

# REGISTER

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## WELL CO., INC.

E. L. REGISTER  
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LEE REGISTER  
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Route 2, Box 2  
Rose Hill, North Carolina 28458

Town of Rose Hill  
Rose Hill, NC 28458

### Drillers Log - Well #5

0 - 37	Fine sand with some clay
37 - 37½	Soft sand rock
37½ - 47	Sand
47 - 49	Blue Clay
49 - 60	Sand
60 - 60½	Sand rock
60½ - 74½	Sand
74½ - 77½	Rock (36")
77½ - 80	Sand and blue clay
80 - 80½	Sand rock
80½ - 88	Sand
88 - 89	Rock (14")
89 - 90	Sand
90 - 90½	Rock (6")
90½ - 117	Sand and some clay
117 - 188	Sand with some clay (hard to bump)
188 - 202	Sand and clay
202 - 203½	Rock (18")
203½ - 261	Sand (hard to bump)
261 - 262	Rock (14")
262 - 266	Sand (hard to bump)
266 - 268	Rock (20")
268 - 292	Sand (hard to bump)
292 - 330	Sand and blue clay
330 - 337	Blue clay
337 - 363	Sand (hard cutting)
363 - 395	Blue clay
395 -	Rock (6")
395 - 433	Blue clay
433	Rock (6")
433 - 447	Blue clay and sand
447 - 548	Blue clay
548 - 554	Blue clay and hard sand
554	Rock (1")
554 - 555	Hard sand
555 - 560+	Hard rock (62+")

- 0/5 — clay sd - fm gr gty, <sup>shd</sup> to glauc, phos mic  
 5/10 sst: fm gr, shang gty - clean abnd Fe-stn  
 10/15 sst - v. fm gr shang gty - clean dec. in Fe stn  
 15/20 — do - picking up some med-gr gty sd  
 20/25 Sst - f-m gr gty - shang-shrd - clean  
 bright
- 25/30 sst. f gr shang gty - zel Fe stn  
 30/35 Sst - v. fm gr ang gty - to pk cl cont  
 35/40 prob to PD - v. fm gr ang - shang gty sst - few  
 agg of gry clay sd w mic & glauc  
 in agg - also a few wht cli (non calc) cont agg
- 40/45 Sst. m gr shrd gty - inc in gr agg  
 — v. gr mic
- 45/50 Sst - f-m gr shrd gty com lt yel Fe-stn  
 (com cl agg or clay sd agg w same coloring  
 or red-yel-tan mott) - also get some  
 (num) rdd pale gr glauc (?) pel
- 50/55 glauc sst: 5-10% med gr glauc - fm gr shang  
 gty - still carrying gr sd clay agg
- 55/60 do w/ some agg of red sd
- 60/65 Sst - fm shang gty - drop in glauc to 1-2%  
 several lg pieces of lig showing being filled  
 with sst
- 65/70 Sst: m gr ang - shang few % glauc to  
 gry cl agg & lig
- 70/75 do w/ few ice sd grains

- 75/80 glauc calc shly set - med gr shud gty sd  
com shl frags aggs of CO<sub>2</sub> cont set more glauc  
to phos
- 80/85 do cont w/ less of all <sup>acc.</sup> components - finer grained
- 85/90 do - fairly strong CO<sub>2</sub>
- 90/95 Sst: fm gr ang gty - com CO<sub>2</sub> cont aggy  
to glauc
- 95/100 Sst ~~90/95 w/ glauc~~ fm gr ang gty  
loss of CO<sub>2</sub> ? glauc - heavy to phos & mic
- 100/105 Sst or muddy set: v.f. gr ang gty  
agg of cl cont set, to glauc, few shl frags
- 105/110 Sst: v.f. gr ang gty - more mic <sup>± 1%</sup> glauc  
com lig few shl frags
- 110/115 do
- 115/120 do 10+90 lig
- 120/125 Sst f-mg shud gty albd lig, com w/ht  
shl frags (above shls more gray), to glauc, to pyg
- 125/130 do 5% pyg
- 130/135 do ↓ dec lig
- 135/140 do
- 140/145 do
- 145/150 do shls holding strong glauc varies  
- 1-2%. lignite about gone
- 150/155 Sst - return of f gr ang gty at exp  
of f m gr shud gty - both  
dark i. lt gr glauc
- 155/160 do -
- 160/165 Sst - v.f. gr ang gty 1-2% glauc  
to pyg ? shl

