DIAMOND DRILLING REPORT
ON THE
TM'B' CLAIM GROUP
(TM 2,3,4,7,8,9)
AT
WEST RAFT RIVER, BRITISH COLUMBIA
(KAMLOOPS MINING DIVISION)

Latitude 51° 48' Longitude 120° 50'
N.T.S. 82 M/13W

by

G. Coxon BSc.
M. Tindall BSc.
I.M. Watson P.Eng.
I.M. Watson & Associates Ltd.

for

DENISON MINES LTD.

9871
Part 1
of 2

Submitted on October 6, 1981

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ACCOMPANYING REPORT

INTRODUCTION

The TM'B' Group forms the western half of the TM claims in the West Raft River area of the Shuswap Highland in south-central, B.C.

The claims were staked to protect scheelite mineralization and geochemical anomalies found by I.M. Watson and Associates Ltd., during reconnaissance exploration of the area during 1980 season.

Subsequent follow-up sampling and prospecting in August 1981, led to the discovery of scheelite bearing skarns on the TM7 and TM8 claims of the TM'B' group.

Mapping, sampling, and UV light lamping of the showings were followed by a seven hole 259 metre diamond drilling programme to test the scheelite bearing zone.

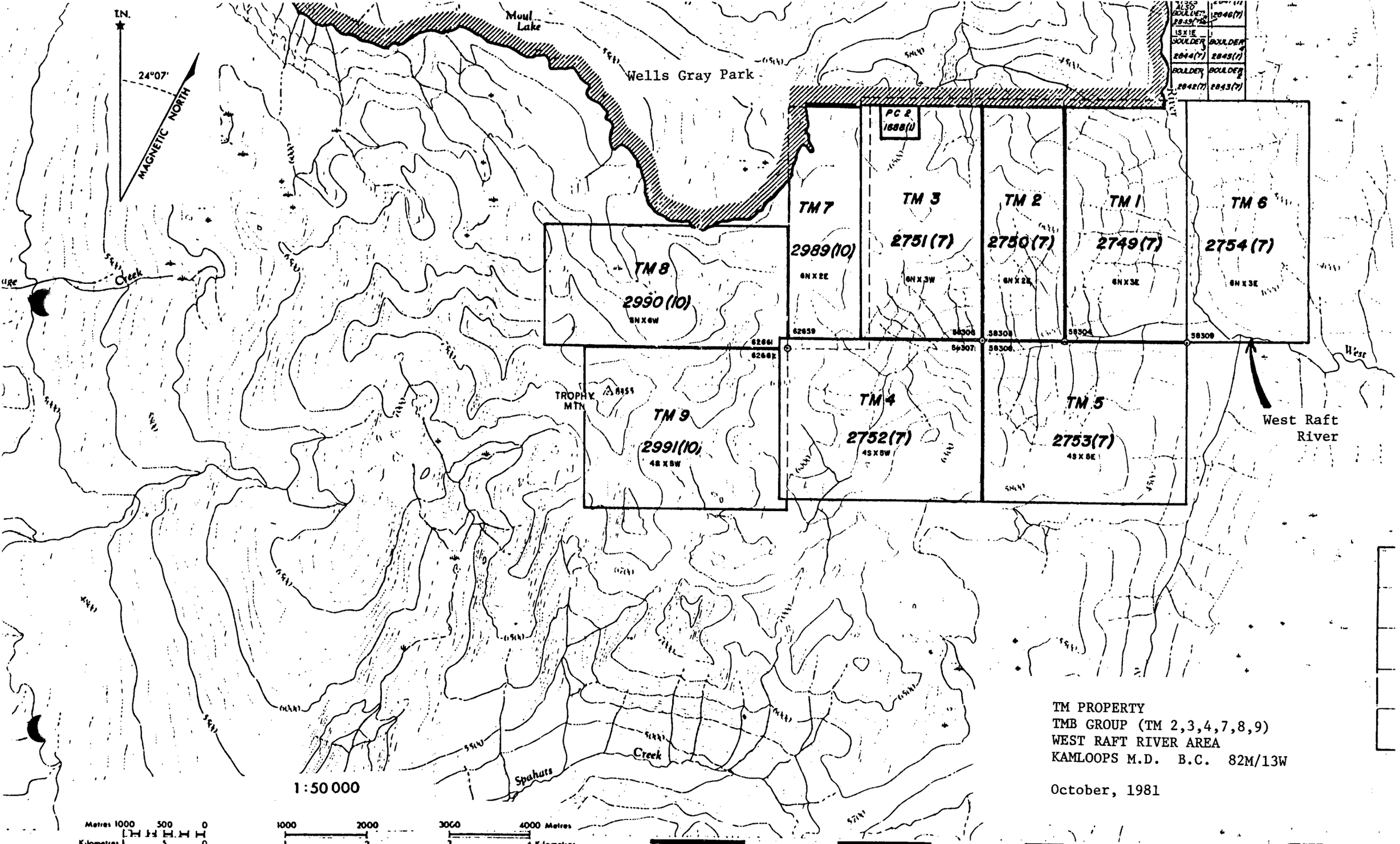
LOCATION AND ACCESS

The TM'B' group is situated 24 kms north-east of Clearwater, B.C. in the Kamloops Mining Division.

The claims form the western half of the TM property which flanks the southern boundary of Wells Gray Park and extends from the West Raft River on the east to Trophy Mountain in the west.

Elevations on the TM'B' group range from 1000m to 2550m.

Road access is by logging road #9, which leaves Highway #5 five kms east of Clearwater. Road distance to the property from Clearwater is approximately 45kms.



TM PROPERTY
TMB GROUP (TM 2,3,4,7,8,9)
WEST RAFT RIVER AREA
KAMLOOPS M.D. B.C. 82M/13W

October, 1981

Alternative access, particularly to the alpine areas, is by helicopter from Clearwater.

Coordinates of the claim group are:
latitude 51°48'N
longitude 120°50'W
NTS Ref 82M 13/W

CLAIMS

The TM'B' group consists of six mineral claims, listed as follows:

Claim Name	No.of Units	Record No.	Staking Date	Recording Date
TM2	12	2750	15 June 80	8 July 80
TM3	18	2751	16 June 80	8 July 80
TM4	20	2752	16 June 80	8 July 80
TM7	12	2989	12 Sept 80	6 Oct 80
TM8	18	2990	11 Sept 80	6 Oct 80
TM9	20	2991	15 Sept 80	6 Oct 80

The claims are owned by Denison Mines Ltd. of 650 West Georgia Street, Vancouver, B.C.

SUMMARY OF WORK DONE

Seven BQ diamond drill holes totalling 259m were drilled on the TM'B' group, on claims TM7 and 8, during the period 9th - 18th September, 1981.

Drilling was done by Beaupre Diamond Drilling Ltd. of Princeton using a BBS 15 diamond drill.

A tent camp was established at the drill site.

Support was provided by an Alpine Helicopters Ltd. Bell 47T helicopter, which ferried the crew and equipment to and from

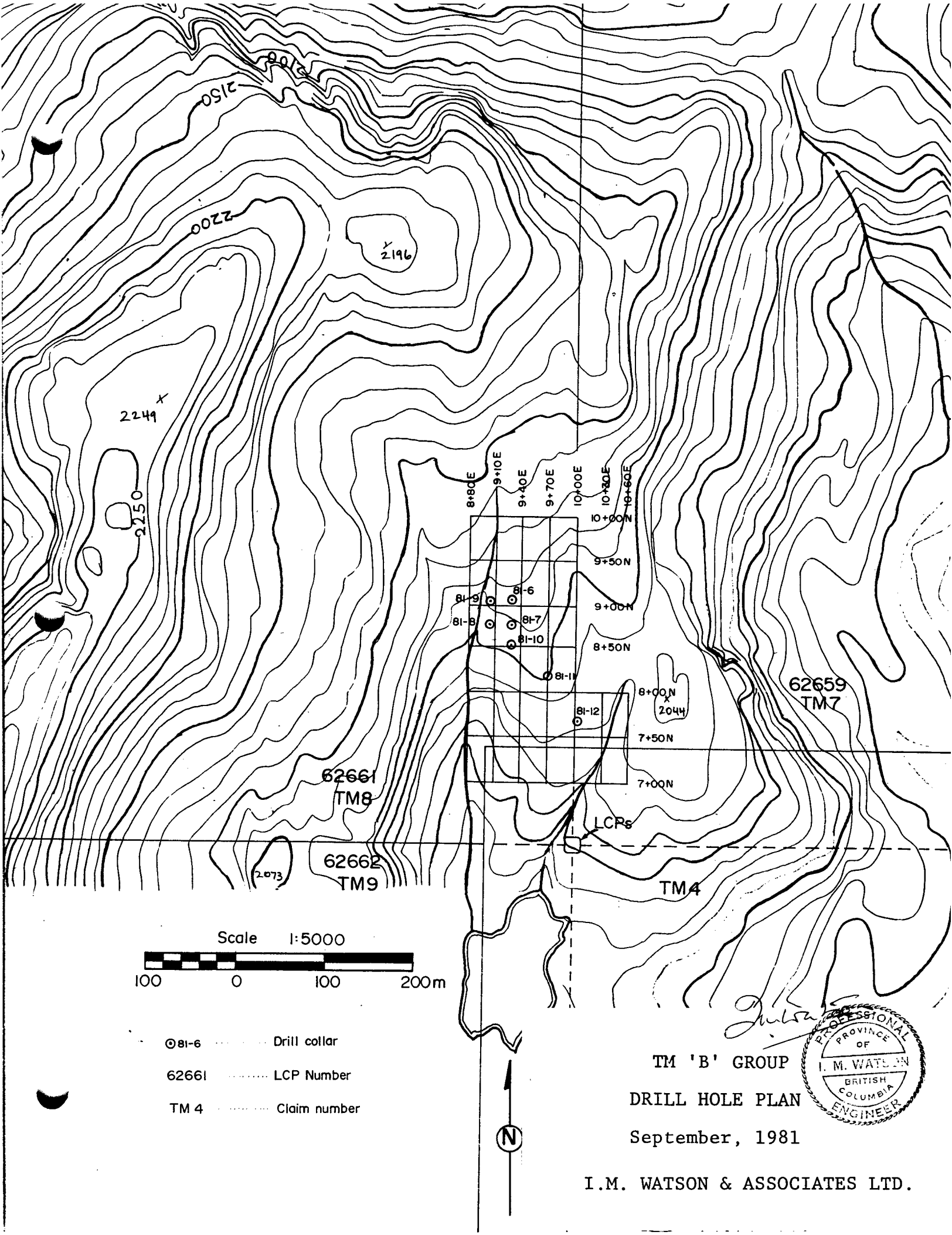
the Spahats Creek logging road, six and a half kms. to the south of the drill sites. The helicopter was also used to move the drill from site to site.

Core was logged and split on the property. On completion of the programme the core was transported to Clearwater where it is stored in space rented from Dr. D. Salisbury .

Split core samples were sent to Bondar-Clegg laboratories in Vancouver for assay.

Drill hole statistics are summarised below and in the logs accompanying this report. All holes were drilled vertically, and are 'BQ' diameter. No dip tests were made. All holes collars are tied by chain and compass to a 50m x 30m picket line grid which uses the north-south boundary between claims TM7 and 8 as a base line, and are thus tied to the LCP's at the common corners of TM's 7,8 and 9. Drill hole collar sites, picket line grid, and claim LCP's are plotted on the accompanying 1:5000 drill hole plan, which is a photo based contour plan of the showing area.

Hole #	Coordinates	Collar elevation(m)	Depth(m)	Claim Name
81-6	9+04N 9+27E	2067	43	TM8
81-7	8+78N 9+28E	2066	42	"
81-8	8+79N 9+04E	2065	31	"
81-9	9+03N 9+04E	2069	29	"
81-10	8+54N 9+29E	2063	33	"
81-11	8+20N 9+68E	2042	47	"
81-12	7+65N 10+07E	2030	34	TM7


2100
2150
2200
2196
2249
2250
2073
2044
8+80E
9+10E
9+40E
9+70E
10+00E
10+30E
10+60E
10+00N
9+50N
9+00N
8+50N
8+00N
7+50N
7+00N
81-6
81-9
81-7
81-8
81-10
81-11
81-12
62659
TM7
62661
TM8
62662
TM9
TM4
LCPs
Scale 1:5000
100 0 100 200m
⊙81-6 ..... Drill collar
62661 ..... LCP Number
TM 4 ..... Claim number
N
TM 'B' GROUP
DRILL HOLE PLAN
September, 1981
I.M. WATSON & ASSOCIATES LTD.
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
I. M. WATSON

GEOLOGY

The TM'B' group is underlain by rocks of the Shuswap Metamorphic Complex, consisting of quartz biotite schists and gneisses, migmatites and minor quartzite and marble. The metasediments are intruded by small felsic and pegmatitic sills and dykes and by rarer post-deformational lamprophyre dykes.

The general trend of the metasediments is northerly, dipping moderately to the west, but in detail there is great structural complexity with much variation of attitude as a result of drag and plastic deformation, and faulting.

Interest centres on a scheelite bearing skarn which has been traced along strike for approximately 200 metres. The skarn is partially exposed along the eastern flank of a northerly trending ridge.

The preliminary drill programme tested the down-dip extension of the mineralization exposed in outcrop. Holes were closely spaced to ease correlation of lithology and mineralisation .

CONCLUSIONS

Drilling has shown that skarn has developed in a series of carbonate beds within a sequence of biotite schists. At the northern end of the zone the skarn consists predominantly of garnet-quartz-idocrase. Scheelite is concentrated in garnet rich bands within the skarn. Total thickness of the zone is approximately 4 metres.

To the south the biotite schists become more calcareous with development of several narrow skarn zones throughout a total thickness of up to 10 metres. Total thickness of skarn remains 3-4 metres, but the skarn development diminishes, showing a transition from quartz-garnet-idocrase through garnet-wollastonite to wollastonite marble and marble with local development of large garnet 'porphyroblasts'.

Scheelite content also diminishes with decreasing development of skarn.

Further drilling is required to determine the full potential of the zone.

Submitted by

I.M. Watson & Associates Ltd.

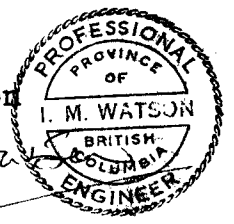
G. Coxon

Graeme Coxon

M. Tindall

M. Tindall

I.M. Watson



October 6, 1981

STATEMENT OF QUALIFICATIONS

I, Ivor M. Watson hereby certify that:

1. I am a consulting geologist, resident at 584 E. Braemar Road, North Vancouver, B.C.

2. I am a graduate of the University of St. Andrews, Scotland (BSc. Geology 1957).

3. I am a Professional Engineer registered with the Association of Professional Engineers of British Columbia.

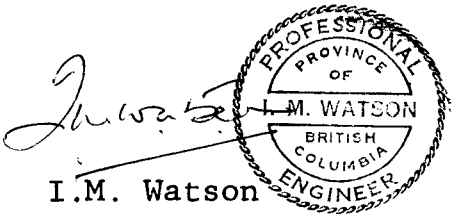
4. I have practised my profession continuously since graduation.

5. Work on the TM'B' Group was carried out by the following people working under my direct supervision:

   Graeme Coxon - geologist (BSc. Hons 1981 Queens University, Kingston, Ontario)

   Mark Tindall - geologist (BSc. Hons 1981 Queens University, Kingston, Ontario)

   Ian Gillespie - field assistant



I.M. Watson

COST STATEMENT

TM'B' Group (Claims TM 2,3,4,7,8 & 9)

Sept 3 - 21, 1981

Salaries

G. Coxon (geologist)	18 days @ $100/day Sept 4-21, 1981 incl	$1,800	
M. Tindall (geologist)	5 days @ $100/day Sept 4-7,20,1981	500	
I. Watson (project manager)	4 days @ $275/day Sept 7,8,9,19,20	1,100	
I. Gillespie (core splitter)	2 days @ $57.50/day Sept 4,5, 1981	115	$3,515.00

Food & Accommodation

Groceries	$ 207.47	
* Meals - 41 man/days @ $25/day	1,025.00	
* Dutch Lake Motel - 41 man/days @ $21.20/day	869.20	$2,101.67

* Includes helicopter pilot and engineer

Transportation and Gasoline

Truck rental - Rentway 2 4x4 3/4ton trucks @ $874.50/mo 34 vehicle days	$ 991.10	
Gasoline 418 litres @ $41.9/litre	175.14	$1,166.24

Equipment Rental

Omega Communications 3MT 201 handsets @ $70 ea/mo 9.00 ea/day 17 x 3 x $9.00		$ 459.00

Equipment Purchases

Lumber for camp construction	$ 275.25	
Stove oil for camp 45 gall @ $60.15	60.15	
Camping gear	103.63	
Coleman fuel	9.00	$ 448.03

Helicopter		
Alpine Helicopters Ltd. Bell 47-T - 32.7 hrs @ $260/hr	$ 8,502.00	
Helicopter fuel 17 barrels @ $89.50/barrel	$ 1,521.50	$10,023.50
Diamond Drilling		
B.W.casing left in holes 28ft @ $15.32/ft	$ 428.96	
Drilling 843ft @ $24.00/ft	$20,232.00	
Drillers labour standby & down-time - 124 hrs @ $20.00/hr	$ 2,480.00	$23,140.96
Assaying		
1 sample (Au) @ $8.00/sample	$ 8.00	
26 samples(W) @ $9.00/sample	234.00	$ 242.00
Telephone		$ 63.15
Core Storage		
Garage rental, Clearwater Sept 1981		$ 50.00
TOTAL		$41,209.55

HOLE NO.: MC-80-7 | PROJECT: Mineral Creek | PAGE NO.: 1 OF 2

COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: Sept 1, 1980 | REF. TO CLAIM CORNER: BZT-6

COORDINATES: N. E. | DATE FINISHED: Sept 2, 1980 | SCALE: 1:100

INCLINATION: -040° | BEARING: | TOTAL DEPTH: 27.43 m | LOGGED BY: G.L. Holland

COMMENTS:

AVE CORE REC'Y / HOLE

SECTION | ALTERATION (chl, ser, clay, chl/carb) | FRACTURING | MINERAL | GEOLOGY

DESCRIPTIVE GEOLOGY

0 - 3.96 Overburden

3.96 m

Feldspar-Quartz-Biotite Porph "Unit 5"

- pale green fine grained matrix
- comp - ~20% phenos - 9% fsp → ser + clay
  - 6% qtz
  - 5% bio → chl.
  - ~80% matrix - silica, sericite
- s/w weakly developed, containing MoS_2 and cpy
- 2-3% total sulphides
- phenos rounded to subrounded
- limonite strong on fractures
- fracturing very strong.

0.6 cm py vn lt

0.3 cm MoS_2 vn lt

1 cm qtz vn lt

3 cm gouge zone

1 cm qtz vn lt

1 cm gouge zone

1 cm qtz vn lt

Part 1 of 2

9BT7

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
2-3%	5.18		BQ wireline		
	7.75				
	10.97				
	13.11				

HOLE NO.: TC-80-7 | PROJECT: Hoodoo Creek | PAGE NO.: 2 OF 2

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

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

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

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ES MA

DESCRIPTIVE GEOLOGY

Feldspar - Quartz Biotite Porphyry "Unit 3"

1cm qtz vnlt ∅ MoS_2

1cm qtz vnlt

0.4cm py vnlt.

