



WELL ID: Rh22-12
 PERMIT:

Local ID: DGSDH-7

Selbyville Watertreat Page 1 of 9
 17 (Roxana Rd to Polly Branch to
 Water Dilant Rd (N of Selbyville)
 (Rd is labeled Town Dump Rd on map)

Dates Drilled	08/06/07-08/08/07	Described by	JLT, PPM, AB	Total Depth	840 ft
Drilling Method	Hydoulc Rotary	Sampling Method	Cuttings	Surface Elevation	
Drilled By	Uni-Tech	Bit/Hole Size	6' 3/4"	Borehole Completion	Fill and abandon

Depth (ft)	GEOPHYSICAL LOGS		LITHOLOGIC LOG	MATERIAL DESCRIPTION	SAMPLE NO.	WELL DETAILS AND FIELD NOTES	Depth (ft)
0				SAND, silty & clayey sand is fine to vf with small % of coarse chunks of brown, tan & gray sandy, silty clay abundant, sandy clay, tannish color, medium brownish gray	103315	* Butch adds quick troll * seems to be some kind of hard pan on first 10'- collar hun on it at first when tried to add	0
10				SAND, fine to coarse with small % of vc grains & few granules, silty, clayey with chunks of brown, tan & gray sandy silty clay, gray (*munsell) clay turns dark gray (at least drill mud does)- thinks he is thru clay, sandier near bottom (has to run "pull down")	103316	* cuttings are mostly sand throughout, w/ chunks of dark gray, light/whitish gray & rare brown sandy mud, esp from 10-20'	10
20				SAND, muddy med to vc quartz grains with some granules chunks of gray silty clay & black to purple chert pebbles, sand w/ light gray sandy mud chunks; lower spl has more granules & small gravel incl. black chert, gray (*munsell)	103317	add collar, switch to tricone roller bit	20
30				A.A., with increased number of granules & small pebbles, sand w/ light gray sandy mud chunks gray (*munsell)	103318	losing water, so mix & add more mud	30
40				SAND, f to vc (avg is coarse) pebbles up to 2cm of chert & quartzite, some weathered feldspar grains (white) & some whitish gray muddy sand, few % heavy minerals, sand was sub-rounded to sub-angular, drilled same sand, light gray, fairly loose overall but a fair amount of fine sand in susp, incl blackish chert granules & pebbles, white grains abd (some wx feldspar) gray	103319		40
50				SAND, med with some coarse to granule (Quartz), few heavy minerals, some chert & quartz gravel & few chunks of sandy mud, 60-70': light gray sand finer than above; 70-80': A.A., maybe slightly finer; both are median med gr. sand w/ some fg-cg, a few granules & pebbles, sand sbrnd-sbang; pebbles qtzites, chert (most), lots of white grains (incl. punky feldspar), 2-3% ohm? gray	103320		50
60				A.A., no granules or mud chunks, still sand- losing granules, basically, sand A.A. but less crs material gray	103321	ran quickly	60
70				SAND, fine to granule, (Quartz) muddy with 3-4% heavy minerals, a mix of fine to granule size but w/o pebbles- composition & color A.A. gray	103322		70
80							80
90							90
100							100



WELL ID: Rh22-12
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Local ID: DGSDH-7

Selbyville Watertreat Page 2 of 9
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Drilling Method	Hydraulic Rotary	Sampling Method	Cuttings	Surface Elevation	
Drilled By	Uni-Tech	Bit/Hole Size	6' 3/4"	Borehole Completion	Fill and abandon

