

Adam Eldani Geo-Log/Report

WellSight Systems

Scale 1:240 (5"=100') Imperial

Measured Depth Log

Well Name: #1 Seymour-Van Meter
Location: SEC 28-TOWNSHIP 21S- RANGE 18W PAWNEE COUNTY
License Number: API 15-145-21786 Region: C.K.U. KANSAS
Spud Date: 09/29/2014 Drilling Completed: 10/12/2014
Surface Coordinates: 385' FSL & 185' FWL
55' N & 145' W of SW SW SW
Bottom Hole Deviation Surveys are detailed through out the Geo-Report.
Coordinates:
Ground Elevation (ft): 2055' K.B. Elevation (ft): 2064'
Logged Interval (ft): 3250' To: 4790' Total Depth (ft): 4791'
Formation: Mississippian
Type of Drilling Fluid: Mud-Co Chemical

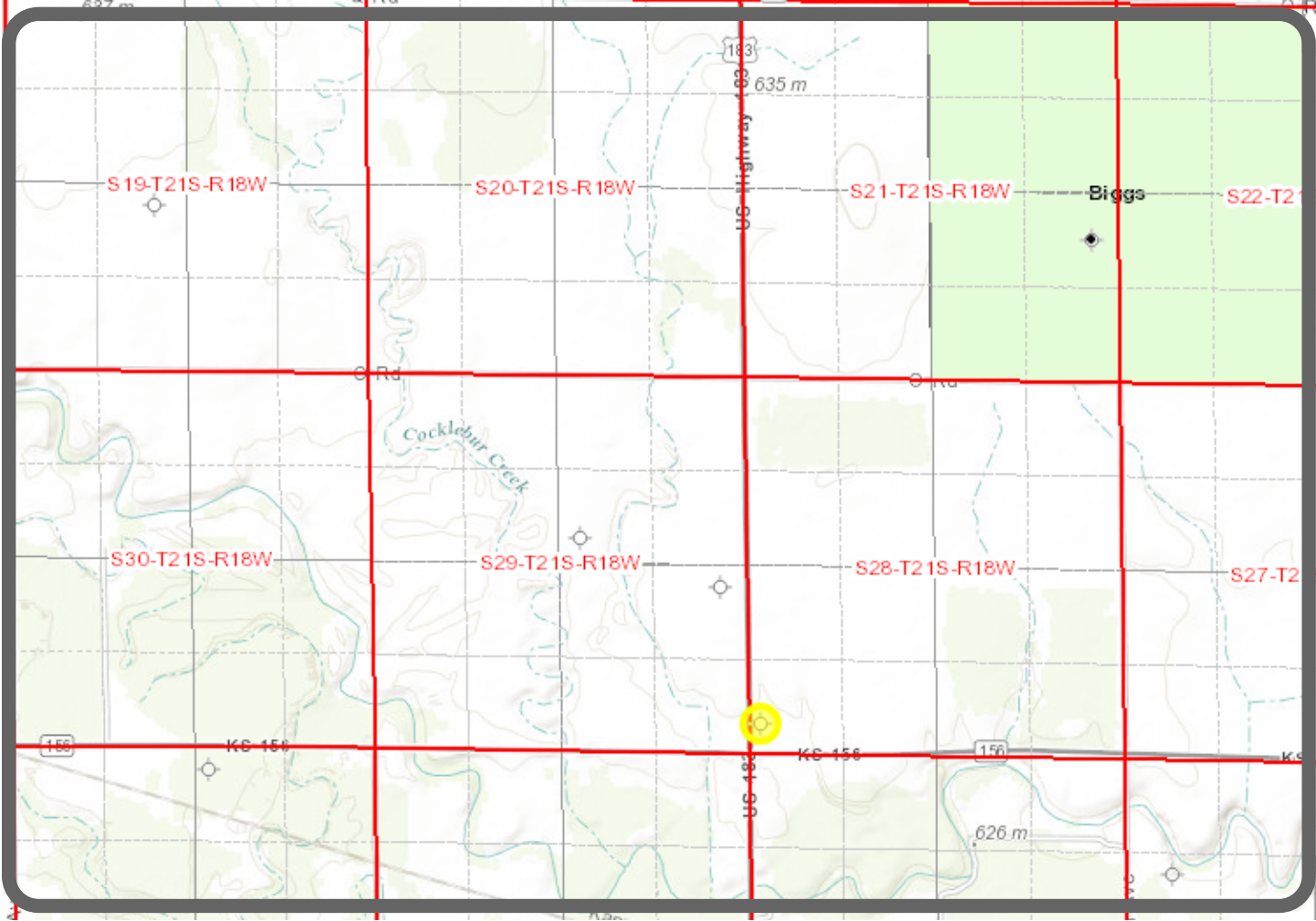
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Ritchie Exploration Inc. (drilled by SOUTHWIND RIG #2)
Address: 8100 E. 22nd ST. N. #700
Wichita, KS, 67278-3188

GEOLOGIST

Name: Adam M.A. Eldani
Company: Ritchie Exploration Inc.
Address: 8100 E. 22nd ST. N. #700
Wichita, KS, 67278-3188



Tops & Drill Report

TOPS: DRILLING REPORT

Sample Tops:

Anhydrite: 1165'+899
B/Anhydrite: 1193'+871
Heebner: 3549'-1485
Lansing: 3628'-1564
Muncie Sh: 3769'-1705
Stark Sh: 3844'-1780
Hush: 3884'-1820
BKC: 3918'-1854
Marmaton: 3938'-1874
Pawnee: 4012'-1948
Fort Scott: 4041'-1977
Cherokee Sh: 4052'-1988
Cong. Sand: 4071'-2007
Arbuckle: 4090'-2026
Granite: 4717'-2653
RTD 4790'-2726

E-Log Tops:

Anhydrite: 1163'+901
B/Anhydrite: 1191'+873
Heebner: 3548'-1484
Lansing: 3628'-1564
Muncie Sh: 3765'-1701
Stark Sh: 3844'-1780
Hush: 3883'-1819
BKC: 3915'-1851
Marmaton: 3938'-1874
Pawnee: 4012'-1948
Fort Scott: 4041'-1977
Cherokee Sh: 4049'-1995
Cong. Sand: 4066'-2002
Arbuckle: 4084'-2020
Granite: 4710'-2646
LTD: 4791'-2727

DAILY DRILLING REPORT:

DATE DEPTH @ 7am:

09/29 Spud
09/30 1170'
10/01 1460'
10/02 2477'
10/03 3205'
10/04 3659'
10/05 3844'
10/06 3920'
10/07 4087'
10/08 4095'
10/09 4102'
10/10 4122'
10/11 4740'
10/12 4791'

Misc.

All DST's info. are NEAR the correct log depth.

RIG: SouthWind Drilling RIG #2
TOOL PUSHER: BILL SANDERS
MUD: MUD CO. (JASON WHITING)
GAS DETECTOR: N/A

DRILL STEM TEST'S: Diamond Testing, Inc.

LOGS: NABORS (Jeff Groneweg)

OFFICE: Mike Engelbrecht

Comments

Ran 27 jts new 24# 8-5/8" surface casing. Tally at 1157', set at 1168'. Cemented with 400 sacks 65/35, 3% cc and 175 sacks class A, 3% cc, 2% gel. Cement circulated. Plug down at 11:00 a.m. Drilled out plug at 11:00 p.m.

After review of all geologic samples as examined, Electric logs, and all Drill Stem Tests (DST) analysis & calculations; It was Elected by Ritchie Exploration to Plug & Abandon #1 Seymour-Van Meter.

Plug and Abandon. 1st plug set at 4100' with 50 sacks of 60/40 Poz, 4% gel, ¼# flo-seal; 2nd plug set at 1140' with 50 sacks; 3rd plug set at 480' with 40 sacks; 4th plug set at 60' with 20 sacks; 160 total sacks. 30 sacks in rat hole and 20 sacks in mouse hole. Job complete at 1:30 a.m. Plugging orders by Michael Maier with the KCC.


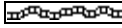
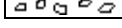
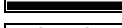
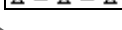
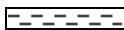

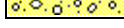





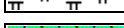


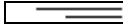
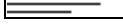



Well Log Surveys BY: NABORS. Compensated Denisty/ Neutron Log, Dual Induction.

