

Adam Eldani Geo-Log/Report

WellSight Systems

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

Measured Depth Log

Well Name: #1 Blake 29 A
Location: SEC 29-TOWNSHIP 21S- RANGE 18W PAWNEE COUNTY
License Number: API 15-145-21785 Region: C.K.U. KANSAS
Spud Date: 09/16/2014 Drilling Completed: 09/26/2014
Surface Coordinates: 2295' FNL & 2301' FEL
15' N & 9' E of SW SW NE Section 29-21S-18W
Bottom Hole Deviation Surveys are detailed through out the Geo-Report.
Coordinates:
Ground Elevation (ft): 2063' K.B. Elevation (ft): 2072'
Logged Interval (ft): 3200' To: 4500' Total Depth (ft): 4498'
Formation: Mississippian
Type of Drilling Fluid: Mud-Co Chemical

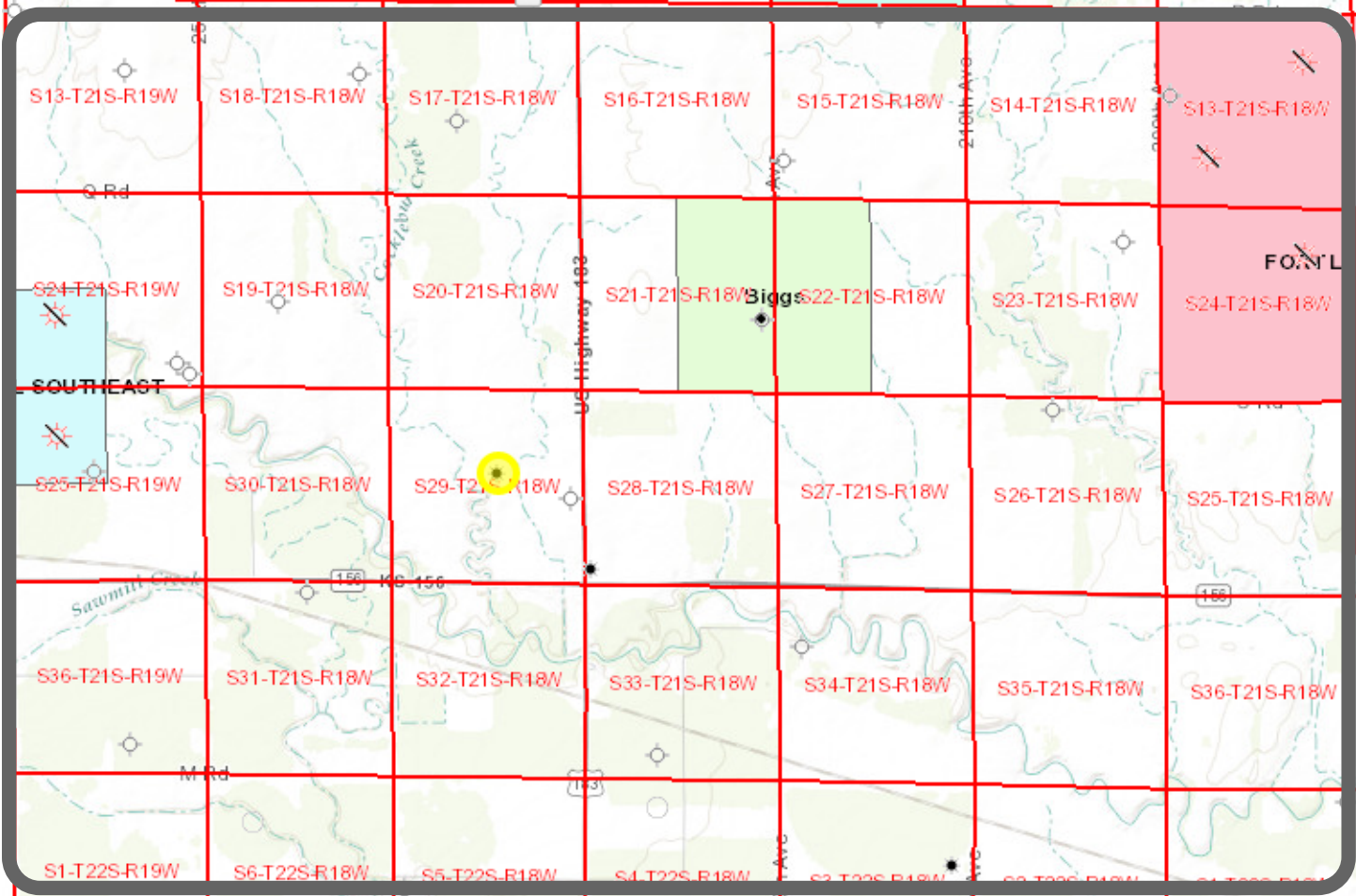
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

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 (3800-TD) Mike Engelbrecht (3200-3800)
Company: Ritchie Exploration Inc.
Address: 8100 E. 22nd ST. N. #700
Wichita, KS, 67278-3188



