Alluvium Drill Cuttings Logging Form Comments - Nye County Nuclear Waste Repository Project Office

Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
3/28/2006	32P-0-2.5-D	0.00	2.50	Using collection tray to capture sample at near surface until reverse circulation can be established.
3/28/2006	32P-2.5-5-D	2.50	5.00	Samples from 0 to 2.5 ft are moist from compressor condensation.
3/28/2006	32P-5-7.5-D	5.00	7.50	Sample split from 0-260 ft is 100%. Loss of fines blowing in wind from (0 to 17.5 ft).
3/28/2006	32P-7.5-10-D	7.50	10.00	From 0-10 ft maximum gravel size is 1 inch.
3/28/2006	32P-10-12.5-D	10.00	12.50	Reverse circulation is first established. Loss of fines at cyclone.
3/28/2006	32P-12.5-15-D	12.50	15.00	
3/28/2006	32P-15-17.5-D	15.00	17.50	Hole is unstable and caving from 15 ft-260 ft.
3/28/2006	32P-17.5-20-D	17.50	20.00	Driller injects a little water - so (17.5 ft- 20 ft) is moist.
3/28/2006	32P-20-22.5-D	20.00	22.50	Small sample - bit is plugging. Only getting annular return.
3/28/2006	32P-22.5-25-D	22.50	25.00	Small sample - bit is plugging. Only getting annular return.
3/28/2006	32P-25-27.5-D	25.00	27.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
3/28/2006	32P-27.5-30-D	27.50	30.00	
3/28/2006	32P-30-32.5-D	30.00	32.50	From 10 ft -32.5 ft maximum gravel size is 3/4 inch.
3/28/2006	32P-32.5-35-D	32.50	35.00	
3/28/2006	32P-35-37.5-D	35.00	37.50	Hole is caving in on top of bit.
3/28/2006	32P-37.5-40-D	37.50	40.00	
3/28/2006	32P-40-42.5-D	40.00	42.50	
3/28/2006	32P-42.5-45-D	42.50	45.00	
3/28/2006	32P-45-47.5-D	45.00	47.50	
3/28/2006	32P-47.5-50-D	47.50	50.00	From 32.5 ft-50 ft maximum gravel size is 1 inch.
3/28/2006	32P-50-52.5-D	50.00	52.50	
3/28/2006	32P-52.5-55-D	52.50	55.00	Hole is unstable and caving in on bit. Repeated rod lifts to clear bit.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
3/28/2006	32P-55-57.5-D	55.00	57.50	
3/29/2006	32P-57.5-60-D	57.50	60.00	Sample is wet from casing cement operation. Much reduced fines also, sticking to wet pipe.
3/29/2006	32P-60-62.5-D	60.00	62.50	Sample is moist from casing cement operation.
3/29/2006	32P-62.5-65-D	62.50	65.00	Hole is hogging out below casing badly. Big loss of fines at cyclone.
3/29/2006	32P-65-67.5-D	65.00	67.50	
3/29/2006	32P-67.5-70-D	67.50	70.00	
3/29/2006	32P-70-72.5-D	70.00	72.50	
3/29/2006	32P-72.5-75-D	72.50	75.00	
3/29/2006	32P-75-77.5-D	75.00	77.50	Cleanout is producing a lot of material - indicative of hole hogging while drilling down.
3/29/2006	32P-77.5-80-D	77.50	80.00	
3/29/2006	32P-80-82.5-D	80.00	82.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
3/29/2006	32P-82.5-85-D	82.50	85.00	
3/29/2006	32P-85-87.5-D	85.00	87.50	
3/29/2006	32P-87.5-90-D	87.50	90.00	
3/29/2006	32P-90-92.5-D	90.00	92.50	Foam at 92.5 ft from hole conditioning. Sample is wet from injection.
3/29/2006	32P-92.5-95-D	92.50	95.00	
3/29/2006	32P-95-97.5-D	95.00	97.50	
3/30/2006	32P-97.5-100-D	97.50	100.00	Clean out borehole - blowing sand out backside - sample is reasonably representative.
