

DESCRIPTIVE LOG

Well Code LN-T-2-84  
 County Lenoir  
 X-reference P-26, u-5  
 Date Drilled 6-18-84  
 Date Examined 4/  
 Examined By REG  
 Correlated To LN-P-2-55  
 Comments \_\_\_\_\_

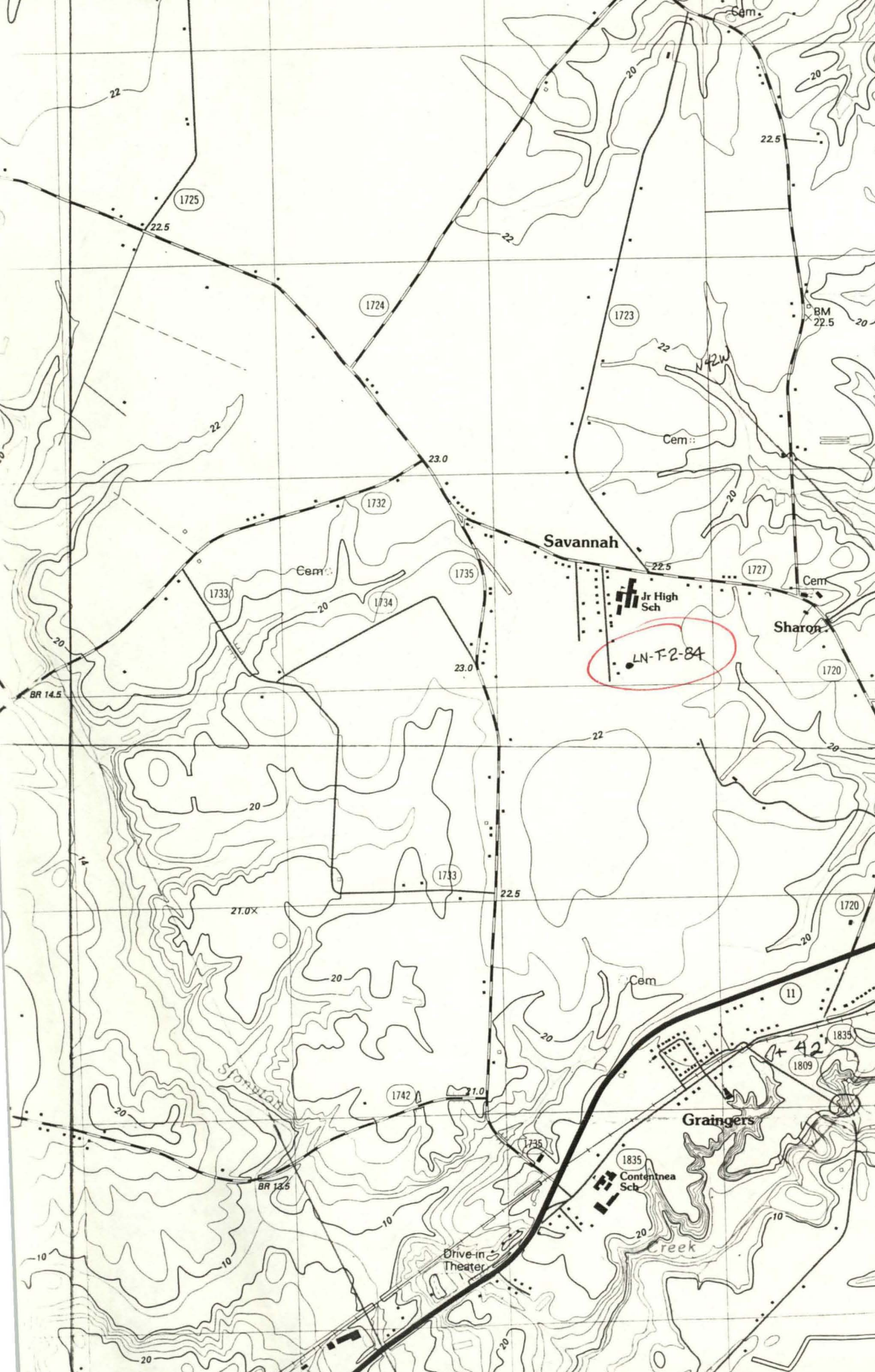
Total Depth 848 feet  
 Elevation (MSL) 70 feet  
 Latitude 352012  
 Longitude 773051