Depth (ft)	GEOPHYSICAL LOGS		LITHOLOGIC LOG	MATERIAL DESCRIPTION	SAMPLE NO.	WELL DETAILS AND FIELD NOTES	Depth (ft)
100				SAND, med to vc (median is coarse in upper & med in lower) with granules & few gravel & silty clay chunks (gray & tan), <i>more gravelly granuley sand- upper part w/ more & crs sand, sand finer in lower part but w/ more gravel</i> gray	103323		100
110				SAND, fine to coarse (ave med) quartz & muddy with 2-3% heavy minerals & chunks of med brown clay, <i>some brown clay chips, light gray coarse sand w/ granules & a little gravel A.A.! Pile 'o' sand, gray</i>	103324		110
120				A.A., with some granules & few gravels & NO clay, <i>light gray coarse sand w/ granules & a little gravel A.A.! Pile 'o' sand, gray</i>	103325	* drillers mix in another 2 bags of QuickGel & circulate *Butch has been stopping to circ. bottoms up mid-rod	120
130				SAND, med to gravel (median ~ granules), quartz sand & chert, quartz & quartzite gravels, few mud chunks, <i>sandy gravel/gravelly sand, w/ abd chert & qtz/qtzite gravel up to 2cm & same sand/granule mix A.A. (incl. white grains/punky feldspar), gray</i>	103326	*a little chatter @ start, but drilling @ reasonable rate *~153' slows a bit, maybe clay *with thickened drilling mud, the finer sand is now staying suspended in the drilling mud. *Broke through ~2' above base rod.	130
140				MIX, above & dark olive brown silty clay, dark olive brown (*munsell) a mix of that gravel plus (mostly) chunks of brown mud (silty clay, chocolate)	103327		140
150				SAND, f to coarse (ave med) w/ few gravels & mud (sand) chunks, & 5% lignite, olive brown (*munsell) brownish med (?) sand w/ a little coarse-stuff	103328	drilling fast w/ a few slow spots- in & out repeatedly	150
160				A.A., with more mud chunks & bigger chunks of lignite, dark olive brown brownish med sand w/ abd brown mud chunks & lignite material	103329		160
170				SAND, fine to coarse (median - medium) clean quartz sand with few clay chunks, nice aquifer, gray med sand w/ a few small brown mud chunks	103330	drilled fast, like sand	170
180				A.A., with (ave - coarse) more mud chunks & few gravel, gray med-crs sand w/ common vcrs & granules; lots of white grains	103331		180
190							190
200							200



WELL ID: Rh22-12
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Local ID: DGSDH-7

Selbyville Watertreat Page 3 of 9
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Dates Drilled	08/06/07-08/08/07	Described by	JLT, PPM, AB	Total Depth	840 ft
Drilling Method	Hydoulc Rotary	Sampling Method	Cuttings	Surface Elevation	
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Depth (ft)	GEOPHYSICAL LOGS		LITHOLOGIC LOG	MATERIAL DESCRIPTION	SAMPLE NO.	WELL DETAILS AND FIELD NOTES	Depth (ft)
200				SAND, med to (quartz) granules with few chunks of silt, gray silty clay (coarsens downward to more granules), olive gray (*munsell) basically same-granule sand in upper & lower half-more granules (majority?) in 210-220. A few light gray sandy mud chunks in 200-210, rare 210-220.	103332	* Butch notes pH change, adds soda ash (Pocomoke) * stopped mid-rod to circulate - drilled fast	200
210							210
220				SAND, medium to coarse quartz with chunks of lt gray & tan clay (mud) - more mud chunks in upper than lower, olive gray 220-230 sand like 200-210, w/ cg qtz, white grains, some vcg incl black chert (no real granules or pebbles (gravel, with common lt gray & tan) & some darker gray mud chunks; 230-240 the same, perhaps fewer mud chunks; lt tan & lt gray chunks are silty clay (poss sandy, though looks like all on outside)	103333	Chattery Mud Drilling @ 227' slowed in mud ~227'	220
230							230
240				SAND, medium quartz with few silty clay chunks (lt. gray) very clean: 1-2% heavies, light brownish gray (*munsell) both halves of rod are same lith as above- nice sand	103334	* drills fast, but some chatter in lower 10 ft. * Brad & I did water refill, backdrilling	240
250							250
260				A.A. basically A.A., perhaps more cg-vcg sand	103335	*half rod, then circulate-losing lots of fluid- mudded up, then continued to drill- but last 6-7' of rod drilled slow, hard- something different	260
270				A.A., with abundant lt. gray, brown & tan silty clay (denser than above) clay chunks & some gravel, olive gray same perhaps more with a little gravel & common chunks of stiff brown mud	103336	* the last 5' took >15 mins to drill perhaps more *2nd rod, lost a little more fluid, then it stabilized	270
280				SAND, med to vc with granules with abundant dark brown stiff sandy clay, dark grayish brown (*munsell) clay, a thin sand lens, cuttings coming up are mud chips (small- some stiff, some not-hydrating on way up?) mixed in with sand (in place? caved?) that is very much like the sand above.	103337	* had to add a bag of Quick Gel (note: Quick Gel ~\$100/bag, hole plug \$20/bag) * beginning of rod still drilling slow	280
290				MUD, dark brown dense silty mud with fair amount of sand as described above mixed around it, Color - dark brown???	103338	* last 10' (290-300') drilled slow until very end and then breaking thru in last foot or so	290
300							300