4/4/2006	32P-100-102.5-D	100.00	102.50	
4/4/2006	32P-102.5-105-D	102.50	105.00	
4/4/2006	32P-105-107.5-D	105.00	107.50	
4/4/2006	32P-107.5-110-D	107.50	110.00	Sample slightly damp from hole conditioning.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
4/4/2006	32P-110-112.5-D	110.00	112.50	
4/4/2006	32P-112.5-115-D	112.50	115.00	
4/4/2006	32P-115-117.5-D	115.00	117.50	
4/4/2006	32P-117.5-120-D	117.50	120.00	
4/4/2006	32P-120-122.5-D	120.00	122.50	
4/4/2006	32P-122.5-125-D	122.50	125.00	
4/4/2006	32P-125-127.5-D	125.00	127.50	Wet and foamy sample: unable to determine some logging parameters.
4/4/2006	32P-127.5-130-D	127.50	130.00	
4/4/2006	32P-130-132.5-D	130.00	132.50	
4/4/2006	32P-132.5-135-D	132.50	135.00	
4/4/2006	32P-135-137.5-D	135.00	137.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
4/4/2006	32P-137.5-140-D	137.50	140.00	
4/4/2006	32P-140-142.5-D	140.00	142.50	
4/4/2006	32P-142.5-145-D	142.50	145.00	
4/4/2006	32P-145-147.5-D	145.00	147.50	
4/4/2006	32P-147.5-150-D	147.50	150.00	
4/4/2006	32P-150-152.5-D	150.00	152.50	
4/4/2006	32P-152.5-155-D	152.50	155.00	Effervescent: possible paleo-surface.
4/4/2006	32P-155-157.5-D	155.00	157.50	Effervescent: some gravels have thin sandy reactive coating.
4/4/2006	32P-157.5-160-D	157.50	160.00	Angularity may be gravel broken by the bit.
4/4/2006	32P-160-162.5-D	160.00	162.50	
4/4/2006	32P-162.5-165-D	162.50	165.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
4/4/2006	32P-165-167.5-D	165.00	167.50	
4/4/2006	329-167.5-170-D	167.50	170.00	
4/4/2006	32P-170-172.5-D	170.00	172.50	
4/4/2006	32P-172.5-175-D	172.50	175.00	
4/4/2006	32P-175-177.5-D	175.00	177.50	
4/4/2006	32P-177.5-180-D	177.50	180.00	Some gravel clasts have a thin, earthy, non-reactive coating.
4/5/2006	32P-180-182.5-D	180.00	182.50	
4/5/2006	32P-182.5-185-D	182.50	185.00	
4/5/2006	32P-185-187.5-D	185.00	187.50	Thin, earthy non-reactive coating on some of the gravel clasts.
4/5/2006	32P-187.5-190-D	187.50	190.00	
4/5/2006	32P-190-192.5-D	190.00	192.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
4/5/2006	32P-192.5-195-D	192.50	195.00	
4/5/2006	32P-195-197.5-D	195.00	197.50	
4/5/2006	32P-197.5-200-D	197.50	200.00	
4/5/2006	32P-200-202.5-D	200.00	202.50	Gravel clasts are subrounded.
4/5/2006	32P-202.5-205-D	202.50	205.00	
4/5/2006	32P-205-207.5-D	205.00	207.50	
4/5/2006	32P-207.5-210-D	207.50	210.00	
4/5/2006	32P-210-212.5-D	210.00	212.50	
4/5/2006	32P-212.5-215-D	212.50	215.00	
4/5/2006	32P-215-217.5-D	215.00	217.50	
4/5/2006	32P-217.5-220-D	217.50	220.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
4/5/2006	32P-220-222.5-D	220.00	222.50	
4/5/2006	32P-222.5-225-D	222.50	225.00	
4/5/2006	32P-225-227.5-D	225.00	227.50	
4/5/2006	32P-227.5-230-D	227.50	230.00	
4/5/2006	32P-230-232.5-D	230.00	232.50	Sample is very slightly moist. Gravel is subrounded.
4/5/2006	32P-232.5-235-D	232.50	235.00	Sample is very slightly moist. Gravel is subrounded.
4/5/2006	32P-235-237.5-D	235.00	237.50	Sample is very slightly moist. Gravel is subrounded.
4/5/2006	32P-237.5-240-D	237.50	240.00	Sample is very slightly moist. Gravel is subrounded.
4/5/2006	32P-240-242.5-D	240.00	242.50	Sample is moist, we are near or at the water table.
4/5/2006	32P-242.5-245-D	242.50	245.00	
4/5/2006	32P-245-247.5-D	245.00	247.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
4/5/2006	32P-247.5-250-D	247.50	250.00	
4/5/2006	32P-250-252-.5D	250.00	252.50	
4/5/2006	32P-252.5-255-D	252.50	255.00	
4/5/2006	32P-255-257.5-D	255.00	257.50	At 260 ft, begin injecting 5-6 gpm just to cool the head. Inject 6 gpm from 260 ft-400 ft.
