



42A06SE0099 33 ELDORADO

Diamond Dr

010

Township of ELDORADO

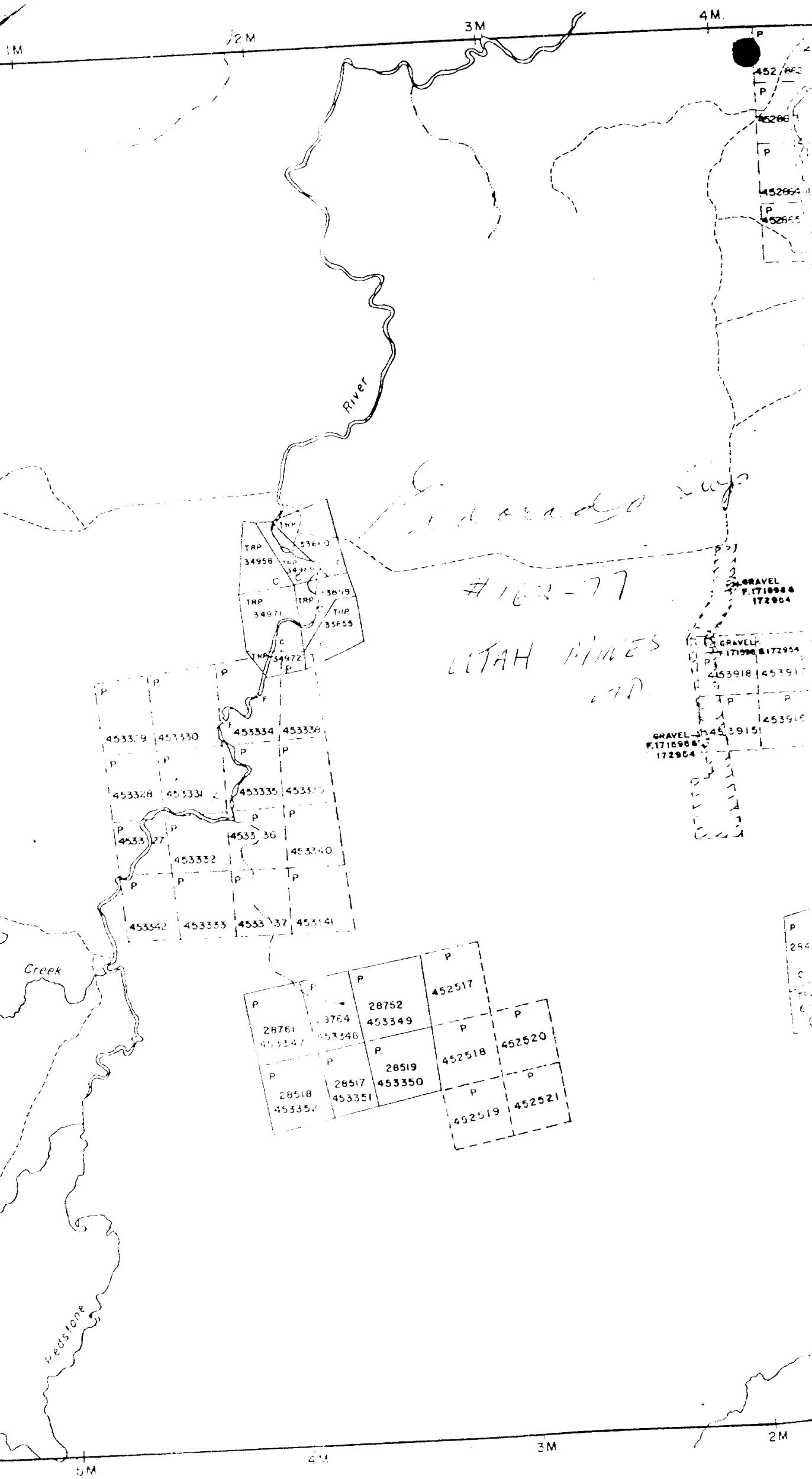
Report NO 33

Work performed by Utah Mines Limited

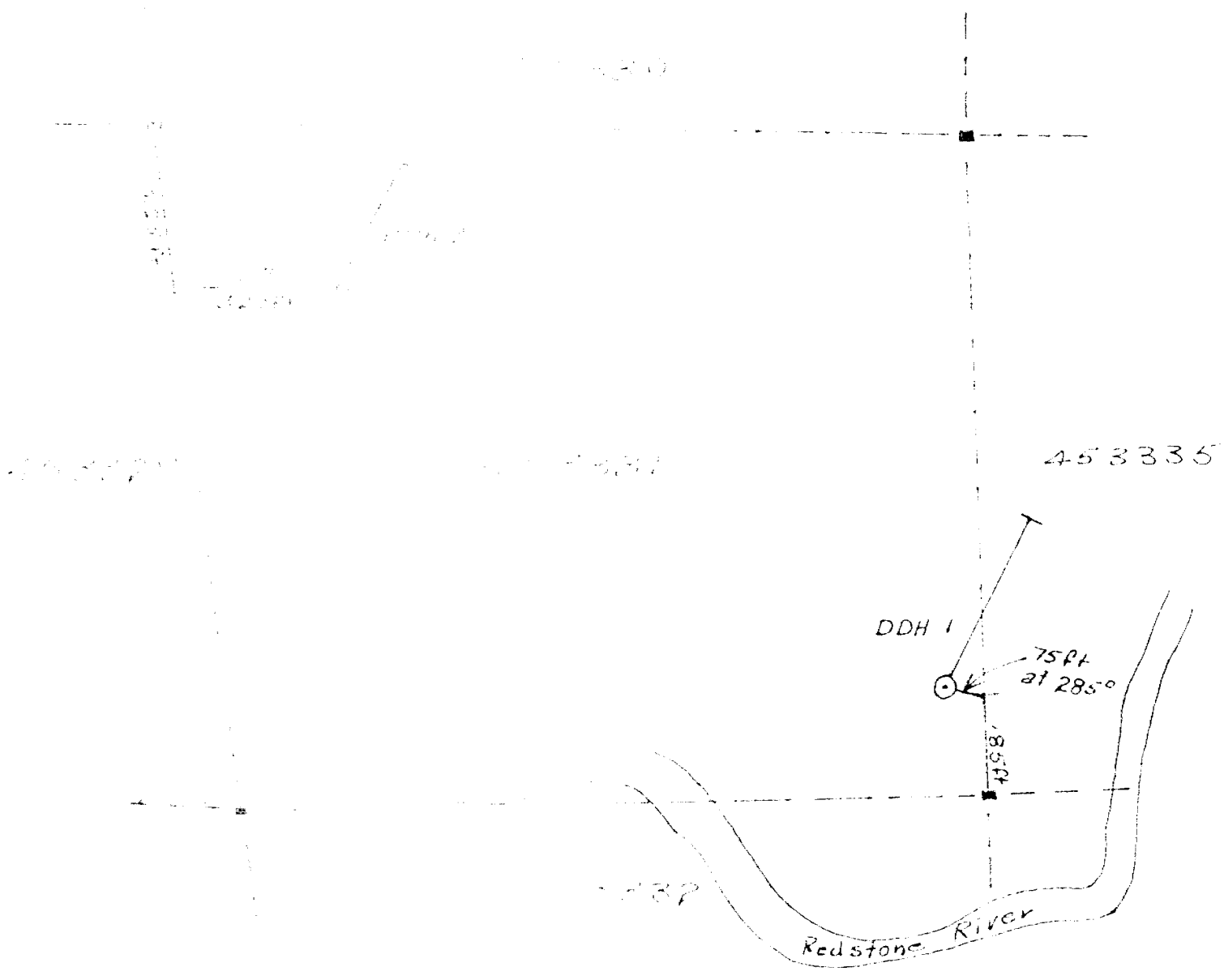
Claim NO	Hole NO	Footage	Date	Note
F 453331 E	1	526.0'	June/77	(1)
F 453335				
F 453331	2	423.0'	June/77	(1)

Notes:

(1) #162-77



Douglas Tp. - M.274



UTAH MINES LIMITED			
EXPLORATION DEPARTMENT			
MONTICELLO, UTAH, CANADA			
NEEDLE MINE PROPERTY			
Location DDH #1 + #2			
DATE	BY	TITLE	MAP
12/27	2A16		1 of 1
		600	

N30E

45.1335

11.2.47

11.2.47

Section 1

311 ft

526 ft

UTAH MINES LIMITED

EXPLORATION DEPARTMENT
SALT LAKE CITY, UTAH, U.S.A.