SAMPLES WILL BE DEPOSITED WITH KANSAS GEOLOGICAL SURVEY.






















































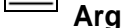



















RESPECTFULLY SUBMITTED

Adam M. A. Eldani

ROCK TYPES

 Anhy  Bent  Brec  Carb sh  Cht	 Clyst  Coal  Congl  Dol  Gyp	 Igne  Lmst  Meta  Mrlst  Salt	 Shale  Shcol  Shgy  Sltst  Ss	 Till
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ACCESSORIES

MINERAL  Anhy  Arggrn  Arg  Bent  Bit  Brecfrag  Calc  Carb  Chtdk  Chtlt  Dol  Feldspar  Ferrpel  Ferr  Glau  Gyp	 Hvymin  Kaol  Marl  Minxl  Nodule  Phos  Pyr  Salt  Sandy  Silt  Sil  Sulphur  Tuff FOSSIL  Algae  Amph	 Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Fuss  Gastro  Oolite  Oomold  Ostra  Pelec	 Pellet  Pisolite  Plant  Strom STRINGER  Anhy  Arg  Bent  Coal  Dol  Gyp  Ls  Mrst  Sltstrg  Ssstrg	TEXTURE  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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OTHER SYMBOLS

- POROSITY**
- [E] Earthy
 - [B] Fenest
 - [F] Fracture
 - [X] Inter
 - [Z] Moldic
 - [O] Organic
 - [P] Pinpoint

- [V] Vuggy
- SORTING**
- [W] Well
 - [M] Moderate
 - [P] Poor

- ROUNDING**
- [R] Rounded
 - [r] Subrnd
 - [a] Subang
 - [A] Angular

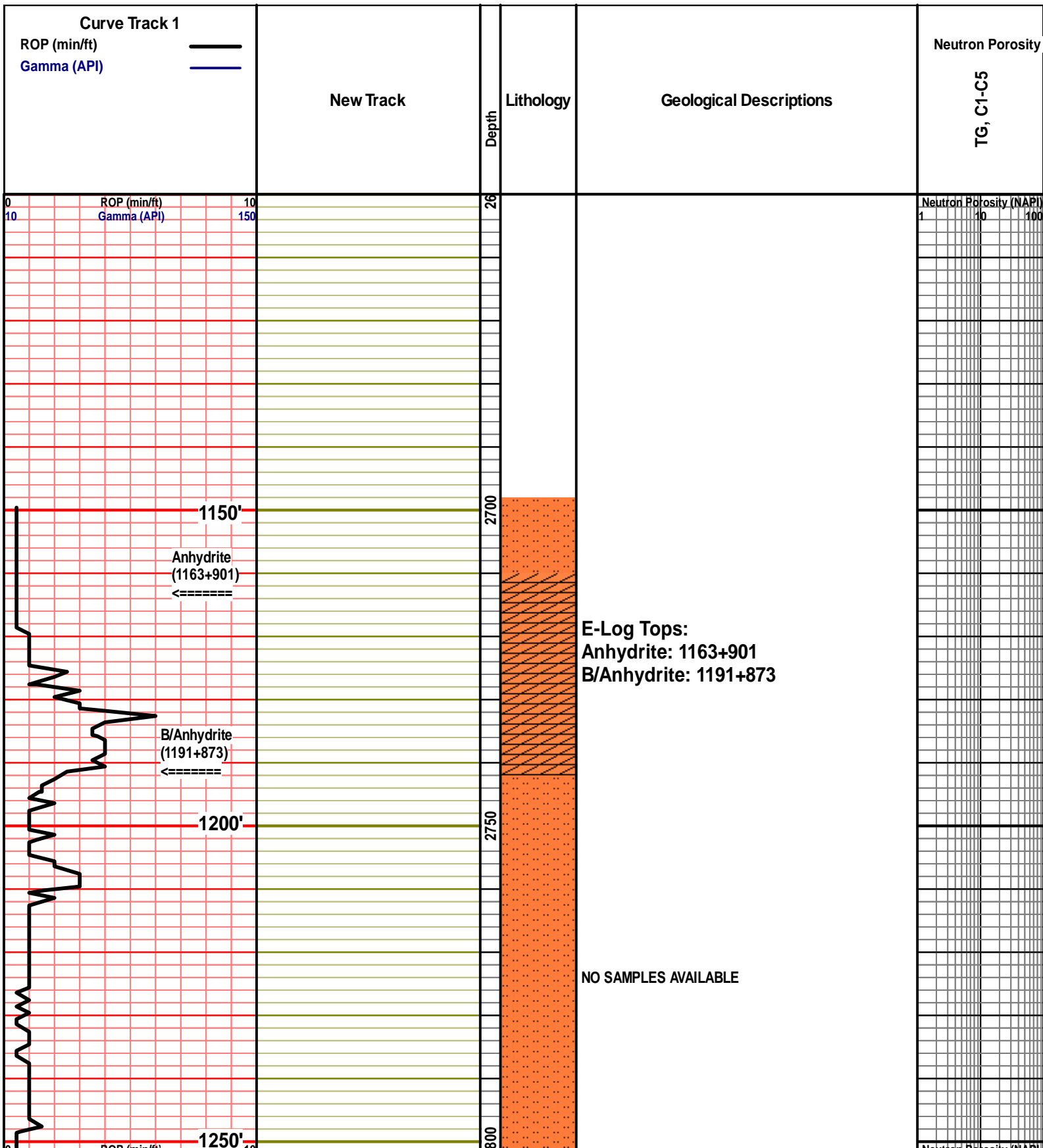
- OIL SHOW**
- [X] aiming_1

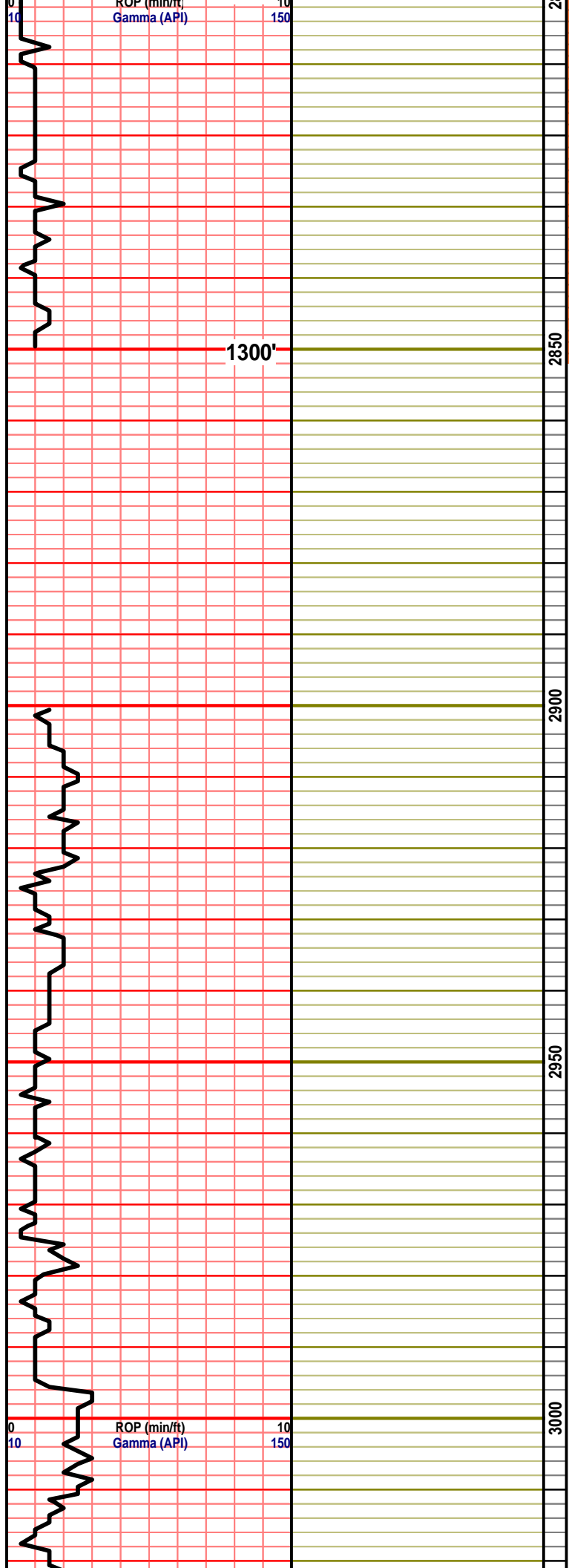
- [●] Even
- [◉] Spotted
- [○] Ques
- [◻] Dead