Pt - MoS_2 - cpy

16.9

17.98

20.30

23.11

24.69

27.43m End of Hole

BQ wireline

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 1 OF 28

COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: Aug 21, 1980 | REF. TO CLAIM CORNER: BZT 6

COORDINATES: N. E. | DATE FINISHED: Sept 1, 1980 | SCALE: 1:100

INCLINATION: -63° | BEARING: 181° | TOTAL DEPTH: 410.88m | LOGGED BY: G.L. Holland

ALTERATION: silica | sericite | clay | chl/epid | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT.

SECTION

DESCRIPTIVE GEOLOGY

0 - 0.31 m Stick-up

0.31 m

0.31 - 4.60 Overburden

4.60 m

Feldspar - Quartz - Biotite Porphyry "Unit 5"

- pale green, fine grained matrix
- composition - 15-20% phenos - 8% fsp → ser → clay.
  7% qtz
  5% bio → chl.
- 80-85% matrix - silica, sericite.
- phenos rounded to subrounded.
- pheno composition seems to vary from piece to piece but the above is an average.
- Qtz s/w mod to weakly developed - contains MoS_2 and cpy.
- 3-4% py - numerous py vnlts.
- Native Cu found periodically along frts.
- fracturing v. strong at start due to following slope face down.
- limonite strong on fractures.
- MoS_2 confined to qtz s/w.

* clay alt'n of fsps intense around frts.

* All gouge zones are highly oxidized

0.7cm qtz vnlt.

1.3cm qtz vnlt ẅ MoS_2

1cm gouge zone

1cm py vnlt ẅ 0.6cm qtz

0.7cm py vnlt. ẅ 1cm qtz envel.

2x1cm qtz vnlts.

Gouge zone - highly oxidized

0.2cm MoS_2 vnlt ẅ py

2cm gouge zone

30cm gouge zone

14.90 m

Fault contact

Feldspar - Hornblende Porphyry "Unit 10"

strong | strong to moderate | weak (phenos) | weak to mod (phenos) | v strong to intense

1cm - Py - MoS_2 - cpy - Nat. Cu.

3-4%

NQ wireline

7.6 | 10.6 | 13.6 | 14.90

Part 1 of 2
95m

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 2 OF 28
COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:
COORDINATES: N. E. | DATE FINISHED: | SCALE:
INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY:

ALTERATION (silica, sericite, clay, chl/epid) | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

SECTION	silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY / DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT
15–22.60	wk to mod	very strong	weak (phenos)	wk to mod (phenos)	strong to moderate	Py - (cpy) - (MoS_2)	see below	1½ - 2%			NQ wireline	18, 21, 22.60	
22.60–25.10	wk - strong	str to mod	v. weak	wk to mod	strong	Py-MoS_2-cpy	see below	3-4%				25.10	
25.10–30	wk to mod	very strong	weak (phenos)	moderate	v. strong	Py - MoS_2	see below	<1%				28	

Geology column notes (15–22.60 m):
- 0.8cm py vnlt w/ MoS_2
- 0.5cm qtz vnlt.
- 0.3cm py-cpy vnlt
- 1cm qtz vnlt cuts 0.4cm py vnlt
- 0.6cm py vnlt w/ silica salvege
- 2x 0.5cm py vnlts w/ 1cm sil. salvage
- 1cm qtz vnlt.
- 1.3cm qtz vnlt.
- 1cm py-qtz vnlt

Feldspar-Hornblende Porphyry "Unit 10" cont
- greenish grey color
- crystalline, feldpathic matrix - strongly altered to ser.
- matrix & phenos have same color due to same ser. alt'n
- porphyritic texture.
- composition - 50-55% phenos - 45% plag → sericite → clay
  - 5% Hbl → chl + epid.
  - 2% qtz
  - 2% sulphides.
- 45-50% matrix - sericite + silica
- less than 1% diss. sulphides rest as units or in altered Hbl crystals - alot of H/L py vnlts.
- limonite weak to mod along frts.
- clay alt'n confined to plag phenos around py vnlts.
- Py vnlts have strong (often > 1cm) silica envelopes
- frting mod to str.
- qtz phenos - rounded, plag & Hbl - subrounded

22.60m sharp contact. - py-qtz vnlt.

Feldspar - Quartz - Biotite Porphyry "Unit 5A"

Geology column notes (22.60–25.10 m):
- 0.6cm qtz vnlt
- 0.4cm py vnlt.
- 0.7cm qtz-py-MoS_2 vnlt

* Lots of H/L MoS_2 vnlts
- same discription as on page 1 except color is alittle darker green and less phenos.

25.10m sharp contact - qtz vnlt. (0.5cm qtz vnlt)

Feldspar - Hornblende Porphyry "Unit 10"

Geology column notes (25.10–30 m):
- 0.7cm qtz vnlt
- 0.5cm qtz vnlt
- bad cave - pebbles
- 0.8cm qtz-MoS_2 vnlt
- 0.3cm MoS_2-qtz vnlt

Same as above

- no diss sulphides.

* Numerous H/L qtz - MoS_2 vnlt.

Section marks: 15, 20, 25, 30

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 3 OF 28

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

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

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

SECTION | ALTERATION: silica | sericite | clay | chl/epid | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y.

DESCRIPTIVE GEOLOGY

Feldspar - Hornblende Porphyry "Unit 10" cont.

Extremely bad cave.
- small pebbles

silica: wk - mod
sericite: v. strong
clay: weak
chl/epid: mod.
FRACTURING: intense
MINERAL: Py - MoS_2
GEOLOGY: Py - MoS_2 - epy

% SULPHIDES: < 1%

32.30m — Fault Contact

Quartz - Biotite Porphyry "Unit 5A"

- green - grey color, crystalline matrix
- very weak porphyritic texture - sub porphyritic
- $qtz-MoS_2$ s/w moderate.
- composition - 5-7% phenos - 5% qtz, 2% bio + chl.
- matrix - silica + sericite.
- qtz phenos are rounded and have crackled appearance
- 2% sulphides mainly pyrite
- a lot of Hlk py unlts.

Extremely bad cave.
- small pebbles.

0.8cm $qtz-MoS_2$ unlt
0.6cm $qtz-MoS_2$ unlt
strong $qtz-MoS_2$ s/w
0.8cm qtz unlt
0.6cm $qtz-MoS_2$ unlt
0.8cm py-qtz unlt
0.2cm MoS_2 unlt.
0.6cm py unlt.
0.4cm py unlt.
1cm. qtz unlt
0.5cm py unlt ± 1cm siliceous salvage
0.4cm py unlt ± sil. envel
60 cm gouge zone ± clay
40° to C.A.

38-38 - Density of $qtz-MoS_2$ s/w - 5-7 per metre.

* MoS_2 confined to s/w.

* Py unlts have strong silicious envelopes. often > 1cm

38-44.4 - $qtz-MoS_2$ s/w density - 3-5 per metre.

43.0 - Diss. red-brown mineral present ??

% SULPHIDES: 2-3%

CORE SIZE: NQ wire line

44.40 m — Porphyritic Dacite "Unit 6"

SECTION: 30, 35, 40, 45

SAMPLE INTERVAL: 31, 32.3, 35.3, 38.3, 41.3, 44.4

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 4 OF 28

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

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

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

ALTERATION: silica | sericite | clay | chl/epid

FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

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

DESCRIPTIVE GEOLOGY

45

Porphyritic Dacite "Unit 6"

- dark green color - fine grained, siliceous matrix.
- composition - 25% phenos - 20% plag → ser
  5% epidote.
- matrix - silica, mafics (bio?) & sericite
- plag phenos subangular to subrounded
- epidote forms blebs - subrounded.
- fracturing v. strong
- minor bands or wisps of light green.
- very barren of structures.

* minor sections of 40-45% phenos - same ratio.

50

53

54

60

Extreme cave - pebbles

53.8 - 54.2 - strong limonite.

54.0m

Cave at contact.

Feldspar - Quartz - Biotite Porphyry "Unit 5"

- pale green color, crystalline matrix
- Qtz - MoS_2 s/w moderate
- fracturing very strong
- porphyritic texture
- composition - 25% phenos - 20% plag → ser → clay
  4% qtz
  1% bio → chl.
- matrix - silica + sericite
- epid blebs at top of section.
- 1% total sulphides.
- Numerous H/L py vnlts.
- minor limonite present.
- s/w density - 6-7 per metre

58.8 - 60.8 - Strong clay alt'n of fspar phenos.

0.3cm epid vnlt.

0.6cm qtz vnlt.

weak gouge zone.

bad cave.

0.6cm qtz vnlt.

strong cave.

1cm qtz-MoS_2 vnlt.

Strong | Strong | mod to str | weak | str | weak | very strong | py - MoS_2 - cpy

moderate chl/epid. | weak | V. strong | intense | (Py)

< 0.1 %

1 - 1.5 %

NQ wireline

48 | 51 | 54 | 57 | 60

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 5 OF 28

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

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

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

SECTION	ALTERATION (silica / sericite / clay / chl/epid)	FRACTURING	MINERAL	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.
60–71	silica: strong; sericite: moderate to strong; clay: mod to str (fractures); chl/epid: weak	very strong / intense	Py - MoS₂ - (Cpy)	→ 0.7cm qtz vnlt. → 20cm gouge zone → 1cm qtz vnlt. → 0.7cm qtz-py vnlt → 0.5cm qtz vnlt → 1cm py vnlt. Contains numerous qtz vnlts plus qtz-MoS_2 vnlts - all pebbles. → 0.3cm py vnlt. → 40° to C.A	Feldspar - Quartz - (Biotite) Porph. "Units" cont * Py vnlts have silicious salvege - up to 0.5cm 64 - 71.0 - Extremely bad cave - most often all that is present is pebble sized pieces. - Hard to pin point exact locations of structures. 71.0m Gouge or fault contact	2-3%			NQ wireline	60, 63, 66, 69, 71	
71–75	silica: strong; sericite: weak to mod (plems); chl/epid: mod chl/epid	mod to str.	Py	→ 10cm gouge zone	Porphyritic Dacite "Unit 6" - Same discription as on page 4. * Minor epidote vnlts. < 3mm wide.	0.5%				74	N

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 6 OF 28

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

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

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

SECTION	ALTERATION: silica	ALTERATION: sericite	ALTERATION: clay	ALTERATION: chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
75	strong	weak to moderate (phenos)	mod chl-str. epid.	Mod chl/epid	moderate to strong	pyrite		Porphyritic Dacite cont "Unit 6"							Not sampled
								76.0 - 77.4 - color lightens up.							
80								* Development of strong calcite along the fractures.							
										< 0.5%			NQ wireline	81	
								1cm epid vnlt						84	
85															Not sampled
								0.7cm epid vnlt							
								89.2 - 90.4 - color becomes black just before contact							
90															

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

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

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

ALTERATION: silica | Sericite | clay | chl/epid

FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

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

SECTION

90

95

100

105

strong (matrix)

strong (phenos + matrix)

weak (along frts)

weak chl + epid.

strong

intense

MoS_2 - (cpy)

30° to C.A.

90.5 m

0.5cm qtz vnlt.

0.2cm MoS_2 vnlt.

1cm qtz - py - cpy vnlt

0.4cm py vnlt.

0.7cm qtz - MoS_2 vnlt.

0.5cm epid vnlt.

1cm qtz - py vnlt.

2cm py vnlt.

0.7cm qtz vnlt.

0.5cm qtz vnlt.

0.8cm py vnlt. ± 1cm s/l salvage.

0.5cm py - MoS_2 - qtz vnlt

strong qtz - MoS_2 s/w

1cm qtz - py vnlt.

3cm qtz - MoS_2 vnlt

30cm gouge zone.

0.6 cm py vnlt.

1cm qtz - MoS_2 vnlt

50cm gouge zone.

Porphyritic Dacite "Unit 6"

sharp contact

Feldspar - Biotite - Quartz Porphyry "Unit 5"

- greenish grey color
- composition - 50% phenos - 35% plag → ser + clay
  - 8% bio → chl.
  - 7% qtz
  - 50% matrix - silica + sericite.
- a lot of bio phenos are only partly alt'd.
- qtz phenos, rounded - bio & plag, subangular.
- strong fracturing
- qtz s/w mod to strong - only minor MoS_2
- minor clay alt'n of phenos around thick vnlts and frts.
- minor epidote blebs present.
- Numerous HL py vnlts - often with weak silicious salvage
- 2-3% sulphides.

* MoS_2 confined to qtz s/w

* Increase in disseminated pyrite.

102 - 109.8 - Zone of strong shearing and gouge zones.

2-3%

3-4%

NQ wire line

90.5 | 93.5 | 96.5 | 99.5 | 102.5

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

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Feldspar - Biotite - Quartz Porphyry "Unit 5" cont.

shear zone w alot of gouge

109.8 - 111.8 - Rock has a slightly darker green color.

* Qtz s/w weak below shear zone.

0.7cm qtz vnlt.

0.4cm py vnlt.

1cm qtz vnlt

1cm qtz chl vnlt

1cm py-qtz vnlt.

0.7cm qtz-py vnlt.

0.4cm qtz vnlt.

0.3cm py vnlt.

0.7cm gouge zone

0.6cm qtz - MoS_2 vnlt.

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
105	strong	strong	weak (pheros)	weak chl - v weak epid	moderate to strong	PY - (MoS_2) - (CPY)		3-4%			NQ wireline	105.5	
110				wk chl ; epid / str chl wk epid	intense							108.5	
115												111.5	
												114.5	
												117.5	
120													

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 9 OF 28

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

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

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

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL
120	strong	strong	weak (phenos)	weak chl + epid	moderate to strong	py - (MoS₂) - (cpy)		1cm py vnlt; 0.6cm qtz-py vnlt; H/L MoS_2 vnlt; 0.5cm py vnlt; 0.7cm qtz vnlt; 0.6cm qtz vnlt; 0.4cm py-qtz vnlt; 3x0.7cm qtz-py vnlt; 2cm chl rich zone; 0.3cm py-qtz vnlt; 0.8cm qtz vnlt; 0.9cm py-qtz vnlt; 0.6cm epid-chl vnlt; H/L gouge zone; 0.2cm py vnlt; 1cm qtz vnlt; 1cm qtz vnlt	Feldspar - Quartz - Biotite Porph "Unit 5" cont. * s/w picked up - moderate. Composition - 45-50% phenos - 85% plag → ser → clay; 10% qtz; 5% bio → chl. -- 50% matrix - silica + sericite. * Very weak MoS_2 130.2 - 132.8 - Composition change - bio 10%, qtz 5%, fsp 35% - biotite are quite fresh.	4-5%			NQ wireline	120.5, 123.5, 126.5, 129.5, 132.5
125														
130														
135														

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 10 OF 28

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

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

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

ALTERATION: silica, sericite, clay, chl/epid | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT.

DESCRIPTIVE GEOLOGY

Feldspar - Quartz - Biotite Porphyry cont.

135.2 - Notable increase in MoS_2 in s/w
Density - 4-5 per metre

0.8 cm qtz - MoS_2 vnlt

1 cm qtz vnlt

0.7 cm qtz-py vnlt

str. s/w

1.3 cm epid - MoS_2 vnlt.

0.6 cm qtz vnlt

0.3 cm py vnlt ± MoS_2

0.4 cm py vnlt.

0.4 cm qtz vnlt.

0.5 cm py vnlt.

0.5 cm qtz vnlt

0.4 cm py vnlt

0.4 cm qtz-py vnlt.

0.3 cm py - chl vnlt

0.5 cm qtz-py vnlt

0.6 cm qtz vnlt.

0.7 cm qtz-py-chl vnlt

1 cm py-qtz vnlt.

0.2 cm MoS_2 vnlt

0.5 cm py vnlt

* H/L qtz s/w very weak - mostly > 3mm wide

SECTION: 135 | 140 | 145

ALTERATION: strong silica; strong sericite; weak (altered) clay; weak chl ± epid

FRACTURING: moderate to strong

MINERAL: pyrite - MoS_2 - (cpy)

% SULPHIDES: 3-4%

CORE SIZE: NQ wireline

SAMPLE INTERVAL: 135.5 | 138.5 | 141.5 | 144.5 | 147.5

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

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Feldspar - Quartz (Biotite) Porphyry cont.

154.0 - Composition - 35% phenos - 30% plag → ser
5% qtz
1% bio → chl.
- 65% matrix - silica rseri cite.

- alt'n very strong - often masks phenos.

* Py vnlts getting strong silicious envels again

- str chl.
- 1cm qtz-py vnlt.
- 1.5cm gouge zone.
- 1cm qtz-MoS_2 vnlt.
- 0.3cm py vnlt.
- 0.6cm py vnlt.
- 1.5cm gouge zone.
- 0.6cm py vnlt
- 1cm qtz vnlt
- 0.5cm py vnlt
- 1.5cm py-qtz vnlt
- 0.6cm qtz vnlt
- 0.8cm qtz-py vnlt.
- 1cm qtz-py vnlt.
- 2cm qtz-py vnlt.
- 1cm py vnlt.
- 3cm py-qtz vnlt.

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
150	strong (matrix)	strong	very weak (phenos)	weak chlorite	moderate to strong	Pyrite - MoS_2 - (cpy)		2-3%			NQ wire line	150.5	
155												153.5	
160												156.5	
												159.5	
												162.5	

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

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

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

ALTERATION: silica, sericite, clay, chl/epid | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT.

SECTION

DESCRIPTIVE GEOLOGY

Feldspar - Quartz - (Biotite) Porphyry cont.

- 0.5cm qtz-py vnlt
- 0.6cm qtz vnlt.
- 0.4cm py vnlt ω MoS_2
- 0.3cm py vnlt
- 0.4cm py vnlt.
- clay on frt.
- 1cm qtz vnlt
- 0.8cm qtz-MoS_2 vnlt.
- 1cm py vnlt
- 1cm qtz py vnlt
- Andesite dyke
- 2cm qtz-carb vnlt ω mod clay altn of fspars
- 1cm qtz vnlt ω MoS_2
- 1.5cm py vnlt.
- 0.4cm py-qtz vnlt
- 0.5cm qtz-MoS_2 vnlt
- 0.7cm py-qtz vnlt

169.0 - Porphyritic texture prominant again - weaker alteration

- comp - 40-45% phenos - 30% plag → sericite. 10% qtz 5% bio → chl.
- matrix - silica + sericite.

* Minor disseminated MoS_2 and cpy

174.45 - 174.80 - Andesite dyke - fault bounded

* Minor clay altn of fsps around fractures.

2-3%

3-4%

NQ wireline

165 | 165.5 | 168.5 | 170 | 171.5 | 174.5 | 175 | 177.5 | 180

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

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

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

ALTERATION: silica | sericite | clay | chl/epid

FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

SECTION | DESCRIPTIVE GEOLOGY | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT.

180

Feldspar - Quartz - Biotite Porphyry cont.

0.8cm epid vnlt

0.4cm qtz-py vnlt.

1.5cm chl vnlt.

0.6cm qtz vnlt.

0.5cm py vnlt

0.5cm qtz-py vnlt.

1cm qtz vnlt

py - MoS_2 - (cpy)

185

0.7cm qtz-py vnlt.

45° to C.A.

187.0 m sharp contact

Dacite Porphyry "Unit 6"

0.6cm epid vnlt.

