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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
9/20/2001	BCS00011404	45.00	47.50	
9/20/2001	BCS00011405	47.50	50.00	Drill bit open hole 7 7/8" tricone mill tooth from 40 ft.
9/20/2001	BCS00011407	50.00	55.00	Quartz on fractures.
9/20/2001	BCS00011409	55.00	60.00	Drusy.
9/20/2001	BCS00011411	60.00	65.00	
9/20/2001	BCS00011413	65.00	70.00	Driller comment: "soft" @ 65'. Quartz on fractures.
9/20/2001	BCS00011415	70.00	75.00	Highly fractured.
9/20/2001	BCS00011417	75.00	80.00	Driller comment: "soft" @ 77' Highly fractured.
9/20/2001	BCS00011419	80.00	85.00	
9/21/2001	BCS00011421	85.00	90.00	Start wet samples; no split.
9/21/2001	BCS00011423	90.00	95.00	
9/21/2001	BCS00011425	95.00	100.00	
9/21/2001	BCS00011426	100.00	105.00	Drusy quartz on fractures.
9/21/2001	BCS00011427	105.00	110.00	'Bleaching' to 5YR 7/2.
9/21/2001	BCS00011428	110.00	115.00	
9/21/2001	BCS00011429	115.00	120.00	Possible contamination (re: cleared 'bridge' @ appxo. 85')
9/21/2001	BCS00011430	120.00	125.00	Possible contamination (re: cleared 'bridge' @ appxo. 85')
9/21/2001	BCS00011431	125.00	130.00	
9/22/2001	BCS00011432	130.00	135.00	
9/22/2001	BCS00011433	135.00	140.00	Used quick-foam, rotary drilling below 135'.
9/22/2001	BCS00011434	140.00	145.00	Added 1 cup EZ mud & 25 lbs. bentonite per 175 gal water. Weights not taken in rock samples. Samples are wet and couldn't be screened so we were told to skip this weighing/separating of sample.
9/22/2001	BCS00011435	145.00	150.00	Use water only. White (N9) calcite 2mm on fractures. Quartz-pyrite veins?-very fine. Alteration calcite and other.
9/22/2001	BCS00011436	150.00	155.00	Quartz-pyrite veins?-very fine. Alteration calcite and other.
9/22/2001	BCS00011437	155.00	160.00	
9/22/2001	BCS00011438	160.00	165.00	Some bronze biotite. Alteration calcite.
9/22/2001	BCS00011439	165.00	170.00	Alteration calcite.
9/22/2001	BCS00011440	170.00	175.00	Alteration calcite.
9/22/2001	BCS00011441	175.00	180.00	
9/22/2001	BCS00011442	180.00	185.00	
9/22/2001	BCS00011443	185.00	190.00	
9/22/2001	BCS00011444	190.00	195.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
9/22/2001	BCS00011445	195.00	200.00	
9/22/2001	BCS00011446	200.00	205.00	
9/23/2001	BCS00011447	205.00	210.00	Collecting +- 50% sample under cyclone. Alteration silica.
9/23/2001	BCS00011448	210.00	215.00	Alteration silica.
9/23/2001	BCS00011449	215.00	220.00	Alteration silica.
9/23/2001	BCS00011450	220.00	225.00	Contact upper gradational.
9/23/2001	BCS00011451	225.00	230.00	Alteration silica.
9/23/2001	BCS00011452	230.00	235.00	Alteration silica.
9/23/2001	BCS00011453	235.00	240.00	Alteration calcite.
9/23/2001	BCS00011454	240.00	245.00	Alteration calcite. Collecting approximately 50% sample. Sample weights and screened samples not representative of reality so were told not to perform this portion of log.
9/23/2001	BCS00011455	245.00	250.00	Adding new rubber bushings to divertor. Alteration other.
9/23/2001	BCS00011456	250.00	255.00	Alteration other.
9/23/2001	BCS00011457	255.00	260.00	Driller figured lots of clay, poor recovery. Alteration other.
9/23/2001	BCS00011458	260.00	265.00	Alteration other.