- INTERVAL**
- [■] Core
 - [■] Dst

- [■] Dst_alt
- [■] Dst

- EVENT**
- [▽] Rft
 - [▶] Sidewall

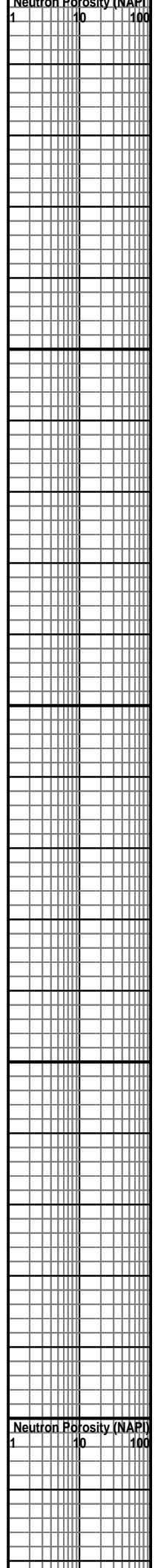


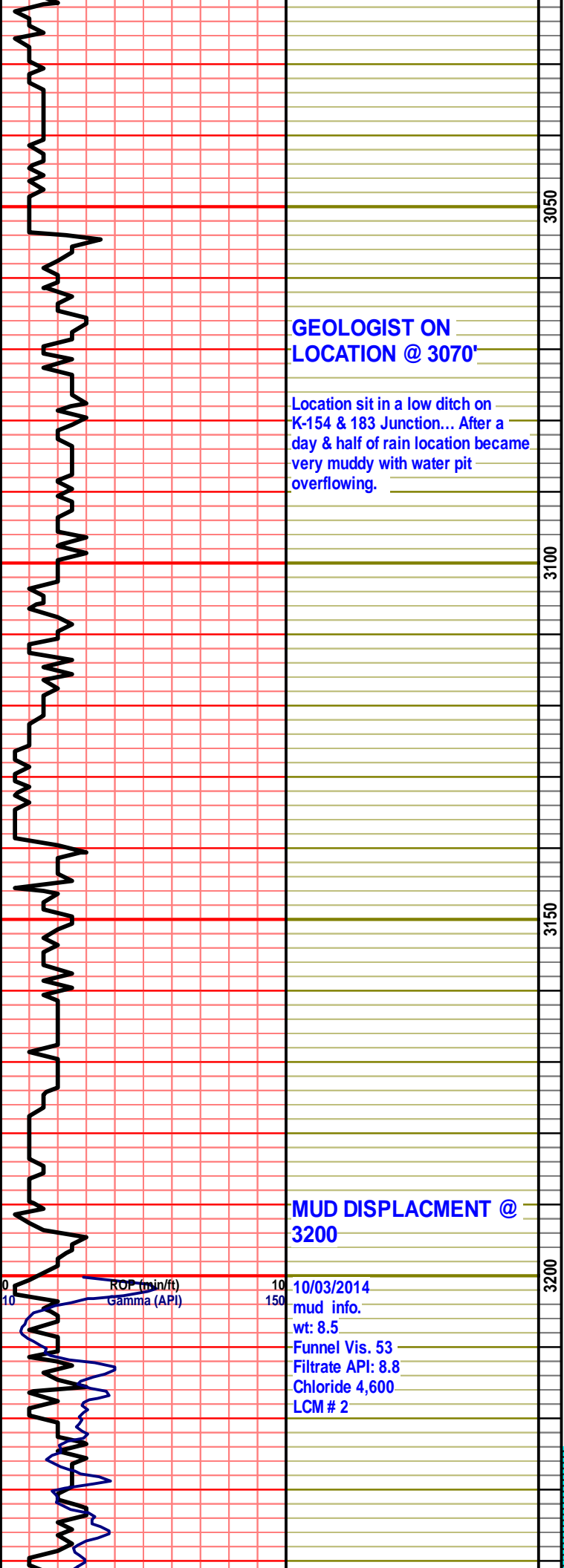


NO SAMPLES AVAILABLE

NO SAMPLES AVAILABLE

NO SAMPLES AVAILABLE





NO SAMPLES AVAILABLE

GEOLOGIST ON LOCATION @ 3070'

Location sit in a low ditch on K-154 & 183 Junction... After a day & half of rain location became very muddy with water pit overflowing.

NO SAMPLES AVAILABLE

MUD DISPLACMENT @ 3200

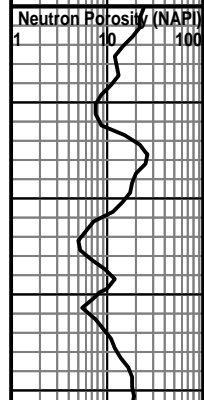
10/03/2014
 mud info.
 wt: 8.5
 Funnel Vis. 53
 Filtrate API: 8.8
 Chloride 4,600
 LCM # 2

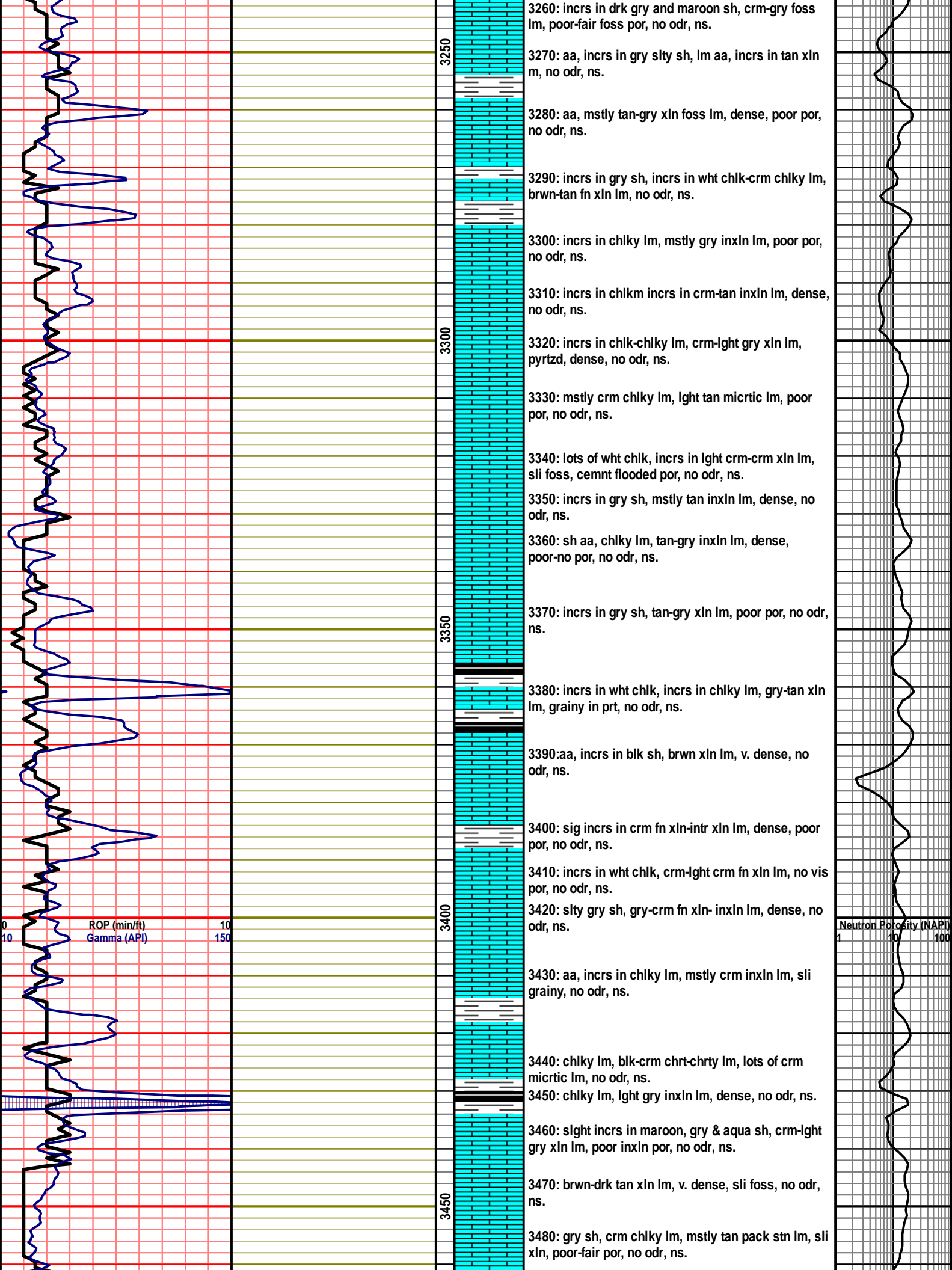
ROP (min/ft)
 Gamma (API)