Depth	Lithology	Unit-Age
0-15'	<u>Sst</u> : fn-gr, ang, wk srt gtz, tr shl frags, Fe str	Holocene - Pleistocene undivided
15-23'	<u>Sdy Sst</u> : vfn-gr, ang, poorly srt gtz; mar glauc, tr phos, tr amethyst	Unit "A" Navarroan
23-34'	<u>Sltz Sst</u> : fn-med gr, sbang, poorly srt gtz, com glauc, tr phos, amethyst, rose gtz	
34-49'	<u>Sst</u> : med-gr, sbang, wk sorted gtz; com glauc, tr phos	
49-95'	glauc <u>Sst</u> : med-cse-gr, sbang, poorly sorted gtz, abd glauc, com phos, grv, tr shl frags, amethyst, rose gtz, dolo. Shark's tooth	
95-160'	check <u>Calc Sst</u> : med-cse-gr, sbang-sbrnd, poorly sorted gtz; com amethyst, mar grv, dolo, tr shl frags, glauc.	

Depth	Lithology	Unit-Age
160' - 172'	silty <u>Sst</u> : fn-gr, ang, poorly srt gtz; com glauc, mnr shl frags, amethyst, tr phos, pyr, lig, dolo. Shark's tooth	Unit "B" Tayloran
172' - 184'	shly silty <u>Sst</u> : fn-gr, sbang, poorly srt gtz; abd shl frags, com glauc, amethyst, tr phos, mic, lig	
184' - 200'	silty <u>Sst</u> : fn-gr, ang, poorly srt gtz; com glauc, shl frags, mnr amethyst, tr mic, dolo, ls. Inoceramus prisms, sharks tooth. Gravelly between 190-196'	
200' - 242'	sdy <u>Sst</u> : fn-gr, ang, poorly srt gtz; abd glauc, mnr shl frags, amethyst, tr phos, pyr, rose gtz.	
242' - 254'	<u>Sst</u> : fn-med-gr, ang, poorly srt gtz; com glauc, grv, mnr shl frags, tr phos, pyr	
254' - 296'	v silty <u>Sst</u> : fn-gr, ang, mod wl srt gtz; com glauc, mnr shl frags, pbls, tr phos, lig, dolo.	
296' - 304'	<u>Sst</u> : med-cse gr, sbang, poorly srt gtz; mnr glauc, tr pyr, r shl frags	
304' - 325'	v sdy <u>Sst</u> : fn-gr, sbang, poorly srt gtz; mnr glauc, tr phos, shl frags, lig, rose gtz, dolo.	Unit "C" Austinian
325' - 340'	<u>Sst</u> : med-cse-gr, sbang, poorly srt gtz; mnr glauc, tr phos, pyr, ls, r shl frags	
340' - 349'	<u>Sst</u> : fn-gr, ang, poorly srt gtz; com glauc, grv, tr phos, shl frags, pyr, ls.	

