

WELL LOG

Well: ^{D-348}~~D-337~~ 16 Digit No.: 302416N0815226.1

Owner: Monticello Drug Co. & St. Regis Paper Co.

Depth: 708' Casing Depth: 416' Diameter: 6"

DEPTH (Feet)	SOIL
0-2	<u>Sand</u> --Tan, med. to fine qtz., also flakes of black organic material from soil
2-62	<u>Same</u> -- 2-25--Dark rusty brown with iron oxide stain, also frags. of indurated hardpan 25-62--dark rusty brown, iron oxide stained hardpan, contains root casts or worm borrows as concretion with siliceous cement-hard- also few frags. of pelecypod replaced by siliceous iron oxide
62-105	<u>Sandy Clay</u> --light grey with fine qtz. sand in a clay matrix, thin streak of white chalky calc. clay with soft, white limestone at 102-105
105-114	<u>Clay</u> --moderately stiff with white chalky streak of calc. clay--thin streak of moderately hard, tan limestone at 108-109--soft clay 109-110--limestone 110-114 becoming hard at 114, few very small forams
114-120	<u>Limestone</u> --grey & tan mottled, med.-grained, bioclastic, porous--also, grey, cryptoxylin, mod. hard, non-porous limestone, ostracods & poorly preserved moluskan fragments
120-122	<u>Cavity</u>
122-136	<u>Grey Marl</u>
136-146	<u>Hard Limestone</u>
146-170	<u>Grey Marl</u>
170-180	<u>Med. Hard Limestone</u>
180-198	<u>Grey Marl</u>

1095

20

416
52
334

198-200	<u>Limestone</u>
200-260	<u>Grey Marl</u>
260-262	<u>Limestone</u>
262-266	<u>Grey Marl</u>
266-267	<u>Limestone</u>
267-290	<u>Sandy Clay</u> --light grey, with coarse grains of qtz. & black polished phosphate, predominant sand size med. to fine thin limestone streak from 270-275
290-334	<u>Clayey Sand</u> --grey to greenish grey, phosphatic- sharks teeth
334-354	<u>Sandy Clay</u> --olive green, phosphatic--also few frag- ments of soft, tan, cryptoxylin lime- stone
354-376	<u>Limestone</u> --moderately hard, non-porous light grey, sandy limestone--sand size ranges from fine to coarse with abundant gran- ules & pebbles of well rounded qtz. and phosphate
376-380	<u>Same</u> --very hard, non-porous, light grey sandy limestone
380-386	<u>Same</u> --soft, white, chalky, sandy limestone
386-390	<u>Same</u> --light grey, sandy, hard, non-porous lime- stone--consists of med. to fine, qtz. & phosphate sand in a sugary calc. matrix, no fossils
390-400	<u>Same</u> --coarser sand content, sharks teeth
400-416	<u>Same</u> --Med. hard limestone
416-422 Top Ocala	<u>Change</u> --white massive broclastic ls. porous with bryozoaus & shell frag., <u>no</u> typical ocala forams
422-444	<u>Same</u> --white broclastic ls., bryozoan--some small forams (Robulus?)
444-466	<u>Same</u> --small lepidocyclina
466-488	<u>Same</u> --more ocala forams
488-510	<u>Same</u> --slight color change <u>more whitish</u> , bro- clastic--massive porous ls. with bryozoan & shell & small ocala forams, Cry. river

510-532	<u>Same</u>
532-554	<u>Same</u> --but many rounded forams-(Williston type but <u>no</u> pinarenses) slight texture change - less massive, more mealy-granular
554-576	<u>Same</u> --many small rounded forams (Williston type but no pinarensis)
576-598	<u>Same</u> --
598-630	<u>Same</u> --1 pinarensis?? small
<u>630-645</u> Top Inglis	<u>Change</u> --honey brown <u>sugary textured calcitic ls</u> or dolomite, crystalline but soft--easily broken, no recognizable forams, material crystalline with sugary texture, porous
645-664	<u>Change</u> --light tan to grey calcitic granular but massive limestone (not mealy), <u>in consolidated pieces, number of small pinarensis</u>
664-686	<u>Same</u> --with newberryensis & pinarensis--pieces are fairly hard
<u>686-708</u> Top Avon Pk.	<u>Change</u> --hard honey brown crystalline sugar to hard texture ls. or dolomite