187-189.5 - Rock is very black and only weakly porphyritic. - Good sulphides.

Discription: - dk green to black, fine grained, silicious matrix
- composition - 35% phenos - 30% plag → sericite
5% epid
- matrix - silica, bio ± sericite.
- plag phenos sub rounded to subangular.
- epidote subrounded - forms as blebs.

1cm py-qtz vnlt.

2x0.7cm qtz vnlts

1.5cm qtz vnlt

190

0.7cm qtz vnlt

1903-191 - Section of Unit 5.

Unit 5

py - (cpy)

0.4cm py vnlt

195

strong | strong | moderate (phenos) | mod chl : epid. | moderate to strong | strong | weak (phenos) | weak chl : epid | moderate to strong | 3-4% | 3% | <1% | NQ wireline

180.5 | 183.5 | 187 | 190 | 190.3 NS | 191

Not sampled.

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

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

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

SECTION	ALTERATION: silica	ALTERATION: sericite	ALTERATION: clay	ALTERATION: chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
								DESCRIPTIVE GEOLOGY							

195

Porphyritic Dacite cont "Unit 6"

strong | strong | mod chl/epid | moderate to strong | PY-(CPY)

* Some color variations - dark & light green.

200

0.7cm qtz vnlt.

< 1 %

204.0m

Feldspar - Quartz Porphyry "Unit 5"

same discription as before.

60cm fault zone.

205

strong | mod to str | weak | v. strong | PY-MoS_2-CPY

1.3cm qtz - MoS_2 vnlt.

3-4 %

rubble

206.9m

Cave @ Contact.

Porphyritic Dacite "Unit 6"

-some discription as on page 13.

< 1 %

NQ wireline

199 | 202 | 204 | 206.9 | 210

Not sampled | NS

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

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

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

ALTERATION: silica | sericite | clay | chl/epid | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

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

210

Porphyritic Dacite cont "Unit 6"

* minor epidote vnlts.

strong | moderate (phenos) | mod chl ± epid | moderate to strong | PY - (CPY)

0.6cm qtz vnlt.

30° to C.A.

218.5m

sharp contact.

Feldspar - Biotite - Quartz Porphyry "Unit 5"

- pale green color, silicious matrix
- moderate qtz - MoS_2 s/w developed.
- strong porphyritic texture.
- composition - 45% phenos - 90% plag → ser ± clay
  - 8% bio → chl.
  - 7% qtz.
- matrix - silica + sericite
- clay alt'n of phenos is confined to fracture or vnlt envelopes and strong in gouge zones.
- qtz phenos rounded, bio & plag subangular to subround.
- minor epidote blebs present.
- Numerous H/L py vnlts - often have silicious salvage.
- MoS_2 confined to qtz s/w.
- 2-3 % sulphides.

str. MoS_2 - qtz s/w.

strong | strong | weak | weak chl ± epid | strong | PY - MoS_2 - (CPY)

2x0.6 cm qtz - MoS_2 vnlt.

str. qtz - MoS_2 s/w

0.8 cm qtz vnlt.

1cm qtz - py vnlt. - cuts above vnlt.

0.6cm qtz - chl vnlt.

str. H/L py vning

1.2m gouge zone.

vuggy textures.

large shear zone

224.8 - 226.3 - shear zone

< 1 %

2 - 3 %

NQ wire line

215 | 218 | 218.5 | 221.5 | 224.5

Not sampled

225

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

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

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

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
225	str	wk	str	wk	intense			DESCRIPTIVE GEOLOGY							
	moderate	strong	moderate	weak to mod chl.	very strong	Pyrite - Hem		Feldspar - Biotite - Quartz Porphyry "Unit 5" cont"		2-3					
								150 cm shear zone							
								Fault contact.							
								226.3m						226.3	
								Feldspar - Quartz - Hornblende Porphyry "Unit 10"							
								- greenish gray color							
								- very weak sulphides							
								- strong porphyritic texture - csc grained phenos							
								- peppery appearance.							
								- composition - 80% phenos - 20% plag → ser → clay							
								5% qtz							
								5% Hbl → chl							
								- matrix - sericite + silica.							
								- rock is moderately altered.							
230														229	Not sampled
								15cm gouge zone.		< 0.5%					
														232	
235								40cm fault.							Not sampled
								235.8m						235.8	
	strong	strong	weak	weak	v. strong	py - MoS2 - epy		Fault contact							
								Feldspar - Quartz - Biotite Porphyry "Unit 5"							
								1cm qtz-py-MoS2 vnlt							
								- same as on page 15		2%					
								0.9cm qtz vnlt							
								0.4cm py vnlt.							
								238.2 m						238.2	
	str	weak	mod	mod-str.	py			Broken Contact							
								Porphyritic Dacite "Unit 6"		< 0.5%					N S.
								- dark green crystalline matrix							
								- porphyritic texture							
240								- composition - 15% phenos - 14% plag → ser. 1% biotite							
								- matrix - silica + ser.							

NQ wireline

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

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

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

ALTERATION: silica | sericite | clay | chl/epid

FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

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

240

Porphyritic Dacite "Unit 6"

- plag phenos subangular
- epidote blebs common.
- minor H/L calcite vnlts.
- frting mod to str.
- very weak sulphides
- no qtz vning

ALTERATION: strong (matrix) | strong | moderate | weak chl ± epid

FRACTURING: mod to str. | strong | intense | str.

MINERAL: pyrite | Py - (MoS_2) - (cpy)

GEOLOGY: 20° to C.A

245

245.5 m — sharp contact

Feldspar - Biotite - Quartz Porphyry "unit 5"

- pale green color
- weak qtz s/w developed.
- comp - 30% phenos - 20% plag → ser. + clay
  7% bio → chl
  3% qtz
- matrix - silica + sericite.
- clay alt'n of phenos prominant around frts. as salvage.

0.3cm py-qtz vnlt.

0.7cm py vnlt.

249 - 253.9 - Bad core.

- Numerous H/L py vnlts.

0.8cm qtz vnlt.

250

15cm gouge zone

10cm gouge zone

255

< 0.5%

3 - 4%

NQ wireline

Not Sampled

240 | 243 | 245.5 | 248.5 | 251.5 | 254.5

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

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Feldspar - Biotite - Quartz Porphyry cont. Hwr 5

256 - Decrease in fracturing

* Minor silica altn around py units.

* Weak qtz s/w.

265.5 - Very strong fracturing

Bad cave.

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
255	strong	mod	mod	weak chl & epid	str.		10cm gouge zone. 0.7cm qtz-py vnlt.						
							0.6cm py vnlt.					257.5	
							str. H/L py vning						
260		strong	weak		moderate to strong	py - cpy - (MoS_2)	0.7cm py vnlt.					260.5	
							0.8cm qtz vnlt ⊡ py.						
							0.9cm py vnlt.	3-4%			NQ wireline		
							trace Nat. Cu on fnt.					268.5	
265					v strong		0.5cm py vnlt.						
							3cm gouge zone.					266.5	
							0.6cm py vnlt.						
							1cm qtz vnlt.						
							20cm gouge zone.	2-3%					
							Bad cave.						
							30cm gouge zone.					269.5	
270													

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COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REP. TO CLAIM CORNER:

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

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

ALTERATION: silica | sericite | clay | chl/ep.d | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT.

SECTION

DESCRIPTIVE GEOLOGY

Feldspar - Biotite - Quartz Porph. cont.

270

0.3cm py vnlt.

0.8cm qtz vnlt.

0.3cm chl on frt.

1cm qtz vnlt.

str. py vning

275

0.4cm qtz-chl vnlt.

0.4cm py vnlt.

280

0.7cm qtz vnlt.

0.6cm qtz vnlt

0.5cm qtz-py vnlt

0.3cm py vnlt.

0.5cm qtz vnlt

1cm qtz-py vnlt

285

* Rock is not as strongly altered as before. This corresponds to very weak qtz s/w.

* Alot of the biotites are only partly altered.

* Numerous H/L py vnlts.

strong silica

strong sericite

weak chl - trace epid

moderate pyrite - cpy

2-4%

NQ wire line

2725

2755

2785

2815

2845

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 20 OF 28

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

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

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

ALTERATION: silica (strong) | sericite (strong) | clay (weak) (phenos) | chl/epid (weak chl + v. weak epid)

FRACTURING: moderate

MINERAL: Py - (cpy) - (MoS_2)

GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

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

285

Feldspar - Biotite - Quartz Porphyry cont.

- 0.5cm py vn/t.
- 0.6cm qtz vn/t.
- 2x0.7cm qtz vn/ts.
- 3cm qtz-py vn/t
- 0.3cm py-epid vn/t.
- 1cm qtz vn/t.
- 0.5cm py vn/t.
- 0.8cm qtz vn/t
- 0.5cm py vn/t
- 0.5cm qtz-py vn/t
- 4cm qtz-py vn/t.
- 2x0.4cm py vn/ts.
- 50cm gouge-shear zone
- vuggy qtz vn/t.
- 0.6cm py vn/t.
- 0.4cm qtz vn/t.
- 0.7cm qtz - MoS_2 vn/t.

* Rock only weakly altered - bio's often still fresh.

* After fault we get clay alt'n of the phenos around major fractures.

290

295

300

% SULPHIDES: 3-4%

CORE SIZE: NQ wire line

SAMPLE INTERVAL: 287.5 | 290.5 | 293.5 | 296.5 | 299.5

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 21 OF 28

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

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

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

ALTERATION: silica | sericite | clay | chl/epid

FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

SECTION | DESCRIPTIVE GEOLOGY | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT.

Feldspar - Biotite - Quartz Porphyry cont

300

- 1cm qtz-py vnlt.
- 0.5cm py vnlt.
- 0.7cm qtz vnlt.
- 1cm qtz vnlt

Comp - 35-40% phenos - 30% plag → ser. → clay
- 8% biotite → chl.
- 3% qtz
- matrix - silica + ser.

305

- 1cm py vnlt
- 0.4cm qtz vnlt
- 0.8cm py vnlt
- 1cm qtz vnlt.
- 1.3cm qtz vnlt
- 1cm qtz vnlt.

310

- 0.4cm py-qtz vnlt.
- 0.3cm py vnlt
- str MoS_2 on fnt.
- 0.9cm qtz vnlt.
- 0.7cm py-qtz vnlt

315

strong (matrix) | strong | weak | weak chl - nil/epid | moderate to strong | py - (MoS_2) - (cpy)

2-3%

NQ wireline

302.5 | 305.5 | 308.5 | 311.5 | 314.5

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 22 of 28

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

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Feldspar - Biotite - Quartz Porphyry cont.

0.3cm py vnlt.
0.7cm qtz vnlt
0.6cm py-epid vnlt.
0.5cm qtz vnlt.
0.4cm py vnlt
1cm qtz-py vnlt
0.9cm qtz-py vnlt.
0.3cm py vnlt
0.5cm qtz vnlt
0.7cm epid. vnlt.
1cm py vnlt
0.8cm py-qtz vnlt.
0.7cm qtz vnlt
0.8cm py vnlt
1cm qtz vnlt.
0.8cm qtz vnlt.
0.6cm qtz vnlt
1cm qtz-py vnlt

Numerous H/L py units.

* Minor red epidote units.

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
315	strong (matrix)	strong	weak (phenos)	wk chl.	moderate to strong	py - (MoS_2) - (cpy)	T	2-3%					
320				mod chl								317.5	
												320.5	
								3-4%			NQ wireline		
325				weak chl.								323.5	
												326.5	
												329.5	
330													

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 23 OF 28

COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REP. TO CLAIM CORNER:

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

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

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
330	strong (matrix)	strong	weak (phenos)	weak chlorite	moderate	PY - (MoS_2) - (cPy)		DESCRIPTIVE GEOLOGY		3-4%			NQ		
335													BQ wireline	332.5	
340														335.5	
345														338.5	
														341.5	
														341.5	

Feldspar - Biotite - Quartz Porphyry cont.

330.41 - Reduced to B.Q.

2x 1cm qtz vnlts.

330.41 - reduced to BQ

0.4cm py vnlt

0.8cm qtz vnlt

0.7cm py vnlt

0.4cm py vnlt

3cm qtz-py vnlt.

Comp - 40% phenos — 26% plag → ser.
10% biotite → chl.
4% qtz

- 60% matrix - silica + sericite.

* Numerous H/L py vnlts.

1cm qtz-MoS_2 vnlt.

0.7cm qtz vnlt.

0.3cm py vnlt.

1cm qtz vnlt.

0.8cm qtz-py vnlt.

1cm qtz vnlt.

1.5cm py vnlt.

0.7cm qtz vnlt.

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 24 of 28

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

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

ALTERATION: silica | sericite | clay | chl/epid. | FRACTURING | MINERAL | GEOLOGY

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

345

Feldspar - Biotite - Quartz Porphyry cont.

0.3cm epid vnlt.
1cm qtz vnlt.
1.5cm qtz-py vnlt
0.7cm qtz vnlt.
0.8cm qtz vnlt.
1.0cm qtz vnlt.
0.9cm py vnlt.
0.4cm py vnlt

silica: strong (matrix)
sericite: strong
clay: weak (phenos)
chl/epid: weak chlorite, mod chl/epid
FRACTURING: moderate
MINERAL: py - Mos - cpy

% SULPHIDES: 3-4%

350

CORE SIZE: BQ wireline

SAMPLE INTERVAL: 347.5 | 350.5 | 354.3

354.3m broken contact.

Hornblende diorite "Unit 2"

- coarse grained, inequigranular.
- weak foliation developed
- very strong fracturing
- a lot of py vnlts.
- comp - 50% plag → sericite.
  45% hbl. → chl.
  5% qtz
- very weak alt'n.
- contains minor silicious zones
- mod epid blebs and vnlts

0.4cm py vnlt

355

silica: weak
sericite: mod to strong
chl/epid: mod chl/epid.
FRACTURING: very strong
MINERAL: pyrite.

% SULPHIDES: 2-5%

0.7cm py vnlt.
0.3cm py vnlt
1cm qtz vnlt.
0.6cm py vnlt.

SAMPLE INTERVAL: 357.3

% REC'Y. SAMP. INT.: Not sampled.

360

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 25 of 28

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

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

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

ALTERATION: silica | sericite | clay | chl/epid

FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

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

360

Hornblende Diorite "Unit 2"

1cm gouge zone.
silicious zone.
str qtz s/w.
silicious zone
2x 0.8cm py vnlt.
1cm qtz vnlt
0.7cm py vnlt.
0.7cm qtz vnlt.
0.5cm py vnlt.
1.5cm qtz vnlt.
2x 0.6 cm py vnlts.
1cm qtz vnlt
15cm qtz vnlt.
0.6cm gouge zone.
silicious zone

360.4 - 360.6 - Silicious zone.

361.5 - 361.8 - Silicious zone.

372.2 - 373.4 - Silicious zone.

365

370

375

weak. moderate to strong mod chl ± weak epid

very strong pyrite.

3-5%

BQ wireline

365

368

Not sampled

Not sampled

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 26 OF 28

COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REP. TO CLAIM CORNER:

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

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

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
375								DESCRIPTIVE GEOLOGY							

Hornblende Diorite "Unit 2"

10° to C.A. — 375.8 m — sharp contact.

Feldspar - Biotite - Quartz Porphyry "Unit 5"

- green-grey color.
- comp - 30% phenos - 25% plag → ser.
  3% bio → chl.
  2% qtz
- matrix - silica + sericite.
- mod fracturing
- Numerous H/L py vnlts.

2x 0.8cm qtz vnlt.

0.5cm qtz vnlt.

375	strong	strong	mod	weak chl	moderate	py-(cpy)				2-3%				375.8	
380	weak	mod-str.	mod	wk chl	str.	py				5%			BQ wireline	378.5	

20° to C.A. — 380.6 m

Hornblende Diorite "Unit 2"

- same as before.

0.9cm qtz vnlt.

20° to C.A. — 381.9 m

Feldspar - Biotite - Quartz Porphyry "Unit 5"

0.5cm qtz vnlt.

0.4cm py vnlt.

- same as above.

380														380.5	N.S.
385	strong	strong	mod chl/epid	wk chl	moderate	py-(cpy)				2-3%				381.9	

20° to C.A. — 385.1 m

Hornblende Diorite "Unit 2"

1.8cm qtz vnlt.

0.4cm py vnlt

- same discription as before.

0.65m py vnlt.

385	weak	mod-str.	mod chl/epid	strong	py					5%				385.1	Not sampled
390															

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 27 of 28

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

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

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

ALTERATION: silica | sericite | clay | chl/epid

FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

SECTION | DESCRIPTIVE GEOLOGY | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT.

Feldspar - Biotite - Quartz Porphyry "Unit 5"

-same discription as before.

* Rock is very badly broken up.

Strong (matrix) strong weak chlorite

Very strong to strong pyrite - (cpy)

1cm qtz vnlt.

0.8cm qtz vnlt.

0.6cm py vnlt.

1cm gouge zone.

0.9cm py vnlt

0.7cm qtz vnlt

1cm qtz vnlt.

0.6cm qtz vnlt.

1cm gouge zone.

4cm gouge zone.

Extreme Cave.

2-3%

BQ wireline

390 | 393 | 396 | 399 | 402 | 405

HOLE NO.: KC-80-6 | PROJECT: Hoodoo Creek | PAGE NO.: 28 OF 28

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

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

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

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
405	strong	strong		weak chl.	str to v. str	Py - (cpy)		DESCRIPTIVE GEOLOGY		2-3%			BQ wire line	405	
								Feldspar - Biotite - Quartz Porphyry cont.							
								0.9cm qtz vnlt.						408	
410								2cm gouge zone.							
								410.88m End of Hole							

HOLE NO.: KC-80-5 | PROJECT: Hoodoo Creek | PAGE NO.: 1 OF 18

COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: Aug 13, 1980 | REF. TO CLAIM CORNER: BZT-6

COORDINATES: N. E. | DATE FINISHED: Aug 20, 1980 | SCALE: 1:100

INCLINATION: -61° | BEARING: 351° | TOTAL DEPTH: 266.7 m | LOGGED BY: G.L. Holland

COMMENTS: Fracturing: - V. strong >15 per metre
strong >10 < 15 "
moderate >6 < 10 "
weak >3 < 6
v. weak < 3

AVE CORE REC'Y / HOLE

SECTION	ALTERATION: silica	ALTERATION: sericite	ALTERATION: limonite	ALTERATION: chlorite	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
0								0 - 0.31 stick-up.						
								0 - 5.80 Overburden.						
5								5.80 m						
	strong	mod to strong	strong	weak to mod (after bio)	v. strong	lim - py - MoS_2 - cpy		Quartz-Biotite-Feldspar Porphyry "Unit 5"		6.10	87			
								- pale green, fine grained matrix						
								- porphyritic texture.						
								- composition - 15% phenos - 7% qtz, 5% biotite → chlorite, 3% fspar → sericite			75			85
								- 85% matrix - silica + sericite.		8.23				
								- very strong limonite - confined to fractures.			89		9	
								- qtz s/w weakly developed.		9.19				
								- numerous m/l py vnlts.			80			
								- 3 to 6% total sulphides - mainly py ⊃ minor MoS_2 and cpy.	3-5%	10.36				
								- Rock very strongly fractured to a depth of 25.3 m. - following hillside			52			70
								- cpy disseminated plus assoc. with MoS_2 in m/l frts.		10.97				
								- bio. completly altered to chlorite.			77		12	
								* MoS_2 found throughout in small quantities		12.19				
										12.80	26	NQ wire line		
										13.41	48			62
										14.17	88			
											76		15	

0.4cm py
m/l anhydrite vnlt.
0.8cm qtz-py vnlt.
str. MoS_2 ± cpy on frts.
0.1cm qtz vnlt.
10cm gouge zone
10cm gouge zone
1cm gouge zone.
1cm qtz vnlt.
15cm gouge zone.
6cm gouge zone.
1cm qtz vnlt.
40cm gouge zone

part of 9377

HOLE NO.: KC-80-5 | PROJECT: Hoodoo Creek | PAGE NO.: 2 OF 18

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

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Quartz - Biotite - Feldspar Porphyry "Unit 5"

* py vnlts have strong silicious enveloped - up to 1cm

20 cm gouge zone.
0.4cm py vnlt.
25cm gouge zone.
0.6 cm qtz vnlt.
ferroite.
0.7cm py vnlt.
0.8cm py vnlt.