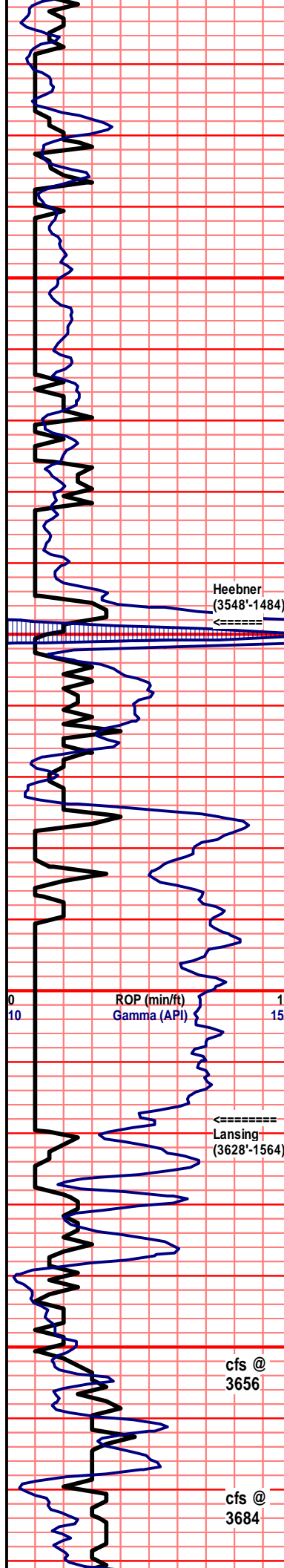
Neutron Porosity (NAPI)



3250: mstly gry sh, crm chlky lm, tan inxln lm, poor por, no odr, ns.







PUMP PRESSURE 1000+

Heebner
(3548'-1484)

PUMP PRESSURE 950+

ROP (min/ft)
Gamma (API)

10/04/2014
mud info.
wt: 8.9
Funnel Vis. 45
Filtrate API: 9.2
Chloride 4,900
LCM # 1 1/2

Lansing
(3628'-1564)

**Straight hole test 1°
Pipe strap 1' short.**

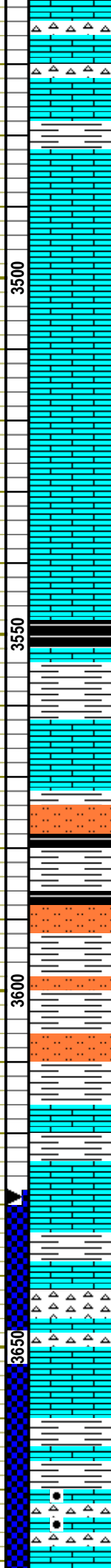
DST #1: 3659' - 3684' (LKC "A & B")
Recovered 40' mud.
IFP:28-29#/30" ISIP:209#/45"
FFP:29-30#/45" FSIP:113#/60"

cfs @
3656

30MIN: gry and maroon sh, lots of wht foss chrt, crm fn xln lm, no vis por, no odr, ns.
60MIN: same as thirty min sample, incrs in tan-gry inxln lm, poor-no inxln por, no odr, ns.

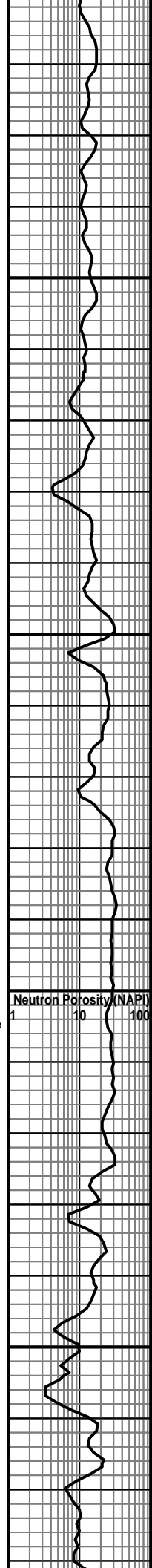
cfs @
3684

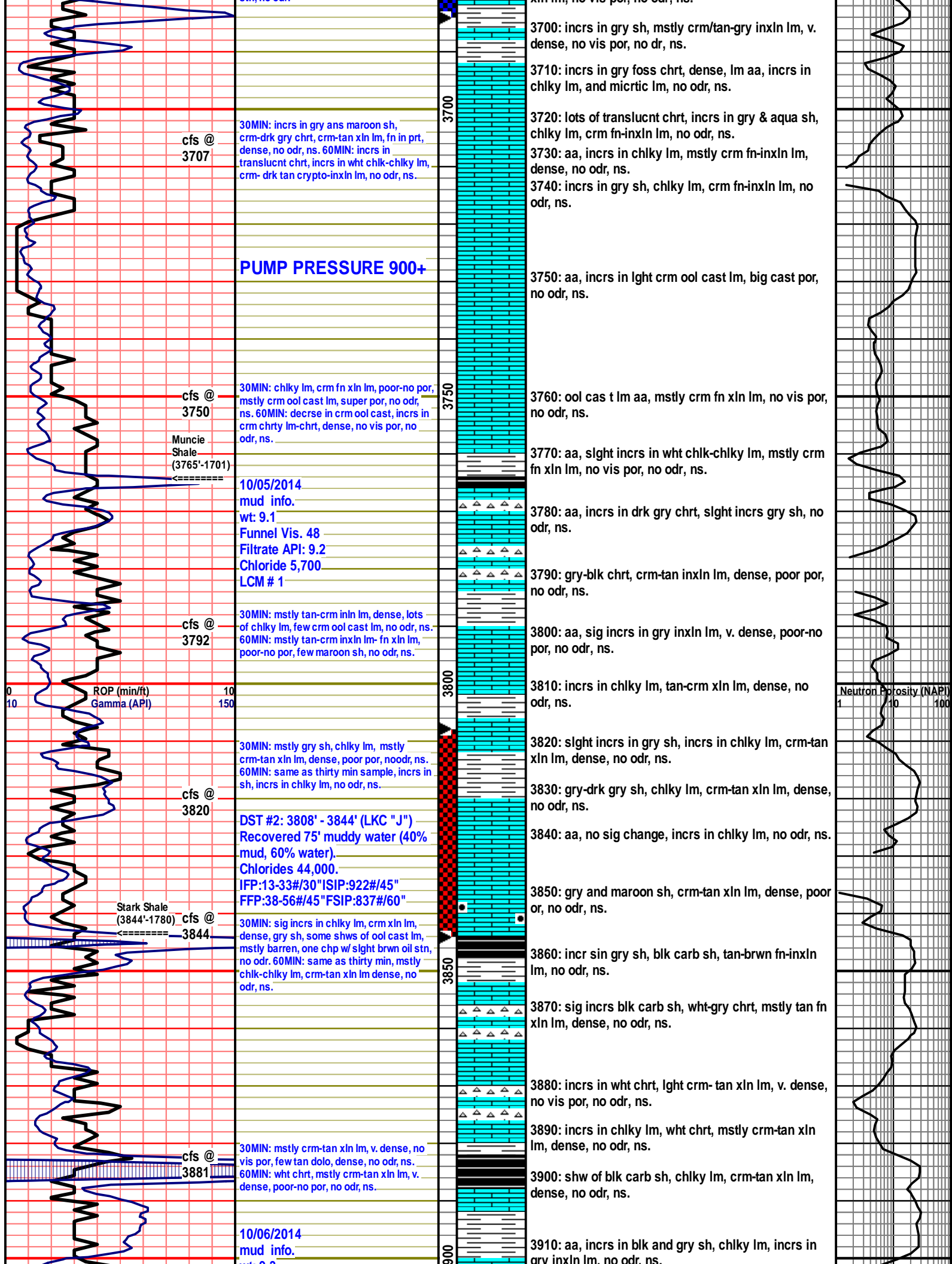
30MIN: gry sh, crm-gry chrt, crm fn xln lm w/ live oil stn, ssfo, poor por, no odr.
60MIN: shw of brwn-gry xln lm, poor por, decrse in crm xln lm, two chps w/ live oil stn, no odr.



