



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1235939
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1235939

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
Estimated Production Per 24 Hours	Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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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

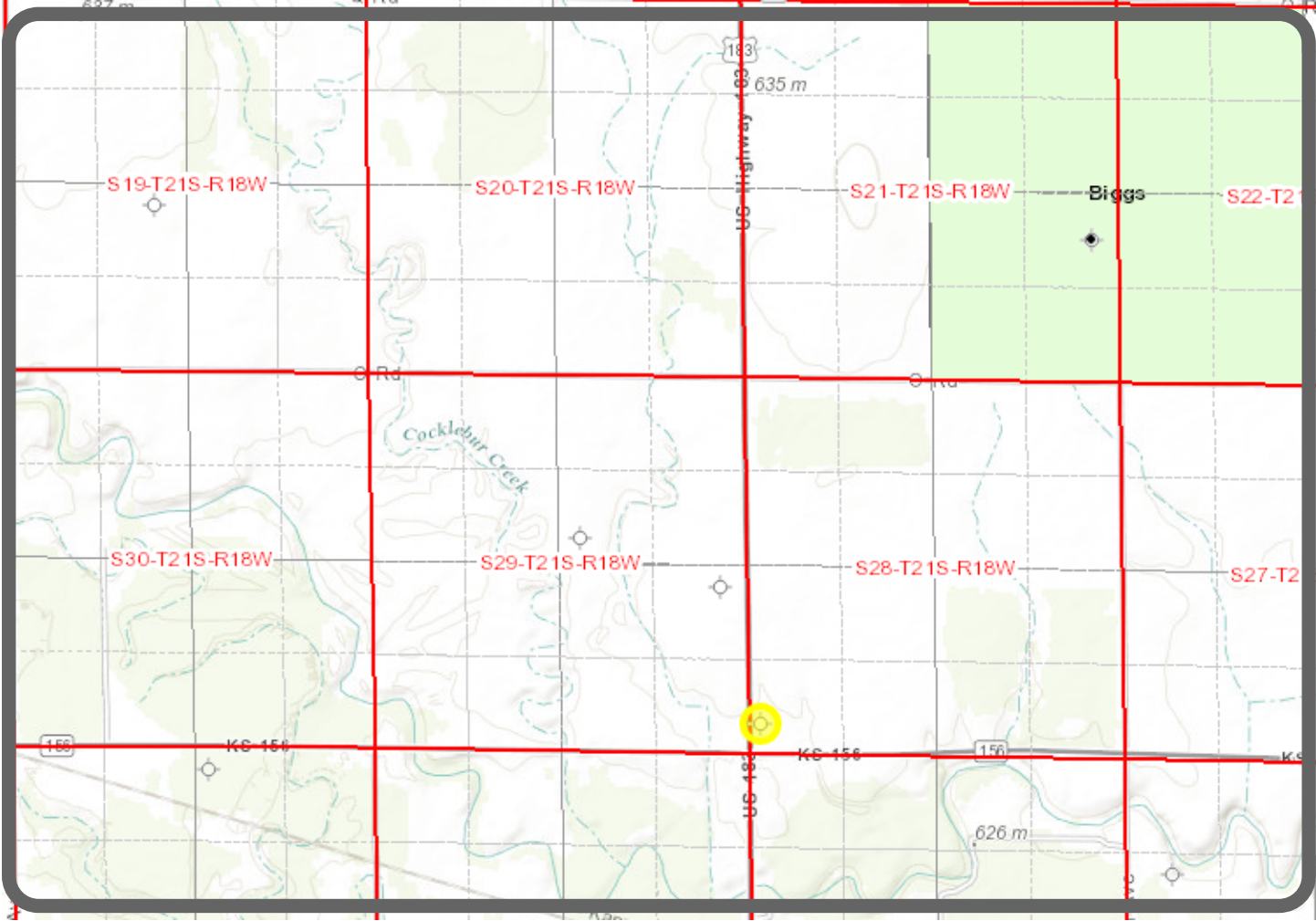
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

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.


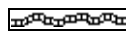
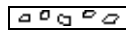


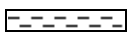







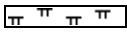
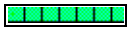
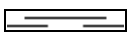
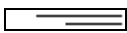
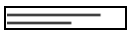



Well Log Surveys BY: NABORS. Compensated Denisty/ Neutron Log, Dual Induction.

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
 - [M] Moldic
 - [O] Organic
 - [P] Pinpoint