22.50 - limonite becomes weak.
22.60 - 25.60 - shear or gouge zone.

str. shear or gouge zone w alot of qtz s/w and 0.15% MoS_2 - trace of limonite.

weak breccia
25.60 - Breccia at shear base.
1cm qtz vnlt

28.3 - End of limonite.

cave
scattered py vnlts.
0.7cm py vnlt
0.6cm qtz-py vnlt.

SECTION	ALTERATION: silica	sericite	limonite	chlorite	FRACTURING	MINERAL	GEOLOGY
15	strong	moderate to strong	strong	weak to moderate	very strong	lim - py - MoS_2 - cpy	
20							
25		weak			intense	py - MoS_2 - cpy - lim	
30					strong		

SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
3-5%	16.15	76	NQ wire line	15	
	16.61	72			78
		87			
	17.87			18	
	18.29	67			
		56			66
	20.12				
		74			
	20.88			21	
	21.79	88			
5-6%	22.40	87			84
		74			
	23.77				
	23.93	30		24	
	24.38	60			
	24.99	41			
		63			52
	26.52			27	
		90			
	28.19				95
		100		30	

HOLE NO.: KC-80-5 | PROJECT: Hoodoo Creek | PAGE NO.: 3 OF 18

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

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

SECTION	ALTERATION: silica	ALTERATION: sericite	ALTERATION: chlorite	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
30							Quartz-Biotite Feldspar Porphyry cont "Unit 5"					30	
						0.3cm py vnlt 0.5cm py-qtz vnlt 2x 0.3cm py vnlt Breccia 0.3cm qtz vnlt. 0.7cm qtz vnlt 0.8cm py vnlt 1cm py-qtz vnlt	* Increase in py vnlts towards breccia. 31.6-32.2 - Breccia - Unit 4 - Unit 4 occurs post unit 5 as pyrite vnlts are truncated or originated in unit 4. * decrease in MoS_2 and slight increase in cpy.	5-6%	31.24	100 99		33	100
35							34.90 m sharp contact Breccia - "Unit 4A" - color greenish-grey. - strong pyrite around the frags - 10-15% - frags are subrounded to angular. - comp. - frags - 20-80% of rock - comprised of Unit 5 and qtz - matrix comprised of py plus "unit 5" - frags range in size from 4mm to 5cm 50% ± 2cms. - MoS_2 + cpy found interstitial to the frags. - strong chl in matrix.	10-15%	34.29 37.34	102 98	NQ wire line	34.9 38	100 101 98
40							39.2 m Andesite Porphyry ?? "Unit 12" - extrusive rock - very silicious aphanitic groundmass - color green grey to light purple - often shows a color banding - weak chlorite and epidote. - fracturing weak. - comp - 30% phenos. - 15% fsp + ser. 12% qtz 3% mafic - chl. - 70% matrix - silica - minor chluritic fragments present.	< 1%	39.93	98		39.1	98
							42.3 m Breccia - "Unit 4A" - same as above - 90% of frags are from "unit 5"					42.3	
							* may be a crackle zone with fragment rotation.	10-15%	42.98	98 95		45	96
45													

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COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REP. TO CLAIM CORNER:

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Breccia "Unit 4A"

* decrease in interstitial pyrite. Increase in chlorite.

51.5 m — Quartz vnlt at contact.

Granodiorite "Unit 12"

- grey to bluish black color
- granular texture.
- fracturing strong
- basaltic composition.
  - 60% mafics 40% felsics - mainly silica.
- alot of py vnlts and up to 5% disseminated
- wk developed qtz s/w
- strong presence of green mineral - probably epid or poss. ol.

52.9 m — Breccia - "Unit 4A"

- frags - Unit 5 + purple voles + qtz + qtz porph.

Same discription as before

56.0 m — sharp contact

Dacite Porphyry Dyke "Unit 6"

- greenish grey color till depth of 59.3 m at which time a dark bluish grey color predominates - a gradual change.
- fnting weak to moderate.
- distinct porphyritic texture in an aphanitic siliceous groundmass. - phenos increase away from contact - upper
- minor breccia zenoliths present near the upper contact
- patches of epidote are present
- 1-2% sulphides @ minor diss bo and cpy.
- composition - (56.0 - 61.2) - 15% phenos - 14% fsp pseudomorphed by sericite, 1% qtz
  - 85% matrix - silica
- phenos - sub angular and < 3mm in size.

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY
45	mod to str.	mod	w. mod chlorite	mod to strong	moderate	py - MoSz - cpy	
50	str	wk-mod	w. mod epid	str.	str.	py - (cpy)	str cpy on frt. 0.8cm qtz vnlt
	mod - str.	mod	mod chl.	mod - str.	mod - str.	py - MoSz - cpy	badly broken; 3cm qtz vnlt
55	strong	v. weak (phenos)	weak (phenos)	weak epidote	wk to mod	py - bo (cpy)	40° to c.A.; 0.9cm py vnlt; 6cm zenolith; 1cm gouge zone; cluster py vnlts.

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
9-10 %	46.02	95	NQ wireline	45	
	47.85	83			89
	49.68	107		48	
	50.24	72			
	50.90	75			88
3-5%	51.82	87		51.5	
	52.43	134			105
7-8 %	53.64	76		52.9	
	54.24	105			
	54.86	113			100
1-2%	56.08	85		56	
	56.69	80			
	57.30	123			98
	60.05	95		59	
					95

HOLE NO.: KC-80-5 | PROJECT: Hoodoo Creek | PAGE NO.: 5 OF 18

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

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

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

SECTION	ALTERATION: silica	ALTERATION: sericite	ALTERATION: clay	ALTERATION: chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
60								AVE CORE REC'Y / HOLE		60.05				
	moderate to strong	weak to moderate	weak	moderate	wk to mod	py - hem		**Dacite Porphyry cont. "Unit 6"** 0.7cm carb. vnlt. 60.4 - End of most of sulphides. 60.4 - 64.6m - Composition - 40-45% phenos - 35-40% plag → sericite → clay - Kaolinite - 5% mafics → epidote + chlorite - 1-2% qtz - phenos - subangular to subrounded. - < 1% sulphides - minor hemetite.	< 1%		96			95
										62.79			62	
								qtz-carb vnlt. 20° to C.A.						98
								64.6 m.			99		64.6	
65								**Breccia "Unit 9A"** - Dark grey color - strongly fractured. - sulphides interstitial to the fragments - composition - 70% frags - 35-40% Hbl diorite - 25-30% dacite - trace qtz porph. frag 5% gneiss <1% purple volcanics - 30% matrix - silica, sericite, chlorite - frags. subrounded to angular - 70-80% >2cm in diametre - chl. comes from Hbl in the diorite frags		65.99				101
								masses of pyrite.						
								30cm diorite fragment			102		67	
								matrix a very dk green.						101
70					strong	py - Mo S_2 - cpy - Hem - (sph)		0.7cm py vnlt.	3-4%	69.04		NQ wireline	70	
								* Numerous H/L py vnlts.			101			96
								Minor rhodochrosite w Mo S_2		72.09			73	
											93			93
75										75.13				

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Breccia - "Unit 4A"

75.1 - MoS_2 fragment - MoS_2 plus silica.

77.0 - 86.0 - Bad cave due to small gouge zones and fracturing.

Composition - 75% frags - 30% unit 5 - Qtz-Bio-Pp Prph.
15% Hbl diorite
25% dacite
<1% gneiss
4% qtz porphyry
<1% purple volcanic

- 25% matrix - silica, chlorite & sericite.
- fragments subround to angular
- 70% >2cm in diameter.

- pyrite ± (cpy) + MoS_2 all found interstitial to the fragments. Pyrite veins often disjointed

1cm gouge zone.
0.6cm qtz vein
Str cave ω gouge.
traces of sph on frts.
6cm gouge zone.
3cm gouge zone.
1cm gouge zone.
Extreme cave.
1cm qtz-py vein
10cm gouge zone.
2cm gouge zone
1cm py vein.
0.6cm qtz-sph-cpy vein.
1cm gouge zone

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY
75	moderate to strong	weak	moderate on fractures	weak to moderate chlorite	strong	PY - MoS_2 - (cpy) - (sph)	
80					intense		
85					very strong		
90							

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
3-4%	75.13		NQ wireline	76	93
		100			
	78.03				88
		64			
	78.79	79		79	
	79.55	83			81
	80.47	82			
	81.69	43		82	75
	83.52	115			
	84.12	111		85	
	85.19	65			42
	86.84	31		88	
	87.8	78			
	89.0	75			79
	89.92				

HOLE NO.: KC-80-5
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

PROJECT: Hoodoo Creek
DATE STARTED:
DATE FINISHED:
TOTAL DEPTH:

REF. TO CLAIM CORNER:
SCALE:
LOGGED BY:

SECTION | ALTERATION (silica, sericite, clay, chl/ep) | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT.

DESCRIPTIVE GEOLOGY

Section 90 – 105

Alteration: silica – moderate to strong; sericite – weak; chl/ep – moderate

Fracturing: very strong (to ~94.5); moderate to strong; moderate

Mineral: py - cpy - MoS_2 - (sph)

Breccia - "Unit 4A"

} bad cave.

*py found interstitial to the frags.

→ 0.2cm sph vnlt.

→ 1cm qtz, epid vnlt.

* Composition - 60-65% frags -
- 20% qtz-bio porph
- 25% diorite
- 15% dacite
- <2% qtz porph
- <1% gneiss.

- 35-40% matrix - silica, chl ± ser.

→ 0.4cm py vnlt.

-70% of frags >2cm in size
-frags are subrounded to angular.

→ 2cm gouge zone.

→ 1cm gouge zone

101.0 - Increase in interstitial pyrite.

% Sulphides: 3-4% (90 – ~101); 5% (~101 – 105)

Core size: NQ wire line

Drilling interval	% Core recovered
90 – 91.29	88
91.29 – 91.74	69
91.74 – 93.57	85
93.57 – 95.10	113
95.10 – 95.71	87
95.71 – 97.84	83
97.84 – 99.37	103
99.37 – 101.04	96
101.04 – 104.14	101
104.14 –	101

Sample interval	% Rec'y samp. int.
90 – 91	79
91 – 94	88
94 – 97	97
97 – 100	94
100 – 103	99
103 –	101

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Breccia cont "Unit 4A"

- 1cm py-cpy vnlt
- 0.8cm py-qtz vnlt.
- 30cm qtz porph. frag.
- 30cm gouge zone.
- 4cm gouge zone.
- 1cm qtz-cp vnlt.
- 1cm gouge zone.
- 1cm gouge zone.
- 4cm gouge zone.

110.6 m

No distinct contacts

110.6-121.3 - Contact of Breccia (Unit 4A) and Porphyritic Dacite Dyke (Unit 6)

- intensely fractured
- rock changes over very short (≤1m) sections in alot of cases.
- rock discriptions found above and below the contact zone.

110.6 - 111.8 - Dacite
110.6 - 113.8 - Breccia
113.8 - 116.0 - Dacite
116.0 - 116.7 - Breccia
116.7 - 118.8 - Dacite
118.8 - 121.3 - Breccia

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
105	mod to str	weak		moderate	mod-str			4-5%	107.29	101		106	
						Py-MoS2-cpy (sph)			108.36	96			59
110					V. strong				110.19	103		109	
						Py-Hem		<1%		98			10
	strong	weak	mod (plag)	mod chl/epid	mod	Py-cpy-MoS2	Py-(cpy)	4-5%	113.23	56		112	
									113.40	98			91
									113.84	86			
								<1%	114.60	97	NO wireline		
115									115.67	96		115	
								4-5%	116.0	82			85
	m-s strong	wk mod (plag)	wk (phenos)	mod chl/epid	V. strong to intense	Py	Py-(cpy)	<1%	117.85	96			
									118.26	102		118	
						Mo S2 Py-cpy		4-5%	118.87	97			95
120									119.63	96			

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

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

SECTION	ALTERATION: silica	ALTERATION: sericite	ALTERATION: clay	ALTERATION: chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Contact Zone cont.

121.3 m — No distinct contact.

Porphyritic Dacite Dyke "Unit 6"

- dark bluish grey color.
- siliceous matrix - aphanitic
- porphyritic texture.
- groundmass may be original or silica alt'n.
- chl. alt'n in groundmass.
- epidote alt'n forms phenos ⇄ sericite.
- comp - 35-40% phenos - 80% plag → ser. → clay.
- phenos < 2mm in size. - 5-10% ? → epi/ser
- 1% qtz
- 60-65% g.m - silica + chl.
- plag phenos are subangular
- epid + ser may have formed in vugs or vesicules formed after cooling.
- generally rounded to subrounded.
- minor Hem, cpy and < 0.5% py.
- very barren and structureless.

* Numerous H/L frts ⇄ chl and pyrrhotite

Bleached zone.

chl ating frt

0.7cm qtz-epid vnlt

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
5-6%	121.3	96	NQ wireline	121.3	95
	121.6	116			
	121.9				N.S.
		93			
	124.05			124	
		102			62
< 0.5%	127.1			127	
		98			Not sampled
	130.15				
		102			
	133.20			133	
		100			18

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

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

SECTION	ALTERATION: silica	ALTERATION: sericite	ALTERATION: clay	ALTERATION: chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
135	strong	moderate (phenos)	weak (phenos)	moderate chl/epid	weak to moderate	Py - Pg - (cpy)		DESCRIPTIVE GEOLOGY		< 0.5%	136.25	100	NQ wireline	136	100
140								Porphyritic Dacite Dike "Unit 6" cont.			139.30	100			
145								* Periodic H/L fr.ts ☐ chl or epid.			142.34	101		145	93
150								Very bleak and structureless rock.			145.40	92			
								Believe we are running parallel to Unit 4A - Unit 6 contact.			148.13	104		148	
											149.35	100			Not sampled. NS

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

SECTION | ALTERATION: silica, sericite, clay, chl/epid | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT.

DESCRIPTIVE GEOLOGY

150

Porphritic Dacite Dyke "Unit 6" cont.

* Comp - 35-40% phenos - 30% plag → ser. → clay
- 5% bio → epid + ser.
- 1% qtz
- 60-65% groundmass - silica + chl.
- phenos < 2 mm
- some of biotite fresh - not altered

Periodic H/L frts w chl or epid.

155

160

SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
< 0.5%	151.49	100	NQ wireline	157	not sampled
	154.53	100			
	156.7	100			
	157.6	95			95
	158.50	98			
	160.32	105		160	
	160.6	72			
	162.6	101			not sampled
	163.07	100			
		97			

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

COMMENTS:

~ biotite rich fractures.

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Porphyritic Dacite "Unit 6" cont

The Porphyritic Dacite and the Granodiorite are chemical equivalents - grain size is the main difference.

10° to C.A.

sharp contact

167.5 m

Granodiorite "Unit 6"

1cm qtz-epid-sph vnlt.

- coarse grained
- inequigranular
- periodic weak gneissic texture but is mostly unfoliated
- composition - 40-45% bio → fresh → chlorite
  - 48% plag → sericite
  - ≤10% qtz
  - ≤2% epidote - as patches or masses
- 50% of bio appears fresh and is very fine grained
- some ≤5% of qtz has a porphyritic texture.
- 2% total sulphides - py and sphalerite
  - pyrite weakly disseminated, mostly contained in frts. - some of py has framboidal texture
  - sphalerite is weak found as both diss + veins or frts. ≤1% sph.
- minor Hemetite.

Quartz-bio Porphyry fragment.

10° to C.A.

strong py vnlts. ~ str sphalerite

172.2 - 173.6 - very dark green color - finer grained - appears to contain minor porph frags which often coincide to strong framboidal py - sph vnlts.

* Contains periodic small sections of very bio rich

black bio frt. at contact.

* minor epidote units.

0.4cm sph on frt.

section of mg. porph.

* Numerous H/L bio on frts.

* Schistosity increases towards bio rich sections (bk color) around H/L bio frts

178.9 - 179.4 - fine grained variety

88° to C.A.

179.4m

strong bio @ contact.

179.4 - 181.3 Silicious Zone or Quartz Vien

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
165	str	mod (phen)	wk (phen)	mod chl/epid	wk to mod	py-po-cpy		<0.5%	166.12	97	NQ wireline		N.S
										102		167.5	
170	weak to moderate	strong		mod chl/epid	moderate	py-sph-Hem-(cpy)		2%	168.71	102		170	102
									171.75	95			100
								5%				173	
175						py-sph			174.19	99			99
								2%		100		176	
									177.24				102
										104			
180	str	wk			wk	py		<1%				179.9	

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

ALTERATION: silica | sericite | clay | chl/epid

FRACTURING: weak to moderate

MINERAL | GEOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

AVE CORE REC'Y / HOLE

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

180

Silicious Zone or Quartz Vien cont.
- pale greenish white color, mostly silica with 10-15% green sericite, alot of contamination from Granodiorite, minor pyrite 2%, minor diss bio, epid blebs present.

35° to C.A. — 181.3m

sharp contact.

Granodiorite "Unit 6" - same as before

35° to C.A. — 181.9m

strong subhasitosity parallels contacts

90° to C.A. — 182.6m

contact shows fault movement - displacement 4cm.

Silicious Zone

Porphyritic Dacite "Unit 6"

45° to C.A. — 183.3m

sharp contact

Granodiorite "Unit 6"

45° to C.A. — 184.5m

Silicious Zone or Quartz Vien

185

16° to C.A. — 186.3m

Granodiorite "Unit 6"

- minor siderite from the biotite.
- Same discription as before
- med to cse grained.

1cm qtz vn lt.

15° to C.A. — 188.1m

sharp contact

strong sph + bio @ contact.

Breccia "Unit 4"

discription below

1.3cm qtz vn lt.

45° to C.A. — 189.6m

Granodiorite "Unit 6"

190

1cm qtz vn lt

45° to C.A. — 190.8m

Breccia "Unit A"
- dark grey color matrix
- 30% of frags >2cm
- frt wk to mod.
- py interstitial to frags - often has frambuidal texture.

193.3 - 193.9 - Silicious Zone.
- composition - 40% frags - 15% granodiorite, 15% dacite, 10% QBF. Porph "Unit 5", <2% Qtz Porph.
- matrix - silica, chl ± sericite.
- frags subangular to angular.
- weak MoS_2 on frts.