4/5/2006	32P-257.5-260-D	257.50	260.00	260 ft sound hole: 259 ft bgs water is rising. Run anaconda web splitter wide open, both sides.
4/5/2006	32P-260-265-D	260.00	265.00	260 ft-265 ft: first "wet sample" - go to 5 ft sample interval until we encounter basalt; 260-400 ft: Cementation data not logged in error.
4/5/2006	32P-265-270-D	265.00	270.00	260 ft-285 ft: estimate 5-10% "fines" in samples (estimated from unscreened sample.
4/5/2006	32P-270-275-D	270.00	275.00	
4/5/2006	32P-275-280-D	275.00	280.00	
4/5/2006	32P-280-285-D	280.00	285.00	
4/5/2006	32P-285-290-D	285.00	290.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
4/5/2006	32P-290-295-D	290.00	295.00	2.5Y 4/1 color based on majority of grey andesite.
4/5/2006	32P-295-300-D	295.00	300.00	300 ft-310 ft: no "pies" on sample side - 8/16 split.
4/5/2006	32P-300-305-D	300.00	305.00	Note 1 rounded pebble of grey intrusive.
4/5/2006	32P-305-310-D	305.00	310.00	2 (5-gallon) buckets recovered this interval.
4/5/2006	32P-310-315-D	310.00	315.00	310 ft - put 4 "pies" in, so now we have 4/16 split.
4/5/2006	32P-315-320-D	315.00	320.00	
4/5/2006	32P-320-325-D	320.00	325.00	320 ft - add 1 more pie, so we're now taking a 3/16 split.
4/5/2006	32P-325-330-D	325.00	330.00	Sample is at least 40% sand.
4/5/2006	32P-330-335-D	330.00	335.00	
4/5/2006	32P-335-340-D	335.00	340.00	Sample is at least 50% sand. Driller observed clay horizon at approximately 339 ft.
4/5/2006	32P-340-345-D	340.00	345.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
4/5/2006	32P-345-350-D	345.00	350.00	
4/5/2006	32P-350-355-D	350.00	355.00	
4/5/2006	32P-355-360-D	355.00	360.00	
4/5/2006	32P-360-365-D	360.00	365.00	
4/5/2006	32P-365-370-D	365.00	370.00	
4/5/2006	32P-370-375-D	370.00	375.00	
4/5/2006	32P-375-380-D	375.00	380.00	
4/5/2006	32P-380-385-D	380.00	385.00	Angularity may be due to milling by the bit.
4/5/2006	32P-385-390-D	385.00	390.00	
4/5/2006	32P-390-395-D	390.00	395.00	
4/5/2006	32P-395-400-D	395.00	400.00	396 ft: contact: "Paleosol" at top of basalt, 5% or less gravel component. 400 ft-500 ft logged on NALF, starting with page 8.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
4/7/2006	32P-500-505-D	500.00	505.00	Alluvium (?) - cemented by pale green sandy matrix. Multi-lithic, looks like a conglomerate. Particle size distribution is estimated (480 ft-1000 ft) where practical.
4/7/2006	32P-505-510-D	505.00	510.00	500 ft-550 ft - looks like conglomeratic green sandstone, held together in pale green matrix.
4/7/2006	32P-510-515-D	510.00	515.00	513 ft-514 ft: green sandstone (looks epiclastic).
4/7/2006	32P-515-520-D	515.00	520.00	5mm rounded limestone clast with thin (1mm) rind/rim. 1% limestone clasts.
4/8/2006	32P-520-525-D	520.00	525.00	523 ft - clay. Note quartzite pebble with "strained quartz." 1% quartzite pebbles.
4/8/2006	32P-525-530-D	525.00	530.00	525 ft-526 ft - dark brown 5YR 3/2 nonreactive mud - or claystone. 1% rounded limestone clasts.
4/8/2006	32P-530-535-D	530.00	535.00	Valley fill (conglomerate): multi-lithic, variably-rounded clasts of quartzite, tuff, chert and rare limestone.
4/8/2006	32P-535-540-D	535.00	540.00	
4/8/2006	32P-540-545-D	540.00	545.00	
4/8/2006	32P-545-550-D	545.00	550.00	Clayballs to 2cm.