Depth	Lithology	Unit-Age
349' - 382'	<p><u>Sst</u>: med-cse gr, sbang, mod wl srt gtz; <sup>com</sup> glauc            mnr amethyst, grv, tr shl frage, pyr,            ls.</p>	
382' - 414'	<p><sup>silty</sup> <u>Sst</u>:            fn-gr, ang, poorly srt gtz; com            shl frage, tr pyr, lig, ls. Silt content increases            between 382 - 386'</p>	
414' - 435'	<p><sup>silty</sup> <u>Sst</u>: fn-gr, sbang, poorly srt gtz;            com glauc. Siltstone interval 422-427'</p>	
435' - 480'	<p><sup>silty</sup> <u>Sst</u>: fn-med gr, sbang, poorly srt gtz;            com glauc, <sup>mnr ls</sup> tr shl frage, pyr, lig, rose gtz,            Becomes finer towards 480. Sample intervals            extremely contaminated</p>	
480' - 488'	<p><sup>v. silty</sup> <u>Sst</u>: fn-<del>gr</del> gr, sbrnd, poorly            srt gtz; com glauc, tr shl frage, pyr,            lig, ls, cl frage.</p>	
488' - 500'	<p><u>Sst</u>: cse-gr, sbang, mod wl srt gtz;            mnr glauc</p>	
500' - 508'	<p><sup>sdry</sup> <u>Siltst</u>: fn-gr, sbang, poorly srt gtz;            com glauc, tr shl frage, hem, amber</p>	Unit "D"
508' - 516"	<p><sup>silty</sup> <u>Sst</u>: fn-med gr, poorly srt gtz;            com glauc, tr amber</p>	Eaglefordian
516' - 548'	<p><u>Sst</u>: med-cse gr, sbang, mod wl srt gtz;            tr phos, mic, py, lig, amethyst, rose gtz, ls</p>	
548' - 558'	<p><sup>sdry</sup> <u>Clay</u>: fn-gr, sbrnd, wl srt gtz;            mnr mic, tr glauc, phos, py, lig,</p>	
558' - 567'	<p><u>Sst</u>: med-cse, sbang, mod wl srt            gtz; tr feld</p>	

Depth	Lithology	Unit-Age
587	altly <u>Sst</u> : fn-med, sbang, poorly srt gtz; com Fe-stn, mnr glauc, rose gtz tr fspr, shl frags, pyr, amethyst	
587-598	sdy cly <u>Sltst</u> : fn-med gr, sbang, poorly srt gtz; com Fe stn, grv, mnr mic, fspr	
598-618'	silty <u>Sst</u> : fn-cse gr, sbang, poorly srt gtz; com glauc, mnr fspr, tr shl frags, pyr, amethyst, ls, Fe stn	
618-662'	N. silty <u>Sst</u> : fn-med gr, sbang, poorly srt gtz; com glauc, mnr fspr, mic, Fe stn, tr shl frags, lig, pyr, ls, garnet, hem Siltstone interval between 648-652'	
662-682'	silty <u>Sst</u> : fn-gr, sbang, poorly srt gtz; mnr glauc, Fe stn, fspr, tr shl frags	
682-707'	silty <u>Sst</u> : fn <sup>-med</sup> -gr, sbang, poorly srt gtz; mnr glauc, sid, hem, fspr, grv, tr shl frags, dolo, garnet	Unit "F" Washutan Fredricksburgian
707-775	sdy <u>Sltst</u> : fn-gr, sbang, poorly srt gtz; com fspr, glauc, mnr Fe-stn, hem, sid, mic, <sup>nd frags,</sup> tr shl frags, pyr, lig, amethyst, garnet, dolo, ls, grv	
775-800	silty <u>Sst</u> : fn-cse-gr, sbang, poorly srt gtz; abd Fe stn, com hem, sid, <sup>grv,</sup> mnr fspr, glauc, tr lig, rose gtz, ls, dolo.	
800-823	sdy <u>Sltst</u> : fn-gr, sbang, poorly srt gtz; abd fspr, com shl frags, sid, ls. Sandstone interval between	
823 <sup>let</sup>	Felsic tuff	Basement