9/23/2001	BCS00011459	265.00	270.00	Alteration other.
9/23/2001	BCS00011460	270.00	275.00	Alteration other.
9/23/2001	BCS00011461	275.00	280.00	Lower contact sharp. Alteration other.
9/23/2001	BCS00011462	280.00	285.00	Upper contact sharp. Alteration other.
9/23/2001	BCS00011463	285.00	290.00	Alteration other.
9/23/2001	BCS00011464	290.00	295.00	Alteration other.
9/23/2001	BCS00011465	295.00	300.00	Alteration other.
9/23/2001	BCS00011466	300.00	305.00	Alteration other.
9/23/2001	BCS00011467	305.00	310.00	Alteration silica.
9/23/2001	BCS00011468	310.00	315.00	Alteration silica.
9/23/2001	BCS00011469	315.00	320.00	Alteration silica.
9/23/2001	BCS00011470	320.00	325.00	Chips very fine grained (more densely welded?). Alteration silica.
9/23/2001	BCS00011471	325.00	330.00	Large chips volcanics well fractured. Alteration silica.
9/23/2001	BCS00011472	330.00	335.00	Mafic laths bronze/brown biotite flakes.
9/23/2001	BCS00011473	335.00	340.00	Color change in rock - 50/50 will note new color on log. Lower contact sharp.
9/23/2001	BCS00011474	340.00	345.00	Drill cuttings becoming fine sized again. All samples wet and in bedrock, so could not be screened; weights not representative. Alteration silica and other.
9/23/2001	BCS00011475	345.00	350.00	Trip out 7 7/8" mill tooth tricone bit @ 350.12'. Alteration silica and other.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
9/24/2001	BCS00011476	350.00	355.00	Add mission LXQ hammer with 7 7/8" button bit. 350-360=100% sample collected.
9/24/2001	BCS00011477	355.00	360.00	Return to 50% sample collected. Bronze biotite. Alteration other.
9/24/2001	BCS00011478	360.00	365.00	
9/24/2001	BCS00011479	365.00	370.00	Bronze biotite.
9/24/2001	BCS00011480	370.00	375.00	
9/24/2001	BCS00011481	375.00	380.00	Alteration silica.
9/24/2001	BCS00011482	380.00	385.00	Alteration silica.
9/24/2001	BCS00011483	385.00	390.00	Alteration silica.
9/24/2001	BCS00011484	390.00	395.00	Alteration silica.
9/24/2001	BCS00011485	395.00	400.00	Alteration silica.
9/24/2001	BCS00011486	400.00	405.00	Alteration silica.
9/24/2001	BCS00011487	405.00	410.00	Quartz on fractures. Alteration silica.
9/24/2001	BCS00011488	410.00	415.00	Bronze biotite. Alteration silica.
9/24/2001	BCS00011489	415.00	420.00	Alteration silica.
9/24/2001	BCS00011490	420.00	425.00	Alteration silica.
9/24/2001	BCS00011491	425.00	430.00	Reddish oxidized zone-weathered, soft altered pumice, red return water. Alteration silica. Upper contact sharp.
9/24/2001	BCS00011492	430.00	435.00	
9/24/2001	BCS00011493	435.00	440.00	
9/24/2001	BCS00011494	440.00	445.00	Drusy quartz on fractures, soft weathered pumice, red oxidized, return water very orange-red, minor contamination from above mod-densely welded material. All samples wet and on bedrock so could not screen; weights not respresentative. Alteration silica.
9/24/2001	BCS00011495	445.00	450.00	Alteration silica.
9/24/2001	BCS00011496	450.00	455.00	Alteration silica.
9/24/2001	BCS00011497	455.00	460.00	Alteration silica.
9/24/2001	BCS00011498	460.00	465.00	Alteration silica.
9/24/2001	BCS00011499	465.00	470.00	Alteration silica.
9/24/2001	BCS00011500	470.00	475.00	Alteration silica.
9/24/2001	BCS00011501	475.00	480.00	Alteration silica.
9/24/2001	BCS00011502	480.00	485.00	Alteration silica.