Tops & Drill Report

TOPS: DRILLING REPORT

Sample Tops:

E-Log Tops:

Anhydrite: 1178' +894	Anhydrite: 1180'+892
B/Anhydrite: 1203'+869	B/Anhydrite: 1203'+869
Heebner: 3574'-1502	Heebner: 3574'-1502
Lansing: 3652'-1580	Lansing: 3650'-1578
Muncie Sh: 3796'-1724	Muncie Sh: 3792'-1720
Stark Sh: 3873'-1801	Stark Shale: 3870'-1798
Hush: 3912'-1840	Hush: 3910'-1838
BKC: 3947'-1875	BKC: 3942' -1870
Marmaton: 3973'-1901	Marmaton: 3962'-1890
Altamont: 4000'-1928	Altamont: 3994'-1922
Pawnee: 4046'-1974	Pawnee: 4040'-1968
Fort Scott: 4066'-1994	Fort Scott: 4061'-1989
Cherokee Sh: 4082'-2010	Cherokee Sh: 4078'-2006
Cong. Sand: 4094'-2022	Cong. Sand: 4099'-2027
Arbuckle: 4116'-2076	Arbuckle: 4116'-2044
RTD: 4500'-2428	LTD: 4498'-2426

DAILY DRILLING REPORT:

DATE DEPTH @ 7am:

09/16	Spud
09/17	1015'
09/18	1184'
09/19	2415'
09/20	3660'
09/21	3705'
09/22	4065'
09/23	4170'
09/24	4200'
09/25	4215'
09/26	4500'

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

Drilling at 1015' at 7:00 a.m. Ran 28 jts new 23# 8-5/8" surface casing. Tally at 1173', set at 1184'. Cemented with 575 sacks class A, 2% cc, 6% gel. Cement circulated. Plug down at 6:30 p.m. 11

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 Blake.

Plug and Abandon. 1st plug set at 4130' with 50 sacks 60/40 Poz, 4% gel, 1/4# flocele; 2nd plug set at 1200' with 50 sacks; 3rd plug set at 270' with 40 sacks; 4th plug set at 60' with 20 sacks. 160 total sacks. Plugged rat hole with 30 sacks and mouse hole with 20 sacks. Job complete at 10:30 p.m. Plugging orders by Eric MacClaren with the KCC.


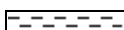

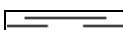

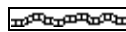


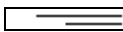
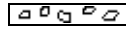


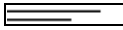


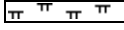

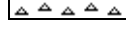



Well Log Surveys BY: NABORS. Compensated Denisty/ Neutron Log, Dual Induction.

SAMPLES WILL BE DEPOSITED WITH KANSAS GEOLOGICAL SURVEY.






























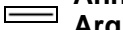









































RESPECTFULLY SUBMITTED

Adam M. A. Eldani

ROCK TYPES

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

ACCESSORIES

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

OTHER SYMBOLS

- POROSITY**
- Earthy
 - Fenest
 - Fracture
 - Inter
 - Moldic
 - Organic
 - Pinpoint