REDSTONE PROPERTY

Section through DDH#1

PROJECT	DATE	WORKED	BY	FILE	MAP
74-081			42A6	-	11
					200

WELL NO. 204-2

PROJECT: AD 20504-

DATE: 6/8

DATE: 6/8

LOG NO. 1

DATE STARTED: June 3, 1977

DEPT. OF ENERGY

WELL NO. 204-2

LOG NO. 1

DATE COMPLETED: June 6, 1977

LOG NO. 1

WELL NO. 204-2

LOG NO. 1

LOG NO. 1

LOG NO. 1

0-5' 0-10' 15' 20' 25' 30' 35' 40' 45' 50' 55' 60' 65' 70' 75' 80' 85' 90' 95' 100'
 M. 100' 200' 300' 400' 500' 600' 700' 800' 900' 1000'
 100' 200' 300' 400' 500' 600' 700' 800' 900' 1000'
 100' 200' 300' 400' 500' 600' 700' 800' 900' 1000'
 100' 200' 300' 400' 500' 600' 700' 800' 900' 1000'
 100' 200' 300' 400' 500' 600' 700' 800' 900' 1000'
 100' 200' 300' 400' 500' 600' 700' 800' 900' 1000'
 100' 200' 300' 400' 500' 600' 700' 800' 900' 1000'
 100' 200' 300' 400' 500' 600' 700' 800' 900' 1000'
 100' 200' 300' 400' 500' 600' 700' 800' 900' 1000'
 100' 200' 300' 400' 500' 600' 700' 800' 900' 1000'
 100' 200' 300' 400' 500' 600' 700' 800' 900' 1000'

The core consists of approximately 40% of ...
 magnetite, large grains of which are increasingly ...
 over 100% of ...
 and ...

85.6
 85.6

DEPTH	TEMPERATURE	PRESSURE	WELL HEAD PRESSURE	WELL HEAD TEMPERATURE	WELL HEAD PRESSURE CORRECTED	WELL HEAD TEMPERATURE CORRECTED	WELL HEAD PRESSURE CORRECTED & TEMPERATURE	WELL HEAD PRESSURE CORRECTED & TEMPERATURE	WELL HEAD PRESSURE CORRECTED & TEMPERATURE	WELL HEAD PRESSURE CORRECTED & TEMPERATURE
0-20'										
20-40'										
40-60'										
60-80'										
80-100'										

0-20' BO casing set in sand and gravel.

20-40' ...
 40-60' ...
 60-80' ...
 80-100' ...
 Magnetite - ...
 - strongly magnetic with ...
 - ...
 - ...
 - ...
 - ...
 - ...

40-50' ...
 50-60' ...
 60-70' ...

