Red Mountain 103P 220

Section 1150 **676427**

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DVL-13,14,15,16

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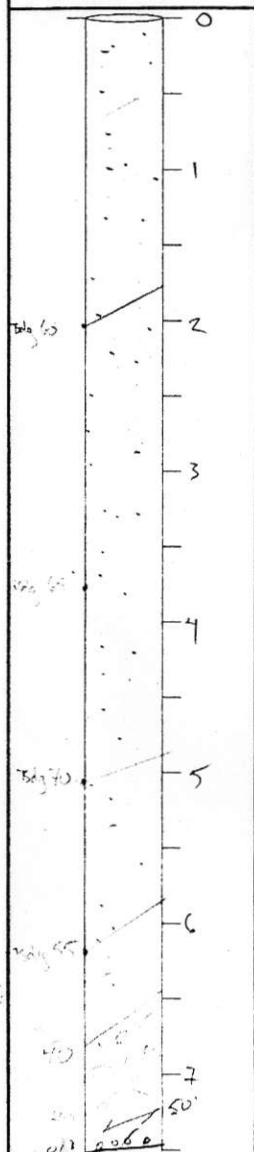
DRILL HOLE GEOLOGY LOG

DRILL HOLE: UG93-1041

Geologist: GERNOT W.



Interval from	Interval to	Level	Geology (Litho code / Capsule)	Clast size	Structure (Bedding ∠)
0	23.31	A	Bdd f-c T — Blk to light grey fine to coarse T interbedded w beds ranging from 1mm to 50cm from 50 to 65°; 2-3% dissem blebs py + strgrs to 2mm; 1% vfg diss po. 2% scattered cc + qc strgrs to 10mm at various angles; wk chl on fracts,	f-c	
0.0	3.0	C	semi-massive beds of blk T. patches thin bedded sections to 50cm, otherwise slightly disrupted -> can't get any definitive bedding measurements		60
3.5	4.0	C	thinly bedded section where beds are 1mm to 3cm w very irregular boundaries, load casts + flame structures showing tops uphole @ 65°		65
					70
6.48	6.95	B	F(H)xl T (?) — light grey fg sl FHxl T or intrusive? UC sharp @ 40° LC sharp @ 40°; 15% very indistinct approx 1mm whispy light grey to white xtls in vfg mx		55
6.95	7.48	C	foliated lt grey - dk grey mud seds(? + F(H)xl T mixed together ?) (enigmatic zone.) 15cm to LC has strong po alter an to 10% blebs dissem parallel to 50° foliation; LC sharp @ 86° w chl rich bx in last 2.5cm		

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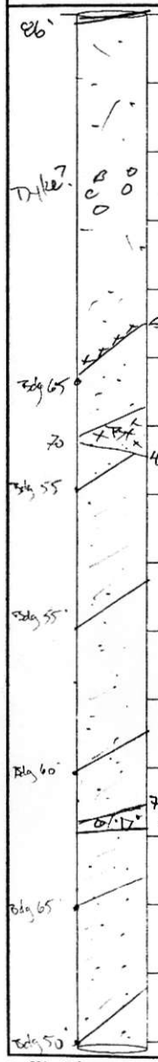
DRILL HOLE GEOLOGY LOG

Geologist: GERNOT W



Interval from	Interval to	Level	Litho code / Capsule (as it would appear on plotted sections)	Clast size	Modifier	Intensity	Character	Axinite	Carbonate	Chlorite	Epidote	K-spar	Sericite	Silica	Tourmaline	Mafics	other	Contact	Bedding	Gouge	Broken Core	Breccia	Fluxion	Schistosity	Lineation	Slip	Folding	Veining	other
7.48	9.81	B	clastic Dyke ? med – light grey fg mx to ≤ 1mm light grey to white wispy subhedral Fsp? xtls to 15% mx has 30% sharp to ang frags 1mm to 2cm ; some frags are bdd. 65% of frags are blk to med grey ft & 35% are light grey – white FHxlT frags ; largest frags are concentrated in a zone in the centre of the interval @ 8.5 to 9.0m where 60% of frags are < 1cm ; LC sharp @ 50° + brecciated to 2cm to LC ; last 10cm has 20% qc stgrs ≤ 1mm to 10mm @ 50° + 10% py as stgrs + blebs sub parallel to qc stgrs ; unit seems to be finer grained 50cm to UC																											
10.47	10.55	B	Bx? / Tx Dyke? UC sharp @ 70°, LC sharp @ 40° . strongly fract light grey to black ft + FHxlT frags 2mm to 1cm 60% ft frags, 40% FHxlT frags / to 25% po rich fg mx ; to 10% po.																65 55										
12.37	12.82	C	6% qc stgrs 2mm to 10mm , most @ 40-50° , 10mm is parallel to core																55										
13.32	13.40	B	Bx / Tx Dyke? 30% ang frags in FxI rich mx , mx fg to 20% ≤1mm FxI xtls Frags 2mm to 4cm long 75% ft 25% light grey – white sil FxIT? frags ; some frags bedded ; lots are very long + thin fragile looking things → probably rip-ups ; UC sharp @ 70° LC sharp @ 70 but opposing UC																60 65										
15																													