Vuggy

- SORTING**
- Well
 - Moderate
 - Poor

- ROUNDING**
- Rounded
 - Subrnd
 - Subang
 - Angular

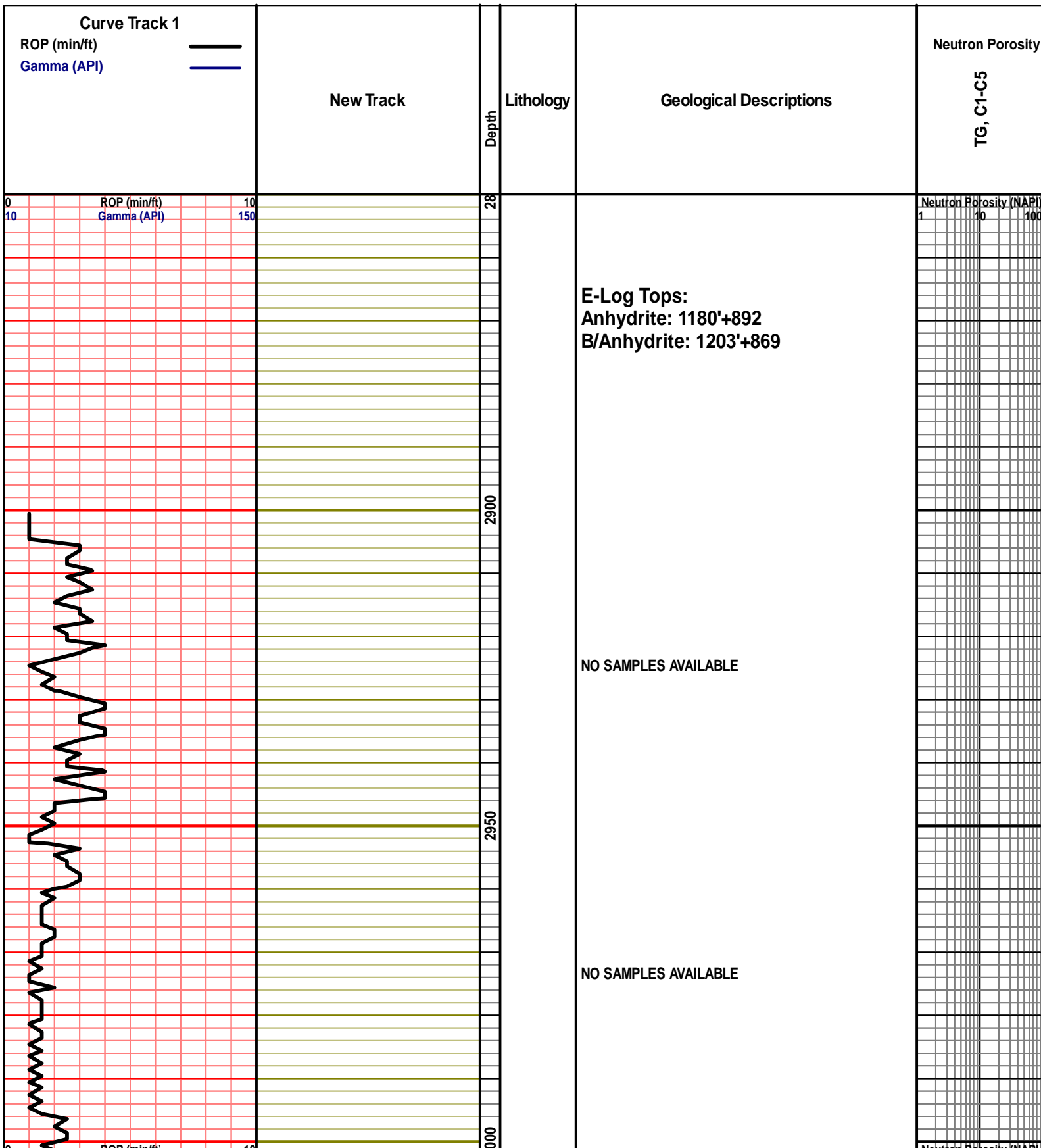
OIL SHOW
aimimg_1

- 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

**MUD DISPLACMENT @
3200**

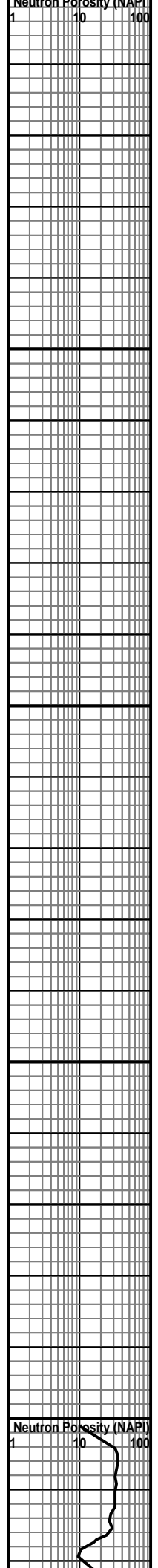