708
82
626

1-20-69

Deep well for supply to
Oil Well Test -

Duval Drilling Co.
Don French - Operator
6" casing

Owner - St. Regis Paper Co. (lessee)
Monticello Drug Co. (owner)

R. W. Fairchild, Geologist

Location -

Lithology & Remarks

Tan to cream med to fine grs sand - soil cover approx. 1'

Dark, rusty brn - hair spin - grs sand w/ iron oxide stain & matrix -

Cream to tan - med to fine grs sand - very loose also frags of rusty brown ss.

Same - poor returns

Same - more sand than ss - poor returns -

Light gray sandy clay & sand - also frags of dk. brown ss -

0-3'

3-8'

8-25

25-45

45-62

62-70

Well No.	Remarks	Lithology
70-92		Grey sandy clay w/ grey streaks of grey clay w/ very little sand no fossils -
92-106	Pit in 8" casing to 106'	Grey clay + sandy clay - change to light grey to white chalky clay w/ few frags of soft white chalky ls -
1-27-69		
106-114		Grey grey mudstone to stiff clay - also white chalk streaks of clay - 108' thin streak of mudstone hard ls (6") - 108 1/2 to 110 soft clay then ls to 114 becoming hard -
114-120		Soft cream to white chalky clay at 15' - cavity at 126-129' lost circulation to 136' - no returns

Repta

114-120 Cont'd.

Lithology & Remarks

Limestone consists of
 grey mottled, med grained
 micaceous forams ls - also
 grey cryptoxylina ls, med.
 thick of non porous - ~~ls~~
~~residual~~ ~~fragments~~ -
 ostracods
 driller attempted to gain
 circulation by pumping
 mud into hole - no success -
 bit stopped up - took
 bit out of hole

120 - 122
 120 - 180

Cavity

no circulation - no returns
 drilling smooth from 136
 possibly soft ls. → to 170 probably ~~ls~~ or
 sandy clay - limestone? hard
 streaks at 170 to 180' -

1-22-67

Driller could not close
 cavity - made no hole

Dept

1-23-69

180-202

202 - 224

204 - 246

246 - 268

Cavity partially plugged -
Some circulation when
pumping in mud - driller
attempting to drill past 180'
hoping to gain circulation -
no success -
Still no circulation - driller
report drilling rate suggests
soft sandy marl from
180 - 198 - 198-201 1/2 soft
ls.

No circulation - soft
easy drilling to 116 - soft
ls. from 116 to 117 then soft
marl? 117 to 224' -

Driller added compressed air
drilling mud
to attempt to regain circulation

Lost air - drilling of mud
only no circulation - soft
easy drilling

Drilled 10' to 256 ^{thick} w/ mud -
no returns -

Lithology & Remarks
Driller tried to plug cavity
w/ several batches of mixed
drilling mud & concrete -
finally called in cement -
put in 7 yds. of cement -
regained circulation -

1-24-68 268-400

Samples collected by
drifter - reports 15'
from 356' to 400' -
ls. has moderate white
chalky clay content -
lost circulation at 414' -
pulled opt & set 6"
casing to 414'

Washed sample of interval
378' - 400' - consists
mainly of tan to light grey
sandy ls - phosphatic -
Sample also contains
coarse sand & pebbles
of ~~qtz~~ phosphate
probably from up hole.

Sharks teeth - few molds
of pelecypod -

DEPTH

400 - 414' No sample

LITHOLOGY & REMARKS

Lost circulation at 414' -
Driller attempted to
regain circ. w/ mud -
no success - decided
to set casing (6") at
414' & cement in -
will drill out 1-25-69

Well completed to approx.

700'