3490: sig incrs in gry sh, chlky lm, crm-gry inxln lm, no odr, ns.
3500: mstly gry & maroon sh, crm-gry chrt, tan inxln lm, cemnt flooded, no odr, ns.
3510: mstly gry and maroon sh, lm aa, crm fn xln lm, dense, no odr, ns.
3520: incrs in gry sh, crm-tan xln lm, foss, poor-fair por, no odr, ns.
3530: aa. gry & maroon sh, crm foos-xln lm, poor-fair por, no odr, ns.
3540: aa, no sig change, no odr, ns.
3550: mstly gry, aqua & maroon sh, crm xln lm, no odr, ns.
3560: aa, no sig change, mstly drk gry sh, no odr, ns.
3570: sig incrs in blk carb sh, gry sh, lm aa, no odr, ns.
3580: lots of gry & aqua sh, chlky lm, crm-drk crm xln lm, no odr, ns.
3590: incrs in blk carb sh, crm chlky lm, crm xln lm, no odr, ns.
3600: sig incrs in crm-gry xln lm, no odr, ns.
3610: aa, gry sh, crm chlky-xln lm, no odr, ns.
3620: incrs in maroon & blk carb sh, chlky lm, crm-gry xln lm, no odr, ns.
3630: aa, incrs in gry, maroon & aqua sh, crm xln lm, no odr, ns.
3640: mstly gry, maroon and aqua sh.
3650: mstly gry slty, maroon and aqua sh, chlky lm, crm xln lm, no or, ns.
3660: crm-wht foss chrt, lots of slty gry sh, incrs in chlky lm, no odr, ns.
3670: gry sh, crm fn xln lm, brwn inxln lm, v. dense, no odr, ns.
3680: lots of lght brwn foss chrt, chlky lm, one crm fn xln lm, w/ edge live oil stn, no odr, ns.
3690: lots of gry sh, tan xln lm, w/ chrt nod, crm fn xln lm, no vis por, no odr, ns.

Neutron Porosity (NAPI)
1 10 100





cfs @
3707

30MIN: incrs in gry ans maroon sh, crm-drk gry chrt, crm-tan xln lm, fn in prt, dense, no odr, ns. 60MIN: incrs in translucent chrt, incrs in wht chlk-chlky lm, crm- drk tan crypto-inxln lm, no odr, ns.

3700: incrs in gry sh, mstly crm/tan-gry inxln lm, v. dense, no vis por, no dr, ns.
3710: incrs in gry foss chrt, dense, lm aa, incrs in chlky lm, and micrtic lm, no odr, ns.
3720: lots of translucent chrt, incrs in gry & aqua sh, chlky lm, crm fn-inxln lm, no odr, ns.
3730: aa, incrs in chlky lm, mstly crm fn-inxln lm, dense, no odr, ns.
3740: incrs in gry sh, chlky lm, crm fn-inxln lm, no odr, ns.

PUMP PRESSURE 900+

3750: aa, incrs in lght crm ool cast lm, big cast por, no odr, ns.

cfs @
3750

30MIN: chlky lm, crm fn xln lm, poor-no por, mstly crm ool cast lm, super por, no odr, ns. 60MIN: decrease in crm ool cast, incrs in crm chrt lm-chrt, dense, no vis por, no odr, ns.

3760: ool cas t lm aa, mstly crm fn xln lm, no vis por, no odr, ns.

Muncie Shale
(3765'-1701)

10/05/2014
mud info.
wt: 9.1
Funnel Vis. 48
Filtrate API: 9.2
Chloride 5,700
LCM # 1

3770: aa, slght incrs in wht chlk-chlky lm, mstly crm fn xln lm, no vis por, no odr, ns.

cfs @
3792

30MIN: mstly tan-crm inln lm, dense, lots of chlky lm, few crm ool cast lm, no odr, ns. 60MIN: mstly tan-crm inxln lm- fn xln lm, poor-no por, few maroon sh, no odr, ns.

3780: aa, incrs in drk gry chrt, slght incrs gry sh, no odr, ns.

3790: gry-blk chrt, crm-tan inxln lm, dense, poor por, no odr, ns.

ROP (min/ft)
Gamma (API)

Neutron Porosity (NAPI)

cfs @
3820

30MIN: mstly gry sh, chlky lm, mstly crm-tan xln lm, dense, poor por, noodr, ns. 60MIN: same as thirty min sample, incrs in sh, incrs in chlky lm, no odr, ns.

3800: aa, sig incrs in gry inxln lm, v. dense, poor-no por, no odr, ns.

3810: incrs in chlky lm, tan-crm xln lm, dense, no odr, ns.

3820: slght incrs in gry sh, incrs in chlky lm, crm-tan xln lm, dense, no odr, ns.

Stark Shale
(3844'-1780)

cfs @
3844

DST #2: 3808' - 3844' (LKC "J")
Recovered 75' muddy water (40% mud, 60% water).
Chlorides 44,000.
IFP:13-33#/30" ISIP:922#/45"
FFP:38-56#/45" FSIP:837#/60"

3830: gry-drk gry sh, chlky lm, crm-tan xln lm, dense, no odr, ns.

3840: aa, no sig change, incrs in chlky lm, no odr, ns.

3850: gry and maroon sh, crm-tan xln lm, dense, poor or, no odr, ns.

3860: incr sin gry sh, blk carb sh, tan-brwn fn-inxln lm, no odr, ns.

cfs @
3881

30MIN: mstly crm-tan xln lm, v. dense, no vis por, few tan dolo, dense, no odr, ns. 60MIN: wht chrt, mstly crm-tan xln lm, v. dense, poor-no por, no odr, ns.

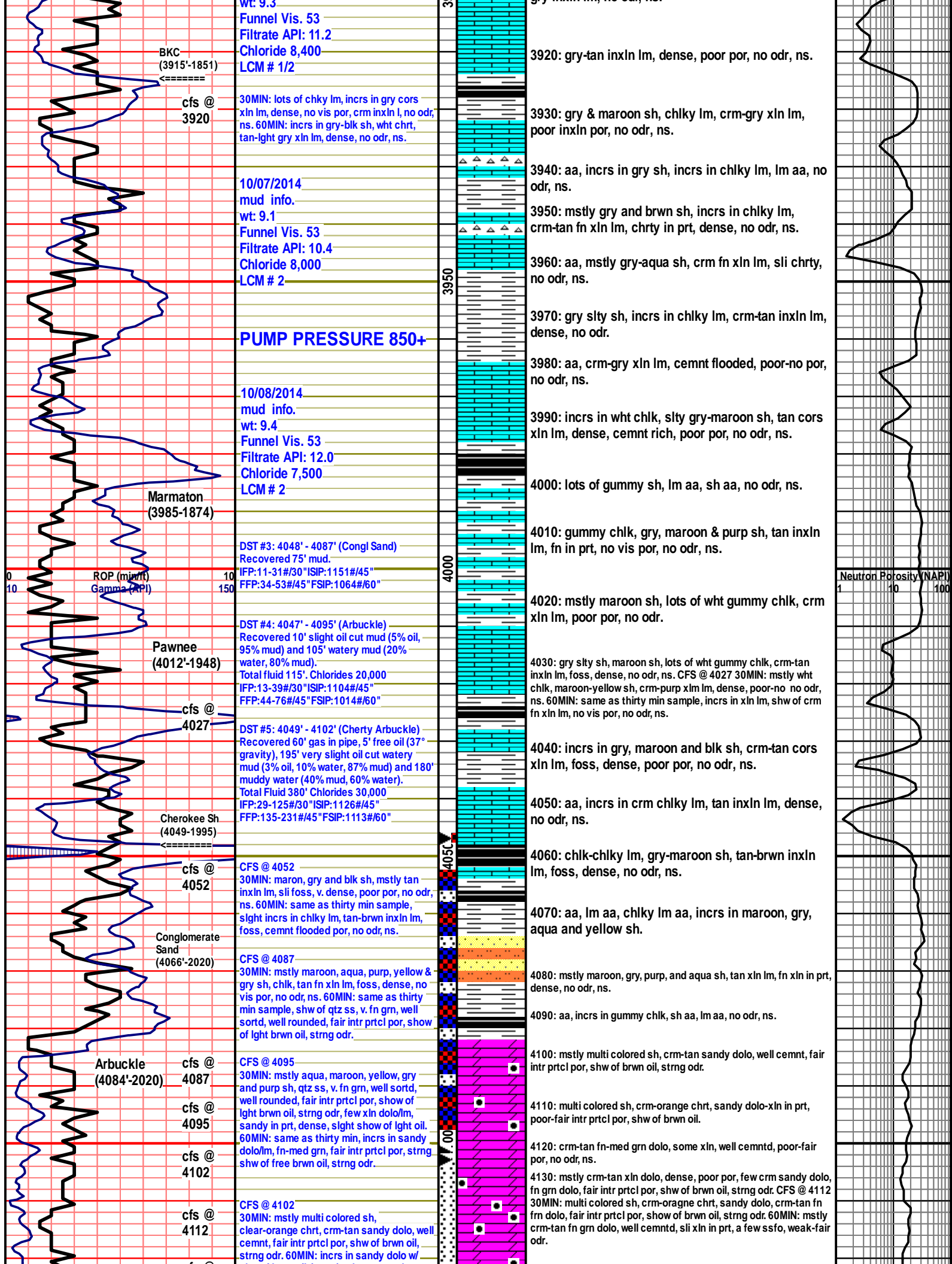
3870: sig incrs blk carb sh, wht-gry chrt, mstly tan fn xln lm, dense, no odr, ns.