3210: PRED RUST-GRY SHS

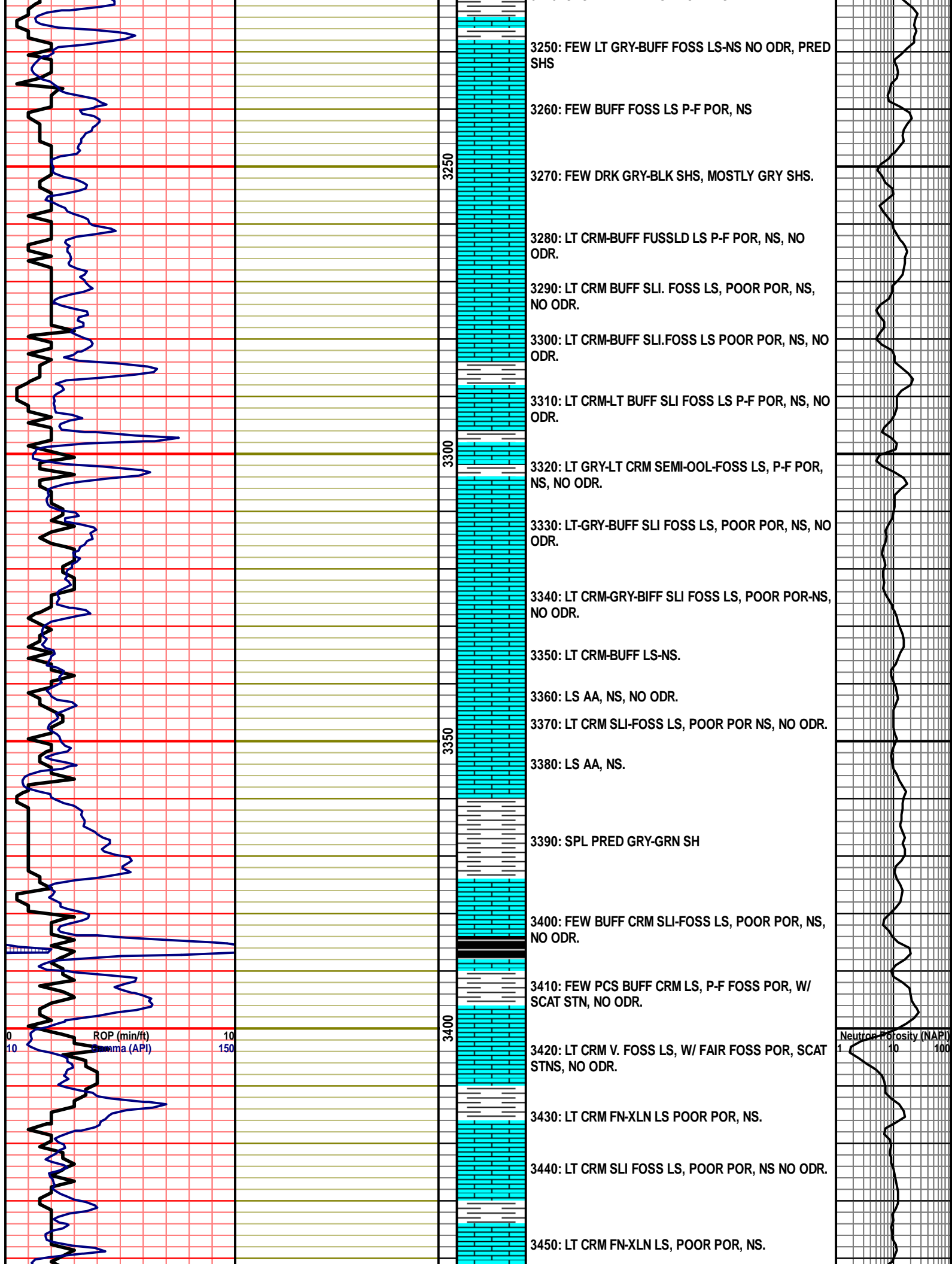
3220: PRED RUST-GRY SHS

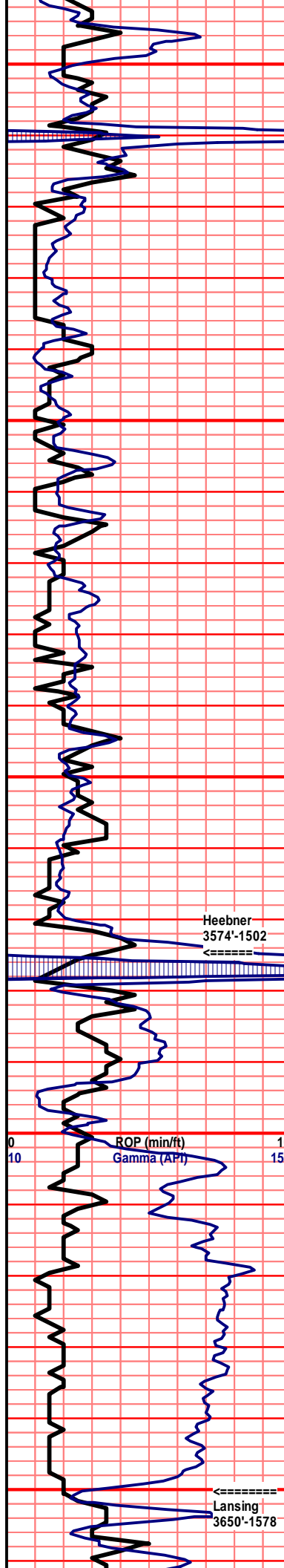
3230: PRED LT-MD GRY SHS

3240: SHS AA FEW LT GRY-CRM LS

09/20/2014
mud info.
wt: 8.5
Funnel Vis. 45
Filtrate API: 8.8
Chloride 3,400
LCM # 2