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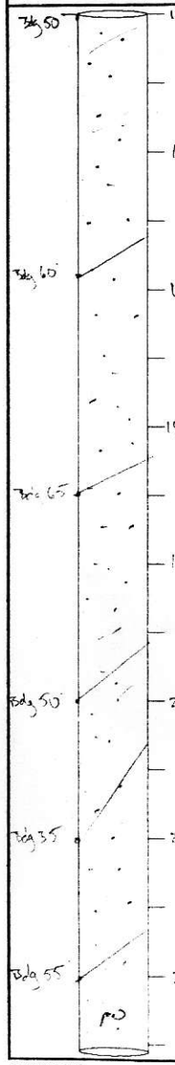
Geologist: GERNOT W



Interval from	Interval to	Level	Litho code / Capsule (as it would appear on plotted sections)	Clast size	Modifier	INTENSITY	Character	Axinite	Carbonate	Chlorite	Epidote	K-spar	Sericite	Silica	Tourmaline	Mafics	other	Contact	Bedding	Gouge	Broken Core	Breccia	Fluxion	Schistosity	Lineation	Slip	Folding	Veining	other
15.15	15.37	C	5% qc stringers @ 30° from 1-3cm wide																50										
																			60										
																			65										
19.0	22.0	C	Tds are thicker here than uphole → beds from 1cm to 20cm																										
																			50										
																			35										
																			55										
22.35	22.38	C	3cm band of fg po @ 75°																										

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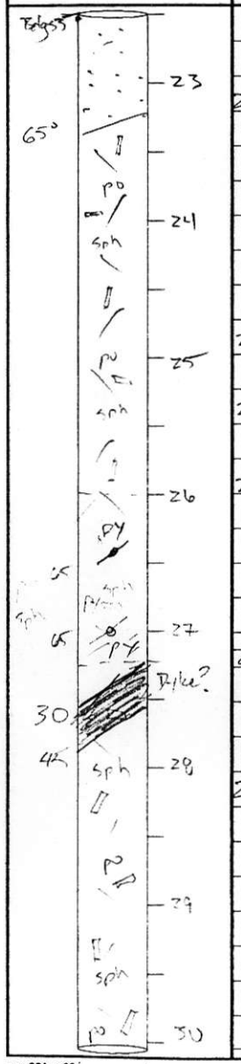
Geologist: GERNOT W.



Interval from	Interval to	Level	GEOLOGY: Litho code / Capsule (as it would appear on plotted sections)	Clast size	Modifier	ALTERATION: Intensity	Character	Axinite	Carbonate	Chlorite	Epidote	K-spar	Sericite	Silica	Tourmaline	Mafics	other	STRUCTURE: Contact ∠	Bedding ∠	Gouge ∠	Broken Core ∠	Breccia ∠	Fluxion ∠	Schistosity ∠	Lineation ∠	Slip ∠	Folding ∠	Veining ∠	other ∠
																			55										
23.31	89.0	A	HFxl T 15-20% 1-3mm lt grey to sea altd-green, subhedral Hb xtls, 5-10% lt grey-white opaque anhedral to subhedral 1-2mm Fsp xtls in a fg lt-dk gray mx, mod to strong po altn to mx as dk gray 5-15% vfg dissem po; 2-20% py dissem + stngrs + vns, 1-5% poly red-brown sph dissem + as stngrs, strong sec altn thru, mod chl sec on fracts, 1% poly qc stngrs @ various angles																										
23.8	43.0	C	2-5% dissem red-brown sph + poly stngrs to 10mm @ 65°																										
25.6	25.8	C	bleached beige-green section vc diffuse, LC sharp @ 50°																										
26.0	27.3	C	7% ca py as stngrs + vns to 6cm wide, stngrs mostly @ 65°, larger vein also @ 65° w 1cm hand of blackjack sph @ LC; generally 3-4% sph thru																										
27.39	27.62	B	Silc Dike(?) / cT(?) blk fg magnetic mx w 10-15% lt grey - blk rnd-strnd fT frags ≤1mm to 4mm, vc sharp @ 30°, LC sharp @ 45°; Bxd 10cm to LC w cc as flf																										
28.0	31.0	C	1% ass blebs red-brown sph 3-4%																										