3880: incrs in wht chrt, lght crm- tan xln lm, v. dense, no vis por, no odr, ns.

3890: incrs in chlky lm, wht chrt, mstly crm-tan xln lm, dense, no odr, ns.

10/06/2014
mud info.

3900: shw of blk carb sh, chlky lm, crm-tan xln lm, dense, no odr, ns.
3910: aa, incrs in blk and gry sh, chlky lm, incrs in grv inxln lm. no odr, ns.



BKC
(3915'-1851')

cfs @
3920

Wt: 2.3
Funnel Vis: 53
Filtrate API: 11.2
Chloride 8,400
LCM # 1/2

30MIN: lots of chky lm, incrs in gry cors xln lm, dense, no vis por, crm inxln l, no odr, ns. 60MIN: incrs in gry-blk sh, wht chrt, tan-lght gry xln lm, dense, no odr, ns.

10/07/2014
mud info.
wt: 9.1

Funnel Vis: 53
Filtrate API: 10.4
Chloride 8,000
LCM # 2

PUMP PRESSURE 850+

10/08/2014
mud info.
wt: 9.4

Funnel Vis: 53
Filtrate API: 12.0
Chloride 7,500
LCM # 2

Marmaton
(3985'-1874')

DST #3: 4048' - 4087' (Congl Sand)
Recovered 75' mud.
IFP:11-31#30" ISIP:1151#45"
FFP:34-53#45" FSIP:1064#60"

ROP (min)
Gamma (API)

Pawnee
(4012'-1948')

DST #4: 4047' - 4095' (Arbuckle)
Recovered 10' slight oil cut mud (5% oil, 95% mud) and 105' watery mud (20% water, 80% mud).
Total fluid 115'. Chlorides 20,000
IFP:13-39#30" ISIP:1104#45"
FFP:44-76#45" FSIP:1014#60"

cfs @
4027

DST #5: 4049' - 4102' (Cherty Arbuckle)
Recovered 60' gas in pipe, 5' free oil (37° gravity), 195' very slight oil cut watery mud (3% oil, 10% water, 87% mud) and 180' muddy water (40% mud, 60% water).
Total Fluid 380' Chlorides 30,000
IFP:29-125#30" ISIP:1126#45"
FFP:135-231#45" FSIP:1113#60"

Cherokee Sh
(4049'-1995')

cfs @
4052

CFS @ 4052
30MIN: maron, gry and blk sh, mstly tan inxln lm, sli foss, v. dense, poor por, no odr, ns. 60MIN: same as thirty min sample, slight incrs in chlky lm, tan-brwn inxln lm, foss, cemnt flooded por, no odr, ns.

Conglomerate Sand
(4066'-2020)

CFS @ 4087
30MIN: mstly maroon, aqua, purp, yellow & gry sh, chl, tan fn xln lm, foss, dense, no vis por, no odr, ns. 60MIN: same as thirty min sample, shw of qtz ss, v. fn grn, well sortd, well rounded, fair intr prtcl por, show of lght brwn oil, strng odr.

Arbuckle
(4084'-2020)

cfs @
4087

CFS @ 4095
30MIN: mstly aqua, maroon, yellow, gry and purp sh, qtz ss, v. fn grn, well sortd, well rounded, fair intr prtcl por, show of lght brwn oil, strng odr, few xln dolo/lm, sandy in prt, dense, slight show of lght oil. 60MIN: same as thirty min, incrs in sandy dolo/lm, fn-med grn, fair intr prtcl por, strng shw of free brwn oil, strng odr.

cfs @
4095

cfs @
4102

cfs @
4112

CFS @ 4102
30MIN: mstly multi colored sh, clear-orange chrt, crm-tan sandy dolo, well cemnt, fair intr prtcl por, shw of brwn oil, strng odr. 60MIN: incrs in sandy dolo w/

3920: gry-tan inxln lm, dense, poor por, no odr, ns.

3930: gry & maroon sh, chlky lm, crm-gry xln lm, poor inxln por, no odr, ns.

3940: aa, incrs in gry sh, incrs in chlky lm, lm aa, no odr, ns.

3950: mstly gry and brwn sh, incrs in chlky lm, crm-tan fn xln lm, chrt in prt, dense, no odr, ns.

3960: aa, mstly gry-aqua sh, crm fn xln lm, sli chrt, no odr, ns.

3970: gry slty sh, incrs in chlky lm, crm-tan inxln lm, dense, no odr.

3980: aa, crm-gry xln lm, cemnt flooded, poor-no por, no odr, ns.

3990: incrs in wht chl, slty gry-maroon sh, tan cors xln lm, dense, cemnt rich, poor por, no odr, ns.

4000: lots of gummy sh, lm aa, sh aa, no odr, ns.

4010: gummy chl, gry, maroon & purp sh, tan inxln lm, fn in prt, no vis por, no odr, ns.

4020: mstly maroon sh, lots of wht gummy chl, crm xln lm, poor por, no odr.

4030: gry slty sh, maroon sh, lots of wht gummy chl, crm-tan inxln lm, foss, dense, no odr, ns. CFS @ 4027 30MIN: mstly wht chl, maroon-yellow sh, crm-purp xln lm, dense, poor-no odr, ns. 60MIN: same as thirty min sample, incrs in xln lm, shw of crm fn xln lm, no vis por, no odr, ns.

4040: incrs in gry, maroon and blk sh, crm-tan cors xln lm, foss, dense, poor por, no odr, ns.

4050: aa, incrs in crm chlky lm, tan inxln lm, dense, no odr, ns.

4060: chl-chlky lm, gry-maroon sh, tan-brwn inxln lm, foss, dense, no odr, ns.

4070: aa, lm aa, chlky lm aa, incrs in maroon, gry, aqua and yellow sh.

4080: mstly maroon, gry, purp, and aqua sh, tan xln lm, fn xln in prt, dense, no odr, ns.

4090: aa, incrs in gummy chl, sh aa, lm aa, no odr, ns.

4100: mstly multi colored sh, crm-tan sandy dolo, well cemnt, fair intr prtcl por, shw of brwn oil, strng odr.

4110: multi colored sh, crm-orange chrt, sandy dolo-xln in prt, poor-fair intr prtcl por, shw of brwn oil.

4120: crm-tan fn-med grn dolo, some xln, well cemntd, poor-fair por, no odr, ns.

4130: mstly crm-tan xln dolo, dense, poor por, few crm sandy dolo, fn grn dolo, fair intr prtcl por, shw of brwn oil, strng odr. CFS @ 4112 30MIN: multi colored sh, crm-oragne chrt, sandy dolo, crm-tan fn frn dolo, fair intr prtcl por, show of brwn oil, strng odr. 60MIN: mstly crm-tan fn grn dolo, well cemntd, sli xln in prt, a few ssfo, weak-fair odr.