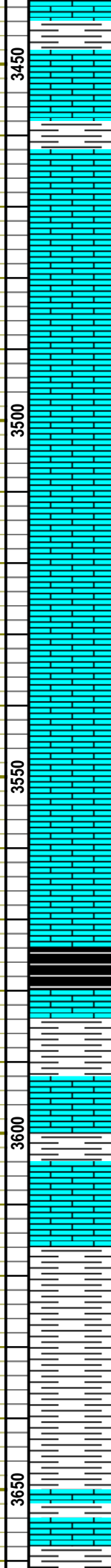




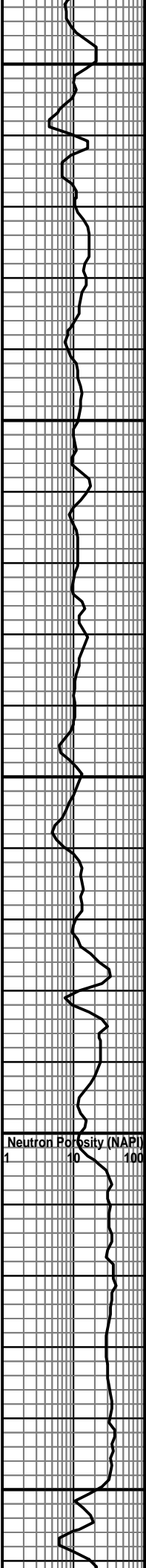
**PUMP PRESSURE
1000+**

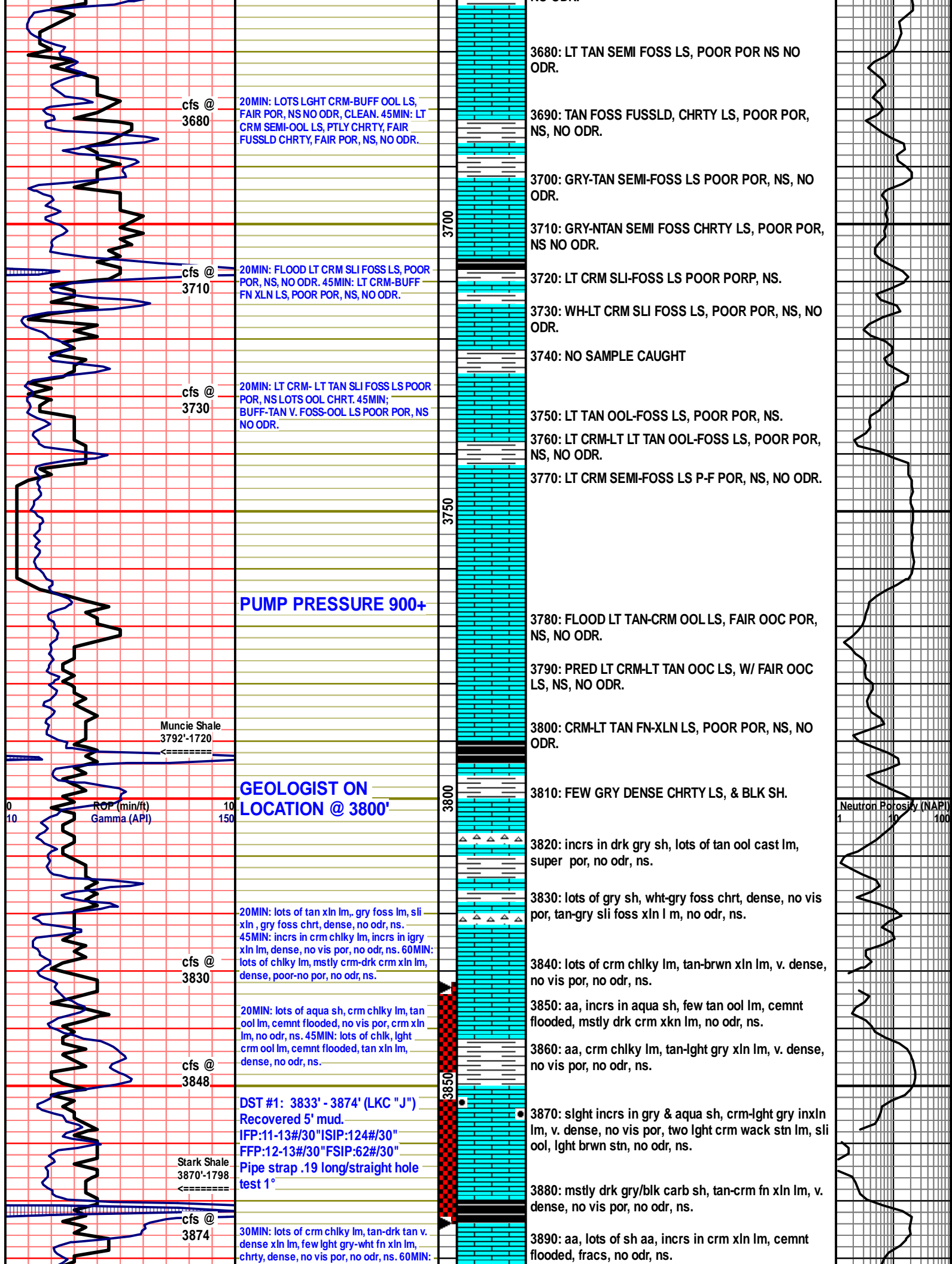
09/21/2014
mud info.
wt: 9.1
Funnel Vis. 45
Filtrate API: 8.8
Chloride 3,800
LCM # 2