WELL ID: Rh22-12
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Local ID: DGSDH-7

Selbyville Watertreat Page 4 of 9
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Dates Drilled	08/06/07-08/08/07	Described by	JLT, PPM, AB	Total Depth	840 ft
Drilling Method	Hydoulc Rotary	Sampling Method	Cuttings	Surface Elevation	
Drilled By	Uni-Tech	Bit/Hole Size	6' 3/4"	Borehole Completion	Fill and abandon

Depth (ft)	GEOPHYSICAL LOGS		LITHOLOGIC LOG	MATERIAL DESCRIPTION	SAMPLE NO.	WELL DETAILS AND FIELD NOTES	Depth (ft)
300				SAND, quartz (med = med), fine to coarse (few vc), silty with chunks of brown silty clay 2-3% heavies, light brownish gray almost same stuff throughout run- medium sand w/ some grains crs & rare vcrs- common (~25-35%) mud clasts, small, brownish silty clay, note: upper 10' is coarser, notable crs gr. fraction	103399	drillers de-sand for a bit	300
310				SAND, fine to med with some coarse & few chunks of silty clay (or silt), light brownish gray basically, same A.A.- mostly mg sand with some (10-20% vol?) clasts of mud (some are more like clayey silt than silty clay)- lower 10' seems a shade finer than upper	103340	*says drilling like sand, washing out as you go * Butch adds more quicktrol & quickmud (seems to be losing some fluid- to hole? de-sanding?) * QuickTrol = \$100 - QuickGel = \$20	330
320				SAND, fine to med with few granules & pebbles, large chunks of lignite (up to 1.5cm) abundant, light brownish gray mg, some fg & cg a few mud chunks	103341	* hit a very lignite layer * Butch notes- they 500 (520?) ft hole they drilled in Gumboro- domestic by a polished- Freck wanted to impress the guy, a buddy- but never paid "Sand" same as Seaford" - were "clay stringers" in it, so had a hard time getting turbidity out	340
330				SAND, med to coarse sand with few pebbles & 1-7 frags of lignite & few pebbles & chunks of med (tan), It brownish gray coarsens to cg, some vcg, grans & pebbles- also common lignite, incl large woody chunks; a few clay clasts	103342	* "Big stuff" (gravel, pebbles) in this zone so circulated 5 min more	350
340				SAND, med to granule (ave=vc) with pebbles & few chunks of sandy silt, light brownish gray coarse, vcrs sand w/ fine-granule size mixed in- not much in way of pebbles	103343		360
350				SAND, med to coarse sand with few granules & frags of lignite also few chunks of clayey silt, It brownish gray back into med sand w/ common (5-10%) clay chunks of brown clayey silt	103344		370
360				SAND, mediuum to coarse quartz with few small chunks clayey silt & frags of lignite, It brownish gray mg sand, somewhat crs, a few mud chunks	103345	* continue drilling quickly * Butch thinks sand & sandy clay * Butch adds more mud & circulates	380
370				SAND, fine to med with more mud chunks than above & many small lignite frags, It brownish gray mg sand, finer, more abd mud chunks	103346		390
380							400



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Local ID: DGSDH-7

Selbyville Watertreat Page 5 of 9
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Dates Drilled	08/06/07-08/08/07	Described by	JLT, PPM, AB	Total Depth	840 ft
Drilling Method	Hydraulic Rotary	Sampling Method	Cuttings	Surface Elevation	
Drilled By	Uni-Tech	Bit/Hole Size	6' 3/4"	Borehole Completion	Fill and abandon