0011-2
 212W
 45°

2460N
 430°E

REDSIDE
 June 3, 1937
 June 5, 1937
 413' @ 40°

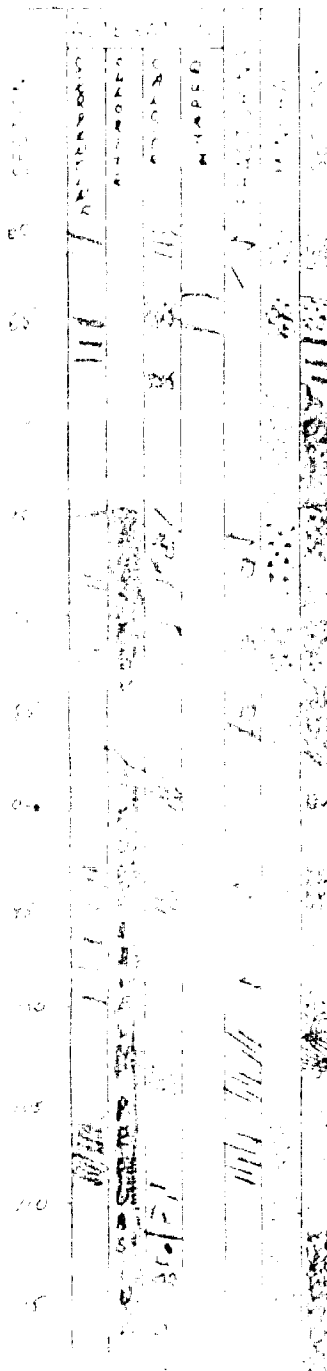
June 2, 1938
 M. Wilson

Sp. Fe. to base of flow. The more silica and generally increases with depth. Minerals in the zone appear to be preserved to some extent but are broken up.

856
 856
 856
 856

DESCRIPTION

- 437-448 - (See description above) Dip to the north, calcareous, in strongly calcareous (strong)
- 434-450 - MASSES PERITOTIC, siliceous, mineralized with iron pyrite
- 454-464 - MASSIVE PERITOTIC
- 699-740 - possibly a flow top or base between flows 4-8. massive matrix (MS 10%) and subordinate layers of pyrite, garnet, etc. disseminated as grains
- 759-838 - Ultramafic flow sequence, magnesian - developed by silica at top, generally massive, siliceous, by silica and developing in the zone of alteration of peridotite to talc, chlorite, etc. - color of the zone is greenish black. - 10% pyrite, garnet, etc. disseminated as grains.
- 840-850 - MASSES ULTRAMAFIC, massive black, very strongly magnesian - as 43-48, which appears as flow
- 859-910 - Ultramafic flow sequence, magnesian - pervasive alteration, magnesian, associated with fractures - great mineralization of visible pyrite - thin thickness - zones from top to bottom of - suggest gross iron dissemination - intensity of quality of pyrite with increasing alteration.
- 92-938 - flow structure and deformation (bedding?)
- 942-950 - serpentinized massive peridotite with 10% by white alteration grains disseminated
- 962 - 10% spatter texture (ultramafic sequence - tremolite) well developed - excellent texture



DEPTH (FT)	PERITOTIC	ULTRAMAFIC	SERPENTINIZED PERIDOTITE	SAMPLE NUMBER	CHECK	DATE
0						
10						
20						
30						
40						
50						
60						
70						
80						
90						
100						
110						
120						