0.4cm py vn lt.

silicious zone.

195

	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
	<1%	180.29	104			
			96		100	
	2%	181.97	103		182.4	
	<1%	182.60				
	2%		98		98	
	<1%	186.0			185.5	
	1½%		101	NQ wireline	61	
	3-4%	188.06			188	
			100		100	
	1%					
	3%	191.11	118		191	
		192.0	91		108	
		194.16			194	
			102		102	

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INCLINATION: BEARING: TOTAL DEPTH: LOGGED BY:

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.
195–197.4	strong	weak		wk to mod		py-sph-(MoS)	→ str. py near contact; 60° to C.A.	**Breccia "Unit 4"** * "Unit 5" frags contain diss. py and MoS_2 - all other frags are barren. 197.4 m	3-4%	197.21	102		197	102
197.4–203.0	moderate	strong		weak chl/epid	weak to moderate	py-Hem-sph	→ Unit 5 frag; → str. sph ? py.; } Bx.; → Numerous H/L py units; → 0.4cm qtz-py unit; → 0.6cm qtz-py unit; → 1cm qtz unit; 45° to C.A.	**Granodiorite "Unit 6"** - coarse grained - inequigranular 198.8-199.1 - Breccia - contains alot of py and epid units. - very dark color - composition - 60% plag → sericite 25% biotite → weak chl. 15% qtz - sometimes has weak schistosity developed 203.0 m sharp contact	1½%	200.25	101 / 102	NQ wireline	200 / 203	101 / 102
203.0–204.0	str	wk		mod		py-sph (MoS)	Breccia	**Breccia - "Unit 4"** same as above 204.0 m	3%	203.30				
204.0–210	moderate	strong		weak ep + chl		py - (cpy)	→ 0.6cm py unit.; → Breccia; → 0.6cm qtz-py unit.	**Porphyritic Dacite "Unit 6"** - aphanitic groundmass - very weak porphyritic texture - phenos - 15% - all plag → sericite - numerous H/L py units - with silica alt'n in envelopes. - 5% diss pyrite - minor epidote blebs	5%	206.35 / 209.4	100 / 97 / 99		206 / 209	100 / 98 / 99

Section depth marks: 195, 200, 205, 210

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COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: Hoodoo Creek

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

REF. TO CLAIM CORNER:

SCALE:

LOGGED BY:

SECTION | ALTERATION (silica, sericite, clay, chl/epid) | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT.

Section: 210 – 215 – 220 – (225)

Alteration (210 to bottom of page): silica – moderate; sericite – strong; chl/epid – weak chl + mod epid

Fracturing: moderate

Mineral: py - (cpy) (to 222.0 m); py-sph-cpy (below 222.0 m)

Geology notes:

- 0.6cm epid vnlt.
- 0.2cm py vnlt.
- str. py vnlts.
- 0.4cm qtz vnlt.
- 0.3cm py vnlt.
- str. cpy on frts.
- 0.3cm cpy vnlt.
- str py.
- 0.8cm cpy-py vnlt.
- 0.5cm py vnlt.
- 15° to C.A.
- str py & cpy @ contact.
- 0.4cm qtz-py vnlt

Porphyritic Dacite "Unit 6"

* Alot of framboidal pyrite

222.0 m Gradational contact

Granodiorite "Unit 6"

-color lightens up from above and grain size increases

% Sulphides	Drilling interval	% Core recovered
5%	– 212.45	99
3%	– 215.49	101
2%	– 218.54	96
1%	– 221.59	99
	– 224.64	102
		99

Core size: NQ wireline

Sample interval	% Rec'y samp. int.
– 212	99
– 215	101
– 218	97
– 221	99
– 224	102
	99

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COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

ALTERATION: silica | sericite | clay | chl/epid

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

225

Granodiorite "Unit 6"

- 0.4cm py vnlt
- 0.5cm epid vnlt
- 40° to C.A.
- silicious zone.
- 0.4cm py vnlt

226.1 - 226.6 - silicious zone.

- 0.4cm py vnlt ∥ silicious envelopes.

230

- 0.8cm qtz vnlt.
- 15° to C.A.

231.3m — sharp contact

Breccia "Unit 4"

- 90% of frags < 1cm
- same characteristics as before.

- 1cm qtz-sph-py vnlt.
- 15° to C.A.

232.7m — sharp contact

Granodiorite "Unit 6"

233.0 - 233.2 - silicious zone.

- 75° to C.A.

233.8 - 234.6 - silicious zone.

silicious zone

235

- 40° to C.A.

235.2m — sharp contact

Breccia "Unit 4"

- dk grey matrix; 50% frags >2cm; py interstitial to frags.
- composition - 45% frags - 23% Granodiorite, 22% qtz porph, 20% dacite
- 55% matrix - silica, chl ± sericite.

- 0.3cm py-cpy unit.
- 80° to C.A.

237.5m — sharp contact

Granodiorite "Unit 6"

- dark green matrix
- numerous ½" py vnlts.
- mod to str. schistosity developed
- comp - 30% bio → chl, 65% plag → ser., 5% qtz

240

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
225			99	NO wire line	225	99
	1½ - 2 %	227.7	102		227	101
230		230.7			230	
	4-5%		97			98
	2%	233.8			233	99
235			100		235.2	
	5%	236.8			237.5	99
	1½ - 2 %	239.4	98			100
240			102			

HOLE NO.: KC-80-5
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

PROJECT: Hoodoo Creek.
DATE STARTED:
DATE FINISHED:
TOTAL DEPTH:

REF. TO CLAIM CORNER:
SCALE:
LOGGED BY:

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.
240	moderate	strong		wk chl - mod epid	moderate	py-sph-cpy		Granodiorite "Unit 6" cont. 240.9 - 241.4 - Medium grained granodiorite. 0.3cm qtz vnlt	2%	242.5	102	NQ wire line	240.5	101
								10° to C.A. 243.8 m Breccia "Unit 4A" - 70% of frags >2cm - lgt grey matrix - comp - 50% frags granodiorite - 20% (unit 6), dacite - 15%, "Unit 5" - 15% - 50% matrix - silica, chlorite ± sericite - Minor diss MoS_2 in "Unit 5" frags		244.6	99		243.8	
245	strong	weak		wk chl		py-cpy			5%	246.0	104			101
	mod	strong		wk chl wk epid		py-cpy-sph		20° to C.A. 247.0 m Granodiorite "Unit 6" - grain size varies from cse to med. 0.3cm qtz vnlt.	2-3%		97		247	99
								broken zone 249.1m broken up contact. Breccia "Unit 4" - 30% frags >2cm - lgt grey colored matrix - no unit 6 fragments - comp - 45% frags - 20% dacite, - 20% diorite "Unit 2", - <1% Qtz, - 5% qtz porph "unit 5" - 55% matrix - silica, chl ± ser. - very weak epid units near upper contact.		248.9 249.2	130		249.1	
250	strong	weak		wk chl		py-cpy			5%	252.67	98		252	99
	mod	str		mod		py-cpy		20° to C.A. 253.0m Granodiorite "Unit 6" brecciated contact 253.8 m Dacite "Unit 6" py-cpy units. sharp contact	2%	255.12	98		253 255	99 98
255														

HOLE NO.: KC-80-5 | PROJECT: Hoodoo Creek | PAGE NO.: 18 OF 18

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

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

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

SECTION	ALTERATION: silica	ALTERATION: sericite	ALTERATION: clay	ALTERATION: chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
255	strong	weak	mod chl	mod chl	moderate to strong	py-cpy					255.12			255	
								DESCRIPTIVE GEOLOGY		5%		100			100
								Breccia "Unit 4"							
								- dk grey color matrix							
								-50% frags - 10% granodiorite							
								15% dacite							
								5% diorite							
								<1% qtz porph.							
								matrix - silica, chl ± sericite.			258.17			258.5	
								45° to C.A.							
								258.5 m							
								Dacite "Unit 6"							
								258.8-259.1 Breccia		1½-5%		100			100
								- aphanitic texture ∋ bio							
								- porphyritic texture ∋ bio phenos							
								- bluish-grey color							
								- has weak dark-light banded appearance							
								- numerous H/L py-cpy ± sph vn/ts.							
								- often contains a very fine breccia texture.							
								# Quite different from the porphyritic Dacite earlier			261.21				
								sph gets stronger towards the contact							
								26° to C.A.							
								262.1 M						262.1	
								Breccia "Unit 4"				101			99
								- Same composition as above.							
								- contains sph on upper portion.							
								264.8 - 1st gneissic "Unit 1" fragment.		5%	261.26				
265	strong	weak	mod chl - wk epid	py-cpy-(sph)								96		265	96
								266.7 End of Hole						266.7	

NQ wireline

HOLE NO.: KC-80-4 | PROJECT: Hoodoo | PAGE NO.: 1 OF 20

COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: July 28, 1980 | REF. TO CLAIM CORNER: BZT-7

COORDINATES: N. E. | DATE FINISHED: Aug 8, 1980 | SCALE: 1:100

INCLINATION: -73° | BEARING: 252° | TOTAL DEPTH: 293.22 m | LOGGED BY: G.L. Holland

COMMENTS: fracturing - v. strong > 15 per metre; strong > 10 < 15 /m; moderate > 6 < 10 /m; weak > 3 < 5 /m; V weak < 3/m

AVE CORE REC'Y / HOLE: 91.3%

ALTERATION: silica | sericite | clay | chl/epid

FRACTURING | MINERAL | GEOLOGY

SECTION

DESCRIPTIVE GEOLOGY

0 - 0.31 stick-up.

0.31 - 4.90 - Overburden

4.90 m

4.90 - 43.20 Quartz - Feldspar Porphyry "Unit 8"

- lgt grey to white color
- rusty weathering - strong limonitic and hemetitic staining that decreases with depth. mostly confined to frts but present in phenos
- At surface a mod devel vuggy texture is present and the fspar phenos are often pitted.
- Porphyritic texture.
- Composition - 20% phenos - 60-65% qtz; 40% fspar (plag) → sericite → clay
- minor coarse grained musc. - 4-7% sulphides.
- 80% matrix - sericite : silica
- qtz phenos range from 2-10mm and are rounded to subrounded.
- fspar phenos range from 3-8mm and are irregular in shape.
- minor H/L py vnlts - often replaced by limonite.
- whitish portions have a little bit more silica in matrix.
- Qtz s/w weakly developed.
- Altn strong pervasive
- weak silica altn in salvage of some vnlts.
- Sericitic altn strong in matrix plus phenos.

0.5cm qtz vnlt

0.4cm lim frts

str. vuggy text.

2cm lim frt.

4cm gouge-lim zone

0.8cm qtz vnlt.

1cm lim frt.

0.6cm qtz vnlt

moderate | strong | weak to mod (phenos) | trace chl | moderate | lim - py

SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
3%	4.88	102			95
	6.71	87		8	
	8.23		wireline		
4-5%		99	NQ		99
	11.28			11	
		96			96
6%	14.33			14	
		101			101

Part 1 of 2

9877

HOLE NO.: KC-80-4 | PROJECT: Hoodoo | PAGE NO.: 2 OF 20

COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REP. TO CLAIM CORNER:

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

ALTERATION: silica, sericite, clay, chl/epid | FRACTURING | MINERAL | GEOLOGY | SECTION | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT.

Quartz-Feldspar Porphyry cont. "Unit 8"

- 0.6cm qtz vnlt
- 0.8cm qtz-lim vnlt.
- 0.2cm lim. frt.
- 1.2cm lim. frtt.
- 0.6cm qtz vnlt.
- 9cm siliceous zone.
- 1.5cm qtz vnlt.
- 1cm py vnlt.
- 20cm lim zone.
- cave. - very little core.
- 1cm lim frt.
- 1cm gouge zone
- 3cm lim frt
- cluster of 1cm lim frts

15.5 - 23.0 - composition - 20% phenos - 50% qtz
- 46% fspar → sericite → clay
- 5-9% sulphides
- 80% matrix - sericite, silica.

* limonite - weak to moderate.

18.0 - 20.6 - strong increase in pyrite content.

* pyrite content increases in whiter more siliceous sections

* traces of diss MoS_2.

21.8 - 22.6 - strong cave zone.

23.0 -
composition - 25% phenos - 75% qtz
- 15-20% plag → ser. → clay
- 5-9% sulphides.
- trace relic mafics.
- 75% matrix - sericite, silica

- a lot of coe grained sericite or muscovite on frts and in some phenos.

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
15	5-6%	17.37	101	NQ wireline	17	101
	8-9%	20.42	100		20	100
20	5-6%	23.47	75		23	76
	8%	26.52	94		26	94
25	5-6%	29.57	97		29	97
30						

ALTERATION: moderate silica; strong sericite; weak to mod (phenos) clay; weak (phenos) weak chl. chl/epid

FRACTURING: weak to moderate

MINERAL: Py - lim - (MoS_2)

HOLE NO.: KC-80-4 | PROJECT: Hoodoo | PAGE NO.: 3 OF 20

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

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

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

ALTERATION: silica | sericite | clay | chl/epid

FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
30			78	NQ wireline	32	78
		32.61	98		35	98
35	5-6%	35.66	97		38	97
		38.71	98		41	98
40		41.72	93		43.2	94
	Tr.	43.89	92			NS
45						

Quartz - Feldspar Porphyry cont "Unit 8"

- 0.3cm lim frt.
- 0.8cm qtz vnlt.
- 0.6cm lim frt.
- 0.6cm qtz vnlt.
- 1.5cm lim frt.
- several H/L py units w good diss MoS_2
- 3cm gouge zone w lim.
- 1.9cm gouge zone w lim.
- 0.7cm lim frt.
- 3cm gouge zone.
- 1cm gouge zone
- 2cm gouge 43.2 m
- 4cm gouge zone

* Numerous H/L lim on frts.

34.6 - MoS_2 occurring in vugs and as coatings on pyrite crystals or masses.
- 1st appearance of significant MoS_2

37.2 - End of good grade MoS_2 - weaker grades persist.

* Traces of diss. cpy.

* Increase in chlorite and epidote near contact.

weak gouge contact

Feldspar - Hornblende Porphyry "Unit 10"

discription next page

43.2 - 44.5 - limonite staining dominates rock

mod. moderate | mod. strong | weak weak (pkenos) | mod chl/epid mod epid | mod weak to moderate | Mt - (py) | py - lim - MoS_2 - (cpy)

HOLE NO.: KC-80-4 | PROJECT: Hoodoo | PAGE NO.: 4 OF 20

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

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

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

ALTERATION: silica | sericite | clay | chl/epid | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION 45

Feldspar-Hornblende Porphyry cont "Unit 10"

description: - greenish-gray color
- strong manganese and limonite weathering along fct planes. - minor limonite in the fsps
- comp - 25-30% phenos - 15% fsp → ser ± clay
10% hbl → chl + Mt??
1-2% Mt
1-2% qtz
- 70-75% matrix - feldpathic - silica + ser.
- contains little or no sulphides.
- fracturing moderate.
- sericitic atn of both phenos & matrix - moderate.

Sandy fragment.

0.5cm gouge zone — 51.70 m

fault contact

Quartz-Feldspar Porphyry "Unit 8"

~~1½~~% MoS_2
- pale green-grey color.
- comp - 25% phenos - 5-10% qtz.
- 4-8% fsp → ser. + clay
- 8-9% py
- 75% matrix - ser, silica

0.6cm lim fct

70° contact — 55.0 m

sharp contact

Feldspar-Hornblende-Porphyry "Unit 10"

- Same as above

str fct of lim and Mang

70° contact — 56.3 m

sharp contact

Quartz-Feldspar Porphyry "Unit 8"

- same as above.
- weaker MoS_2.

0.5cm lim fct

cave

2cm gouge — 58.6 m

banding 35° to c.a.

weak gouge — 59.8 m

"Bughole" Quartz Porphyry Dyke "Unit 9"

-rhyolitic matrix - banding 35° to c.a. - large quartz phenos present. - clay alt'd fspars - 5% of each.

Quartz Feldspar Porphyry "Unit 8"

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
		92	NQ wireline	45	95
Tr.	46.94			48	
		98			NS
	49.99				
		98		51.7	
7-8%	53.09				97
		96		55	
Tr	56.08			56.3	NS
5-6%		89			89
	58.22			58.6	
0		102			NS
				59.8	

HOLE NO.: KC-80-4 | PROJECT: Hoodoo | PAGE NO.: 5 OF 20

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

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

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

SECTION	Silica	Sericite	Clay	Chl/epid	FRACTURING	MINERAL	GEOLOGY	* SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.
60–68.6	moderate	strong	v. weak	moderate	mod / strong	py - lim - MoS$_2$ - (cpy)		8-9%	60.05–62.09	81	NQ wireline	60–63	81
								10%	62.09–66.14	96		63–66	96
								8-9%	66.14–69.19	93		66–69	93
68.6–69.9			weak		v. str.			0					
69.9–75	moderate	strong	weak	v. weak	moderate	py - lim - MoS$_2$		7-8%	69.19–72.24	98		69–72	98
								8-9%	72.24–	92		72–75	92

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Structure notes (beside geology column):
- 1cm vuggy qtz vnlt.
- 4cm gouge zone.
- 20 cm gouge zone
- weak breccia w̄ str. MoS$_2$ around frags
- 10 cm gouge zone.
- 1cm gouge zone
- weak breccia
- 90° to C.A.
- 68.6 m
- Unit 8 frag
- 5cm gouge zone.
- 1cm fault. 69.9 m
- 1cm gouge zone.
- 0.4cm lim frt.
- 0.5cm py vnlt
- 1cm py vnlt.
- 0.7cm py-qtz vnlt.
- 1cm qtz vnlt

Quartz Feldspar Porphyry cont. "Unit 8"

Discription - pale green-grey color
- mod to str. fractured.
- comp. - 25% phenos - 55% qtz.
  - 40% fsp → ser ± clay.
  - 8-9% sulf.
- 75% matrix - ser, sil, chl.
- numerous H/L py vnlts.
- limonite staining moderate on frts
- chlorite alt'n moderate in fsp. phenos
- MoS$_2$ generally weak.

"Bughole" Quartz Porphyry Dyke "Unit 9"

- same as on page 4 - Except very strongly frted.

fault contact

Quartz - Feldspar Porphyry "Unit 8"

Same as above.

* fine disseminated MoS$_2$ plus as coating on pyrite.

* Weak limonite on frts.