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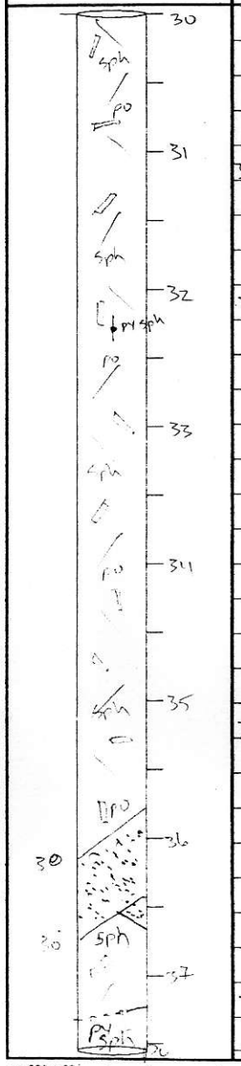
DRILL HOLE GEOLOGY LOG

Geologist: GERNOT W.



Interval from	Interval to	Level	Litho code / Capsule (as it would appear on plotted sections)	Clast size	Modifier	Intensity	Character	Axinite	Carbonate	Chlorite	Epidote	K-spar	Sericite	Silica	Tourmaline	Mafics	other	Contact	Bedding	Gouge	Broken Core	Breccia	Fluxion	Schistosity	Lineation	Slip	Folding	Veining	other
31.86	31.9	C	po-py-sph vn @ 70° w̄ cg euhedral py cubes in centre w̄ cc as mx, 1cm band po to uc, 1cm band blackjack sph @ LC																										
32.2	32.5	C	py-sph strgr subparallel to core w̄ to 10% py + 5% red-brown sph																										
35.8	36.45	B	f-c blk T black fg mx w̄ 60% black + light grey fT (?) frags ≤ ½mm to 3mm sbrnd to sbang. uc sharp @ 30°, LC irreg approx 30° as well; Possibly a dyke(?); 3-4% dissem red-brown sph thru																										
37.3	37.85	C	10% sph strgrs @ 65° w̄ 5% assoc po strgrs, 5% assoc py blebs.																										

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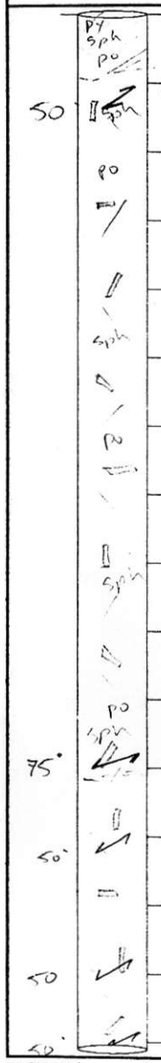

GRAPHIC LOG	Interval from	Interval to	Level	GEOLOGY: Litho code / Capsule (as it would appear on plotted sections)	Clast size	Modifier	ALTERATION: INTENSITY	Character	Axinite	Carbonate	Chlorite	Epidote	K-spar	Sericite	Silica	Tourmaline	Mafics	other	STRUCTURE: Contact ∠	Bedding ∠	Gouge ∠	Broken Core ∠	Breccia ∠	Fluxion ∠	Schistosity ∠	Lineation ∠	Slip ∠	Folding ∠	Veining ∠	other ∠
	38.0	38.5	C	wk-mod foliation defined by py + sph stringers + chl-rich bands															in mx @ 50°											
	40.0	40.30	C	po-sph-py stringers 1mm to 10mm @ 55° to 8% of core; po in centre, sph on outside ± py																										
	40.37	40.43	C	qtz-ic-chl vn @ 45°; true width approx 2½ cm																										
	42.27	42.90	C	disrupted + swirled text due to microfracturing; 2-4% med grained py blebs + stringers; 5-4% diss sph + stringers assoc w/ py; 15cm to LC has foliation @ 75°																										
	43.0	46.0	C	mod-strong foliation defined by alignment of chl + sericite altd xtls @ 50°																										