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

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

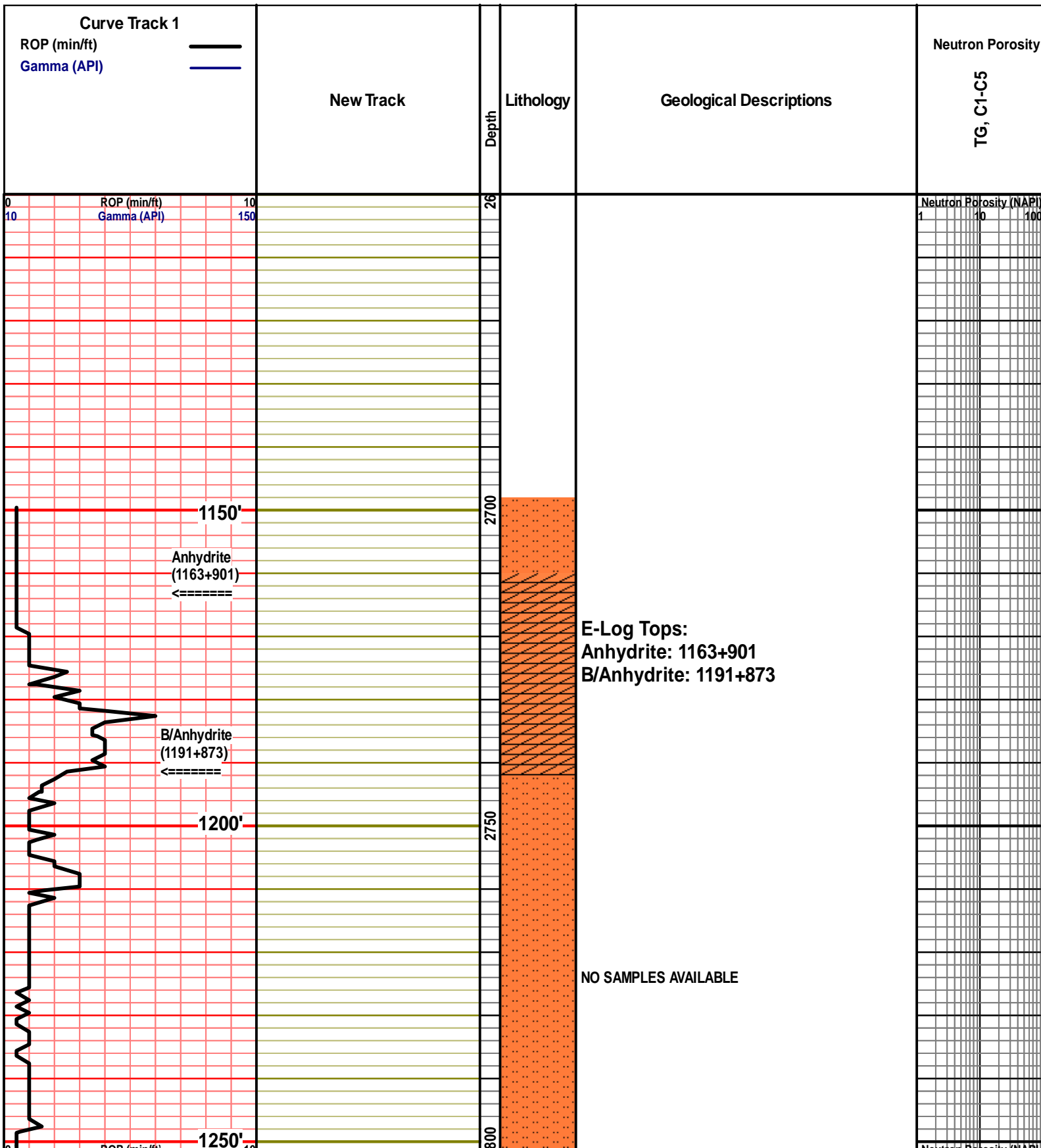
OIL SHOW
[X] aiming_1

- [●] Even
- [○] Spotted
- [○] Ques
- [D] Dead

- INTERVAL**
- [■] Core
 - [■] Dst

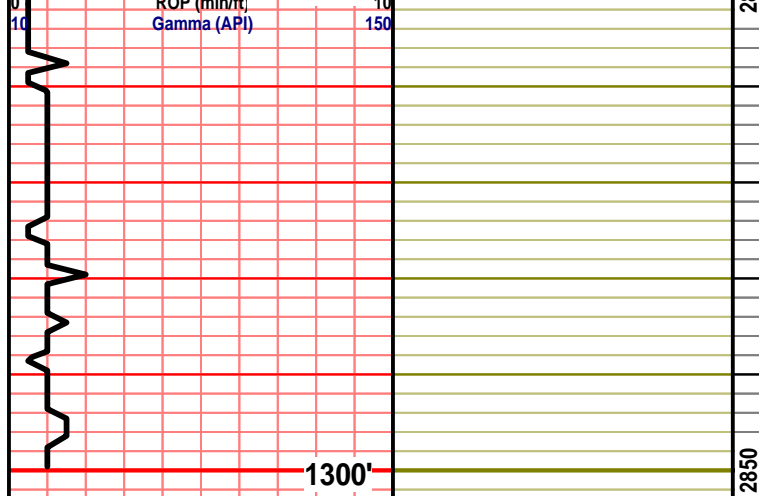
- [■] Dst_alt
- [■] Dst

- EVENT**
- [▽] Rft
 - [▶] Sidewall



ROP (min/ft)
Gamma (API)

10
150



1300'

2850

NO SAMPLES AVAILABLE

2900

NO SAMPLES AVAILABLE

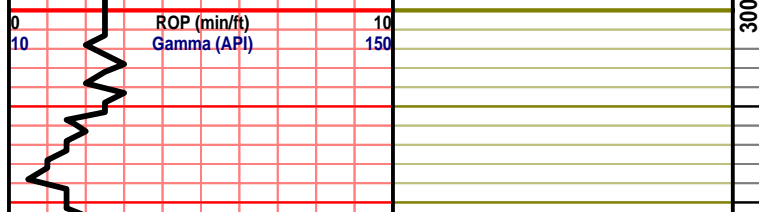
2950

NO SAMPLES AVAILABLE

3000

ROP (min/ft)
Gamma (API)