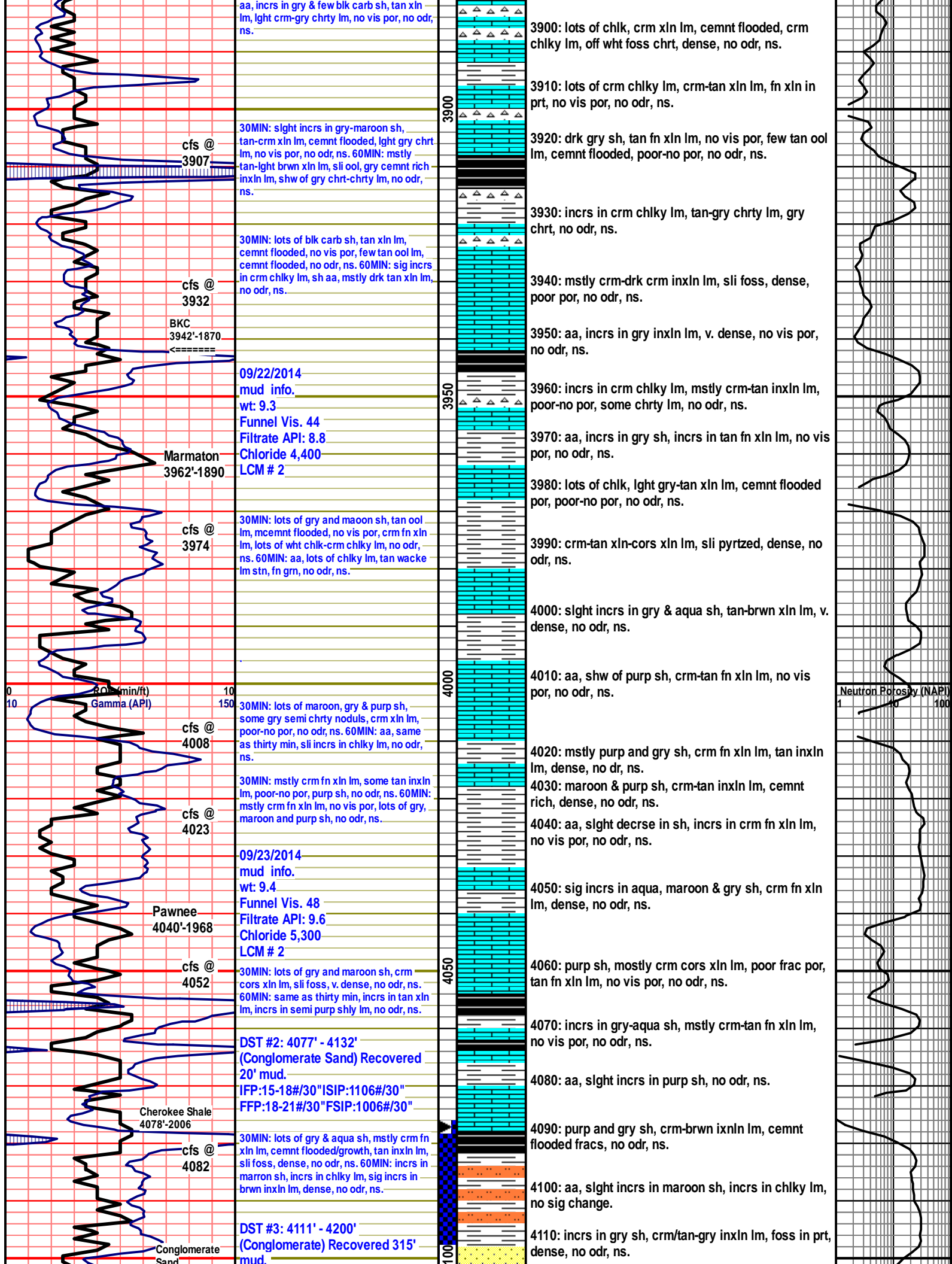
PUMP PRESSURE 950+



3460: LT CRM BUFF SLI-FOSS LS POOR POR, NS, NO ODR.
3470: LT CRM-BUFF SLI FOSS, LS, NS.
3480: LT CRM SLI FOSS LS, POOR POR, NS, NO ODR.
3490: LT CRM BUFF SLI FOSS, LS, POOR POR, NS, NO ODR.
3500: FLOOD LT CRM BUFF FUSLND LS, P-F POR, NS, NO ODR.
3510: LT CRM-BUFF FOSS LS-NS.
3520: LT CRM-BUFF V. FUSSLD, LS, POOR POR, NS, NO ODR.
3530: LT CRM-BUFF FOSS LS P-F POR
3540: LT CRM-BUFF LS, SEMI-FOSS P-F POR, NS, NO ODR.
3550: CRM-BUFF LT TAN V. FOSS LS POOR POR, NS, NO ODR.
3560: BUFF TAN FOSS LS POOR POR, NS.
3570: CRM-LT TAN FOSS LS SLI-FOSS LS POOR POR, NS NO ODR.
3580: LT CRM-BUFF FOSS LS P-F POR, NS, NO ODR.
3590: DRK GRY-BLK SHS.
3600: TAN SEMI-FOSS LS POOR POR, NS, NO ODR.
3610: DIRTY GRY SLI-FOSS LS, POOR POR, NS NO ODR, FEW LT GRN SHS.
3620: LT GRY SLI FOSS LS, POOR POR, NS, NO ODR.
3630: FLOOD WH-LT CRM SLI-FOSS LS, POOR POR, NS, NO ODR.
3640: LT CRM SLI-FOSS LS, POOR POR, NS & INC GRY SH.
3650: WH-LT CRM LS- POOR POR, NS.
3660: FLOOD LT BLUE-GRY SLTY SH.
3670: LT CRM-LT TAN SLI-FOSS LS POOR POR, NS, NO ODR.







aa, incrs in gry & few blk carb sh, tan xln lm, lght crm-gry chrt lm, no vis por, no odr, ns.

3900: lots of chlk, crm xln lm, cemnt flooded, crm chlky lm, off wht foss chrt, dense, no odr, ns.

cfs @ 3907
30MIN: slght incrs in gry-maroon sh, tan-crm xln lm, cemnt flooded, lght gry chrt lm, no vis por, no odr, ns. 60MIN: mstly tan-lght brwn xln lm, sli ool, gry cemnt rich inxln lm, shw of gry chrt-chrty lm, no odr, ns.

3910: lots of crm chlky lm, crm-tan xln lm, fn xln in prt, no vis por, no odr, ns.

3920: drk gry sh, tan fn xln lm, no vis por, few tan ool lm, cemnt flooded, poor-no por, no odr, ns.

cfs @ 3932
30MIN: lots of blk carb sh, tan xln lm, cemnt flooded, no vis por, few tan ool lm, cemnt flooded, no odr, ns. 60MIN: sig incrs in crm chlky lm, sh aa, mstly drk tan xln lm, no odr, ns.

3930: incrs in crm chlky lm, tan-gry chrt lm, gry chrt, no odr, ns.