10/2/2001	BCS00011503	485.00	490.00	Lose circulation, no sample (485-490), add 1 quart EZ mud + 175 gals water. Alteration silica.
10/2/2001	BCS00011504	490.00	495.00	No return/no sample.
10/2/2001	BCS00011505	495.00	500.00	No sample.
10/2/2001	BCS00011506	500.00	505.00	No sample (small amount available 7-25-01 am from settling in bucket). Alteration silica.

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10/2/2001	BCS00011507	505.00	515.00	Start taking weights for samples even though they were wet, still couldn't screen as we were in bedrock. Alteration silica.
10/2/2001	BCS00011508	510.00	515.00	Sample #11508 was added to 11507 for a combined depth interval of 505-515. This was done at the SMF per Bob Wilcoxon. Lower contact sharp. Alteration silica.
10/2/2001	BCS00011509	515.00	520.00	Alteration silica. Upper contact sharp.
10/4/2001	BCS00011510	520.00	525.00	Collecting sample dry with 2 buckets hanging under cyclone - sample like flour. Alteration silica.
10/4/2001	BCS00011511	525.00	530.00	Alteration silica.
10/5/2001	BCS00011512	530.00	535.00	Alteration silica.
10/5/2001	BCS00011513	535.00	540.00	Alteration silica.
10/5/2001	BCS00011514	540.00	545.00	Sample like flour - dust very high as sample volume lost to air. Alteration silica. Weight only, wet sampling in bedrock.
10/5/2001	BCS00011515	545.00	550.00	Density measurements not valid from 545 - TD due to sample loss to air and residual is fines < 1mm diameter. Alteration silica.
10/5/2001	BCS00011516	550.00	555.00	Alteration silica.
10/5/2001	BCS00011517	555.00	560.00	Alteration silica.
10/5/2001	BCS00011518	560.00	565.00	Alteration silica.
10/5/2001	BCS00011519	565.00	570.00	Alteration silica.
10/5/2001	BCS00011520	570.00	575.00	Alteration silica.
10/5/2001	BCS00011521	575.00	580.00	Alteration silica.
10/5/2001	BCS00011522	580.00	585.00	Alteration silica.
10/5/2001	BCS00011523	585.00	590.00	Alteration silica.
10/5/2001	BCS00011524	590.00	595.00	Alteration silica.
10/5/2001	BCS00011525	595.00	600.00	Alteration silica.
10/5/2001	BCS00011526	600.00	605.00	Alteration silica.
10/6/2001	BCS00011527	605.00	610.00	Alteration silica.
10/6/2001	BCS00011528	610.00	615.00	Alteration silica.
10/6/2001	BCS00011529	615.00	620.00	
10/6/2001	BCS00011530	620.00	625.00	Relict sulfides noted as mafics.
10/6/2001	BCS00011531	625.00	630.00	
10/6/2001	BCS00011532	630.00	635.00	
10/6/2001	BCS00011533	635.00	640.00	Rock got softer and drilling faster.
10/6/2001	BCS00011534	640.00	645.00	Rock becoming more flour texture and much less grit. Sharp angular shards of clear glass. Wet sampling, weight only, bedrock. Density measure not valid due to sample loss to air and collected sample +- 1 mm sample grain size (from 545-T.D.)
10/6/2001	BCS00011535	645.00	650.00	Alteration silica.
10/6/2001	BCS00011536	650.00	655.00	
10/6/2001	BCS00011537	655.00	660.00	

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10/6/2001	BCS00011538	660.00	665.00	
10/6/2001	BCS00011539	665.00	670.00	Sample has more grit than previous samples.
10/6/2001	BCS00011540	670.00	675.00	Bright orange color in cuttings/dust when emersed in water, similar color when we entered this formation around 480-485'.
10/6/2001	BCS00011541	675.00	680.00	
10/6/2001	BCS00011542	680.00	685.00	
10/6/2001	BCS00011543	685.00	690.00	
10/7/2001	BCS00011544	690.00	695.00	Sand size grains acquiring a bright orange coating.