10
150

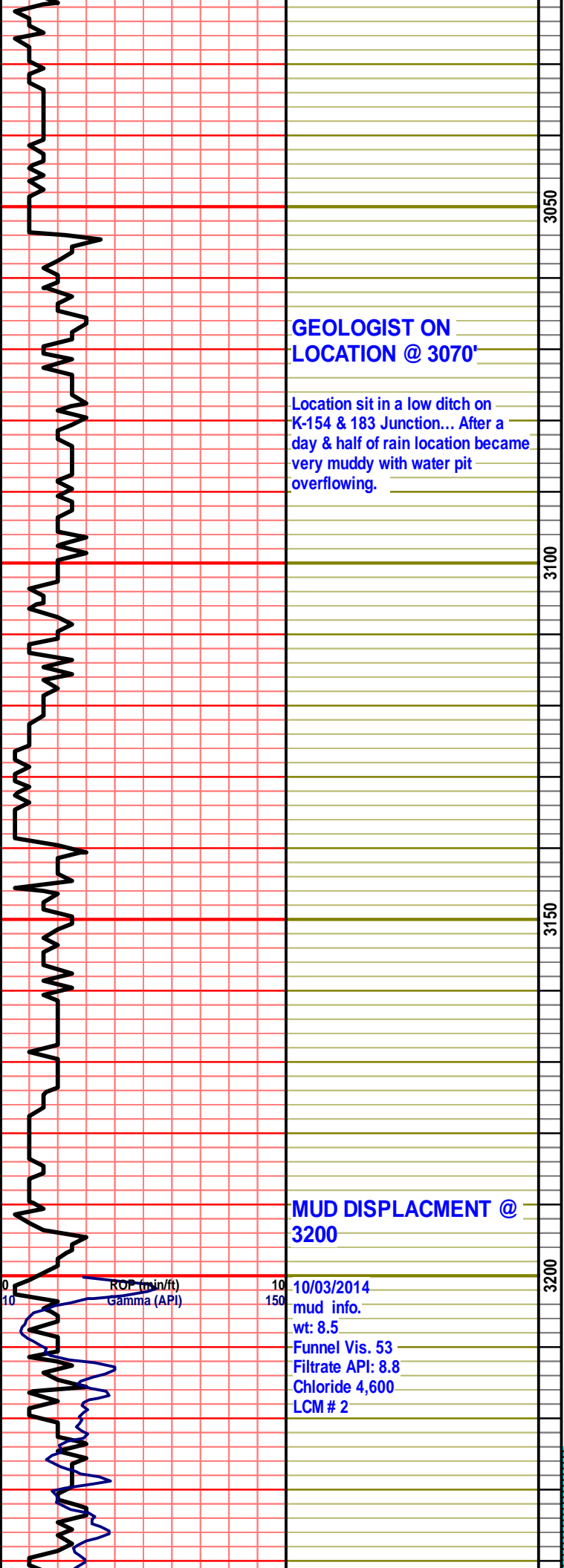


Neutron Porosity (NAP)

1 10 100

Neutron Porosity (NAP)

1 10 100



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.

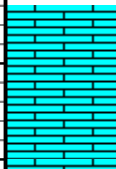
NO SAMPLES AVAILABLE

MUD DISPLACMENT @ 3200

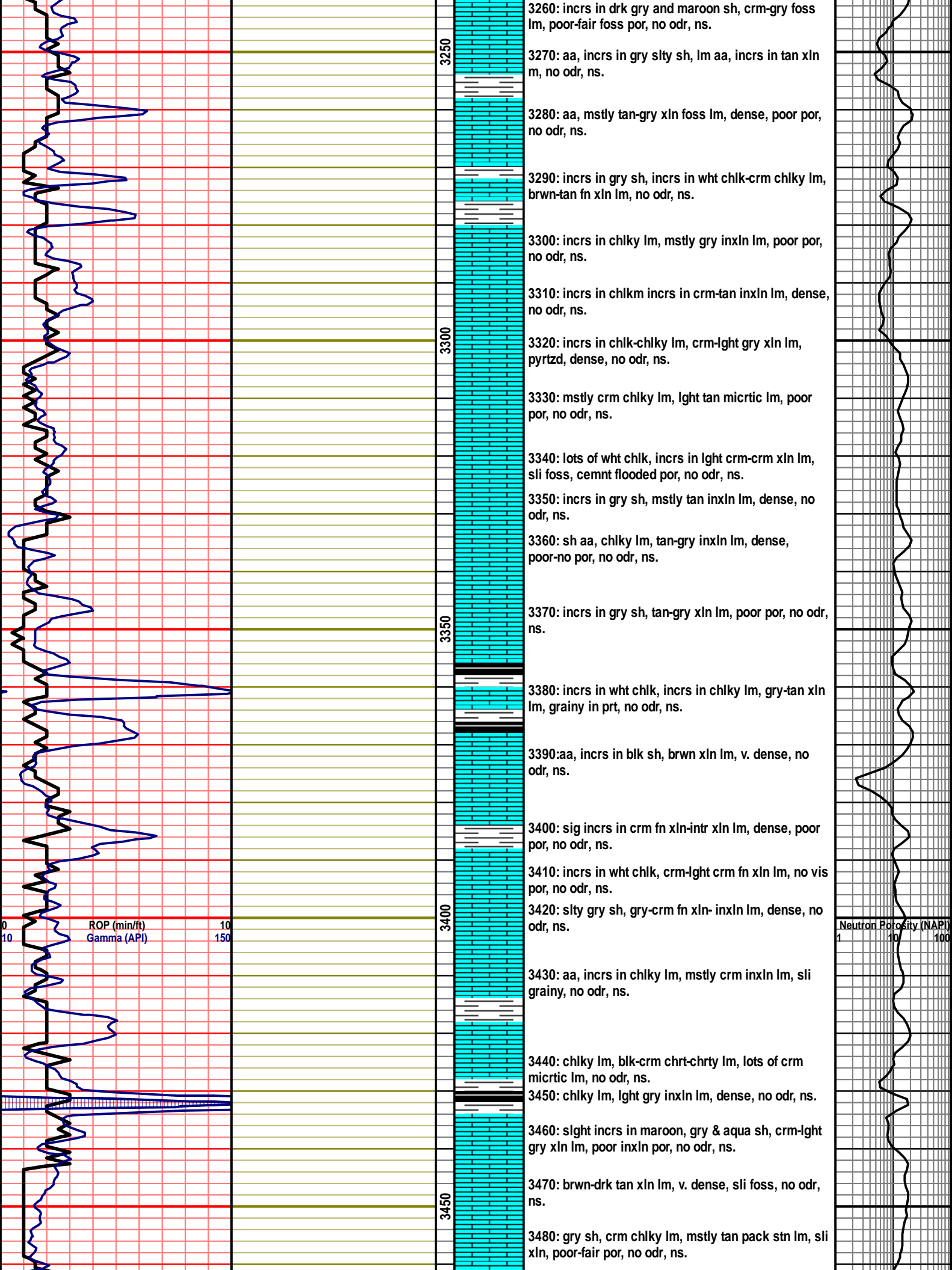
10/03/2014
 mud info.
 wt: 8.5
 Funnel Vis. 53
 Filtrate API: 8.8
 Chloride 4,600
 LCM # 2

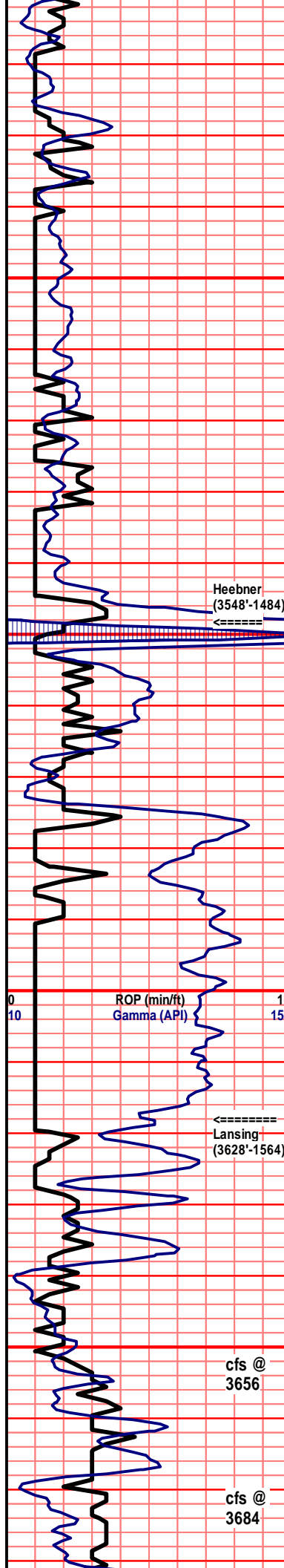
ROP (min/ft)
 Gamma (API)