3940: mstly crm-drk crm inxln lm, sli foss, dense, poor por, no odr, ns.

BKC 3942'-1870

09/22/2014 mud info. wt: 9.3 Funnel Vis. 44 Filtrate API: 8.8 Chloride 4,400 LCM # 2

3950: aa, incrs in gry inxln lm, v. dense, no vis por, no odr, ns.

3960: incrs in crm chlky lm, mstly crm-tan inxln lm, poor-no por, some chrty lm, no odr, ns.

Marmaton 3962'-1890

3970: aa, incrs in gry sh, incrs in tan fn xln lm, no vis por, no odr, ns.

3980: lots of chlk, lght gry-tan xln lm, cemnt flooded por, poor-no por, no odr, ns.

cfs @ 3974
30MIN: lots of gry and maon sh, tan ool lm, mcemnt flooded, no vis por, crm fn xln lm, lots of wht chlk-crm chlky lm, no odr, ns. 60MIN: aa, lots of chlky lm, tan wacke lm stn, fn grn, no odr, ns.

3990: crm-tan xln-cors xln lm, sli pyrtzed, dense, no odr, ns.

4000: slght incrs in gry & aqua sh, tan-brwn xln lm, v. dense, no odr, ns.

ROP (min/ft) Gamma (API)

cfs @ 4008
30MIN: lots of maroon, gry & purp sh, some gry semi chrty noduls, crm xln lm, poor-no por, no odr, ns. 60MIN: aa, same as thirty min, sli incrs in chlky lm, no odr, ns.

4010: aa, shw of purp sh, crm-tan fn xln lm, no vis por, no odr, ns.

4020: mstly purp and gry sh, crm fn xln lm, tan inxln lm, dense, no odr, ns.

cfs @ 4023
30MIN: mstly crm fn xln lm, some tan inxln lm, poor-no por, purp sh, no odr, ns. 60MIN: mstly crm fn xln lm, no vis por, lots of gry, maroon and purp sh, no odr, ns.

4030: maroon & purp sh, crm-tan inxln lm, cemnt rich, dense, no odr, ns.

4040: aa, slght decrse in sh, incrs in crm fn xln lm, no vis por, no odr, ns.

Pawnee 4040'-1968

09/23/2014 mud info. wt: 9.4 Funnel Vis. 48 Filtrate API: 9.6 Chloride 5,300 LCM # 2

4050: sig incrs in aqua, maroon & gry sh, crm fn xln lm, dense, no odr, ns.

cfs @ 4052
30MIN: lots of gry and maroon sh, crm cors xln lm, sli foss, v. dense, no odr, ns. 60MIN: same as thirty min, incrs in tan xln lm, incrs in semi purp shly lm, no odr, ns.