Neutron Porosity (NAPI)
1 10 100

CFS @ 4122

shw of brwn oil, incrs in clr-orange chrt, strng odr.

DST #6: 4103' - 4122' (Arbuckle)
Recovered 1/2' free oil and 550' muddy water (5% mud, 95% water). Chlorides 32,000
IFP:15-119#/30" ISIP:1310#/45"
FFP:123-272#/45" FSIP:1303#/60"

DST #7: 4123' - 4177' (Arbuckle)
Recovered 2920' muddy water.
IFP:664-1188#/15" ISIP:1350#/30"
FFP:1213-1350#/15" FSIP:1355#/30"

cfs @

4170

30MIN: mstly tan xln dolo, lots of crm-tan grainy dolo, fn-med grn, fair intr prtcl por, some vuggy, strng shw of brwn oil, strng odr. 60MIN: same as thirty min shw, incrs in lght crm fn xln dolo, shw of wht chrt, grainy dolo aa w/ strng show of brwn oil, strng odr.

cfs @

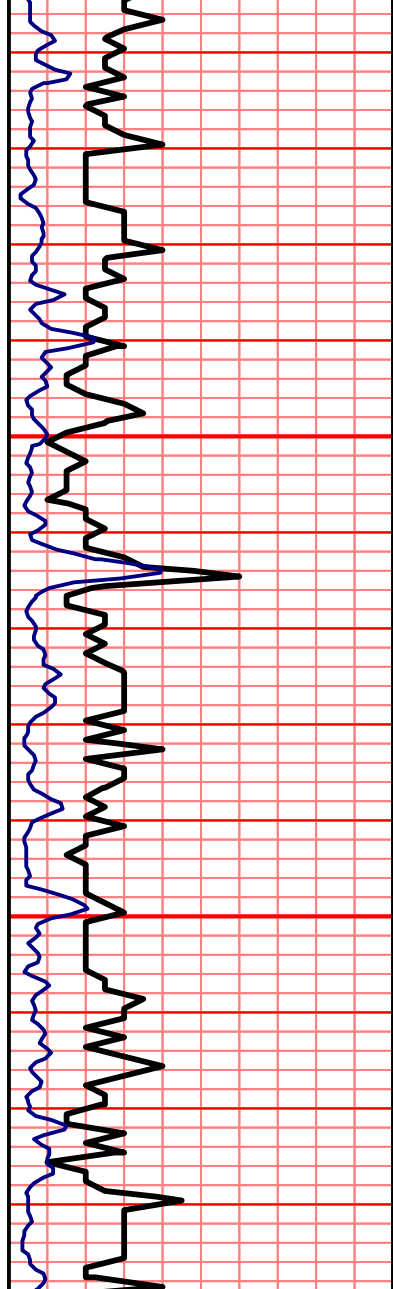
4177

Straight hole test 1 1/4".

10/09/2014
mud info.
wt: 9.2
Funnel Vis. 49
Filtrate API: 11.2
Chloride 7,100
LCM # 3

PUMP PRESSURE 950+

ROP (min/ft)
Gamma (API)



4140: aa, xln dolo, few crm xln dolo grainy in prt, w/ ssfo, stns, fair odr. CFS @ 412230MIN: crm-tan fn-med grn dolo, some xln, well cemntd, poor-fair por, tan sandy dolo, well cemntd aa, shw of brwn oil, strng odr. 60MIN: mstly crm-lght brwn fn grn dolo, fair intr prtcl por, shw of brwn oil, incrs in crm-tan xln dolo, dense, ns.

4150: aa, mstly crm xln dolo, fn-med grn dolo, poor-fair intr prtcl por, some w/ stns, fair odr.

4160: shw of tan-drk crm xln dolo grainy in prt, fair vuggy-intr prtcl por, shw of lght brwn oil, strng odr.

4170: incrs in tan fn-med grn dolo, fair intr prtcl por, show of brwn oil, strng odr.

4180: mstly tan med grn dolo, xln in prt, well cemntd, brwn oil stns, fair odr.

4190: crm-tan xln dolo, some grainy, poor por, some w/ vuggy por shw of brwn oil, weak odr. CFS @ 4117 30MIN: lots of wht carb mud, lght crm v. fn-fn grn dolo, fair intr prtcl por, wht chrt, fair odr, nsfo. 60MIN: lots of carb mud, v. fn-fn grn dolo, fair intr prtcl por, crm-tan xln dolo, dense, ns, v. weak odr.

4200: incrs in wht chrt, wht fn grn-crm syscros dolo, fair por, no odr, ns.

4210: aa, sig incrs in brwn xln dolo, prtly grainy, dense, one chp w/ ssfo (uphole?), no odr.

4220: mstly tan-brwn xln dolo, wht chrt, cr, fn grn dolo, v. dense, npoor por, no odr, ns.

4230: aa, incrs in crm fn xln dolo, slght incrs in crm chrt, dense, no odr, ns.

4240: mstly tan-brwn xln dolo, pyrtzd, wht chrt, no odr, ns.

4250: lots of tan-crm xln dolo, v. dense, no vis por, no odr, ns.

4260: aa, no sig change, incrs in wht fn grn dolo, fair cemnt, no odr, ns.

4270: tan-crm inxln dolo, dense, no vis por, no odr, ns.

4280: aa, incrs in wht chrt, no vis por, no odr, ns.

4290: tan-lght tan fn grn dolo, sli xln, dense, no vis por, no odr, ns.

4300: aa, incrs in crm-tan chrt-chrty dolo, dense, no odr, ns.

4310: aa, incrs in lght brwn fn dolo, fair intr prtcl por, shw of wht carb mud, no odr, ns.

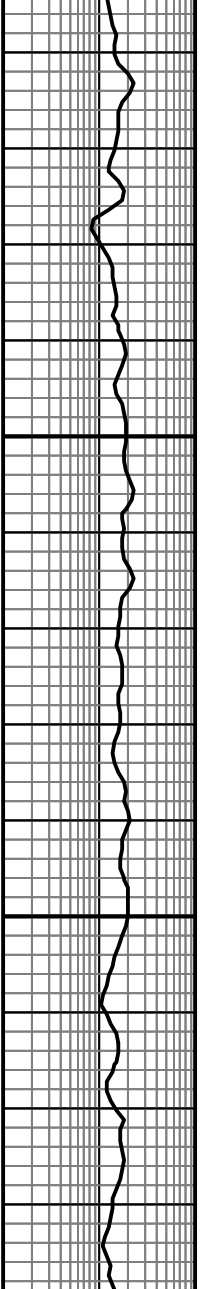
4320: aa, slght incrs in brwn syscros dolo, wht fn grn dolo, fair por, no odr, ns.