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.**

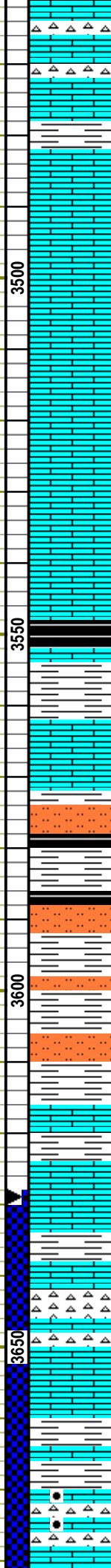
DST #1: 3659' - 3684' (LKC "A & B") Recovered 40' mud.
IFP:28-29#/30"ISIP:209#/45"
FFP:29-30#/45"FSIP:113#/60"

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.

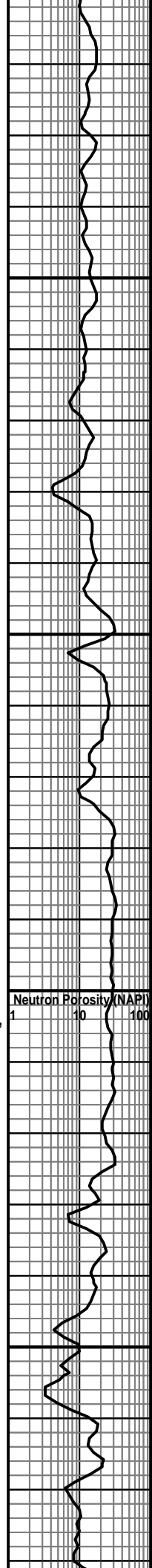
cfs @
3684

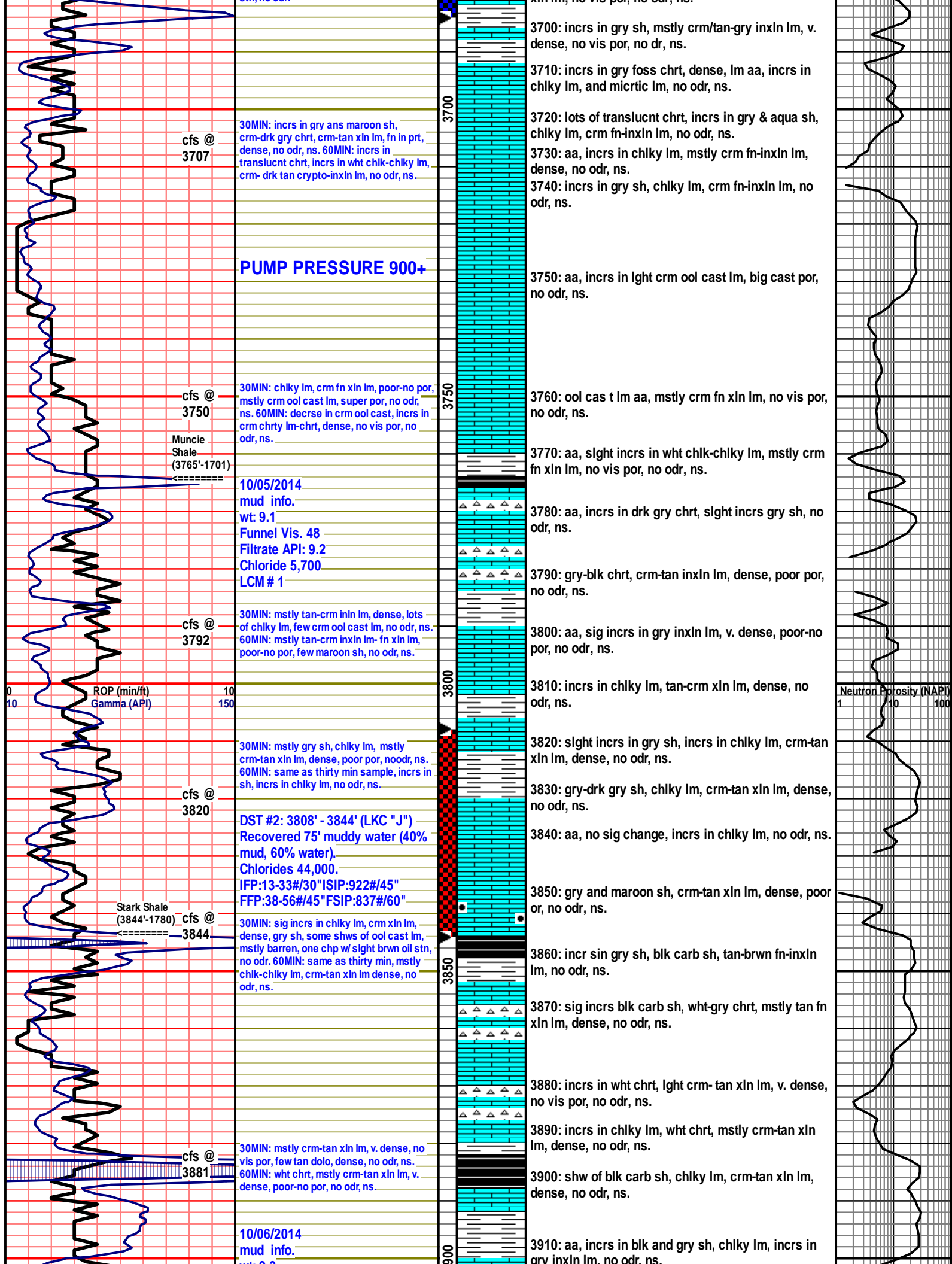
30MIN: gry sh, crm-gry chrt, crm fn xln lm w/ live oil stn, ssfo, poor por, no odr.
60MIN: shw of brwn-gry xln lm, poor por, decrse in crm xln lm, two chps w/ live oil stn, no odr.