HOLE NO.: KC-80-4 | PROJECT: Hoodoo | PAGE NO.: 6 OF 20

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

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

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

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
75								DESCRIPTIVE GEOLOGY			75.29			75	
	moderate	strong	weak		mod to strong	Py - lim - MoS_2	0.5cm qtz vnlt 0.5cm lim frt. N/L lim frt 0.3cm gouge zone. 1cm wavy qtz vnlt w strong MoS_2 0.5cm Py vnlt.	Quartz - Feldspar Porphyry cont "Unit 8" * MoS_2 occurrance very patchy - up to 1% in places. 79-80 - Strong bluish mineral with striations on prismatic crystals - believe it is MoS_2 but appears a bit to hard - poss bornite.		8-9%	77.42	81 93	NQ wireline	78	81 94
80								81.1 m sharp contact Feldspar - Hornblende - (Quartz) Porphyry - "Unit 10" - greenish grey color - phenos ≤ 3mm in size - fracturing strong 81.6 - 82.0 - strong fault or shear zone - comp - 40% phenos - 92% fsp → sericite - 5% relic Hbl → sericite - 2% qtz - 1% Hem - 60% matrix - sericite - silica - chl. - mod to str. lim on frts.		0%	80.97 83.21	101 79		81 89	98
85	weak to mod	v. strong	weak to mod		strong	Hem	40cm shear zone str. lim on frts. N/L chl. vnlt strong caving				89.43	95			NS
	mod to str.	strong	v. weak		mod - str	Py - MoS_2 - (cpy)	0.3cm py vnlt 1cm qtz vnlt str. caving	86.85 m sharp contact. Pyritic - Quartz - (Feldspar) Porphyry - "Unit 8" - white to grey colored - mod to str. fracturing - comp - 20% phenos - 40 qtz - 50% py - 10% fsp → ser ± clay. - <1% MoS_2 - 65% matrix - sericite, silica - crystalline matrix - weak S/W developed		10%	86.87 89.61	82		86.85	82
90														90	

HOLE NO.: KC-80-4 | PROJECT: Hoodoo | PAGE NO.: 7 OF 20

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

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Pyritic - Quartz-(Feldspar) Porphyry "Unit 8"

- 0.8cm qtz vnlt.
- py vnlt on frts.
- 2cm qtz-py vnlt
- 0.2cm py vnlt
- 0.5cm py vnlt
- 0.8cm cpy-py vnlt
- 2x0.3cm py vnlts
- scattered H/L py-cpy vnlts

* limonite very weak.

* Small sections run up to 15% pyrite.

94.3 - 97.1 - General increase in cpy content.

98.6 - 99.70 Fault or shear zone.

* Presence of chlorite near unit 10 contact

* 90% of pyrite masses have around framboidal texture.

* limonite increases towards contact - moderate on frts

1.1m shear zone

95° contact

str lim on frts

101.7m

sharp contact

Feldspar-Hornblende Porphyry "Unit 10"

- greenish grey color.
- fracturing moderate
- comp - 35% phenos - 25% fsp → ser + siderite
  10% Hbl → chl + epid.
  1% qtz
  1% Hem
- 65% matrix - sericite + silica + clay
- phenos = 4 or 5mm
- weak limonite except at contact

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY
90	moderate to strong	strong	weak (siderite in fsp phenos)		moderate to strong	py - cpy - MoS_2 - lim	
95				weak	strong		
	strong	strong		mod chl wk epid	wk to mod.	Hem	
101							

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
10%		84	NQ wireline	90	87
	91.74	90		93	
	92.96	88			88
5-6%	95.71	86		96	
	96.93	74		99	78
	99.67	86			81
	101.5	97		101.7	
0%	103.65	92			

HOLE NO.: KC-80-4
COLLAR ELEV.:
GROUND ELEV.:
COORDINATES: N. E.
INCLINATION:
BEARING:

PROJECT: Hoodoo
DATE STARTED:
DATE FINISHED:
TOTAL DEPTH:

REF. TO CLAIM CORNER:
SCALE:
LOGGED BY:

ALTERATION: silica | sericite | clay | chl/epid — FRACTURING — MINERAL — GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION	Alteration / Fracturing / Mineral	Comments / Descriptive Geology	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.
105	silica: moderate; sericite: very strong; chl/epid: moderate chlorite, wk to mod epidote; fracturing: wk-mod	Feldspar-Hornblende Porphyry "Unit 10"						
		50cm gouge zone — 105.7-106.2 - strongly broken zone with gouge			92			
				106.07	77			
				107.29			108	
					102			102
110		Very barren rock - structureless		110.03			111	
	fracturing: weak; mineral: Hem		0%		102	NQ wireline		
		113.4 - Color starts to lighten up - pale greenish grey		113.08				
115					97			
				116.13	98			
		118.2 - 118.8 - Unit 8 breccia		117.96				
	mineral: Py	45° cont; Unit 8 breccia	5%					
	mineral: Hem	118.8 - color is darker green	0%		101			
120		20cm gouge zone		120.44				

HOLE NO.: KC-80-4
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

PROJECT: Hoodoo
DATE STARTED:
DATE FINISHED:
TOTAL DEPTH:

REF. TO CLAIM CORNER:
SCALE:
LOGGED BY:

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.
120	moderate	very strong		mod chl / wk-mod epid	weak	Hem		≥ 10 cm gouge zone. **Feldspar - Hornblende Porphyry cont "Unit 10"**	0 %	120.0		NQ wireline		
								Composition - 40% phenos - 25% fsp → sericite + siderite; - 13% Hbl → chl + epid; - 1% qtz; - 1% Hem. - 60% matrix - sericite, silica			101		121	100
										123.14				
125								1 cm gouge zone.			99		124	
										126.19	100			
130										129.24				
								132.3 - Color becomes pale green			99		131	88
								3 cm gouge zone. 134.0 **Fault Contact**		132.28	78		134	
	m-s	str	w.k	wk	m-s	py-MS		**Breccia "Unit 4"** 1 m gouge zone. 134.2 - 135.2 - Fault or shear zone	5%	135.03				

HOLE NO.: HC 80-9 | PROJECT: Hoodoo | PAGE NO.: 10 OF 20

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

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Breccia "Unit 4"

description: - separated from 'Unit 8' by a 1m. fault.
- matrix is a crystalline greenish grey color.
  - composed of silica, chlorite + sericite
- fragments - 35-40% of rock.
  - range in size from 4mm to 30mm. - possibly 5% > 20 mm in size
  - generally sub-angular to rounded.
  - composite - dacite - "unit 6" - 15%
    - qtz purph - "unit 8" - 10%
    - purple vole - 5%
    - diorite - "unit 2" - 5%
  - Unit 8 frags have rounded qtz crystals in a white crystallitic matrix. Frags strongly sericitized and contain minor pyrite.
  - Unit 2 frags - Hbl ± qtz diorite - hbl has been altered to chl ∞ minor epidote.
  - purple vole frags - pinkish purple color - possibly rhyolitic comp. - possibly a variation of Unit 6
  - unit 6 frags - grey color ± minor rounded qtz and minor sub rounded feld phenos. - siliceous matrix
- pyrite generally confined to the matrix - most often around the fragments.
- limonite weak on fractures.
- chlorite in matrix may be derived from diorite frags
- py vnlts cut by fragments. - numerous H/L py vnlts
- weak MoS_2 in vnlts, frts and as diss
- weak cpy as disseminations.

* Minor siliceous envelopes on py vnlts.

145.0 - Fragments getting larger - 25% > 20mm.
- content 45-50% fragments.

147.0m **Gradational Contact.**

Breccia "Unit 4A"

- Similar to unit 4 except fragments are coarser grained
  - 50% > 2cm in size
- gradation size increase

SECTION	ALTERATION: Silica	Sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
135	strong	weak	weak to moderate	moderate chl weak epid	strong	py - 1% - MoS_2 - cpy	1m gouge zone	5%	135.03	93	NQ wireline	137	93
							0.7cm qtz-py vnlt		136.35				
							0.4cm py vnlt			103		140	103
							0.9cm py vnlt						
							0.3cm py vnlt		139.29				
							0.8cm qtz vnlt ± lim						
							0.3cm py vnlt						
140							1cm py vnlt			100		140	
							0.7cm py vnlt	8-9%	141.43				97
							str MoS_2 on frt.			94			
							2cm gouge zone		142.95			143	
							0.8cm py vnlt.			99			99
							str diss. cpy.						
145							H/L cpy vnlt.						
							0.5cm cpy-py vnlt		145.39			146	
							0.8cm py vnlt.						
										99			99
							0.6cm py vnlt.		148.44			149	
							0.5cm py vnlt			89			
150							1cm py vnlt		149.96				

HOLE NO.: KC-80-4 | PROJECT: Hoodoo | PAGE NO.: 11 OF 20

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

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

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

ALTERATION: silica, sericite, clay, chl/epid | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

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

150

Breccia - "Unit 4A"

0.3cm py vnlt.

str. MoS_2 on frt. - 0.6cm

Native Cu + MoS_2 on frt.

* Numerous H/L py vnlts.

0.7cm py vnlt.

152.0 - First appearance of gneissic frags - "unit 1"

152.3 - Find qtz s/w in a qtz porph frag - not in matrix.

Test - hole angle 77°

strong 0.4cm py vnlts + mod diss cpy.

* Finding framboidal pyrite on fractures.

0.8cm py vnlt w sph.

* Only traces of limonite present.

155

10cm dacite frag

0.4cm qtz vnlt

0.7cm qtz-fsp vnlt

0.7cm py vnlt.

156.0 - Composition - 50-55% Frags - 30% diorite.
5% gneiss.
5% qtz porph.
15% dacite.
- 45-60% matrix - silica, chl, epid ± ser.
-85% > 2cm (10% > 9cm)

2cm qtz vnlt

0.5cm py vnlt

cluster of 0.3cm py vnlts.

160

0.4cm py vnlt

str. diss cpy

1cm py vnlt

str. cpy vnlts.

165

ALTERATION: strong; weak; mod chl, weak to mod epidote; mod chl, mod epid; mod chl, weak epid

FRACTURING: strong; moderate

MINERAL: Py - MoS_2 - cpy - Native Cu.

% SULPHIDES: 7-8%; 10%; 7-8%

DRILLING INTERVAL: 152.7; 155.17; 157.56; 160.32; 163.37

% CORE RECOVERED: 95; 104; 95; 103; 103

CORE SIZE: NQ wireline

SAMPLE INTERVAL: 152; 155; 158; 161; 164

% REC'Y. SAMP. INT.: 90; 104; 95; 103; 103

HOLE NO.: KC-80-4 | PROJECT: Hoodoo | PAGE NO.: 12 OF 20

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

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Breccia cont. "Unit 4A"

* Numerous m/l py vnlts.
* Tracer of purple volcanic frags <1%
* Rock has a dark green matrix - increase in chl.
* minor silicious envelopes on py vnlts.
* Diss cpy ≤ 1/2%
* Epidote forms yellow-green patches - does not appear to occur in the matrix.

174.0 - Composition - 35% frags - 20% dacite, 10% diorite, 5% gneiss
- 65% matrix - silica, chl ± sericite.

ALTERATION: s. ica | sericite | clay | chl/epid | FRACTURING | MINERAL | GEOLOGY

SECTION: 165 | 170 | 175 | 180

strong | weak | str chl + mod epid | moderate | py - cpy - MoS_2

str chl + mod chl rep w/ epid

0.4cm py vnlt w/ MoS_2
0.6cm py vnlt
1.3 cm py vnlt
0.5cm py-MoS_2 vnlt
0.8cm py vnlt
0.7cm py vnlt
0.4cm py vnlt
0.4cm py vnlt
0.7cm qtz vnlt
0.5cm py vnlt
str. MoS_2
0.6cm qtz vnlt

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
7-8%	166.42	97	NQ wire line	167	91
		100			100
5-6%	169.77			170	
		110			105
7-8%	171.60				
		100		173	
5-6%	174.65 / 174.96	106			101
		100		176	
7-8%	178.0				96
		94		179	
	178.97				
		107			

HOLE NO.: KC-80-4 | PROJECT: Hoodoo | PAGE NO.: 13 OF 20

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

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

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

COMMENTS:

Note: Replacement of clay ± sec bio in alteration.

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Breccia cont "Unit 4A"

0.3cm py vnlt

* Numerous m/l py vnlts ± siliceous salvage.

Fragment content varies from 40-45% to about 10% over very short sections. No reason is noted.

0.2cm qtz vnlt

0.5cm py vnlt

0.3cm py vnlt

Starting to get sections of mod. sec. bio. in the matrix.

0.8cm qtz vnlt

0.2cm py vnlt

189.5 - Increase in frag content plus the presence of sec. bio in matrix turning it dark brown

-40% frags - 25% dacite.
10% diorite
5% gneiss
<1 qtz porph

-60% matrix - silica, sec bio, chl ± ser.

-sec bio very patchy

0.6cm qtz vnlt

>1.5cm qtz-MoS2 vnlt

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
	strong mod / weak / strong mod / weak chl / mod chl / weak epid	moderate	Py - MoS_2 - cpy		7-8%	180.75	94	NQ wire line	180	100
						181.97	107		182	
						185.01	99		185	99
						188.06	99		188	99
						191.11	88		191	88
						191.72	79			
						194.16	100		194	97

HOLE NO.: KC-80-4 | PROJECT: Hoodoo | PAGE NO.: 14 OF 20

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

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

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

ALTERATION: silica | sericite | clay - sec bio | chl / epid

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

DESCRIPTIVE GEOLOGY

195

silica: strong → wk to mod
sericite: weak → v. strong
clay - sec bio: Traces of sec bio → mod clay (plag)
chl / epid: mod chl - wk epid →

FRACTURING: mod → strong
MINERAL: Py - cpy - MoS_2
GEOLOGY: 0.2cm cpy vnlt

Breccia - Unit 4A

0.5cm gouge zone
1cm qtz vnlt
1cm qtz vnlt.

* Strong siliceous salvage around H/L py vnlts.

7-8%

100
66

197.21

200 — cave contact — 200.1m — Caving - no gouge

Feldspar - Quartz Porphyry "Unit 10"

- pale greenish grey color
- comp - 20% phenos - 17% fsp → sericite → clay
  - 3% qtz
  - 2% relic hbl → ser.
- 80% matrix → sericite + silica
- qtz phenos round to subrounded
- fsp phenos angular to sub angular
- mod. manganese staining on frts.

1cm. lim frt.

0%

95

200.25
203.30

NQ wireline

200
203

NS

204.4m — sharp contact.

Breccia "Unit 4A"

205 — 60° to CA
0.5cm gouge zone

* Numerous py vnlts
* Strong silicious salvage on py vnlts.

86

89

206.35

5%

110

207.37

90

90

0.4cm py vnlt

0.3cm cpy-py-MoS_2 vnlt. traces Native Cu

10cm shear zone.

Comp - 25% frags - 10% diorite
- 10% dacite
- 5% gneiss

- 75% matrix - silica - chlorite ± sericite.

1.3cm qtz vnlt

80% of frags > 3cm

209.4

207
210

HOLE NO.: KC-80-4 | PROJECT: Hoodoo | PAGE NO.: 15 OF 20

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

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

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

ALTERATION: silica | sericite | clay | chl/epid

FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

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

Breccia cont "Unit 4A"

mod to str

5cm qtz vnlt

3cm gouge zone

212.0 – 221.9 – very badly fractured with alot of limonite on the fractures

0.8cm py vnlt

0.4cm py vnlt

0.5cm py vnlt

Breccia "Unit 4"

1cm gouge zone

* Composition – 10-15% phenos – 5-7% dacite
5% diorite
3% gneiss

– 85-90% matrix – silica, chl. ± sericite.

very strong py – MoS_2 – cpy

str MoS_2 on fct.

– very weak breccia
– Most 90% of frags are < 2cm.

0.7cm qtz vnlt

– gradational contact

0.5cm py vnlt

3-5%

m/c cpy vnlt w MoS_2

1cm gouge zone

0.4cm py vnlt

strong

weak

mod chlorite + weak epidote

moderate

NQ wireline

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
	92	210	92
212.45			
	68	213	68
216.49			
216.71	60	216	
	67		68
218.54		219	
	100		
219.76			
220.47	58		80
	81		
221.28			
	100	222	
221.88			
	84		90
223.71			
	103		
224.33			
	96	225	

HOLE NO.: KC-80-4 | PROJECT: Hoodoo | PAGE NO.: 16 OF 20

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

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

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

ALTERATION: silica | sericite | clay | chl/epid | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
225	3-5%		96	NQ wireline	225	96
		227.38	99		228	99
230	10%	230.43	92		231	90
	3-5%	232.87	80			
		234.09	73		234	60
235		235.9	32			
		236.5	102		236.6	NS
	<1%	237.35	99			

Breccia cont "Unit 4"

- 0.7cm py vnlt

45° contact — 226.8 m

sharp contact

Pyritic - Quartz Porphyry Dike - "Unit 8"

- py vnlt cut at contact
- disjointed 0.8-0.6cm py vnlts
- 2x0.7cm py vnlts
- 1cm py vnlt
- py vnlt cut by the Unit 4 breccia
- white to greyish colored matrix
- minor frags near contact
- comp - 10% phenos - 5% pyrite, 5% qtz
  - 85-90% matrix - sericite, silica
- abot of py vnlts. ~ 5%

- 1cm py vnlt
- 45° contact — 230.9 m

sharp contact

Breccia - "Unit 4"

- 0.7cm py vnlt
- 0.7cm py vnlt
- 0.3cm py vnlt

- strong silicious envelopes or salvage around py vnlts.
- pale greenish grey matrix
- comp - 10% frags - 5% dacite, 3% greissic, 2% diorite
  - 90% matrix - silica ± ser + chl
- weakly brecciated
- 100% frags < 2mm

- 10cm gouge zone
- 40cm faultzone — 236.6 m
- 2cm gouge zone
- 1cm gouge zone

Fault Contact

Feldspar-Hornblende Porphyry "Unit 10"

- peppery texture
- composition - 40% phenos - 30% Fsp → Kaolinite → sericite, 10% Hbl → chl + ser., <1% qtz
  - 60% matrix - sericite + silica
- strong alt'n
- phenos subrounded to subangular

cont

HOLE NO.: KC-80-4 | PROJECT: Hoodoo | PAGE NO.: 17 OF 20

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

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

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

ALTERATION: silica | sericite | clay | chl/epid | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

SECTION | DESCRIPTIVE GEOLOGY | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT.

240

Feldspar - Hornblende Porphyry cont

discrip cont — < 1% sulphides
< 1% Hemetite.

- chlorite alt'n mod to str. on Hbl.
- phenos up to 80mm in size
- Kaolinite alt'd fspar often pitted ∞ vugs

< 1

240.79 — 99
241.71 — 91
242.93 — 76
85

90
NS

245

245.1 m Fault Contact "Unit 4"

Breccia -
- green color matrix
- frt strong
- comp - 20% frags - 10% dacite
10% diorite
- 80% matrix - silica, chlorite ± ser.
- minor cpy as diss plus m/c units.
- minor framboidal pyrite on fractures
- 90% of frags < 2mm in size

* Small sections ∞ sec bio alt'n of matrix

246.06 — 88
246.97 — 91
246.89 — 96
249.02 — 97
250.24 — 78
252.07 — 72
252.68 — 98
254.8 —

92
95
83

7-8%
4-5%

NQ wireline

252 - Breccia becomes Unit 4A.
- 70% frags > 3mm
- comp. relatively the same.

240 | 243 | 245 | 248 | 251 | 254

10cm gouge zone
10 cm gouge zone
4cm gouge zone
10cm gouge zone
2 x 80cm gouge zones
2 x 10cm py units
m/c cpy units.
0.5cm py unit
0.7cm py unit.

moderate — strong — V. strong — weak — str — clay — mod to str — strong — Hem-py — strong — py-cpy — mod to str — weak

HOLE NO.: KC-80-4 | PROJECT: 400,000 | PAGE NO.: 18 OF 20

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

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

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

ALTERATION: silica | sericite | clay | chl/epid

FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

255.0 - Breccia - "Unit 4"

str cave.