Depth (ft)	GEOPHYSICAL LOGS	LITHOLOGIC LOG	MATERIAL DESCRIPTION	SAMPLE NO.	WELL DETAILS AND FIELD NOTES	Depth (ft)
400			SAND, fine to med with some coarse & very abundant, dark olive gray silty clay, dark olive gray (*munsell) crs sand w/ a signif number of mud chunks	103347	Butch notes drilling slower, into clay ~410' (6' into this rod)	400
410		g	CLAY, silty with some med to vc sand in matrix (not in silt chunks), 1-2% glauconite?, dark olive gray (St. Mary's?) greenish gray silty clay/clayey silt w/ a signif fraction of mg c-fg sand, a few % of dark grains, some poss glauc (mostly ohm)	103348		410
420		g	CLAY, silty with med to coarse sand in matrix & abundant glauconite grains, dark olive gray	103349	* drills slow * both rods brought up mostly greenish gray silty clay w/ a modest fraction of med sand that incl. consic. glauc;	420
430		g g	CLAY, silty with some shell, glauconite & coarse sand, dark olive gray less of the uncommon crs grains present in upper (420-430) & the first conspicuous fraction of shell frags (thin, sand size)	103350		430
440		g g	CLAY, slightly silty with abundant glauconite sand & some fine quartz sand, dark olive gray greenish olive gray, clay, a little qtz, abd glauc	103351	drills slow	440
450		g g g	CLAY, waxy consistency with abundant glauconite sand, dark olive gray greenish waxy clay; some shell frags	103352		450
460		g g	A.A., dark greenish gray (*munsell) green clay	103353	*shells @ 470'; *still drills slow 460-470' -Butch says sticky stuff green (almost waxy) clay	460
470		g g g	A.A., with increased glauconite (all sand) >50% sand & few chunks dark brown clay, dark greenish gray green clay, a few brown clay frags, & a conspicuous sand fraction (~10%?) that is >50% glauc	103354	* a little rod chatter @ bottom	470
480		g g g	A.A., with increased glauconite, dark greenish gray slightly more glauc & shell	103355	drills slow overall lith is still glauc-bearing clay bagged seperately	480
490		g g g	A.A., but with slightly less glauconite sand, dark greenish gray less, more clay	103356		490
500		g				500



WELL ID: Rh22-12
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Local ID: DGSDH-7

Selbyville Watertreat Page 6 of 9
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Drilled By	Uni-Tech	Bit/Hole Size	6' 3/4"	Borehole Completion	Fill and abandon

Depth (ft)	GEOPHYSICAL LOGS		LITHOLOGIC LOG	MATERIAL DESCRIPTION	SAMPLE NO.	WELL DETAILS AND FIELD NOTES	Depth (ft)
500			g	CLAY, dark gray & dark greenish gray only 10-15% glauconite (much less than above), dark gray (*munsell) more brown clay clasts	103357	some chatter 2' into run quickly stopped & continued slow drilling	500
510			g	CLAY, 50% dark gray clay, 50% dark greenish gray clay, >50% glauc. for sand fraction (same quartz) & abd bivalve frags, dark gray & dark greenish gray mix of brown clay, green clay & glauc shell	103358		510
520			g	A.A., with >70% glauconite; a few shell frags, dark greenish gray still mud, some glauc-rich top & bottom of run very similar, so bagged together	103359	drilling slow, still	520
530			g				530
540			g	SAND, shelly sand, med to coarse grained w/ glauc (~20%) & brown mud chunks, dark greenish gray (*munsell) mix of shelly crs sand & mud clasts (St. M) sand is f-vcrs, avg crs, mostly qtz but w/ abd (25%?) glauc; shell frags abd (>10%); some small chunks of cemented vf sand/silt; some shell dk gray	103360	a couple feet into the run, rods begin to chatter- top chop? lets up for a bit, then off & on 555' or so, fast & slow, alternating	540
550			g	A.A., with coarser fraction sand & few mud chunks & phosphate, dark greenish gray S.A.A., but w/ rare mud chunks, sand is slightly fine, mg-cg avg; a few pieces/grains of black phosphate to ~3mm; common shell frags & some small cemented chunks	103361		550
560			g	SAND, vf to fine (25-30%) glauconite with shell fragments, dark greenish gray vf-f sand, shell frags, 25-30% glauc	103362	*chatter @ top, next rod drills a lot faster- so probably more sand than shell * spent fair time circulating after rod	560
570			g	SAND, fine to coarse (ave=med) w/ 15% glauc frags, shell frags, phosphate & few sandy (10% of volume) silt chunks, dark greenish gray mg sd, some fg in it, abd (>10%) frags of whitish thin shells, 10-15% glauc sd, ~10% chunks of sandy bluish silt, & rare phosphate	103363		570
580			g	SAND, vf (ave=fine) to med quartz 10% glauconite, 2-3% small phosphate frags, some shell frags, & mud chunks (very fine mollusks), dark greenish gray f-m sand, up to 10% glauc, ~10% frags of thin shell- plus, a signif fraction (?25%) of chunks of sandy, slightly clayey silt	103364	some chatter @ start of rod & thru it, but it moves	580
590			g				590
600							600