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 translucnt chrt, incrs in wht chlk-chlky lm, crm- drk tan crypto-inxln lm, no odr, ns.

PUMP PRESSURE 900+

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 chrtly lm-chrt, dense, 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

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.

ROP (min/ft)
Gamma (API)

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.

Stark Shale
(3844'-1780)

cfs @
3844

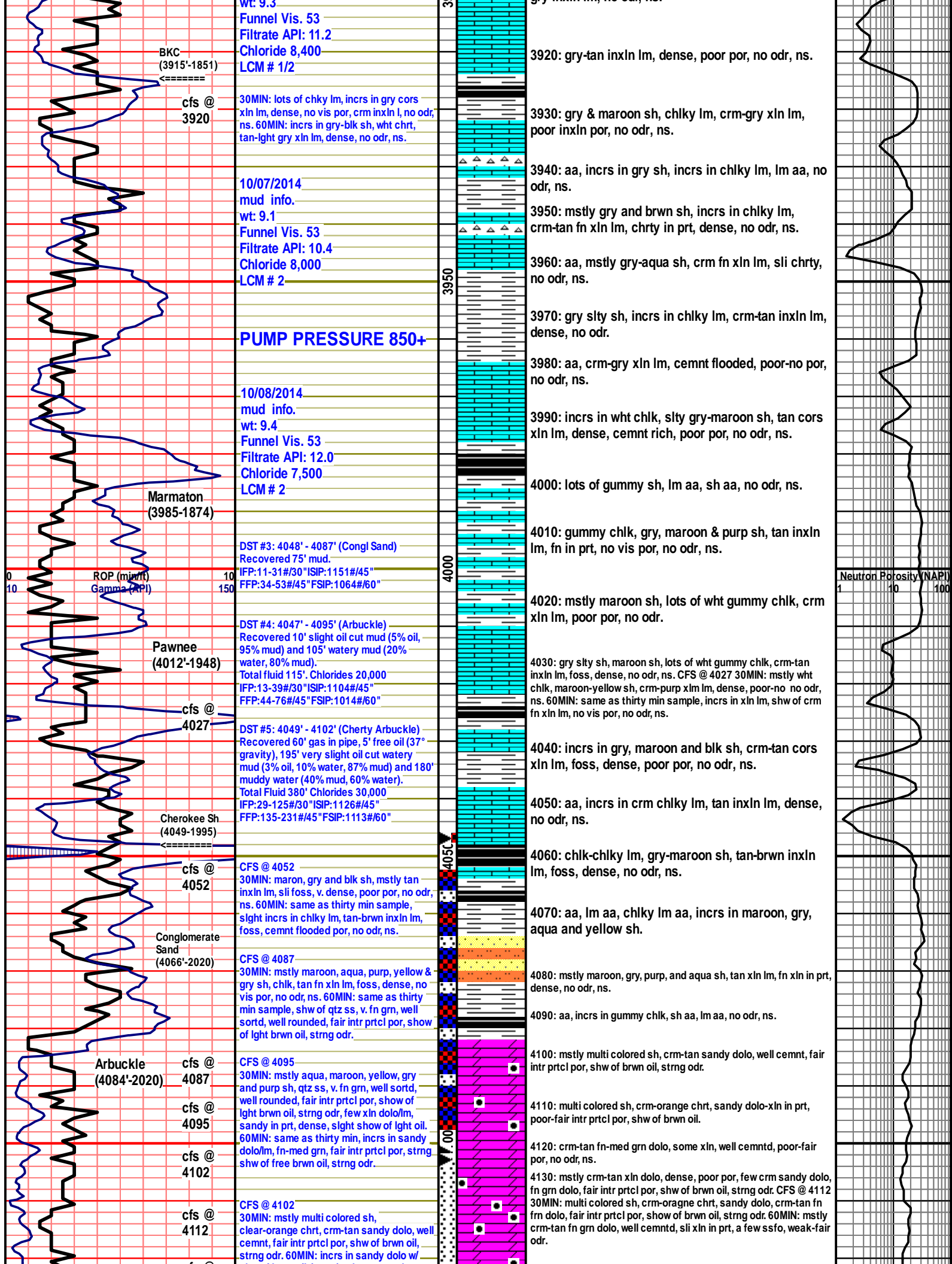
DST #2: 3808' - 3844' (LKC "J")
Recovered 75' muddy water (40% mud, 60% water).
Chlorides 44,000.
IFP:13-33#/30" ISIP:922#/45"
FFP:38-56#/45" FSIP:837#/60"

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.

10/06/2014 mud info.

Neutron Porosity (NAPI)



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

cfs @ 4177

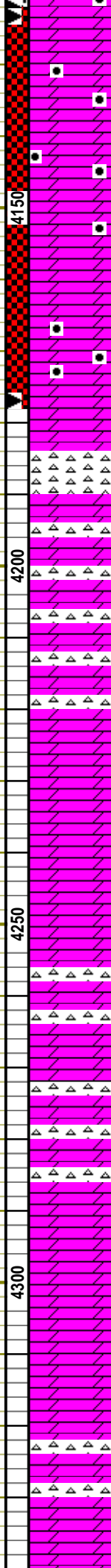
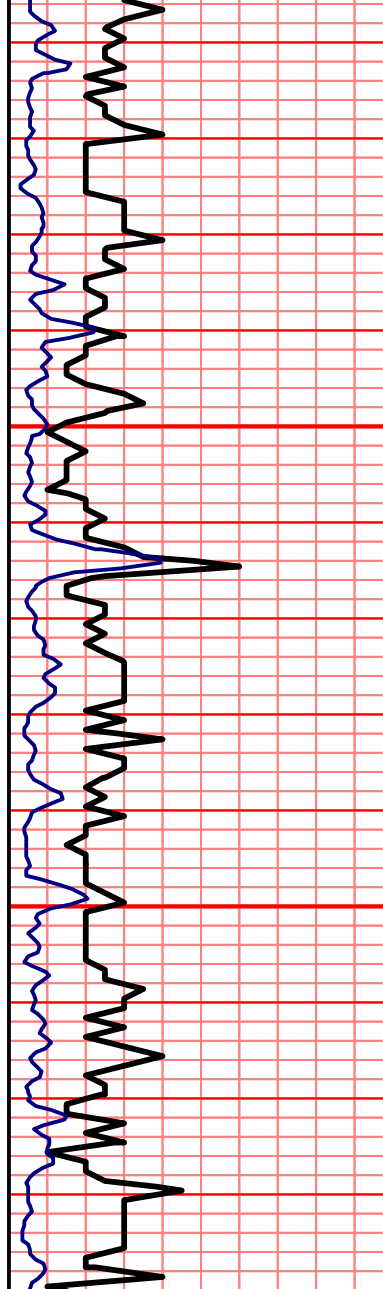
30MIN: mstly tan xln dolo, lots of crm-tan grainy dolo, fn-med grn, fair intr prtcl por, some vuggy, strng shw of brwn oil, strng odr. 60MIN: same as thirty min shw, incrs in lght crm fn xln dolo, shw of wht chrt, grainy dolo aa w/ strng show of brwn oil, strng odr.

