ELEV.: 9999' | DATE STARTED: June 28/87 | REF. TO CLAIM CORNER:

COORDINATES: [illegible] | DATE FINISHED: June 30/87 | SCALE: 1" = 10'

INCLINATION: -65° | BEARING: 120° | TOTAL DEPTH: | LOGGED BY: M. Wilson

COMMENTS: Banded Hornfelsic texture in silicified UM: 185-186

AVE CORE REC'Y / HOLE:

SECTION	ALTERATION: SERPENTINE	ALTERATION: CHLORITE	ALTERATION: CALCITE	ALTERATION: QUARTZ	FRACTURING	MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTIMATED

DESCRIPTIVE GEOLOGY

180

185-193.5
Melange of dk grey foliated material and stringers & angular masses of Ultramafic (90% felsic 10% UM)
- mineralization restricted to UM zones; probably a silicified UM w/ magnetite grains
// foliation near base.

193.5-194.0 : Carbonatized Ultramafic - silicified

194-196 : silicified Ultramafic : banded with hornfelsic texture (quasi porphyroblasts) - c.g.

196-190.5
Carbonaceous Ultramafic : dk green, massive, 5% reg. magnetite flecks
- diss. po, py, cpy and py in stringers of calcite

190

190.5 - 197
Altered Ultramafic : lt grey, semi-banded with chloritic & siliceous chloritic & siliceous bands
- frequent pyrite-calcite veins

197-205 : very siliceous no textures evident, possibly felsic unit (tuff?)
Felsic Volcanic : lt gray, f.g and massive

200

205-207 : Ultramafic : gradually increasingly ultramafic until last 6" - massive green & fg.
- possibly fragmental with poor garnet development (c/s), minor quartz eyes c.g.

207-217
Silicified unit: largely composed of ± bands of hornfelsic texture (Biotite porphyroblasts)
- minor calcite alterations as large zones bleached buff brown with rare veining
- may have been ultramafic before but beyond recognition now

210

217-225.8
Altered Ultramafic : not massive, banded with calcite and quartz (minor)
- mineralized in minor amounts with po, py. as diss. grains and occassional stringers
- often has dense appearance due to alteration
- perhaps it results from metamorphism but not really evident here
- lower contact not sharp as much as upper

220

225.8-230
Siliceous unit (felsic tuff ?) : massive, f.g, lt greenish gray (sl. chloritic)
- appears to be altered ultramafic with quartz rich lenses (minor)
- showing more chloritic towards base

230-235.1
Altered Ultramafic : poor, banded, sl. schistose ; massive f.g., minor sulphides
- gradational upper contact, progress compositional change & 80% massive last 4"
- contact at base bounded by ± quartz rich vein

230

235.1-248
Altered basaltic Volcanics : strongly fractured near lower contact
- massive, f.g. dk grey

HOLE I.D. 80N-8 | PROJECT: | PAGE NO: OF

CASING COLLAR ELEV.: | GROUND ELEV.: 949.9 | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: 11839.9 N. 10599.8E. | DATE FINISHED: | SCALE: 1 1/2" = 10'

INCLINATION: | BEARING: | TOTAL DEPTH: 302 | LOGGED BY:

SECTION	ALTERATION: HEMATITE	ALTERATION: CHLORITE	ALTERATION: CALCITE	ALTERATION: QUARTZ	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTIMATED
240																

DESCRIPTIVE GEOLOGY

- Hornfels texture

248-249.6 Altered Ultramafic:
- gradational contact at upper and lower zones
- last 4" massive and weakly mineralized

249.6' Altered Dacitic Volcanics
- slight bleached buff brown in fractured quartz-calcite veined zone from 249.8-250.8
- predominantly massive, f.g. lt. grey
- appears to be sequence of lavas and tuffs, minor fragmentals; alteration consists largely of chlorite, perhaps secondary or dissimilation of proximal Ultramafic

Mineralization
- trace to nil pyrite disseminated

- Fragmentals (1-2 cm)

Hornfels Texture
- appears to be composed of lt. quartz, not similar in composition to hornfels developed in volcanics near mineralized zone.

279-288 Zone of serpentinized Ultramafic; gradational compositional change but only poorly developed

Hornfels

300

HOLE NO: DDH-8

CASING COLLAR ELEV.:

COORDINATES: N[illegible]E: [illegible]E

INCLINATION: -60°

GROUND ELEV.: 949.9'

BEARING: N30°E

PROJECT: REDSTONE

DATE STARTED: June 28/77

DATE FINISHED: June 30/77

TOTAL DEPTH: 302'

PAGE NO: OF

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: M. Wilson

SECTION	ALTERATION: SERICITE	ALTERATION: CHLORITE	ALTERATION: CALCITE	ALTERATION: QUARTZ	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTIMATED
300																
302	x	x	x	x				slight bleaching near carb-qtz system; sl. chlorite alt'n End of hole. 302' in altered dacitic volcanics Logged by Mike Wilson June July 2/77								

PAGE NO.: 1 OF 6

CASING COLLAR ELEV.: GROUND ELEV.: 949.9'

COORDINATES: 11833.9 N. 16077.8 E.