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Local ID: DGSDH-7

Selbyville Watertreat Page 7 of 9
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Drilled By	Uni-Tech	Bit/Hole Size	6' 3/4"	Borehole Completion	Fill and abandon

Depth (ft)	GEOPHYSICAL LOGS		LITHOLOGIC LOG	MATERIAL DESCRIPTION	SAMPLE NO.	WELL DETAILS AND FIELD NOTES	Depth (ft)
600				A.A., small % coarse sand, dark greenish gray fine sand, ~5% shell, 5-10% glauc, a few frags of sandy mud	103365		600
610				A.A., with increased sandy silt (mud) clasts & increased % of shell & ~5% glauc, dark greenish gray slightly coarser sand, med-fine, ~5% shell, 5-10% glauc (less), more chunks of olivish sandy mud	103366		610
620				A.A., dark greenish gray	103367	Choppy drilling @ 630' brief hard zone ~630'- chatter off & on rest of rod, esp lower 5'	620
630				SAND, shelly quartz sand, fine to med w/ 5% glauconite, chunks of hard silt & chunks of softer sandy mud (as seen above), dark greenish gray	103368		630
640				SAND, shelly, fine-med ~10% shell (mostly med), 5% dark grains (some glauc), cemented sand, <10% mud- slightly clayey sandy silt, dark gray - grayish green shelly mg sand w/ ~10% mud chunks	103369	rods are chattering & drilling kind of slow-rate increases after ~3'- another hard zone ~12' into the run, then in & out of hard zones the lower ~3' drilled fast	640
650				A.A., less shell, more mud (sandy silt), slightly more cemented sand, sandy silt chunks - stiff & dry, dark gray - grayish green less shelly, mg sand w/ ~40% mud chunks (which are sandy, clayey silt), some very stiff, dry silt chunks	103370		650
660				CLAY, sandy & silty mud chunks of olive green/grayish shell frag- chunks, 10% loose sand f-m (ave fine), dark gray - grayish green chunks of soft very sandy, silty grayish-olive clay & some loose sand	103371	@ 670', Butch says drills like in clay	660
670				SILTY CLAY, mostly mud chunks of silty clay, very little sand, fine-vf <10%, few shell frag ~5%, matrix has fine to vf sand, 5% glauc, dark gray - grayish green mostly chunks of greenish silty clay w/ a slurry of vf-f sand w/ ~5% glauc & ~2% shell frags (thin shelled)	103372		670
680				CLAYEY SILT, ~25% sand vf-m, ~5-10% glauconite, dark gray - grayish green greenish mud chunks & fg sand, loose	103373	slow drilling entire run fairly muddy	680
690				SILT, sandy & slightly clayey 40% glauc, less losse sand vf-m, small amount of shell frags, dark gray - grayish green slightly clayey sandy silt, w/ sand being fg-mg, much of fg is glauc (~40% glauc in sand?)	103374		690
700							700