10/7/2001	BCS00011545	695.00	700.00	
10/7/2001	BCS00011546	700.00	705.00	
10/7/2001	BCS00011547	705.00	710.00	HCl gives white vapor as drop hits sample and liquid quickly dissappears.
10/7/2001	BCS00011548	710.00	715.00	Driller reported rock got harder at 711'.
10/7/2001	BCS00011549	715.00	720.00	Driller reported easier drilling at 715'.
10/7/2001	BCS00011550	720.00	725.00	
10/7/2001	BCS00011551	725.00	730.00	Lower contact sharp.
10/7/2001	BCS00011552	730.00	735.00	Lost circulation, had to pull rod 37, quill rod, rod 36 then got return air. Pumped 175 gallons of material down hole to plug lost circulation 3/4 bag magma fiber and 1/2 cup EZ mud. Mafics appear metallic (sulfides?). Sharp angular shards of clear glass. Wet sampling, weight only in bedrock. Upper contact sharp. Lower contact sharp.
10/7/2001	BCS00011553	735.00	740.00	
10/7/2001	BCS00011554	740.00	745.00	Metallic mafic minerals (sulfides?). Wet samples, weight only is bedrock. Sample density not valid from 545-T.D. due to air loss and also lost circulation zones in hole.
10/7/2001	BCS00011555	745.00	750.00	
10/7/2001	BCS00011556	750.00	755.00	
10/7/2001	BCS00011557	755.00	760.00	
10/7/2001	BCS00011558	760.00	765.00	Driller could detect change at 763'.
10/7/2001	BCS00011559	765.00	770.00	
10/8/2001	BCS00011560	770.00	775.00	Rounded to subrounded whiteish quartz grains.
10/8/2001	BCS00011561	775.00	780.00	
10/8/2001	BCS00011562	780.00	785.00	
10/8/2001	BCS00011563	785.00	790.00	
10/8/2001	BCS00011564	790.00	795.00	
10/8/2001	BCS00011565	795.00	800.00	
10/8/2001	BCS00011566	800.00	805.00	
10/8/2001	BCS00011567	805.00	810.00	
10/8/2001	BCS00011568	810.00	815.00	Hit water at 811'. Red mud washing out of washers on divertor.

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10/8/2001	BCS00011569	815.00	820.00	
10/9/2001	BCS00011570	820.00	825.00	
10/9/2001	BCS00011571	825.00	830.00	The field notebook and the Transfer of Custody record shows that the interval (825-830') was sampled and transmitted to the SMF - BW 12/20/01. Confirmed with SMF 12/20/01 by B. Wilcoxon.
10/9/2001	BCS00011572	830.00	835.00	Abundant foam returning from cyclone - mixture of 1-gal foam to 188 gal H2O to attempt to lift cuttings (poor to no recovery). Alteration silica.
10/9/2001	BCS00011573	835.00	840.00	Alteration silica.
10/9/2001	BCS00011574	840.00	845.00	Sample density measurements not valid due to lost circulation in hole - drilling wet and with foam but negligable sample return. Alteration silica.
10/9/2001	BCS00011575	845.00	850.00	Alteration silica.
10/9/2001	BCS00011576	850.00	855.00	
10/9/2001	BCS00011577	855.00	860.00	First decent sample for about 50 ft. More fines and clay coming up with sample along with smaller chips.
10/9/2001	BCS00011578	860.00	865.00	
10/9/2001	BCS00011579	865.00	870.00	Hematite veinlets in chips (bright red). Biotite books as mafic minerals. Alteration silica and other.
10/9/2001	BCS00011580	870.00	875.00	
10/9/2001	BCS00011581	875.00	880.00	Sample has +/- 15% clay by feel. Alteration silica and other.
10/9/2001	BCS00011582	880.00	885.00	Alteration silica and other.
10/10/2001	BCS00011583	885.00	890.00	Alteration silica. Chips show small lithophyse and pumice voids, minor vapor phase rims in cavities. Hole logging did note feldspar % so carried to end / all feldspar appears to be plagioclase as no k-feldspar visible in limited chips.