HOLE NO. **DDM-2**
 CASING COLLAR ELEV.:
 COORDINATES **L126**
 INCLINATION **-45°**

GROUND ELEV.:
 N **1460N** E.
 BEARING. **N30°E**

PROJECT **REDSTONE**
 DATE STARTED **June 3, 1978**
 DATE FINISHED **June 5, 1978**
 TOTAL DEPTH **423**
220 @ 40°

PAGE NO. **3** OF **3**
 HOLE TO BE ABANDONED
 SCALE **1" = 10'**
 BY **Watson**

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS	AVE CORE RECOVERY	% CORE RECOVERED	CORE SAMPLE INTERVAL	SAMPLE INTERVAL	% RECY SAMP INT	LIST MATED	
	SERPENTINITE	CHLORITE	CHLORITE	HYDRATE											
120-130							<p>Flow thicker, 10-20' but no noticeable increase in sulfide mineralization at base.</p> <p>120-130 ULTRA matrix FLOW SEQUENCES: MAGNETIC - mineralization of pyrrhotite, if any, is concentrated at base of flow in massive rock as f.g. v.f.g. disseminated grains - calcite-serp along fractures with ccc. py - pervasive chlorite alteration characteristic</p>	85.6							
130-135							<p>131-132: f.g. white alteration dissemination (minor <1%) - occasional pyrite (5mm) dissemination</p>								
135-140							<p>132-140 massive Peridotite; f.g. dk grey blk with disseminated magnetic and pyrrhotite as fine to v.f.g. disseminated grains - pyrite is minor and chlorite alteration is moderately pervasive - large interorientation of flow, calcite in fractures with minor pyrite - two occurrences of calcite-magnetite-pyrrhotite at 132 and 137 zones - increase in magnetite over rest of section - no acule accumulation of magnetite or sulphides</p>								
140-145							shear								
145-150							shear								
150-155							shear: coin core 154.4-161.8								
155-160							<p>Feldspar-Hornblende-Quartz Porphyry type: - (grey white, massive mg to v.g.) - white-pink orange Feldspar crystals and hornblende largely altered to chlorite</p>								
160-165							<p>161.8-172.0 calcite-pyrite-epidote veins (1/8") common while calcite in matrix veins and occasional stringers MASSIVE PERIDOTITE: weakly magnetic - largely altered by pervasive serpentine, chlorite and calcite - pyrite mineralization in strong serpentine zone - schistosity highly variable; zone of deformation - f.g. white alteration crystals diss. near shear zone</p>								
165-170							shear zone								
170-175							<p>172.0-173.9: Qtz-Plagioclase-Biotite (+chlorite) type; 60% phenocrysts in glassy matrix Shear zone</p>								
175-180							<p>173.9-186.7: Qtz-Feldspar-Biotite type</p>								

HOLE NO. DDH-2

PROJECT REDSTONE

PAGE NO: 4 OF 8

CASING COLLAR ELEV.: GROUND ELEV.:

DATE STARTED: June 3, 1977

REF. TO CLAIM CORNER:

COORDINATES L72W N. 1460N E

DATE FINISHED: June 5, 1977

SCALE 1"=10'

INCLINATION -45° BEARING N30°E

TOTAL DEPTH: 428 ± 40'

LOGGED BY: M. Wilson

SECTION	ALTERATION				FRACTURING	MINERAL GEOLOGY	COMMENTS: Conductor: 195-204.7': Massive sulphide (pyrite) with minor pyrrhotite. Pentlandite eyes not evident within sulphide zone (less Nickel?)	AVE CORE RECY / HOLE 85.6	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY SAMP INT	ESTI-MATED	
	Serpentine	Epilote-pyrite-calcite	Calcite	Quartz												
180																
180-186.7							Pelotspar-Quartz-Biotite Dyke: m.c.g., massive, lt. gray orange - f.g. magnetite disseminated (1-2%); epilote-quartz and epilote-quartz-jadite-biotite envelopes			180						
186.7-195							Altered Volcanic Tuff (Dacitic): Moderately pervasive Chlorite alteration - massive f.g. (lt. gray grn); Calcite-pyrite veining abundant - po-py mixed on fracture-schistosity planes - sl.-mod. magnetite from po and minor magnetite		2%		95%					
195-204.7							MASSIVE SULPHIDE: (within Rhyolite volcanic) : Conductor - first 6" massive pyrrhotite; rest massive and colloform pyrite in siliceous rhyolite (granular & foliation) - colloform pyrite up to 1" diameter		95%							trace
204.7-227.35							Mineralized Quartz Vein: white, sugary f.g. textured Pyrite and Pyrrhotite: Pyrite: v. minor colloform at 205.3, thereafter as massive veins (1/4"), bands up to 1" l.c.a. and stringers (hairline to 1/8") - c.g. cubes common in veins and bands Pyrrhotite: massive granular texture in bands, veins, stringers and irregular patches Sulphides as monomineralic veins and stringers and polymetallic veins, stringers and bands. Occasional tan-calcite associated with veins and stringers.		90%		95%					trace
227.35-229.8							Silicified moderately magrate Volcanic Tuff: - f.g. (lt.-dk gray with biotite) f.g. (4mm); pervasive Calcite-jadite (red)-chert veining		40%							trace
229.8-233							c.g. Qtz-Pelotspar-Biotite dyke		15%							trace
233-236.35									20%							trace
236.35-240							Siliceous Volcanic Tuff: thinly banded (1") with alternating (lt.-dk gray bands (granular) f.g. with diss po, py; moderately fractured with epilote (gm)-Quartz		40%		95%		230-230.0	95%	3% Ni .8% Cu	
240-245									.5%				237.85	90%	trace	
									35%				239.2	85%	1% Ni .5 Cu	
									nil				237.0			
									10-15%				236.35		1% Ni tr. Cu	

HOLE NO. DDW-2

PROJECT REDSTONE

PAGE NO. 8 OF 8

CASING COLLAR ELEV.