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Selbyville Watertreat Page 8 of 9
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700				SANDY CLAYEY SILT, more clay than prev. layer, <or=10% shell, mud chunks (more green & brownish) gray, sand f-m, glauc <or=10%, cemented sand- sm amt dark gray to grayish green more green than brown chunks, chunks of clayey silt, some sandy, w/ lesser f-m sand slurry	103375	slow drill - shell lens ~705'	700
710				SAND, f-m, 10% glauc, <or=10% shell, mud-sandy silty clay, mud chunks (green & brown), more brown chunks than green chunks, more loose sand than previous layer dark gray to grayish green more brown, more like silty clay & sandy silty clay, more abd loose sand, 5-10% glauc	103376		710
720				MIX SAND/MUD, sand (more than previous), f-m (ave=med), glauc=5-10%, mud chunks - sandy mud, some chunks sandy silty clay, some chunks sandy clayey silt, shell frags (15% small), 40% mud chunk, 60% sandy dark gray to grayish green mix of ~50/50, of mud chunks (sandy silty clay & clayey silt) & mg (-fg) sand w/ 1-2% fine shell & w/ 5-10% glauc	103377	lower half of run chatters but moving at a decent rate	720
730				SAND, f-c, mostly med, more shell frag, less mud, shell frags are lgr, mud-sandy silty clay, shell 30%, sand has glauc 5-10%, dark gray to grayish green ~25% shell frags, many thick & mg qtz sand (some cg) w/<5% glauc, mixed in are chunks of silty clay & sandy silty clay	103378		730
740				SAND, f-m, 5% glauc, 25-30% shell, sand-mostly med, lots of fine though, very few mud chunks, dark gray to grayish green shelly sand, 70% qtz m-f sand, 5% darks (mostly glauc?), 25% shell (some thick) w/ a few (10% vol) chunks of sandy clayey silt	103379	chatters from beginning of rod & drills a bit slow & smooth @ end	740
750				SILTY CLAY, with scattered shell frag, greenish gray back to muds- greenish/olive silty clay	103380		750
760				SILTY CLAY, with scattered shell frag, sand f-m with quartz & glauc, greenish gray silty clay w/ f-m sand cs slurry	103381	overall slow & smooth, but ran hard in bottom ~1' of rod then circ.	760
770				MIX SAND/SANDY CLAYEY SILT more sand than previous, mud- sandy clayey silt, sand-glauc f-m (mostly med), abundant shell frag, greenish gray a mix of m (-f) sand, abd shell frags, some clasts of sandy clayey silt	103382		770
780				SAND, f-m, mostly med, abundant shell frag, mud- mostly silt, few mud chunks w/ clayey silt, greenish gray like above sample	103383	a little chatter in top & @ bottom of rod, still no brown clay	780
790				SANDY CLAYEY SILT, sand f-m, glauc f-vf, very little amount of shell frag, greenish gray much less shell, much of mud frags are sandy (vf) f-vf fraction in glauc.	103384		790
800							800



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Selbyville Watertreat Page 9 of 9
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800			SANDY SILT/CLAYEY SILT, some large shell frags, glauc small amount, sand f-m, mostly fine upper, some small shell frag, greenish gray basically as above, sandy silt w/ sand slurry	103385	* in search of Calvert brown clay * Butch starts run, but then adds more QuickGel (2 bags) & QuickTrol (2 bags)	800
810			SAND, vf-m-c, ave= vf-f grained, glauc present, small shell frag present, greenish gray vf-f sand w/ common(5%?) shell frags & a few silt chunks, very little returns on both half of rods (vf sd/silt being pulverized?)	103386	* Rod runs resonably fast, slowing a little in 2nd part of rod (thumped a little in upper 10')	810
820			SANDY CLAYEY SILT, sand vf-c (mostly f w/ some coarse & med), few shell frag present, grayish color chunks of sandy (vf) silt, a few % shells, some loose vf-f sand, greenish	103387	drilling starts steady & even- slowed @ end of rod, like clay	820
830			S.A.A., grayish color	103388		830
840			SAMPLE OFF DRILL BIT-not described (840')	103389		840
850						850
860						860
870						870
880						880
890						890
900						900