- weak breccia
- composition - 10% frags - 5% dacite, 3% gneiss, 2% diorite
  - 5% phenos - qtz
  - 85% matrix - sericite, chlorite ± sericite.
- greenish color.

0.2 - 0.4cm py-cpy; MoS_2 units

0.4cm py unit

str caving

1.5cm py unit

BQ wireline

262.0 - 275.0 - Very badly broken rock - strong caving

- moderate limonite on frts.

263.65 - Reduced to BQ wireline

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
255.42					
	61				70
256.95				257	
	84				88
258.17					
	90		NQ wireline	260	
260.91					73
	70				
262.43				263	
	62				
263.35					
263.65	97				
	51				55
265.48				266	
	53				
266.90			BQ wireline		
	47				60
267.61					
	75			269	
269.44					
269.75	129				

3-5% sulphides

HOLE NO.: KC-80-4 | PROJECT: Hoodoo | PAGE NO.: 19 OF 20

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

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

SECTION	ALTERATION: silico	ALTERATION: sericite	ALTERATION: clay	ALTERATION: carb/epid	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
275	strong	weak	moderate					**Breccia - "Unit 4"**			39			42
								→ 0.2 cm py vnlt * weak breccia.		270.97	43		272	
								→ 1 cm qtz vnlt * mod limonite on frts		272.49				
								→ 0.2 cm py vnlt.	4-5 %	273.71	74			60
278										274.93	29		275	
								→ 45° contact 276.4m sharp contact		276.15	109	B.Q wireline		109
	strong	moderate	weak		weak-mod	$Py - MoS_2$		**Quartz Porphyry "Unit 9"** - creamy white rhyolitic matrix - comp - 15% phenos - 10% qtz 5% fsp → kaol + ser. - 85% matrix - silica, sericite - qtz phenos rounded to subrounded. - fsp phenos subangular to subrounded - minor limonite on frts. - diss MoS_2 in qtz phenos.	< 1 %	277.06	100			
										279.50	99			101
281	strong	weak	moderate		mod-strong	$Py - MoS_2$		→ 45° contact 280.11m sharp contact. **Breccia "Unit 4"** same as unit above Unit 9		280.11	103		280.1	
								→ 0.6 cm py vnlt.	8-9 %	281.94	85			93
								→ 45° contact 283.1 m **Quartz Porphyry "Unit 9"** - same as above		284.34	101		283.1	
284									< 1 %		91			

HOLE NO.: KC-85-9 | PROJECT: Hoodoo | PAGE NO.: 20 OF 20

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

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

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

SECTION	ALTERATION: silico	ALTERATION: sericite	ALTERATION: clay	ALTERATION: chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
290	strong	moderate	weak (phenos)		weak	2% - MoS2		Quartz Porphyry - "unit 9" very barren rock. 293.22 m End of hole. Bad caving at hole base forced abandonment of hole		< 1%	287.82 287.43 290.47 291.69	91 93 97 97 86	BQ wireline	287 290	91 96 91

HOLE NO.: KC-80-3 | PROJECT: Hoodoo Creek | PAGE NO.: 1 OF

COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: July 18, 1980. | REF. TO CLAIM CORNER: BZT-7

COORDINATES: N. E. | DATE FINISHED: July 27, 1980 | SCALE: 1:100

INCLINATION: -45° | BEARING: 338° | TOTAL DEPTH: 320.65 m. | LOGGED BY: G.L. Holland

COMMENTS: Fracturing – V. strong >15 per metre; strong >10<15; moderate >6<10; weak >3<6; V weak <3

AVE CORE REC'Y / HOLE 85.6 %

SECTION	ALTERATION: silica	sericite	clay	chl/ep	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
0								0 - 0.31 Stick-Up						
								0.31 - 9.14m – Overburden						
								part 1 of 2 9317						
								9.14 m						
10								9.14 - 10.7m Gouge zone			54			
								10.7 - 13.4m Feldspar (Hornblende) Porphyry - (unit 10)		10.67			10.7	
	mod	strong	mod	weak	wk - mod	Hem - py		- pale green color - str. rusty weath. on frts. - lim ± Hem. - fine grned matrix - comp - 10-15% phenos - 90% fspar - ser ± minor clay - 5% relic Hbl → ser ± minor Chl. - 2% qtz - 3% fg. Hem. 85-90% matrix - sericite - silica - clay.	1%		80	NQ wireline		78
								10cm gouge zone.		13.11			13.4	
								str. diss. Hem						
								13.4m - Hbl are all relic textures.						
								13.40 - 15.50 m Fault zone			38			
15					intense			2.1 m Fault zone containing gouge - gouge filled						

HOLE NO.: KC-80-3 | PROJECT: Hoodoo | PAGE NO.: 2 OF 22

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

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

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

COMMENTS: Note: alteration title change limonite for chl/ep

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION | ALTERATION (silica, sericite, clay, limonite) | FRACTURING | MINERAL | GEOLOGY | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y.

15

Fault zone.

15.50 m

15.5 - 60.7 m - Quartz - Feldspar Porphyry - "Unit 8"

- rusty weathering ⇒ str limonite and hem weath.
- lgt grey to bleached white color
- vuggy texture - str at surface and decreases with depth.
- porphyritic texture
  - comp - 15% phenos - 70% qtz
    25% plag → ser → clay
    5% sulph
    trace - relic mafics → musc
  - 85% matrix - silica - sericite
- alt'n mod to str developed
- matrix - fine grained crystalline
- Qtz phenos - round to subround; up to 6mm in size; Quartz eyes.
- Plag phenos - up to 3mm; subrounded; often pitted
- minor relic mafic textures → cse grned muscovite
- trace of diss cpy and MoS_2
- no quartz vning.

* The alternating color tones is due to an increase in cse grned sericite in the grey sections and a decrease in the white sections.
  - white section contains 1% pyrite.

alternating grey and white colored sections. Diff. due to sericite - silica content.

→ 1cm lim. on frt.
→ str. vuggy text.
Δ ← 1 breccia frag of unit 1
→ str. vuggy text.
→ 2cm lim frt
→ trace diss MoS_2
→ 0.6cm lim on frt.
→ 0.5cm lim. on frt
→ str. vuggy text.
→ 3cm gouge zone.
→ trace diss MoS_2
→ 0.8cm gouge zone

mod - str in grndmass — moderate to strong — weak (phenos) — strong — weak to moderate — Py - Hem - (cpy - MoS_2)

3-4 %

* Lgt grey color porph. becoming more prominent.

* Diss. MoS_2 associated with grndmass silica

30.1 m - end of white colored rock

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL	% REC'Y.
16.46	38	15.5	
	50		70
19.81		18.5	
	81		86
22.86		21.5	
	59		70
24.38		24.5	
	83		85
26.2			
	96	27.5	
28.04			
	92		82
29.26			
	77		

CORE SIZE: NQ wireline

HOLE NO.: KC-80-3 | PROJECT: Hoodoo | PAGE NO.: 3 OF 22

COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REP. TO CLAIM CORNER:

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

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

ALTERATION: silica | sericite | clay | limonite | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT.

DESCRIPTIVE GEOLOGY

Quartz Feldspar Porphyry (8) cont.

30.1 - End of white colored porphyry and the presence of the grey, str sericite porph.
- increase in diss. sulph. content

* Minor MoS_2 assoc w silica and py
* All frts have limonite or hemetite
* Vuggy texture becoming quite weak

- Comp. - 15-20% phenos - 70% plag → ser → clay - very weak.
25% qtz
5% pyrite
- 80-85% f.g. matrix - 60% ser. - 40% silica

* Minor qtz s/w present - very weak.

* fsp phenos have pitted character.

* Limonite ranges from dark red (hemitite) to bright yellow.

42.6 - 42.8 - Section that is a bluish green, contains 1% diss Mt and is a very crowded porphyry - 35% phenos.

43.2 - - Rock takes on a mod grey tone. Appears to have a slight increase in cpy and MoS_2. Much less limonite. Richer in grnd mass silica.

Ser. quite ese grned.
0.6cm lim on frt.
1cm gouge zone.
presence of minor diss MoS_2
1cm lim on frt.
0.7cm lim. on frt
0.2cm py. vnlt.
Mt rich section
0.7cm qtz vnlt
1/2 MoS_2 - cpy vnlt
1.5cm py vn/t

SECTION: 30, 35, 40

ALTERATION: silica - moderate; sericite - strong; clay - weak; limonite - strong
FRACTURING: moderate
MINERAL: Py - Lim - (Mt - MoS_2 - Cpy)
GEOLOGY: str | mod

% SULPHIDES: 4½ - 5%

DRILLING INTERVAL	% CORE RECOVERED
30.79	77
32.31	86
34.14	80
35.66	111
36.88	70
38.10	68
41.45	93
42.06	74
44.50	70
	73

CORE SIZE: NQ wireline

SAMPLE INTERVAL	% REC'Y. SAMP. INT.
30.5	
	82
33.5	
	97
36.5	
	80
39.5	
	86
42.5	
	71

HOLE NO.: KC-80-3 | PROJECT: Hoodoo | PAGE NO.: 4 OF 22

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

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Quartz Feldspar Porphyry cont (Unit 8)

* Fspar phenos are pitted.

* Becoming slightly brecciated in places.

* Diss cpy very fine grained.

53.0-53.7 - Enrichment in py. Often has framboidal texture.

54.0 - 1st sign of bornite and native Cu on frts.

54.3 - 54.9 - weakly brecciated w dacite frags.

* Rock becoming quite whitish in color. Increase in silica. Alt'n quite strong.

* Rock very weakly brecciated in places.

SECTION	ALTERATION: silica	sericite	clay	limonite	FRACTURING	MINERAL	GEOLOGY
45	mod to strong	mod to strong	weak	weak to moderate	moderate	py - lim - (cpy - MoS_2)	1.5cm py vnlt.
							1cm lim on frt.
							0.8cm qtz vnlt.
							0.6cm py vnlt.
50							10cm gouge zone.
							0.6cm py vnlt.
							bleached zone w alot of limonite.
						py - lim - (Native Cu - cpy - MoS_2)	1cm py vnlt.
55							1.5cm lim. on frt.
							1cm py vnlt
							py vnlts
60	strong	moderate					

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
4-5%	46.64	73	NQ wireline	45.5	
		93			86
	49.38			48.5	
		85			91
	50.60				
		99		51.5	
	52.43				86
9%		93			
				54.5	
	55.47				82
		81			
5-6%	57.61			57.5	
		102			99
	59.74				
		94			

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

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

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

COMMENTS: Note change in alteration titles
chl/ep replaced limonite

AVE CORE REC'Y / HOLE

ALTERATION: silica (str) | sericite (mod) | clay (wk) | chl/ep

FRACTURING (mod) | MINERAL | GEOLOGY

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

DESCRIPTIVE GEOLOGY

Quartz Feldspar Porphyry (unit 8) cont.

60.7m Gouge zone

60.7- - Breccia (unit 4a)

- 1.5 cm shear contact
- matrix - grey to greenish grey color.
  - crystalline - composed of silica ± minor sericite, chlorite and ± epidote.
- frags - range in size from 1cm to ±10cm.
  - angular to subrounded in shape.
  - composite - dacite - unit 6
    - garnet-bio-qtz gneiss - unit 1
    - hbl diorite - unit 2
- sulphides range in content from 5-15%, both as disseminations and frt fill
- minor cpy - MoS_2 - Native Cu and Born present throughout.
- Alot of disjointed pyrite vnlts.
- weakly developed silicious envelopes around py vnlts,
- In places py cuts frags and in others it doesn't.
- diss py present in most of the frags.

* Frags 95% dacite, 5% diorite

* Native Cu becoming abundant on frts - crystals up to 3 or 4 mm in size.

73.7 - 74.0 - Gouge zone - maybe some movement

74.0 - First appearance of the gniessic frags.

1.5 cm gouge
65° to C.A.
trace Calcocite at contact
0.8 cm qtz vnlt.
str MoS_2 on frts vnlt.
0.6 cm qtz vnlt.
0.8 cm py vnlt.
1 cm py vnlt.
1 cm py vnlt
Native Cu on frt
rock out for show.
2 cm qtz vnlt.
0.6 cm qtz-carb vnlt.
Native Cu on frt
1 cm qtz vnlt.
30 cm gouge zone

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED
5-6%	60.7	94
8-15%	62.79	82
5%	65.84	89
6-7%	68.99	77
	71.93	68
5%	74.98	48

CORE SIZE: NQ wireline

SAMPLE INTERVAL	% REC'Y. SAMP. INT.
60.5	90
63.5	84
66.5	86
69.5	74
72.5	63

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

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

ALTERATION: silica, sericite, clay, chl/ep | FRACTURING | MINERAL | GEOLOGY | SECTION

strong in matrix; weak in matrix; wk to mod; mod to strong

py - lim - (Native Cu - cpy - MoS_2 - Bø)

Breccia cont. (Unit 4A)

- Pebbly - cave
- 0.7cm py vnlt
- 0.3cm py vnlt
- Native Cu on frt
- trace bø on frt
- Cave - limonite strong
- Qtz crystals along frt
- Native Cu on frt
- Native Cu on frt
- Diorite frag ÷ 50cm.

* Comp. of frags - 70-75% gniess - unit 1.
20-25% dacite - unit 2
<5% diorite - unit 2

- Composition of rock is - 55-60 % frags
  - strong breccia - 40-45 % matrix

Unit 1 Frags - bluish grey color; subrounded to subangular, strong shistosity or gneissic texture. Contains biotite, which forms the gneissic texture, quartz, 2mm pinkish garnets, and minor fspar, epidote and chlorite.

* Limonite weak on frts.

* No diss py in gniess frags

* All pyrite vnlts are rimmed with limonite.

82-84.5 - Caving with strong limonite

84.7 - Fragments all or 90% are greater than 2cm in size. Range >10cm in size. Alot of chl in matrix around frags

* Sulphides present in diorite frags.

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
5-6 %	75.5		NQ wireline	75.5	
		48			75
	77.42			78.5	
		103			
	79.55				83
		63			
	81.08			81.5	
	81.69	70			
		72			
	83.21				68
		63		84.5	
	84.74				
		100			99
	87.17			87.5	
		98			
					87
	89.31				
		70			

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

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

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

ALTERATION: silica | Sericite | clay | chl/ep

FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

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

SECTION

90

0.6cm py vnlt
0.4cm sph vnlt

badly broken - caving

Str. MoS_2 on frt
1cm py vnlt disjointed by frag.

Native Cu on frt
0.7cm py vnlt.

95

Vuggy texture

MoS_2 on frt.
Quartz frag - bull

lost core cave ??

0.8cm qtz vnlt
0.8cm py vnlt

trace Native Cu
0.6cm qtz-py vnlt.

100

diss. bright green color mineral ~ chlorite??
trace Native Cu on frt.
10% sulph.
15cm gouge zone.
0.8cm qtz vnlt

gneiss frag - 40cm
1cm qtz vnlt

105

strong in matrix
weak in matrix
trace in matrix
mod to strong
moderate to strong
py - lim - MoS_2 - (Nat. Cu - cpy - sph)

Breccia cont (Unit 4A)

* Starting to get a trace of clay (Montmorillanite) developed in the matrix.

* Notable increase in chlorite content in and around the frags.

* MoS_2 appears confined to frts as does Native Cu.

* Trace of clay alt'n of the fspars in the gneiss frags.

Rock comp. - 60-65% frags :- 55-60% gneiss
30-35% dacite
" 10% diorite
- 35-40% matrix - chlorite - silica - sericite - (clay)
- weak to mod. limonite on frts.

* Frag size - 90% >2cm.

*. Mod. Sericite content in the hornblende diorite frags.

5-6%

5-6%

91.14
92.05
92.97
94.18
95.71
96.62
98.45
99.67
102.11
103.63

70
77
80
114
88
66
04
102
94
82
96

NQ wireline

90.5
93.5
96.5
99.5
102.5

82
88
50
94
91

HOLE NO.: KC-80-3 | PROJECT: Hoodoo | PAGE NO.: 8 OF 22

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

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

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

ALTERATION: silica | sericite | clay | chl/epid

FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

SECTION

DESCRIPTIVE GEOLOGY

Breccia cont (Unit 4A)

- trace Native Cu
- 3cm py mass
- 0.9cm py vnlt.
- 0.7cm qtz vnlt.
- Native Cu on frt
- 0.5cm qtz vnlt.
- 0.3cm py vnlt.
- 0.7cm py vnlt.
- 0.9cm py vnlt.
- 1cm gouge zone
- 0.6cm py vnlt.
- trace Native Cu
- 0.3cm py vnlt.
- 1cm qtz vnlt.
- 0.9cm py vnlt.
- trace Native Cu

strong in matrix | weak in matrix | mod to strong | moderate

py - lim - MoS_2 - (Native Cu - cpy)

* Numerous H/L pyrite vnlts. - often have a limonite coating on the outside.
* Dacite frags are now barren - no sulphides.
* Good MoS_2 in the matrix
* Rock comp - 60% frags - 45% dacite, 40% gneiss, 15% diorite
  - 40% matrix - silica - chlorite - sericite.
  - limonite on frts - weak
  - 5-8% diss. py.
  - 90% of frags > 2cm.
  - 50% of frags > 10cm.
* Alot of diss. py. in the diorite frags.
* Limonite very weak

119.5 - End of limonite on frts.

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
6-7%	105.40	96	NQ wireline	106.5	
					96
		95		108.5	
	108.2				
		100			99
	111.25			111.5	
		96			
	112.97				101
		105			
5%	114.61			114.5	
		84			
	116.13				90
		95		117.5	
4-5%	119.18				107
		116			

HOLE NO.: KC-80-3 | PROJECT: Hoodoo | PAGE NO.: 9 OF 22

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

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

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

ALTERATION: silica | sericite | clay | chl/ep | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

SECTION | DESCRIPTIVE GEOLOGY | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP INT.

120

Breccia - (Unit 4) cont.

- trace Native Cu.
- trace Native Cu

* Numerous H/L (<1mm) py unlts - no limonite.
121.3 - Notable increase in chl in the matrix.
- dark green color.

* Native Cu appears to be confined to frts.

* cpy very weak and very fine grained.

- trace Native Cu.
- 0.5cm py unlt.

* Py content in matrix ranges about 10% to 15%. Averages down over the whole rock.

* Rock is fairly solid - decrease in fracturing

125

- 20cm dacite frag

Rock comp - 65% phenos - 55% dacite
30% gneiss
15% diorite.
- 35% matrix - silica - chlorite - sericite
- 80% frags > 2cm
- 40% " > 10cm
- traces of pyrite and epidote found in some dacite frags

- trace Native Cu on frt.

128.0 - Decrease in chl. - color of matrix greenish-grey.

* Traces of 1cm bull quartz frags present.

- 2x3cm py masses

130

- H/L MoS_2 unlt.

* MoS_2 occurs both as fine grained disseminations and along frts.

- 1cm py unlt
- 10cm py unlt.

134.1 - Increase in chl in matrix - Rock takes on a dark green color

135

strong in matrix
weak in matrix
moderate
strong
m-s
weak to mod
py - MoS_2 - (Native Cu - cpy)

4-5%
7-8%
5-6%

120.9 | 123.15 | 126.49 | 129.64 | 131.99 | 132.89 | 134.11

116 | 98 | 100 | 95 | 95 | 78 | 80 | 129

NQ wireline

120.5 | 123.5 | 126.5 | 129.5 | 132.5

98 | 100 | 95 | 92 | 103

HOLE NO.: KC-80-3 | PROJECT: Hoodoo | PAGE NO.: 10 of 22

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

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

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

ALTERATION: silica, sericite, clay, chl/ep | FRACTURING | MINERAL | GEOLOGY

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

135

Breccia cont - (unit 4A)

- Rock composition - 65% frags - 45% dacite, 25% gneiss, 30% diorite
- 35% matrix - silica, chlorite, ser.