590 000  
FEET

KINSTON  
7.5

CONVERSION  
SCALES



GRIFTON (VA N.C. 119) 9 KM  
AYDEN (VA N.C. 102) 20 KM  
  
(GRIFTON)  
5564 IV SW

SAMPLE DESCRIPTION

Well # LN-T-2-84 TD 848 Examined by: BH Date 7/20/84

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Key: A - Abundant C - Common M - Minor T - Trace R - Rare X - Major Constituent

Holocene -  
Pleistocene  
undivided  
Pd fm

Interval	Rock Type	Color	Texture			Quartz	Feldspar	Glaucophane	Phosphate	Calcite	Shell Frags	Mica	Pyrite	Lignite	Chalcedony	Amethyst	Rose Quartz	Tourmaline	Siderite	Limestone	Dolomite	Fossils	Fe-Stain	Mn	Remarks	
			Grain Size	Grain Shape	Sorting																					
0/5	Sst		f	ang	wp	X																				
5/10		A/A																								slty agg
10/15			f-m	ang	poor	X								M												
15/20	slty Sst		wt	ang	mod wl	X	M	T						T												Pd(?)
20/25			f-m	sbang	poor	X	C	T						T	T											gyp on glauc (from processing)
25/30	slty Sst		f-m	"	"	X	C	T						T												slty agg
30/35	slty Sst		f-m	"	"	X	M			T				T												more slty agg
35/40	Sst		m	sbang	wp	X	T																			
40/45	Sst		m	sbang	wp	X	C	T																		
45/50		"	m-cs	sbang	mod wl	X	C	A	T	T					T											some calcareous cement
50/55	Sst		m-cs	sbrd	poor	X	C	A	T					C												v dk grn glauc <sup>sharks tooth</sup> <sub>spinel etc</sub>
55/60		A/A	m	stang	mod well	X	C	T	T																	
60/70		"	m-cs	sbang	poor	X	C	A	T	M	R				T											gravelly
70/80	calc Sst	"	m-cs	sbang	poor	X	A	C							T											good aggs
80/90	calc Sst	"	m-cs	sbang	poor	X	A	C							T											more aggs - fm cement
90/100	handy m	"	Limestone?	m-cs	sbang	poor		A	C						T	T										carbonate pebbles <sup>sharks tooth</sup> <sub>calciferous on Sst</sub>
100/110	Sst		m	sbrd	poor	X	M								T											sharks tooth
110/120	Sst		m-cs	sa	P	X	T								T											small amby gravel
120/130	Sst		calc-grn	gr	mw	X	T								C											some calc sd
130/140	Sst		C	sr	P	X	T	T							C											abd grv
140/150	Sst		m	sa	P	X	M		C	T					C											glauc apple grn
150/160	Sst		f	a	mw	X	T			T	T															calc best frags; slty Sst frag

110  
7/23

?

SAMPLE DESCRIPTION

Well # LN-T-2-84 TD 848 Examined by: BH Date 7/23/84

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Key: A - Abundant C - Common M - Minor T - Trace R - Rare X - Major Constituent