- 165/170 do
- 170/175 do
- 175/180 influx of shls. i need sd
- 180/185 do
- 185/190 do
- 190/95 loosely cont agg of of of gr any gty w/ to  
glance
- 195/200 siltst - grey mic sl shly siltst
- 200/205 wash to rest N/A + CO<sub>2</sub> cont aggs of  
f-m rest
- 205/210 Sst f-m gr shung gty
- 210/215 do
- 215/220 Sst f-gr any gty
- 220/225 do
- 225/230 do to mic i lig
- 230/235 sst m-gcc gr rd gty
- 235/240 do shi fining trend
- 240/245 Sst: r/-f gr any gty more gel-ard cl  
cont i str - prob top of C.F.
- 245/250 do is to of new pale gr glance
- 250/255 do + mica i lig in to amts
- 255/260 do
- 260/265 hodgepodge of pale gr glance, lig  
shls i grey siltst w/ poorly ret gty rd
- 265/270 do
- 270/275 finer gr sample - still mixture but w/ <sup>fewer</sup> ~~only~~  
shl i less lig - a pyg
- 275/280 back to like 240/265

380/385 do pure sample  
do thru 440

440/450 influx of sd - for gr any - etc  
write to glance

450/460 do ~~little~~ less sd -

460/470 back into shale

470/480 do

↓

530/540 shale

~~540/550~~  
540/550 influx of tan siltst (non calc)  
also get a few whit shl frags (w clay?)

550/560 do w some mott & Fe str on siltst  
? red-or-yel siltst & sh root frags

580/~~580~~<sup>583</sup> nothing to work with

- 280/285 fu gr any sst. few to glauc  
abd lig to phos
- 285/290 do w/o lig i phos
- 290/295 influx of grey sdy sst or sdy cl  
common mica
- 295/300 do
- 300/305 do w loosely cont sst agg to glauc  
lig
- 305/310 do
- 310/315 sst: f-m gr any - shang gty - agg of  
tan sstst - few reddish frags
- 315/320 a finer sd - more tan agg  
to use mica
- 320/325 sst. v poorly sst gty mostly m-use of  
shang - num shl frags to use mica  
red/bk Fe stn on sd
- 325/330 do
- 330/335 mixed w/any sd i grey fossil cl  
w/mnr aspect like 320/330 zone
- 335/340 same as 320/325 few lg shl frags (exogyra?)
- 340/345 sst: m. use gr, shang com yel-red Fe-stn  
abd grey sh i sdy sh
- 350/355 do
- 355/360 do med gr
- 360/365 do a fu gr
- 365/370 do f-med gr
- 370/375 v rich in grey sh
- 375/380 do

DP-T-1-85

white stuff in 15-20' sample?

top PD - 35-40 shows sand change

gamma log top 37 (cl)

clay 1<sup>st</sup> in 40-45 samp

glauv SST 50/55

if samples are too high (log 5')

50 - 55 low in gamma = gel  
str sd - <sup>(45/50)</sup> gw circ glauv leached

higher  $\gamma$  at 60 = response to glauv

check amethyst

fu sd 95/105 from higher?  
log shows good sd 87-98

lig comes in @ 100

sd cens @ 120 w/ shls

100-125 assume  $\gamma$  correct in  
coring trend & that noise  
of E screwed up its response

270 - TD

hold calls pending review of other wells in area - sample material giving log responses uncertain

- 1) 272-292 grey siltst?
- 2) 292-308 tan calc siltst?
- 3) 308-320 cal sd

above sequence works if samples are too deep by ~10'

shale of 370 → TD doesn't fit E-log (would seem to match 465')

~~shale~~ shale at 460 OK

sands on log 375-405 don't show well



NORTH CAROLINA DEPARTMENT OF NATURAL  
RESOURCES AND COMMUNITY DEVELOPMENT

Date \_\_\_\_\_ 19\_\_\_\_

To: \_\_\_\_\_

From: \_\_\_\_\_

Remarks: \_\_\_\_\_

*In progress - put on  
hold pending review  
of other wells in  
area*

**ACTION**

- |   |  |
|---|--|
| <input type="checkbox"/> Note and file              | <input type="checkbox"/> Note, initial and forward           |
| <input type="checkbox"/> Note and return to me      | <input type="checkbox"/> Your comments, please               |
| <input type="checkbox"/> Note and see me about this | <input type="checkbox"/> For your information                |
| <input type="checkbox"/> For your approval          | <input type="checkbox"/> Prepare reply for my signature      |
| <input type="checkbox"/> Per our conversation       | <input type="checkbox"/> Prepare information for me to reply |
| <input type="checkbox"/> Per your request           | <input type="checkbox"/> Please answer, with copy to me      |
| <input type="checkbox"/> Return with more details   | <input type="checkbox"/> To be filed                         |

DP-T-185

ROSE HILL  
7.5'

DP-T-185