Strongly brecciated

138 - 143.8 - Decrease in chlorite in grn dmass

140

145

150

147 - 151.1 - Unit 4? Similar breccia to unit 4A but fragment are 90% < 2cm. in size.
- dk green color - very chlorite rich.
- comp - 30% frags - 60% dacite, 30% gneiss, 10% diorite.
- ± 70% matrix - silica, chlorite, pass. sericite.
- sulphides - 8-9%
- no definitive contacts noted. Just a sudden size and abundance increase in frags

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
135	5-6%	135.0	113	NQ wireline	135.5	99
		136.9				
			77			
		137.16				
			100		138.5	
140		140.21				99
			99		141.5	
	4-5%	143.24				99
145			100		144.5	
		146.31				94
			86			
	8-9%	149.43			147.5	
			94			92
150						

ALTERATION: strong in matrix; weak in matrix; mod; mod-str; strong; mod-str

FRACTURING: moderate

MINERAL: $PY - MoS_2 - (CPY)$

GEOLOGY:
- H/L MoS_2 vnlt.
- 1cm qtz vnlt
- 1cm py vnlt
- 1cm py vnlt cut by gouge
- 1cm gouge zone.
- 0.5cm py vnlt.
- 0.9cm py vnlt
- 0.4cm py vnlt.
- sample for show.
- 0.5cm gouge zone
- 3cm py mass.
- 2x1.5cm qtz-carb vnlts.

HOLE NO.: KC-80-3
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

PROJECT: Hoodoo
DATE STARTED:
DATE FINISHED:
TOTAL DEPTH:

REF. TO CLAIM CORNER:
SCALE:
LOGGED BY:

SECTION | ALTERATION (silica, sericite, clay, chl/ep) | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y SAMP. INT.

DESCRIPTIVE GEOLOGY

Section markers: 150, 155, 160, 165

Alteration: silica – strong in matrix; chl/ep – strong chloride, weak to mod epidote; mod. chl (from ~161)
Fracturing: Mod (150–151.1); weak to moderate
Mineral: Py - Cpy - (MoS2)

Comments:
- 0.4cm py vnlt.
- 1st sign of epidote
- 1cm qtz-py vnlt.
- 0.8cm py vnlt.
- 3cm py vnlt.
- decrease in epidote
- color change - less grn. - less chl

Breccia cont. (Unit 4)

151.1 m Breccia - Unit 4a

- dK green color - strong chlorite in matrix and gneiss frags.
- numerous patches of epidote present.

153-160.9 - Intensely brecciated.

comp - 70% frags - 50 % diorite
40 % dacite
10 % gneiss
- 30% matrix - silica, chlorite.

- 65-70% of frags >2cm in size
- alot of hornblende in the diorite.
- most of the larger frags are diorite and the epidote is associated in and around these.
- gneiss and dacite form most of smaller frags plus some of the larger ones.
- minor diss. py in the diorite frags.
- numerous H/L py vnlts.
- slight increase in diss cpy - decrease in MoS2.

* Getting traces of a purple volcanic (andesite?) fragment

160.9 - Drastic decrease in epidote - trace.

160.9 - 172.1 - strongly brecciated - coarser frags.

comp - 80% frags - distribution same as above.
- 80% of frags >2cms
- color greenish grey - decrease in chl & epidote

- Very little matrix

* Numerous H/L py vnlts.

* Very weak MoS2

% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.
8-9% (150–151.1)	150.22	93	NQ wireline	150.5	98
6-7% (151.1–165)	152.71	109		153.5	99
	154.23	96		156.5	101
	157.28	105		159.5	85
	160.23	68		162.5	87
	162.16	93			
	163.68	82			

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

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

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

ALTERATION: silica | sericite | clay | chl/epid | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

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

165

Breccia cont - (Unit 4A)

0.4cm gouge zone

* Sericite may or may not be present.

* Frags devoid of pyrite except along H/L frts.

0.3cm py vnlt.

60cm gneiss frag

* Numerous H/L py vnlts that are truncated by the frags.

1cm qtz vnlt w chl.

6-7%

166.42 | 82

169.03 | 48 | 74

169.56 | 90

169.78 | 80 | 75

170

172.2 - 175.1 - Color change - dark green matrix
- str. chl and mod. epidote.
- epidote form rounded masses and strung out along H/L frts.

171.91 | 69

173.43 | 92 | 90

NQ wireline

175

cave

175.1m Caving at contact area

Quartz - Pyrite Porphyry Breccia (Unit B)

175.26 | 96

- pale greenish grey color
- no distinct contact noted. - cave zone in area.
- porphyritic and breccia textures noted
- breccia or frag content decreases away from Unit 4A.
- composition - 10-20% frags - 40% diorite
- 30% dacite
- 30% gneiss
- round to subround - 2-4mm in diam
- 5% qtz phenos
- 1% fsp phenos → ser + clay
- 4-5% pyrite
- 75% matrix - silica, sericite + minor chlorite.
- crystalline

176.48 | 98 | 91

0.4cm py vnlt w silicious envelopes

4-5%

177.5

178.62 | 83

cave

179.0 - 90% frags >2cm

Breccia - (Unit 4A)

7%

179.84 | CA | 78

cave.

discription same as before.

180

85

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COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Breccia cont (unit 4A)

183.7 – 185.6 – Cave or fault zone – fine sand and small pebbles

186.4 – 187.6 – Diorite fragment.

186.5 – 186.8 – Caving

Comp – 35% frags – 40% diorite, 30% dacite, 20% gneiss

– 65% frags ± silica – chlorite ± sericite.

– 60% of frags >2mm.

190 – 193.5 – moderate limonite present.

* Some of the pyrite has a framboidal texture.

192.6 – 193.2 – Bleached Rock – contains chlorite diss.

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
180	strong	± sericite – weak.		strong chl mod epidote	moderate	py – lim – (cpy)	1cm qtz vnlt.	6-7%		85	NQ wireline.	180.5	
							4cm gauge zone.		191.44				74
							0.5 carb vnlt.			65		183.5	
							4cm qtz vnlt.						
185							Sand + pebbles		184.71	75			83
							1cm qtz-py vnlt.		185.32				
							cave / diorite frag.		186.59	127			
									187.15	105		186.5	
							Reduced to BQ		188.05	33			65
							H/L cpy vnlt			60	BQ wireline	189.5	
190			mod. chl.		mod – str		0.7cm qtz vnlt.		190.80	87			70
									191.91	64			
							Bleached zone.		192.33	98		192.5	
195									192.94	84			86

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

ALTERATION: silica, sericite, clay, chl/epid | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

SECTION | DESCRIPTIVE GEOLOGY | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP INT.

Breccia cont. Unit 4A.

196.1 - 198.4 - Intensely brecciated - alot of chl and epidote - 60% frags. in a dk green matrix

198.4 - - 35-40% frags in a pale green matrix

203.5 - 1st sign of clay - alt'n of fspars in diorite frags

Contact @ 210m Unit 8 and Unit 4A.

6-7%

4-5%

196.90 | 198.42 | 200.87 | 201.97 | 203.69 | 205.61 | 205.79 | 207.60 | 209.4

84 | 97 | 78 | 85 | 98 | 66 | 30 | 102 | 86 | 78

BQ wireline

195.5 | 198.5 | 201.5 | 204.5 | 207.5 | 210

91 | 80 | 75 | 65 | 78

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

SECTION	ALTERATION: Silica	ALTERATION: sericite	ALTERATION: clay	ALTERATION: chl/epid.	FRACTURING	MINERAL	GEOLOGY
210	moderate to strong			weak	mod to strong	Py - cPy - (MoS_2)	
215		strong					
220							
225	mod.	v. str	weak	mod.	weak	Py-Hem	

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Pyritic Quartz Porphyry - (Unit 8)

210 - 221.9 - weak breccia - 5-10% frags - same frags as unit 4A.
- decreases with depth.

1cm qtz vnlt.

*chlorite moderate to strong around frags.

discription - color pale greenish grey
- porphyritic texture.
- alt'n strong.
- matrix - crystalline
- composition - 10-12% phenos - 5-7% qtz
- 4-5% pyrite.
- 90% matrix - sericite-silica + minor chlorite.
- sericite alt'n very strong
- diss py, cpy and minor MoS_2
- qtz phenos are rounded to subrounded.
- numerous H/L py vnlts
- frting mod to strong.

0.5cm gouge zone.

0.4cm fspar vnlt.

2cm qtz-chl-py vnlt.

0.3cm py vnlt.

221.9 - End of breccia frags.

40° to CA. 223.9m

contact - sharp w a sec. bio envelope on each side 1cm wide.

223.9 - 229.4 - Feldspar Hornblende Quartz Porphyry - "Unit 10"

discription on next page.

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
4-5%	210.92	78	BQ wire line	210	82
	212.75	94			
	213.97	38		213	48
	215.19	33			
	216.8	64			
	216.41	54		216	87
		90			
	218.85	79		219	
	220.07	90			85
	221.38	77			
	221.89	70		222	
	222.5	72			79
	223.11	89		223.9	
1%	224.33	99			NS

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

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

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

ALTERATION: silica | sericite | clay | chl/ep

FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

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

225

Feldspar Hornblende Quartz Porphyry cont "Unit 10"

- color greenish grey
- friting weak
- alt'n strong - often obscures phenos.
- porphyritic texture
- comp - 10-15% phenos
  - 80% fsp → sericite + minor clay.
  - 5% qtz
  - 5% Hbl → sericite + chl.
  - <1% sulphides
  - <1% Hem.
- 85-90% matrix - sericite - silica + chlorite.
- sericitic alt'n very strong in both the matrix and phenos.
- Hbl phenos have alt'd to sericite and have a tan color.
- very weakly structured.

Contact sharp.

229.4M

229.4 - 242.5 - Pyrite Quartz Porphyry "Unit 8"

Same discription as on page 15
- contains minor frags - 1%.

* Minor limonite on frts.

* More chlorite than other section of "Unit 8"

moderate to strong	moderate
strong	weak
moderate	moderate
weak	weak to moderate

Py - Hem (cPy)

Py - (MoS_2) - (cPy)

- py vnlt and bleb
- 0.3cm qtz vnlt
- Acid test - 56°
- 40° to CA
- 0.3cm py-qtz vnlt
- 0.6cm qtz vnlt
- 2x H/L chl vnlts.
- 2x 0.3cm py-MoS_2 vnlts
- 1cm py-chl vnlt.
- 0.7cm gouge zone
- 1cm qtz-chl vnlt.
- 0.8cm chl-py vnlt.
- H/L py vnlt

1%

3-5%

DRILLING INTERVAL	% CORE RECOVERED
227.36	99
	99
230.43	95
233.48	81
234.39	
	100
237.44	85
239.57	95

CORE SIZE: BQ wireline

SAMPLE INTERVAL	% REC'Y. SAMP. INT.
	NS
226	
	99
229	
229.4	NS
	97
232	
	92
235	
	98
238	
	90

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COLLAR ELEV.:
GROUND ELEV.:
COORDINATES: N. E.
INCLINATION:
BEARING:

PROJECT: Hoodoo
DATE STARTED:
DATE FINISHED:
TOTAL DEPTH:

REF. TO CLAIM CORNER:
SCALE:
LOGGED BY:

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY
240–242.5	mod-str	str		mod	wk to mod	Py-(Mo,cpy)	
242.5–255	moderate	very strong	very weak (phenos)	moderate to strong	mod / strong	Py-hem-(cpy)	

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

240 Pyrite - Quartz Porphyry "Unit 8"

→ 0.5cm py unit.

242.5 m sharp contact - angle not measurable.

242.5-259.9 Feldspar -(Hornblende) Porphyry "Unit 10"

- color med green-grey
- frt ... to mod.
- porphyritic texture
- comp. - 20% phenos - 80% fsp (plag) → sericite + minor clay
  - 20% Hbl → chlorite + sericite.
- 80% matrix - sericite - silica.

} cave.

→ 1cm gouge zone

→ 10 cm gouge zone.

245

- chlorite alt'n mod to strong on hbls
- phenos subrounded to sub angular.
- < 1% sulphides
- < 1% hemitite.
- alt'n strong
- matrix has a peppery appearance

→ 1cm gouge zone

248 - Increase in phenos - 30-35% - same distrib.

250

* Very Structureless - excepting frts.
  - alot of caving

→ H/L gouge

→ 0.6 gouge zone

255

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.
3-5% (240–242.5)	–242.62	95	BQ wireline	–241	90
				–242.5	95
< 1% (242.5–255)	–244.14	91		–246	NS
	–245.06	85		–249	89
	–247.11	90			NS
	–250.85	86			
	–252.97	85			
	–253.6	80			
	–254.81	99			

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

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

ALTERATION: silica | sericite | clay | chl/ep. | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Feldspar (Hornblende) Porphyry cont. "Unit 10"

2cm gouge zone.

35° to C.A.

259.8m

weak schistosity texture near contact.

Sharp contact.

Quartz - Pyrite Porphyry "Unit 8"

- dk grey color w traces of green throughout.
- minor whitish patches.
- moderately fractured - mostly healed.
- traces of breccia frags.
- numerous H/L py and chl. vnlts
- comp. - 5% phenos - Qtzs.
  - 2-5% sulphides
  - 80% matrix - sericite - silica ± chlorite.
- sericite alt'n strong, - crystalline matrix
- weak porphyritic texture
- qtz phenos are round to sub rounded.
- chlorite is present as an alteration of something

1cm py mass.

0.7cm qtz vnlt.

4cm py vnlt.

0.3cm py vnlt.

1cm qtz vnlt.

H/L chl vnlts.

* Traces of H/L MoS_2 vnlts

0.9cm py-chl vnlt

1x0.4cm py-chl vnlts

0.6 cm chl vnlt.

SECTION	FRACTURING	MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
255	str	py-Hem-(cpy)		< 1%		58	BQ wireline	256	NS
					256.89	71			87
					257.25				
						100		259	
260								259.8	NS
					260.3				
						102			102
								263	
					263.88				
		py-(MoS_2)		2-5%		87			91
265					265.98				
						96		266	
					267.01				
						92			93
								269	
					269.75				99
270						103			

ALTERATION: mod to str. | strong | moderate | moderate | strong

FRACTURING: weak

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

ALTERATION: silica, sericite, clay, chl/epid. | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

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

DESCRIPTIVE GEOLOGY

Quartz-Pyrite Porphyry cont "Unit 8"

* Gradual decrease in pyrite content away from the "Unit 10". -Usually fine-grained.
* Scattered H/L chlorite vnlts quite abundant.
* Fracturing weak - very structureless core.

Traces of H/L MoS_2 and cpy vnlts - no diss. MoS_2 noted.

* Minor limonite on frts.

270 | 275 | 280 | 285

moderate to strong | strong | moderate | weak

py - MoS_2 - cpy

- 0.7cm py vnlt.
- 0.9cm py-chl vnlt.
- Scattered H/L chl vnlts.
- Scattered H/L chl vnlts
- trace sphal on frts.
- 0.6cm cpy-qtz vnlt.
- 1cm py-chl vnlt.
- cave.
- H/L MoS_2 vnlt.
- 0.3cm py-chl vnlt.

2-3%

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
2703	103	272	99
2724.9	102	275	101
2758	100	278	101
2785.9	102	281	87
2795	72	284	96
2822.8	95		79
2833.77	96		
	77		

CORE SIZE: BQ wireline

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

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

Quartz - Pyrite Porphyry cont "Unit B"

- 0.8cm qtz vnlt.
- 0.8cm gouge zone.
- * Numerous H/L chl vnlts
- 288.0 - 1st sign of H/L qtz vnlts - weakly developed.
- * MoS_2 vnlts (H/L) becoming more abundant.
- * Minor limonite along frts.
- 0.5cm qtz vnlt
- 0.9cm MoS_2-qtz vnlt.
- H/L gouge zone
- * H/L to 0.3cm qtz vnlts usually carry traces of MoS_2
- 0.9cm qtz vnlt.
- 5tr. MoS_2 on frts.
- H/L gouge zone

SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
285	moderate to strong	strong	weak to moderate	moderate	weak	Py - MoS_2 - cpy		2-3%	286.52	77	BQ wireline	287	79
									288.34	95			
									289.95	95			85
290									289.97	70		290	
									291.39	75			81
									292.0	87			
									293.85	82		293	
295									294.75	71			81
									296.88	92		296	
									297.47	53			85
									297.71	98		299	
300										96			95

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SECTION	ALTERATION: silica	sericite	clay	cal/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
300	mod - strong	strong	weak to moderate	weak to moderate	moderate	Py - MoS_2 - cpy		DESCRIPTIVE GEOLOGY		2-3%	300.64	96	BQ wireline	302	95
								Quartz - Pyrite Porphyry cont. "Unit 8"				94			
								* Qtz s/w weak to moderate - $MoS_2 \mp$ cpy associated with the s/w. - average 1mm to 4mm in width. - increasing with depth.							
								8% sulph - py - cpy							
								0.5 cm qtz - MoS_2 vnlt.							
								Unit 2 fragment.							
								MoS_2 content increase towards lower contact.			303.58	30			65
305								cpy content also increasing with depth. - large to small clusters or masses.		4-5%	304.80			305	
											305.7	56			82
												102			
								45° to C.A			307.29			307.5	
								307.5 m sharp contact				105			
								"Bughole" Quartz Porphyry Dyke "Unit 9"			308.70				95
								- creamy white - possibly rhyolite matrix				96			
								- 5% quartz phenos - rounded			309.68				
								- 4-5% fspar → sericite ∓ chlorite. - subrounded.				91			
								- numerous mm py - MoS_2 veinlets.			311.20			311	
								- Possibly the mineralizing event.				70			84
310	strong	moderate	weak	weak	weak	Py - MoS_2		310 - 310.3 - "Unit 8"		1%	312.72				
								Unit 8				98		314	
								311.0 - 311.5 m - "Unit 8"			314.25				
								Unit 8.				93			93
	mod	str	mod	mod	Py-MoS_2			1cm MoS_2 vnlt 314.0 m sharp contact.		<1%					
315								Quartz Porphyry "unit 8"							
								discrip - same as before.							

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SECTION	ALTERATION: silica	sericite	clay	chl/epid	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.
315	mod - strong	strong		weak to mod	moderate	Py-cpy-MoS_2		DESCRIPTIVE GEOLOGY				93	BQ wireline	317	93
								Quartz Porphyry cont "Unit 8"							
								1cm qtz-cpy vnlt.							
								* Quartz s/w weak to mod. - cpy ± MoS_2 assoc.							
								* Numerous MoS_2 and py vnlts.							
								traces of sphalerite.		1%	217.30	59			77
								1cm chl vnlt.			219.21				
								Acid test - 58°				93			
											319.49				
320								0.6cm qtz vnlt.			320.07	28			
								320.65m End of hole				89			
								Had to abandon hole due to sand caving plus extreme H_2O pressure.							