Interval	Rock Type	Color	Texture			Quartz	Feldspar	Glaucopite	Phosphate	Calcite	Shell Frags	Mica	Pyrite	Lignite	Chalcedony	Amethyst	Rose Quartz	Tourmaline	Siderite	Limestone	Dolomite	M. Fossils	Fe-Stain	Remarks
			Grain Size	Grain Shape	Sorting																			
160/170	shty Sst		ms	a	P	X	C	T	M	T	T	M												slt agg. shaly with calc. cement
170/180	shly Sst		f	sa	P	X	C	T	A	T	T	C												calc. frags
180/190	shty Sst	abundant sdy agg.	f	a	mw	X	C		C	T		M						T						primatic xls
190/200	ditto	gravelly	f	a	mw	X	C		C	T		M						T						slightly more shell frags
200/210	shly Sst		f	sa	P	X	T		A		T	M												
210/220	Sst		f	a	P	X	C		M			M												
220/230	shty Sst	shly Sst	f	a	w	X	A	T	T	T														
230/240	ditto	shly Sst	f	a	P	X	A	T	M	T	T	M	T											a little coarser / calc. cement
240/250	shty Sst	OK	f	a	mw	X	C	T	M	T	T													coarser
250/260	shly Sst	gravelly	f	sa	P	X	C	T	M	T		T												marcasite
260/270	Sst	note better sorting	f	a	mw	X	C	T	T	T		M												
270/280	ditto	some calc. cement	f	a	mw	X	C		T	T	M													some pebbles, overall a little finer than above int.
280/290	ditto	more calc.	m	a	mw	X	C	T	M	T		M	T											gravelly; some aggr. of calc. Sst
290/300	Sst		m-cs	shaly	P	X	M		R	T														
300/310	Sst		m-cs	shaly	P	X	M		R	T														
310/320	Sst		m-cs	shaly	P	X	T	T	T	T														marcasite
320/330	Sst	calc.	m-cs	sa	P	X	M	T	R	T														
330/340	Sst	slt agg. frag	m	sa	mw	X	T																	clean, gravelly
340/350	Sst		f	a	P	X	C	A	T	T	T													descrip. based on agg., gravelly
350/360	Sst		m-cs	ca	mw	X	T	T	T	T		M												clean, small phos. pt
360/370	ditto		m-cs	shaly	mw	X	C		T															
370/380	Sst	fine agg.	f	a	P	X	M		C	T	T													
380/390	ditto		f	a	P	X	M		R	T														

check on section 1 mat. than above

much finer sample about 10-80

shaly beds

SAMPLE DESCRIPTION

Well # LN-T-2-84 TD 848 Examined by: BH Date 7/23/84

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Key: A - Abundant C - Common M - Minor T - Trace R - Rare X - Major Constituent

Interval	Rock Type	Color	Texture			Quartz	Feldspar	Glaucopite	Phosphate	Calcite	Shell Frags	Mica	Pyrite	Lignite	Chalcedony	Amethyst	Rose Quartz	Tourmaline	Siderite	Limestone	Dolomite	Fossils	Re-Stain	Remarks				
			Grain Size	Grain Shape	Sorting																							
390/400	Sst		m	sa	mw	X	T	T	T																prop wood frags			
400/410			f	a	p	X	C		R	T																		
410/420	ditto		f	m	p	X	C		R	T	T															marcasite		
420/430	stly Sst	calc cement	f-m	sa	p	X	C	T	T	T	T																	
7/26 430/440	"	fine sand aeggs 9m sst aeggs	m	sa	p	X	C		T	T																	same in clam as in Wasserwell?	
440/450	ditto	ok							T																		amber?	
450/460	Sst		f	a	mw	X	M	R	T	T					T													
460/470	stly Sst		f	sa	p	X	C		T	T	T																slightly stly cl frags	
470/480	Sst	stly	m	sr	p	X	C	R	T						T												slightly stly	
480/490	Sst	sdly stly	f	sr	p	X	C	R	T																		"	
490/500	Sst	mw	cs	sa	mw	X	M																				clean	
500/510	stly Sst	most of fine	f	sa	p	X	C		T						T												new, amber	
510/520	Sst	ok by change	m	sa	mw	X	M	T		T	T				T												clean	
520/530	ditto																										little less glauc. some stly sst aeggs	
530/540	Sst	by change	cs	sa	w	X									T												v clean - no glauc. rare grains	
540/550	Sst		m	sa	mw	X	T	T	R	T	T																ditto	
550/560	Sst	stly	m	sa	mw	X	T		T	T					C												clean - clay on qtz grains in old frags contamination?	
560/570	ditto		m	sa	mw	X	T				T																clean - no stly	
570/580	Sst		f-m	sa	p	V	T	M	T	T					T												C	
580/590	stly Sst	minor clay frags	f	sa	p	X	T	T																				interval contaminated. sst w/ shell frags, amber, lignite, phosphate, quartz
590/600	Sst	gravelly	m	sa	p	X	T	M	T	T					T												some clay adhesions	
600/610	Sst	pink mottled sst w/ yellow white clay	f	sa	p	X	T	T	T	T																		abundant gravel in aeggs w/ pink sst
610/620	sdly Sst		f	sa	p	X	T	T	T	T					T													higher % sand