INCLINATION: -65° BEARING: N30°E

PROJECT: KEOSTONE

DATE STARTED: June 28/77

DATE FINISHED: June 30/77

TOTAL DEPTH: 302' @ 65°

HOLE NO.: DDH-8

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: M. Wilson

CORE										SLUDGE									
DEPTH INTERVAL		SAMPLE NO.	INCHES REC	% REC.	ASSAY					DEPTH INTERVAL		SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
FROM	TO									FROM	TO								
0																			

PAGE NO.: 2 OF 6

CASING COLLAR ELEV.:

GROUND ELEV.: 9494'

COORDINATES: 11539.9 N. 16699.8 E.

INCLINATION:

BEARING:

PROJECT:

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: R-8

REF. TO CLAIM CORNER:

SCALE:

LOGGED BY:

DEPTH INTERVAL		CORE								DEPTH INTERVAL		SLUDGE							
		SAMPLE NO.	INCHES REC.	% REC.	ASSAY							SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
FROM	TO									FROM	TO								

60

120

PAGE NO.: 3 OF 6 | PROJECT: | HOLE NO.: P-8

CASING COLLAR ELEV.: | GROUND ELEV.: 949.9' | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: 11839.9 N. 16699.8 E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY:

CORE										SLUDGE						
DEPTH INTERVAL		SAMPLE NO.	INCHES REC.	% REC.	ASSAY					DEPTH INTERVAL		SAMPLE NO.	LBS. REC.	% REC.	ASSAY	
FROM	TO				Au	Ag	Cu%	Ni%	Zn	FROM	TO					
160	166.4	005447			tr	nil	trace	0.13	0.01							
166.4	169.0	005448			tr	nil	tr	0.10	0.01							
169	175.5	005449			tr	nil	0.01	0.02	0.01							
175.5	180.5	005450			tr	nil	tr	tr	tr							

PAGE NO.: 4 OF 6

PROJECT:

HOLE NO.: R-8

CASING COLLAR ELEV.:

GROUND ELEV.: 9499

DATE STARTED:

REF. TO CLAIM CORNER:

COORDINATES: 118739.9 N 116591.82.

DATE FINISHED:

SCALE:

INCLINATION:

BEARING:

TOTAL DEPTH:

LOGGED BY:

CORE											SLUDGE							
DEPTH INTERVAL		SAMPLE NO.	INCHES REC.	% REC.	ASSAY					DEPTH INTERVAL		SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
FROM	TO				Au	Ag	Cu	Ni	Zn	FROM	TO								
180.5	184.0	00551			tr	nil	tr	tr	tr										
184.0	186.0	00552			tr	nil	tr	001	tr										
186.0	190.5	00553			tr	nil	tr	tr	0.01										
205	207	00554			tr	nil	tr	tr											
217	220	00555			tr	nil	tr	tr											
220	225.9	00556			tr	nil	tr	tr											
230	235.1	00557			tr	nil	tr	tr											

PAGE NO.: 5 OF 6 | PROJECT: | HOLE NO.: R-8

CASING COLLAR ELEV.: | GROUND ELEV.: 9959 | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES 18830'N 6555'E. | DATE FINISHED: | SCALE:

INCLINATION | BEARING | TOTAL DEPTH: | LOGGED BY

CORE										SLUDGE								
DEPTH INTERVAL		SAMPLE NO.	INCHES REC.	% REC.	ASSAY					DEPTH INTERVAL		SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
FROM	TO				Au	Ag	Cu	Ni		FROM	TO								
240																			
248	249.6	005598			tr	nil	tr	tr		0									
300																			

PAGE NO.: 6 OF 6

CASING COLLAR ELEV.: GROUND ELEV.: 9499'

COORDINATES: 11837.9 N. 16519.8 E.

INCLINATION: BEARING:

PROJECT:

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 17-8

REF. TO CLAIM CORNER:

SCALE:

LOGGED BY:

CORE										SLUDGE									
DEPTH INTERVAL		SAMPLE NO.	INCHES REC.	% REC.	ASSAY					DEPTH INTERVAL		SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
FROM	TO									FROM	TO								
300																			
350																			