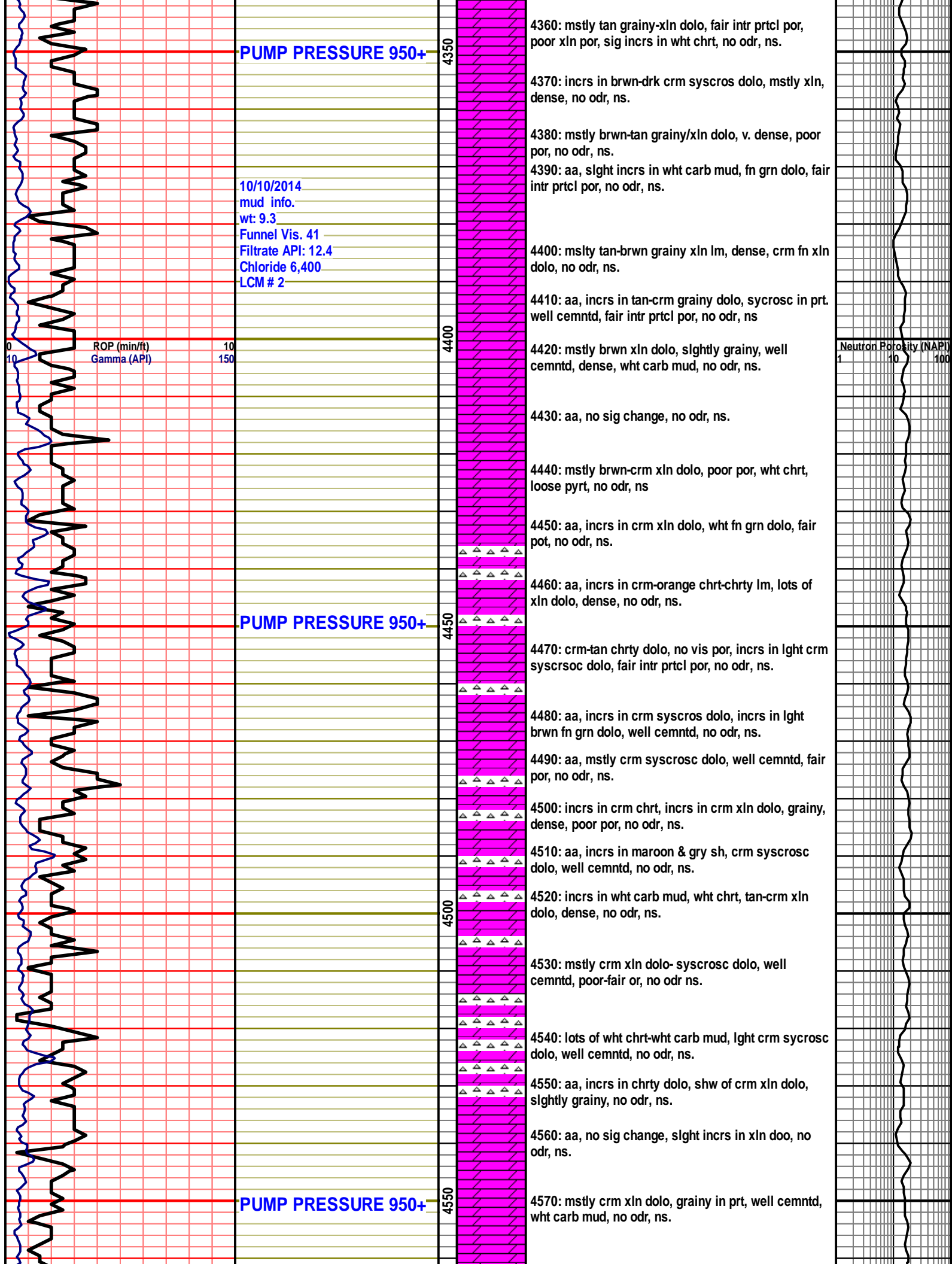
4330: slght incrs in gry sh, mstly tan grainy dolo, well cemntd, xln in prt, wht chrt, no odr, ns.

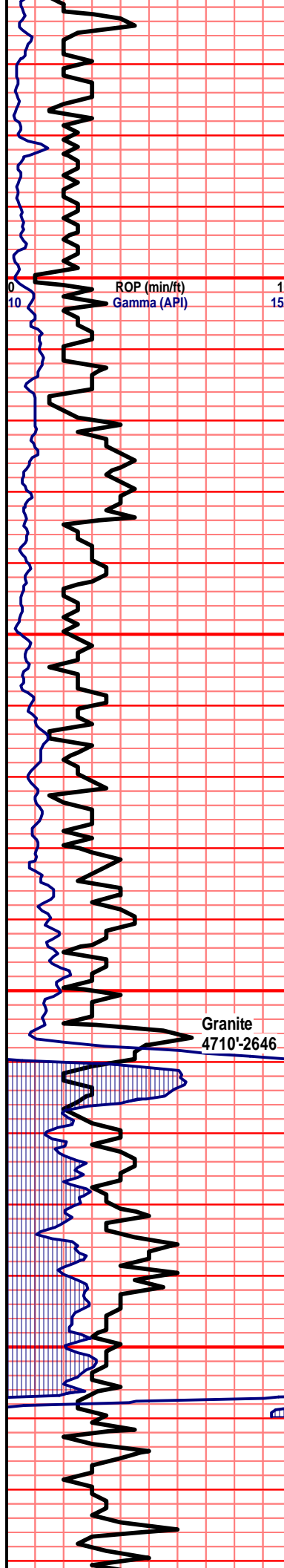
4340: incrs in maroon, aqua and gry sh, incrs in wht-clr chrt, dolo aa, no odr, ns.

4350: aa, lots of gry sh, mstly tan xln dolo, v. dense, no odr, ns.

Neutron Porosity (NAPI)







ROP (min/ft)

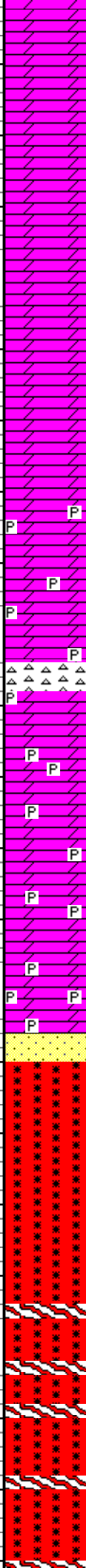
Gamma (API)

10/11/2014
 mud info.
 wt: 9.3
 Funnel Vis. 65
 Filtrate API: 10.4
 Chloride 7,000
 LCM # 4

Granite
 4710'-2646

Straight hole test 1 1/2".

4600
 4650
 4700
 4750



4580: aa, incrs in crm syscrosco dolo, v. well cemntd, well cemntd, no odr, ns.

4590: aa, no sig change, no odr, ns.

4600: incrs in wht carb mud, mstly crm xln dolo, syscrosco in prt, well cemntd, no odr, ns.

4610: slight incrs in gry & aqua sh, dolo aa, no odr, ns.

4620: mstly crm xln dolo, dense, poor por, no odr, ns.

4630: aa, incrs in syscrosco dolo, well cemntd, no odr, ns.

4640: aa, incrs in syscrosco-sandy dolo, no odr, ns.

4650: sandy dolo aa, v. well cementd, loose pyrt, no odr, ns.

4660: aa, incrs in loose pyrt-pyrtzd dolo, no odr, ns.

4670: incrs in orange tent crm chrty dolo, sandy in prt, loose pyrt, no odr, ns.

4680: aa, sig incrs in loose pyrt, no odr, ns.

4690: mstly crm-lght tan xln dolo, slghty syscrosco, lots of loose pyrt, no odr, ns.

4700: aa, slght decrse in loose pyrt, slght incrs in syscrosco dolo, no odr, ns.

4710: aa, mstly crm xln dolo, well cemntd, dense, no odr, ns.

4720: aa, incrs in wht fn grn dolo, incrs in loose pyrt, purp sh, no odr, ns.

4730: show of clr qtz ss, med-cors grn, well cementd, well rounded, ns, shw of pink granite, feldspar, biotite, qtz, dense, no odr, ns.

4740: mstly pink-orange granite, vis k-feldspar, biotite, qtz, no vis por, no odr ns.

4750: aa, granite, incrs in gry, purp & aqua sh, no odr, ns.

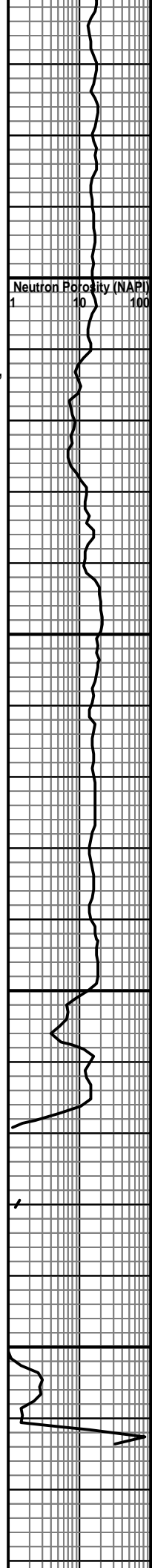
4760: pink-orange, k-feldspar, qtz, biotite, no vis por, no odr, ns.

4770: aa, no odr, ns.

4780: pink-orange, k-feldspar, qtz, biotite, no vis por, lots of calco pyrt, no odr, ns.

4790: granite as above, no sig change, no odr, ns.

Neutron Porosity (NAPI)





RTD 4790'-2726

60MIN: mstly pink-orange, k-feldspar, qtz,
biotite, no vis por, lots of calco pyrt, no odr,
ns.

4800



ROP (min/ft) 10

Gamma (API) 150

Neutron Porosity (NAPI)

1 10 100