GROUND ELEV.

DATE STARTED June 3/77

REF. TO CLAIM CORNER:

COORDINATES L 126

N 146°N E

DATE FINISHED June 5/77

SCALE 1"=10'

INCLINATION -45°

BEARING N30°E

TOTAL DEPTH 123 @ 40°

LOGGED BY M. Wilson

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
420							DESCRIPTIVE GEOLOGY	85.6							
						423	Hole stopped in massive feldspathic Gabbro dyke at 7:30 PM, June 5, 1977. Acid test showed 40° dip at end of hole. Log completed by Mike Wilson, June 16, 1977.				75	BA			

2450

3000
1150' E

May 29, 1977
June 1, 1977
2200 42°

SCALE 1" = 10'
M. D. ...

DEPTH	LITHOLOGY	DESCRIPTIVE GEOLOGY	ESTIMATED	% RECY SAMP IN	SAMPLE INTERVAL	RECYCLED	
						89%	
0-36'	Asst casing set in sand-gravel and boulder.						
40-50'	Massive dark green Peridotite; st. magnetic and largely altered to chlorite fine grain to medium grain	<ul style="list-style-type: none"> - pervasive calcification with associated magnetite grains disseminated throughout - calcite in veins and as part of matrix - pyrite and magnetite disseminated grains and 5-10 μm cubes - chlorite increasing downward chlorite decreasing 					
506'	Dark grey fine grained and sericitic pyrite and chlorite-quartz patches, some of which are quartz	<ul style="list-style-type: none"> - coarse grained epidote-chlorite causing hornblende texture 					
546'	Massive dark green SERPENTINIZED UCCANITE (very), fig ash-huff?, bould'd to assemblage	<ul style="list-style-type: none"> - pyrite disseminated as small magnetite, pyrite and calcite veins 					

B.C.

TRUC

TRUC

TRUC

100%

100%

ESTI-MATED

% RECY SAMP IN

SAMPLE INTERVAL

RECYCLED

89%

HOLE NO. DDH-2

CASING COLLAR ELEV.:

COORDINATES:

INCLINATION: -45°

GROUND ELEV.:

N.

E.

BEARING: N30°E

PROJECT: REDSTONE

DATE STARTED: MAY 27/88

DATE FINISHED:

TOTAL DEPTH:

PAGE NO. 2 OF 9

REF. TO CLAIM CORNER:

SCALE 1"=10'

LOGGED BY: M.W. Ison

SECTION	ALTERATION				MINERAL GEOLOGY	COMMENTS	AVE CORE REC'Y / HOLE 89%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI-MATED
	SERPENTINE	CLORITE-CHLORITE	Calcite	Qtz. Serpentine										
60						60-70.6' <u>ALTERED TUFFACEOUS VOLCANICS</u> : f.g. sequences (3-4'); coarsening down hole - 1-2 frags of Qtz + plagioclase (→ epidote) + biotite specks (grey where turbidite sequence?) - pyrite disseminated as grains; u. minor chalcopyrite - sl. to non-magnetic correspond to big medium to f.g. zones			100%					
65						70.6-80' <u>Qtz - Feldspar - Biotite (→ chlorite) Intrusive Dyke:</u>		5%	70					
70						80-90' <u>ALTERED Tuffaceous Volcanics (Crystal-Lithic Tuff)</u> - mafic to sl. intermediate composition				100%				
75						90-95.2' <u>ALTERED Mafic (sl. Intermediate) Tuff</u> : poorly developed bedding with minor magnetite disseminated as grains; possibly turbidite sequence with poor sorting - py cubes and disseminated grains minor								
80						95.2-100' <u>Massive Lt. Grey Tuff or Greywacke</u> ; unsorted; bedding undetectable - frags small (.1mm) of Qtz + feldspar; non-magnetic and unaltered								
85						100-104.8' <u>as above with very minor py patches disseminated</u>				100%				
90						104.8-110' <u>CHLORITE SCHISTOSE</u> : thin (1/2") banded chlorite-epidote-albite (minor) - massive, fine grained, light green alternating grey black bands								
95						110-120' <u>MASSIVE DARK GREEN BLACK PERIDOTITE</u> : extensive calcite-chlorite-serp alteration								
100						110-120' <u>MASSIVE DARK GREEN BLACK PERIDOTITE</u> : extensive calcite-chlorite-serp alteration								
105						111-120' <u>MASSIVE DARK GREEN BLACK PERIDOTITE</u> : extensive calcite-chlorite-serp alteration								
110						117.5-120' peculiar nonafetric texture caused by laths (1mm-3mm) of chlorite-serp replacement of olivine		5%		100%				