4/8/2006	32P-550-555-D	550.00	555.00	At 550 ft, no more matrix/cement is observed, so could be alluvium from here on. 550 ft - 954 ft: valley fill: heterolithic, recovered fragments are mostly angular to subangular, but 5% of sample is multilithic subrounded pebbles from 1 to 4cm.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
4/8/2006	32P-555-560-D	555.00	560.00	
4/8/2006	32P-560-565-D	560.00	565.00	
4/8/2006	32P-565-570-D	565.00	570.00	
4/8/2006	32P-570-575-D	570.00	575.00	Trace, clay. Lt. Beige (5YR 7/3), probably formational.
4/8/2006	32P-575-580-D	575.00	580.00	
4/8/2006	32P-580-585-D	580.00	585.00	
4/8/2006	32P-585-590-D	585.00	590.00	
4/8/2006	32P-590-595-D	590.00	595.00	
4/8/2006	32P-595-600-D	595.00	600.00	Note angular clast of non-reactive layered clay/mud-stone. 1% layered mudstone.
4/7/2006	32P-600-605-D	600.00	605.00	Alluvial valley fill: 600 ft-750 ft heterolithic subrounded pebbles to 3cm, all of volcanic origin, make 5 to 15% of each sample. The rest is fine-to medium-grained heterolithic sand (or ground up fragments of the coarse fraction). The "sand" is subangular to poorly-rounded, and all volcanic.
4/7/2006	32P-605-610-D	605.00	610.00	

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4/7/2006	32P-610-615-D	610.00	615.00	
4/7/2006	32P-615-620-D	615.00	620.00	
4/8/2006	32P-620-625-D	620.00	625.00	
4/8/2006	32P-625-630-D	625.00	630.00	
4/8/2006	32P-630-635-D	630.00	635.00	
4/8/2006	32P-635-640-D	635.00	640.00	
4/8/2006	32P-640-645-D	640.00	645.00	Less than 5% of the sample is subrounded - rest is angular to subangluar (broken at the bit?).
4/8/2006	32P-645-650-D	645.00	650.00	
4/8/2006	32P-650-655-D	650.00	655.00	Valley fill: mostly sand with 5-15% subrounded clasts of volcanogenic gravel, non-reactive, no evidence of cementation.
4/8/2006	32P-655-660-D	655.00	660.00	
4/8/2006	32P-660-665-D	660.00	665.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
4/8/2006	32P-665-670-D	665.00	670.00	
4/8/2006	32P-670-675-D	670.00	675.00	First sample with practical estimated particle size distribution.
4/8/2006	32P-675-680-D	675.00	680.00	
4/8/2006	32P-680-685-D	680.00	685.00	
4/8/2006	32P-685-690-D	685.00	690.00	
4/8/2006	32P-690-695-D	690.00	695.00	Clay: beige/brown (5YR 5/4), gritty, reactive.
4/8/2006	32P-695-700-D	695.00	700.00	Return water is almost clear.
4/8/2006	32P-700-705-D	700.00	705.00	Return water is clear. White (rhyolite) pebble with 3mm rind of reactive sand.
4/8/2006	32P-705-710-D	705.00	710.00	
4/8/2006	32P-710-715-D	710.00	715.00	Sand component is moderately-rounded quartz arenite. Fluvial system?
4/8/2006	32P-715-720-D	715.00	720.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
4/8/2006	32P-720-725-D	720.00	725.00	Note coated pebble.
4/8/2006	32P-725-730-D	725.00	730.00	
4/8/2006	32P-730-735-D	730.00	735.00	730.1 ft-732.5 ft: catch everything, 100% of sample, in 12 orange buckets, for lab analysis. Trace of light brown reactive clay.
4/8/2006	32P-735-740-D	735.00	740.00	Trace clay.
4/8/2006	32P-740-745-D	740.00	745.00	Plug bit, regain circulation - sample is about 20% light brown (7.5YR 5/6) reactive clay.
4/8/2006	32P-745-750-D	745.00	750.00	
4/8/2006	32P-750-755-D	750.00	755.00	Return water is whitish-note reactive clasts of (fresh water?) limestone - so, 752.5 ft-754 ft is white limestone, then into light brown (7.5YR 5/6) clay from 754-754.5 ft. Return is white at cleanout. 90% white limestone.
4/8/2006	32P-755-760-D	755.00	760.00	
4/8/2006	32P-760-765-D	760.00	765.00	755 ft-784 ft clay - has about 20% quartz sand component.