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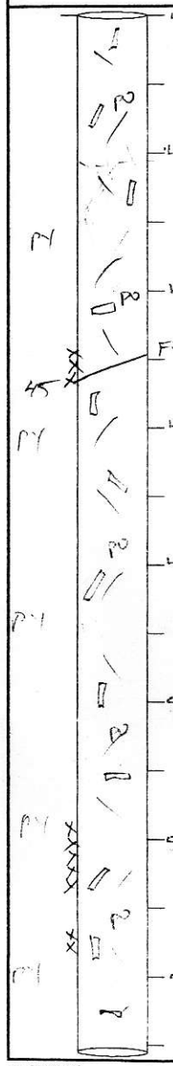
Geologist: GERNOT W.



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45.41	45.50	C	Foliated bx? w chl-py mx; light grey-white to dk grey & brown frags 2mm to 7cm w 30% chl-py mx; foliation @ 50°																										
46.0	57.0	B	PY-HFXIT med grey-dk grey/blk mx w 10% cg py as stngrs 1mm to 10mm and veins to 6cm @ 65-70°																										
47.54	47.60	C	ang rubbly core w 2mm gouge @ LC; LC sharp @ 45°																										
48.52	48.56	C	cg massive py VN @ 40°																										
48.64	48.7	C	cg massive py VN @ 65°																										
49.52	49.57	C	cg massive py VN @ 65°																										
50.69	50.9	C	2% fg disseminated sph assoc w py																										
50.93	51.36	C	angular rubbly core w major angle @ 40°, 2nd angle @ 15°																										
51.62	51.82	C	rubbly core; major angle 65°, minor @ 35°																										
52.0	52.5	C	6-9% cg py blebs + stngrs @ random orientations; slightly swirled text to mx + xtls 2cm to LC																										

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Interval from	Interval to	Level	Litho code / Capsule (as it would appear on plotted sections)	Clast size	Modifier	Intensity	Character	Axinite	Carbonate	Chlorite	Epidote	K-spar	Sericite	Silica	Tourmaline	Mafics	other	Contact	Bedding	Gouge	Broken Core	Breccia	Fluxion	Schistosity	Lineation	Slip	Folding	Veining	other
52.5	52.9	C	massive py vn uc sharp @ 40°, lc irreg @ 65°																										
53.95	54.0	C	1cm gouge @ 40°																										
54.75	55.06	C	massive to semi-massive py vn uc sharp @ 70°, lc sharp @ 60°																										
55.16	55.30	C	angular rubbly core; major fract @ 20°; 3cm pieces massive py; 10% qc stgrs thru + on fract surface																										
55.5	55.6	C	1cm py stgrs @ 60°																										
56.09	56.79	C	wkly bx'd(?) 5% dk grey HFxIT frags in grey-grn HFxIT mx, 10% py blebs may be py frags																										
56.79	58.0	C	angular rubbly to blocky core; angles 60° + 10°; mod-strong cc on fracts + tr-wk chl																										
58.0	71.0	C	tr - 3% patchy disseminated sph + occas stgr to 5mm																										
59.26	59.47	B	FZ (?) pebbly to rubbly angular core; UC @ 40 LC @ 55°, 10% gouge, frags 2mm to 4cm																										
59.53	60.67	B	Bx ? UC sharp @ 45° LC sharp @ 55°; patchy 30-40% frag dk grey mx in 6cm to 1cm bands																										

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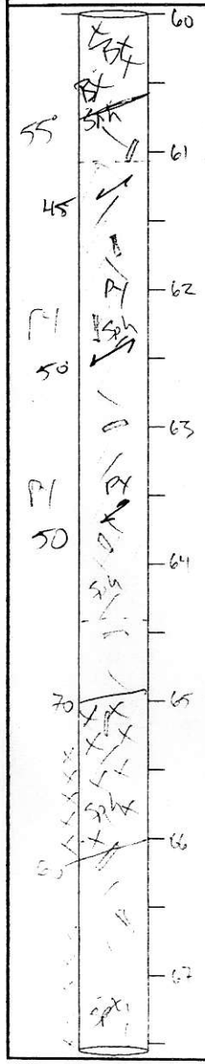
DRILL HOLE: U6 93-1041

DRILL HOLE GEOLOGY LOG

Geologist: Gernot W.