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.

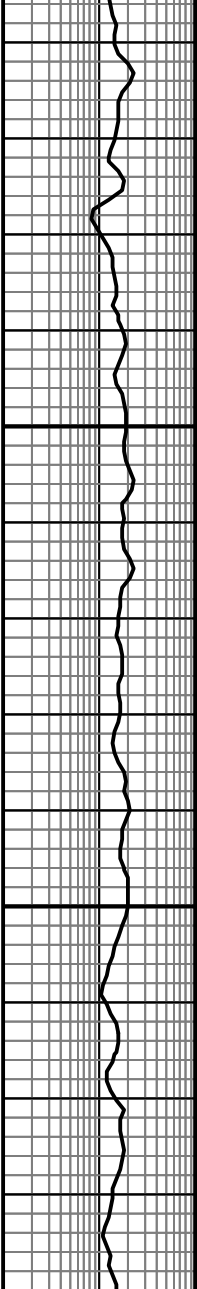
4320: aa, slght incrs in brwn syscros dolo, wht fn grn dolo, fair por, no odr, ns.

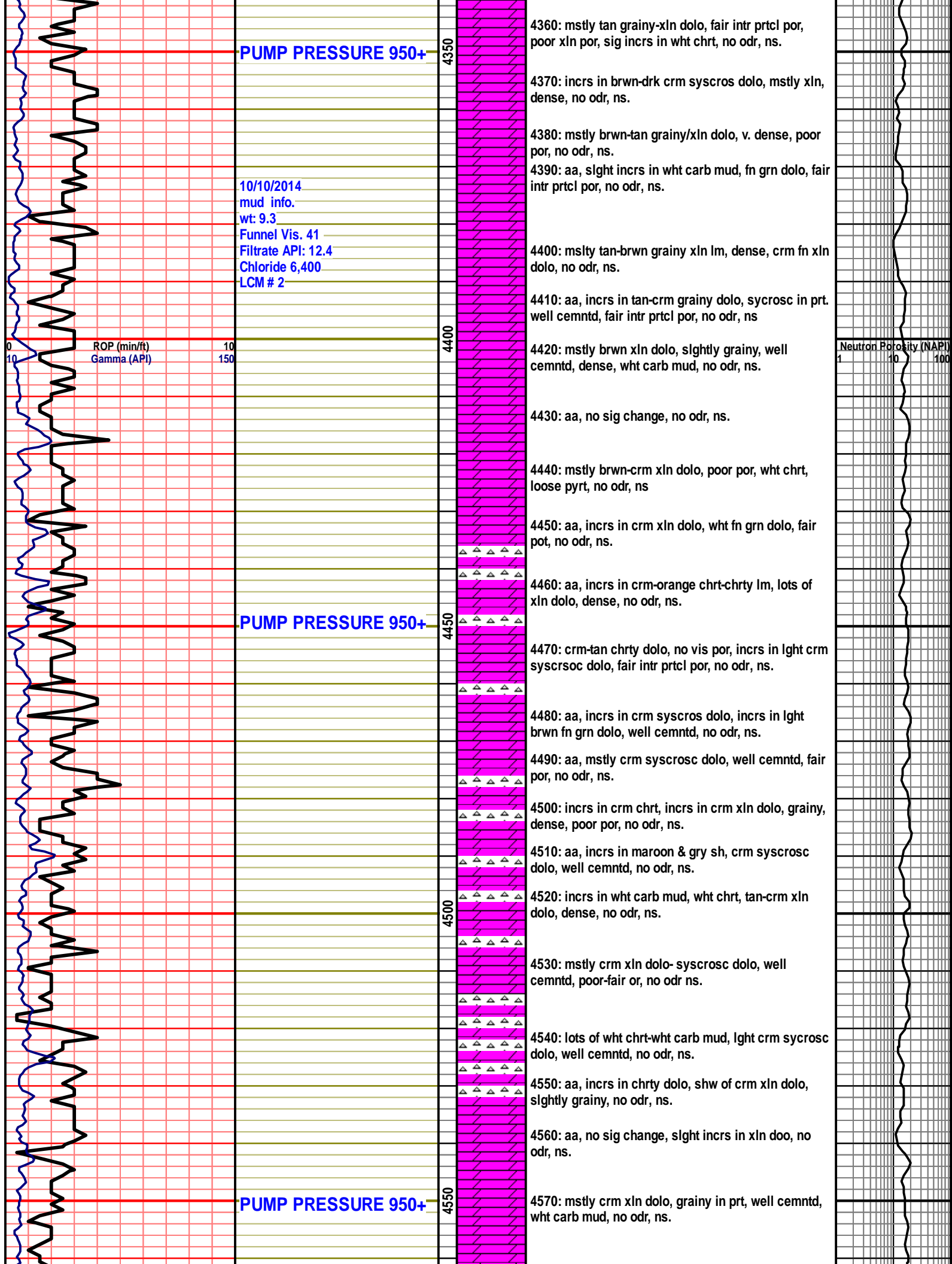
4330: slght incrs in gry sh, mstly tan grainy dolo, well cemntd, xln in prt, wht chrt, no odr, ns.

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)





PUMP PRESSURE 950+

10/10/2014
 mud info.
 wt: 9.3
 Funnel Vis. 41
 Filtrate API: 12.4
 Chloride 6,400
 LCM # 2

ROP (min/ft)
 Gamma (API)

Neutron Porosity (NAPI)

4360: mstly tan grainy-xln dolo, fair intr prtcl por, poor xln por, sig incrs in wht chrt, no odr, ns.

4370: incrs in brwn-drk crm syscros dolo, mstly xln, dense, no odr, ns.