4/8/2006	32P-765-770-D	765.00	770.00	Plug up in 7.5YR 5/6 reactive clay. Advance with 30gpm injection water to 800 ft.
4/8/2006	32P-770-775-D	770.00	775.00	Very clayey - 70% clay, rest is very fine (mostly quartz) sand.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
4/8/2006	32P-775-780-D	775.00	780.00	Same, slight increase in fine sand.
4/8/2006	32P-780-785-D	780.00	785.00	784 ft break out of lacustrine clay into valley fill.
4/8/2006	32P-785-790-D	785.00	790.00	90% 7.5YR 5/3 clay/ 10% volcanic clasts.
4/8/2006	32P-790-795-D	790.00	795.00	90% 7.5YR 5/3 clay/ 10% volcanic clasts.
4/8/2006	32P-795-800-D	795.00	800.00	
4/8/2006	32P-800-805-D	800.00	805.00	Clay: with 30% to 40% fine sand.
4/8/2006	32P-805-810-D	805.00	810.00	
4/8/2006	32P-810-815-D	810.00	815.00	Clay - almost pure, 5% or less very fine sand component, rest is volcanic pebbles to 1cm.
4/8/2006	32P-815-820-D	815.00	820.00	
4/8/2006	32P-820-825-D	820.00	825.00	
4/8/2006	32P-825-830-D	825.00	830.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
4/8/2006	32P-830-835-D	830.00	835.00	Sand component has moderate to strong reaction to 10% HCl.
4/8/2006	32P-835-840-D	835.00	840.00	Sand component has moderate to strong reaction to 10% HCl.
4/8/2006	32P-840-845-D	840.00	845.00	Sample is well-sorted/poorly graded: 85% sand, rest is 5% clay balls, 10% volcanic gravel.
4/8/2006	32P-845-850-D	845.00	850.00	Noted in a cemented piece of matrix are: thin (3-4mm) weakly reactive, poorly cemented, well-sorted sand lenses in coarse sand.
4/8/2006	32P-850-855-D	850.00	855.00	There are fines (silt & clay) in the samples, but they're washed away.
4/8/2006	32P-855-860-D	855.00	860.00	Sample bucket flowing over with sand - probably from 840 ft-855 ft interval area.
4/9/2006	32P-860-865-D	860.00	865.00	H2O level 245.32 ft bgs. Normal recovery is 2 to 2.5 buckets. Sample is 7 to 8 gallons - estimate 300% contamination from uphole sand unit.
4/9/2006	32P-865-870-D	865.00	870.00	Much (100%+/-) contamination by uphole reactive sand.
4/9/2006	32P-870-875-D	870.00	875.00	We are drilling a sandy unit - thin clay horizon at 874 ft or so.
4/9/2006	32P-875-880-D	875.00	880.00	Sand is weakly reactive.
4/9/2006	32P-880-885-D	880.00	885.00	75% is weakly reactive sand which passes the 12 mesh sample sieve.

Alluvium Drill Cuttings Logging Form Comments - Nye County Nuclear Waste Repository Project Office

Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
4/9/2006	32P-885-890-D	885.00	890.00	Plugged off by non-reactive 10YR 4/4 clay: roundtrip, 32 ft of fill (sand) on re-entry.
4/9/2006	32P-890-895-D	890.00	895.00	
4/9/2006	32P-895-900-D	895.00	900.00	
4/9/2006	32P-900-905-D	900.00	905.00	
4/9/2006	32P-905-910-D	905.00	910.00	
4/9/2006	32P-910-915-D	910.00	915.00	
4/9/2006	32P-915-920-D	915.00	920.00	
4/10/2006	32P-920-925-D	920.00	925.00	Sand, perhaps bimodal: 50% is minus 12 mesh, 50% retained.
4/10/2006	32P-925-930-D	925.00	930.00	Sand, perhaps bimodal: 50% is minus 12 mesh, 50% retained.
4/10/2006	32P-930-935-D	930.00	935.00	Sand, perhaps bimodal: 50% is minus 12 mesh, 50% retained. Clayey
4/10/2006	32P-935-940-D	935.00	940.00	Sand, perhaps bimodal: 50% is minus 12 mesh, 50% retained. 40gpm - bit is partially plugged. Clayey. CONTACT at 940 ft with siltstone. Logged 940-1000 ft on non-alluvium logging form.