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			@ 60° to 45°; Frags from dk grey, and bleached white-grey w/ pinkish-brown tinge; tr-1% blebs red brown sph, 2-3% cg py blebs; Bx grades to strong, fract @ LC w/ stkwk of dk grey fg mx			3mm to 4cm																							
61.0	61.47	B	py-HFXIT 5-10% cg py strgrs + vns 45-50°; 1mm to 5cm wide; weak to mod foliation defined by alignment of sericitized xtls parallel to py stregrs + vns.																										
62.16	62.21	C	5cm cg py vn @ 50°																										
63.46	63.51	C	3cm cg py vn @ 50°																										
63.58	63.68	C	8cm cg massive py vn @ 48°																										
64.90	66.0	C	strong fract + cc annealed blocky to rubbly core; 3-5% disseminated red-brown sph, minor chl, 1-2% disseminated py to 10% cc overall; uc sharp @ 70°, lc @ 60°																										
66.6	67.66	C	angular blocky to rubbly core; 30°, 60° fracts; mod chl-cc on fracts																										

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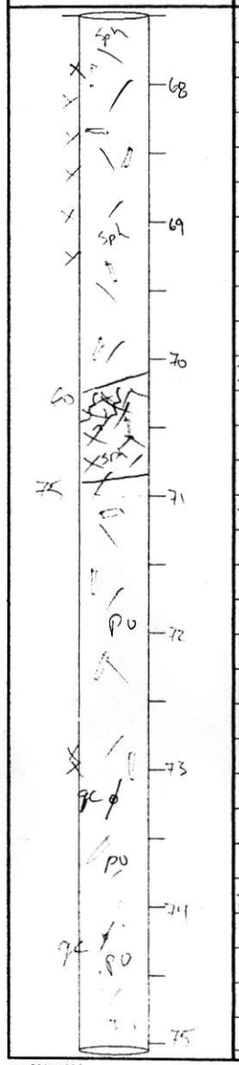

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67.66	67.79	C	mod-strong fract + cc-chl annealed; 5-6% cc as ff																										
67.79	69.47	C	Blocky to rubbly ang core; angles 30°, 60°; pieces mod-strong fract + cc annealed in areas 2cm cc stngrs @ 45°																										
70.33	70.81	C	mod-strong fract + cc annealed; slightly granular surface text; 2-4% cc as fine ff uc sharp @ 60 LC sharp @ 75																										
71.29	71.47	C	rubbly ang broken core to wk chl on fracts; angles 30° + 60°																										
71.47	89.0	C	5-10% vfg dissem po in mx as dk grey blotches + blebs																										
72.8	73.0	C	rubbly broken core w mod chl on fracts																										
73.0	73.1	C	qc + py stngr @ 20°; 2cm wide; 10% py parallel to qc stngr																										
74.0	74.2	C	1cm wide qc stngr @ 20°																										

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	75.44	75.87	K	mod-strong fract + cc-chl-py unmineralized @ 20° ; 6% fg py, 4% cc, 3-4% chl																										
	77.0	78.0	C	3-4% qc stringers @ 50-60° and 5-15° as fine ff + to 5mm wide.																										
	78.8	79.1	C	rubbly broken core w minor chl on fract, angles 50° + 70°																										
	79.7	80.15	C	rubbly broken core w wk-mod chl on fracts; 6% cc as stringers @ 40° + 60° ± 1mm to 1cm																										
	81.0	82.0	C	4-5% qc stringers ± 1mm to 2mm @ 60°																										

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83 po	83.56	84.15	C	angular blocky to rubbly core, strong chl on fracts, @ 60°																										
84 po	84.83	84.94	C	5cm band @ 40° w 1cm tour as po-py stngr, rest is chl-cc rich band																										
85																														
86 po																														
87 po	87.26	87.41	C	1cm po stngr w 10% py + cc @ 35°																										
88 po	88.47	88.80	C	8% po as stngrs 4mm to 15mm @ 65°, 10% cc bands @ 60° mixed w chl, + cc stngrs @ 40 to 5mm cross cutting cc-chl band																										
89	89.0		A	EOH																										

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