4380: mstly brwn-tan grainy/xln dolo, v. dense, poor por, no odr, ns.

4390: aa, slight incrs in wht carb mud, fn grn dolo, fair intr prtcl por, no odr, ns.

4400: msly tan-brwn grainy xln lm, dense, crm fn xln dolo, no odr, ns.

4410: aa, incrs in tan-crm grainy dolo, syscros in prt. well cemntd, fair intr prtcl por, no odr, ns

4420: mstly brwn xln dolo, slightly grainy, well cemntd, dense, wht carb mud, no odr, ns.

4430: aa, no sig change, no odr, ns.

4440: mstly brwn-crm xln dolo, poor por, wht chrt, loose pyrt, no odr, ns

4450: aa, incrs in crm xln dolo, wht fn grn dolo, fair pot, no odr, ns.

PUMP PRESSURE 950+

4460: aa, incrs in crm-orange chrt-chrty lm, lots of xln dolo, dense, no odr, ns.

4470: crm-tan chrty dolo, no vis por, incrs in lght crm syscros dolo, fair intr prtcl por, no odr, ns.

4480: aa, incrs in crm syscros dolo, incrs in lght brwn fn grn dolo, well cemntd, no odr, ns.

4490: aa, mstly crm syscros dolo, well cemntd, fair por, no odr, ns.

4500: incrs in crm chrt, incrs in crm xln dolo, grainy, dense, poor por, no odr, ns.

4510: aa, incrs in maroon & gry sh, crm syscros dolo, well cemntd, no odr, ns.

4520: incrs in wht carb mud, wht chrt, tan-crm xln dolo, dense, no odr, ns.

4530: mstly crm xln dolo- syscros dolo, well cemntd, poor-fair or, no odr ns.

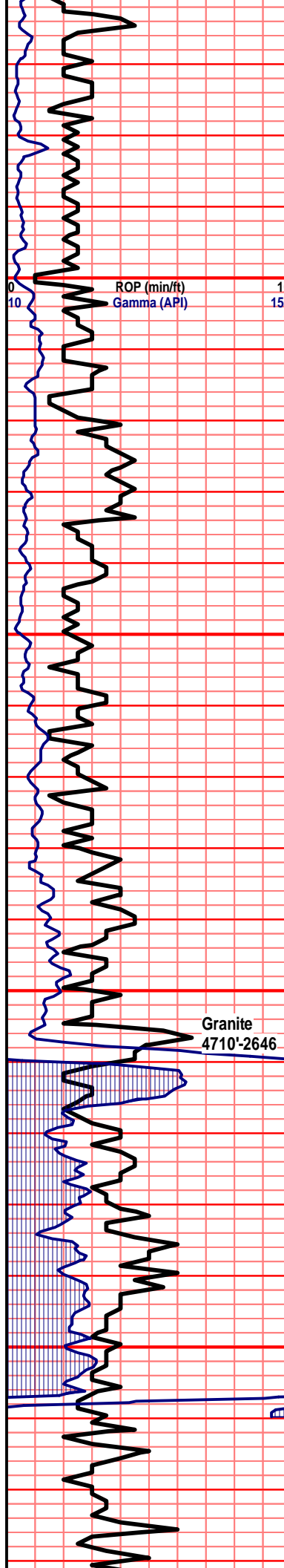
4540: lots of wht chrt-wht carb mud, lght crm syscros dolo, well cemntd, no odr, ns.

4550: aa, incrs in chrty dolo, shw of crm xln dolo, slightly grainy, no odr, ns.

4560: aa, no sig change, slight incrs in xln doo, no odr, ns.

PUMP PRESSURE 950+

4570: mstly crm xln dolo, grainy in prt, well cemntd, wht carb mud, no odr, ns.



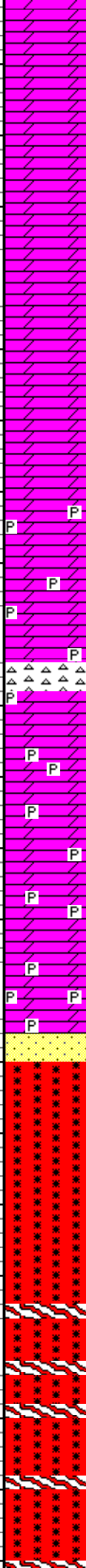
ROP (min/ft)
Gamma (API)

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 chrt 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, slight decrse in loose pyrt, slight 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.

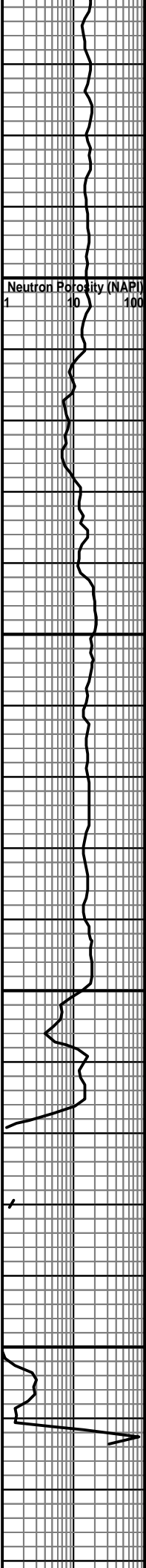
4760: pink-orange, k-feldspar, qtz, biotite, no vis por, no odr, ns.

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



0	ROP (min/ft)	10
10	Gamma (API)	150

Neutron Porosity (NAPI)		
1	10	100



#1 Seymour-Van Meter

385' FSL & 185' FWL

55' N & 145' W of SW SW Section 28-21S-18W

Pawnee County, Kansas

API# 15-145-21786-0000

Elevation: GL: 2055', KB: 2064'

Sample Tops			Ref. Well
Anhydrite	1165'	+899	+7
B/Anhydrite	1193'	+871	+2
Heebner	3549'	-1485	+17
Lansing	3628'	-1564	+14
Muncie Shale	3769'	-1705	+15
Stark Shale	3844'	-1780	+18
Hush	3884'	-1820	+18
BKC	3918'	-1854	+17
Marmaton	3938'	-1874	+14
Pawnee	4012'	-1948	+20
Fort Scott	4041'	-1977	+21
Cherokee Shale	4052'	-1988	+18
Conglomerate Sand	4071'	-2007	+20
Arbuckle	4090'	-2026	+18
Granite	4717'	-2653	N/A
RTD	4790'	-2726	