HOLE NO. DDH-1

PROJECT: REDSTONE

PAGE NO: 3 OF 9

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MAY 29, 1977

REF. TO CLAIM CORNER:

COORDINATES: L 4E

N. 13100 N E.

DATE FINISHED: June 1, 1977

SCALE: 1"=10'

INCLINATION: -45°

BEARING: N30°E

TOTAL DEPTH: 526'

LOGGED BY: M. Wilson

SECTION	ALTERATION			MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SERPENTINE	EPIDOTE-OMPH	CALCITE											
120						120-130 massive Peridotite: dk green black, sl. magnetite - extensive calcite-chlorite-serpentine alteration - continued non-felsic (or micro-spinifex) texture caused by chlorite-serp	89%			100%				
130						130-136 Pseudomorphs after olivine 130-130.6 Olivine decreases			130					
140						130.6-134.0: Massive Peridotite non-magnetite with white-yellow alt'n grains diss (10%) 134-135.0: Mineralized shear zone: intensive serpentine		1%				133	80%	Trace Cu, Ni
150						135-140: Massive Peridotite with white-yellow f.g. alt'n grains diss (15%) 140-150 MASSIVE Peridotite fg. lt. green non-magnetite - no white-yellow alt'n crystals				100%	BQ	137		
160						150-160 150-157: MASSIVE Peridotite: lt. grn fg., increasing magnetite 157-160: Lt. Blk. grn., sl. magnetite with black calcareous needles			150					
170						160-170: Massive Peridotite: lt. grn to blk grn with corresponding magnetite content 162-163.6: Whiteyellow fine grain alt'n crystals - non to sl. magnetite 167-168 - serpentized shear zone 169-170- Dip and serpentine increasing				80%				
180						170-180: MASSIVE SERPENTIZED PERIDOTITE: fg. lt grn, sl. magnetite - calcite-pyrite (crystals) along schistosity planes			170		70%			

HOLE NO. DPH-1

PROJECT: REDSTONE

PAGE NO: 4 OF 9

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MAY 29, 1978

REF. TO CLAIM CORNER:

COORDINATES: L & E

N. 1300N E.

DATE FINISHED: JUNE 1, 1977

SCALE: 1"=10'

INCLINATION: -45°

BEARING: N30°E

TOTAL DEPTH: 526'