increase in glauc  
from above



SAMPLE DESCRIPTION

Well # LN-T-2-84 TD 852 Examined by: BH Date 7/26/94

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Key: A - Abundant C - Common M - Minor T - Trace R - Rare X - Major Constituent

Interval	Rock Type	Color	Texture			Quartz	Feldspar	Glauconite	Phosphate	Calcite	Shell Frag	Mica	Pyrite	Lignite	Chalcedony	Amethyst	Rose Quartz	Tourmaline	Siderite	Limestone	Dolomite	Fossils	Fe-Stain	Remarks
			Grain Size	Grain Shape	Sorting																			
620/630	Arg Sltst	ditto	fine	drusy	poor	X	T	T	T	T	T	T	T	T										5st? Sltst aggs
630/640	Mkt		fine	drusy	poor	X	C	T	T	T	T	T	T											st aggs
640/650	Arg Sltst	ditto	fine	-	-	X	T	T	T	T	T	T	T											agg w/ fine-co rd & lignite ce. st frags; poorly sorted
650/660	Sltst	"	fine	drusy	poor	X	C	T	T	T	T	T	T											
660/670	Sltst	"	fine	stray	poor	X	T	T	T	T	T	T	T											to garnet abund. pink-red mottled
670/680	Sltst	sandier	fine	drusy	poor	X	T	T	T	T	T	T	T											much fine grained sand
680/690	Sltst	"	fine	stray	poor	X	T	T	T	T	T	T	T											st frags, silty st frags w/ clay shales, slightly better
690/700	Sltst	med sly stst aggs than above maybe carving	fine	any	poor	X	T	T	T	T	T	T	T											to garnet dark Fe stained sly st frags
700/710	Sltst	also some red mottled	fine	any	poor	X	M	R	T	T	T	T	T											silty sly stst frags also Sltst also Sltst
710/720	Arg Sltst	ditto	fine	any	poor	X	M	T	T	T	T	T	T											hem. sil. many fin. poorly srt aggs w/ shells; one Fe-stain
720/730	Arg Sltst	big inc in clay abund	fine	any	poor	X	C	T	T	T	T	T	T											F. lewisensis check tooth
730/740	Sltst	abundant clay frags	fine	any	poor	X	C	T	T	T	T	T	T											check tooth not
740/750	Sltst	abd clay frags	fine	any	poor	X	C	T	T	T	T	T	T											
750/760	Sltst	become purer	fine	any	poor	X	M	T	T	T	T	T	T											pink clay frags
760/770	Sltst		fine	any	poor	X	M	T	T	T	T	T	T											slightly sandier? pink aggs
770/780	Sltst	some unbedded mineral grains	fine	any	poor	X	M	T	T	T	T	T	T											
780/790	Sltst		fine	any	poor	X	M	T	T	T	T	T	T											Fe stained fine sst of fine pyr shells?
790/800	Sltst	sandier less lith way	fine	any	poor	X	M	T	T	T	T	T	T											gravelly
800/810	Sltst	unbedded	fine	any	poor	X	M	R	R	T	T	T	T											
810/820	Sltst		fine	any	poor	X	T	T	T	T	T	T	T											
820/830	Mkt	1 sly st frag w/ abd glauc ? abd frags must be from above seq.	fine	any	poor	X	A	C	T	T	T	T	T											Basalt @ 870-875
830/840																								"
840/848																								"

848-852 core of unit up

Feldspar  
Kf  
no frags  
Lspar w/  
just  
face

unbedded  
Kf  
Lspar