Seymour - Van Meter
ALLIED OIL & GAS SERVICES, LLC 063936

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
 SOUTHLAKE, TEXAS 76092

SERVICE POINT: great Bend

DATE <u>10-12-14</u>	SEC. <u>28</u>	TWP. <u>21</u>	RANGE <u>18</u>	CALLED OUT	ON LOCATION <u>3:30 am</u>	JOB START <u>10:30 am</u>	JOB FINISH <u>11:30 am</u>
LEASE <u>seymour van meter</u>		WELL # <u>1</u>		LOCATION <u>183 1/2 E NW chtr</u>		COUNTY <u>powell</u>	STATE <u>TX</u>
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)							

CONTRACTOR <u>Southwin 2</u>	OWNER <u>same</u>
TYPE OF JOB <u>PTA</u>	
HOLE SIZE <u>7 7/8</u>	T.D.
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2</u>	DEPTH <u>4100</u>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>H2O</u>	
EQUIPMENT	
PUMP TRUCK # <u>366</u>	CEMENTER <u>Charles King</u>
	HELPER <u>Ben Newell</u>
BULK TRUCK # <u>610-170</u>	DRIVER <u>Kevin Wingo</u>
BULK TRUCK #	DRIVER

CEMENT		
AMOUNT ORDERED	<u>210 cu 60/90 41 gal</u>	
	<u>5 fls</u>	
COMMON	@	
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC	@	
<u>210 5X 60/90 41%</u>	@ <u>18.92</u>	<u>3,973.20</u>
<u>1/4 210</u>	@ <u>53</u>	<u>157.41</u>
	@	
<u>Materials Total</u>		<u>4,130.61</u>
	<u>Disc 20%</u>	<u>826.12</u>
	@	
	@	
	<u>Service</u>	
HANDLING	<u>213.53</u>	@ <u>2.48</u>
		<u>529.55</u>
MILEAGE	<u>9.06 x 29 x</u>	@ <u>2.75</u>
		<u>722.54</u>

REMARKS:

1st plug @ 4100' 10 BBI H2O mix 50%
 displace 3.5 H2O @ 51.46 mud 2nd
 plug @ 1190' 10 BBI H2O mix 90%
 displace 3.5 H2O @ 10.18 mud 3rd plug
 @ 480' 10 BBI H2O mix 90% displace
 3.5 BBI H2O 4th plug @ 60' mix
 20% plug not hole 30% & mouse
 hole 20%

DEPTH OF JOB	<u>4100</u>	
PUMP TRUCK CHARGE	<u>2600.41</u>	
EXTRA FOOTAGE	@	
MILEAGE Hum	<u>29</u>	@ <u>7.70</u>
		<u>223.30</u>
MANIFOLD	@	
	<u>Hum 29</u>	@ <u>4.40</u>
		<u>127.60</u>
	@	

CHARGE TO: Ritchie explosive
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 4,203.45
 Disc 20% 840.69

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL -0-
 Disc 0%

Thank you!
 To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)	_____
TOTAL CHARGES	<u>8,334.96</u>
DISCOUNT	<u>20% 1,666.81</u>
	<u>6,667.35</u>
IF PAID IN 30 DAYS	

PRINTED NAME William Sanders
 SIGNATURE William Sanders

PS

Seymour - Van Meter
ALLIED OIL & GAS SERVICES, LLC 063930
 Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
 SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Great Bend

9-30-14 DATE	SEC. 28	TWP. 21	RANGE 18	CALLED OUT	ON LOCATION 3:00am	JOB START 10:00am	JOB FINISH 11:00 am
<i>Seymour Van Meter</i> LEASE	WELL # 1	LOCATION <i>Ranched 1/2 E of 183 NW</i>		COUNTY <i>Lawrence</i>	STATE <i>Ka.</i>		
OLD OR NEW (Circle one) <input checked="" type="checkbox"/> NEW		<i>date</i>					

CONTRACTOR *Southwind #2*
 TYPE OF JOB *Surface*
 HOLE SIZE *12 1/4* T.D. *1170*
 CASING SIZE *8 5/8* 24 DEPTH *1168*
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT *42.90*
 CEMENT LEFT IN CSG. *42.90*
 PERFS.
 DISPLACEMENT *H2O 71.69 BBL*

EQUIPMENT
 PUMP TRUCK CEMENTER *Charles King*
 #597 HELPER *Ben Newell*
 BULK TRUCK
 #599 DRIVER *Kevin Weighouse*
 BULK TRUCK
 #870-844 DRIVER *Kevin Edley*

OWNER *Name*
 CEMENT
 AMOUNT ORDERED *400 M 65/35 67 gal*
31 cc
175 M class 31 cc 21 gal
 COMMON 175 @ 17.90 3.132.50
 POZMIX @
 GEL 329 @ .50 164.50
 CHLORIDE 1537 @ 1.10 1.690.70
 ASC @
400 65/35 + 6% @ 19.88 7.952.00
+ 3% " @
Materials Total 12,939.70
Disc 20% 2,587.94
 @
 @
Service
 @
 HANDLING 642.54 @ 2.48 1,593.50
 MILEAGE 27.60 x 29 x 2.75 2,261.10

REMARKS:

Rig Ran 1168' 8 5/8 cas B rot circ 21
Rig mud drop ball pump throat
@ 700 psi hook to head pump 3
BBL H2O mix 400 M head 175 M drill
shut down Release plug displace
71.69 BBL H2O plug drill head
float did hold cement drill circ

DEPTH OF JOB *1168*
 PUMP TRUCK CHARGE 2213.75
 EXTRA FOOTAGE @
 MILEAGE *HVM 29* @ 7.70 223.80
 MANIFOLD @ 275.00 275.00
HVM 29 @ 4.40 127.60
 @

CHARGE TO: *Ritchie explorative*
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 6,634.35
Disc 20% 1,326.85

PLUG & FLOAT EQUIPMENT

Afu insert 447.00 447.00
Rubber plug @ 131.00 131.00
 @
 @
 @
 @

TOTAL 578.00
Disc 0%

thank you!
 To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) _____
 TOTAL CHARGES 20,151.95
 DISCOUNT ~~20%~~ 3,914.79 (20%)
 IF PAID IN 30 DAYS

PRINTED NAME *K William Sanders*
 SIGNATURE *K William Sanders*

10,237.16

✓