LOGGED BY: M. Wilson

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS: Three types of unidentified alteration: as a) crystal-grain form. 2) vein 3) irregular masses (hard-possibly garnet as irregular masses and occ. crystals)	AVE CORE REC'Y / HOLE 89%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	SERPENTINE	CHLORITE-EP	CALCITE												
180															
185						180-190	Massive PERIDOTITE: extensively serpentinized, lt. green, f.g. and massive				90%				
190						184-185, 186-187: white-yellow f.g. with grains (10%) disseminated 188-189 Waxy almost flow texture of serpentine 189-190: Calcareous, blk-grn (increased magnetite)									
195						190-200	190-197 Siliceous (qtz-chlorite) f.g. intrusive dyke. - possibly silicified volcanic zone of magnetite bearing bands								
200						197-199	Massive Peridotite: calcareous, magnetic and f.g. blk-green.				90%				
205						200-210	200-202: Siliceous qtz-chlorite dyke, lt. gray, medium grain (feldspar?) 202-210: SERPENTINIZED PERIDOTITE. f.g. massive; banded sl. magnetic - possibly altered sediment or tuffaceous volcanic (?) - abundant calcite veining parallel schistosity								
210						210-220	210-214.3 Serpentinized Peridotite (?); banded lt grn-dk grn.								
215						214-223	Mineralized Quartz Veins: intimate mixture of pyrite, pyrrhotite and pentlandite(?) of vuggy-vein nature - mineral vein 70° to C.A.; schistosity of vein (weak) 20° CA				90%		213		Tr Ni
220						223-230	Silicified (80%) Peridotite: dk grn, f.g. massive - massive (?) seams and vein stringers of py, po, (pn?)						223		Tr Ni
225						220.4	Gradual transition into altered peridotite - f.g. shiny black with white granular calcareous grains aligned // (f.g.)						230		Tr Ni
230						230-240	PERIDOTITE. massive, fresh, f.g., m.g. irregular masses of granular white-red mineral associated with finely disseminated pyrrhotite // to banding // schistosity - occ silicified zones of 2-3 inches				80%		235		Tr Ni
235													240		Tr Ni

HOLE NO. **PDH-1**

PROJECT: **REDSTONE**

PAGE NO: **5** OF **9**

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: **MAY 29/77**

REF. TO CLAIM CORNER:

COORDINATES: **L 4 E**

N. **1300 N** E.

DATE FINISHED: **June 1/77**

SCALE: **1"=10'**

INCLINATION: **-45°**

BEARING: **N30°E**

TOTAL DEPTH: **526'**

LOGGED BY: **M. Wilson**

SECTION	ALTERATION				COMMENTS: ORANGE-RED VEINS, later followed by calcite. Colour, hardness (>6) warrants analysis.	AVE CORE REC'Y / HOLE 89%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI-MATED
	SERPENTINE	CHLORITE-EP	GALEITE	Quartz-Sulphide									
240											240		
245					240-250 MASSIVE PERIDOTITE: sl serp. f.g. dk, grn-blk 1/2" banding of dk grn - dk black // schistosity - garnets restricted to dk. black bands - yellowbrown calcite veining = 1/2" - f, po, mag diss. as grains in minor-trace amounts						245		T, Ni
250					250-260						250		T, Ni
255					251-258 HORNFELS TUFF (Intermediate): f.g. lt. gray - silicified quartz-plag-chlorite (porphyroblasts) - veining minor but 50° to bedding						255		T, Ni
260					258-260 Gradational transition into Peridotite						260		T, Ni
265					260-270 260-264: PERIDOTITE: pyroxenitic at base; blk grn, f.g. sl mag - 1-2% Pyrrhotite, pyrite disseminated 264-269: HORNFELS INTERMEDIATE VOLCANIC (as above, textured different) - particular globular texture in 1" bands; minor sulphides						265		T, Ni
270					269-280 MASSIVE PERIDOTITE: Dk grn-blk and f.g. - alternating patches of lt. gray white (pyrrhotite bearing) and f.g. green chloritic zones						270		T, Ni
275					275 becoming increasingly silicified changing colour to lt. gray v.f.g. - possibly intermediate felsic massive volcanic.						275		T, Ni
280					280-290 ALTERED PERIDOTITE: v.f.g., fractural (moderate)						280		T, Ni
285					2840-2846: Contact with intensely fractured (chlorite-calcite-epidote) altered dacite-rhyolite brecciated volcanic.						285		T, Ni
290					287-292: MASSIVE SULPHIDE: fine grain pyrrhotite and pentlandite with intimate chalcopyrite masses; f.g. to m.g. pyrite						290		1% Ni 5% Cu
295					292-300 ALTERED DACITE: f.g. massive. - intense to pervasive fracturing (chl-cole-epidote) - minor to trace py, po, cfy						295		T, Ni