4060: purp sh, mostly crm cors xln lm, poor frac por, tan fn xln lm, no vis por, no odr, ns.

4070: incrs in gry-aqua sh, mstly crm-tan fn xln lm, no vis por, no odr, ns.

Cherokee Shale 4078'-2006

DST #2: 4077' - 4132' (Conglomerate Sand) Recovered 20' mud. IFP:15-18#/30" ISIP:1106#/30" FFP:18-21#/30" FSIP:1006#/30"

4080: aa, slght incrs in purp sh, no odr, ns.

cfs @ 4082
30MIN: lots of gry & aqua sh, mstly crm fn xln lm, cemnt flooded/growth, tan inxln lm, sli foss, dense, no odr, ns. 60MIN: incrs in marron sh, incrs in chlky lm, sig incrs in brwn inxln lm, dense, no odr, ns.

4090: purp and gry sh, crm-brwn inxln lm, cemnt flooded fracs, no odr, ns.

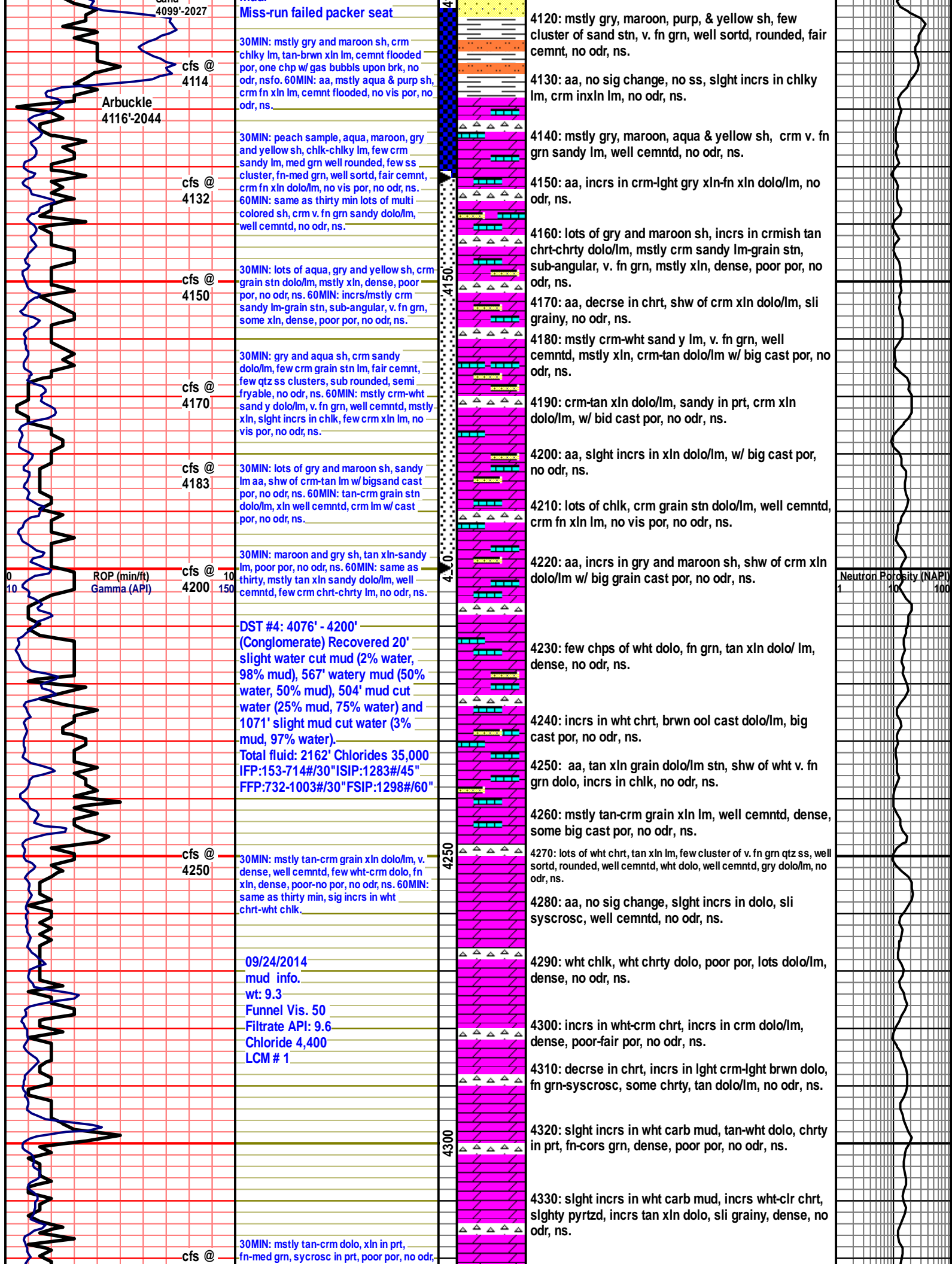
Conglomerate Sand

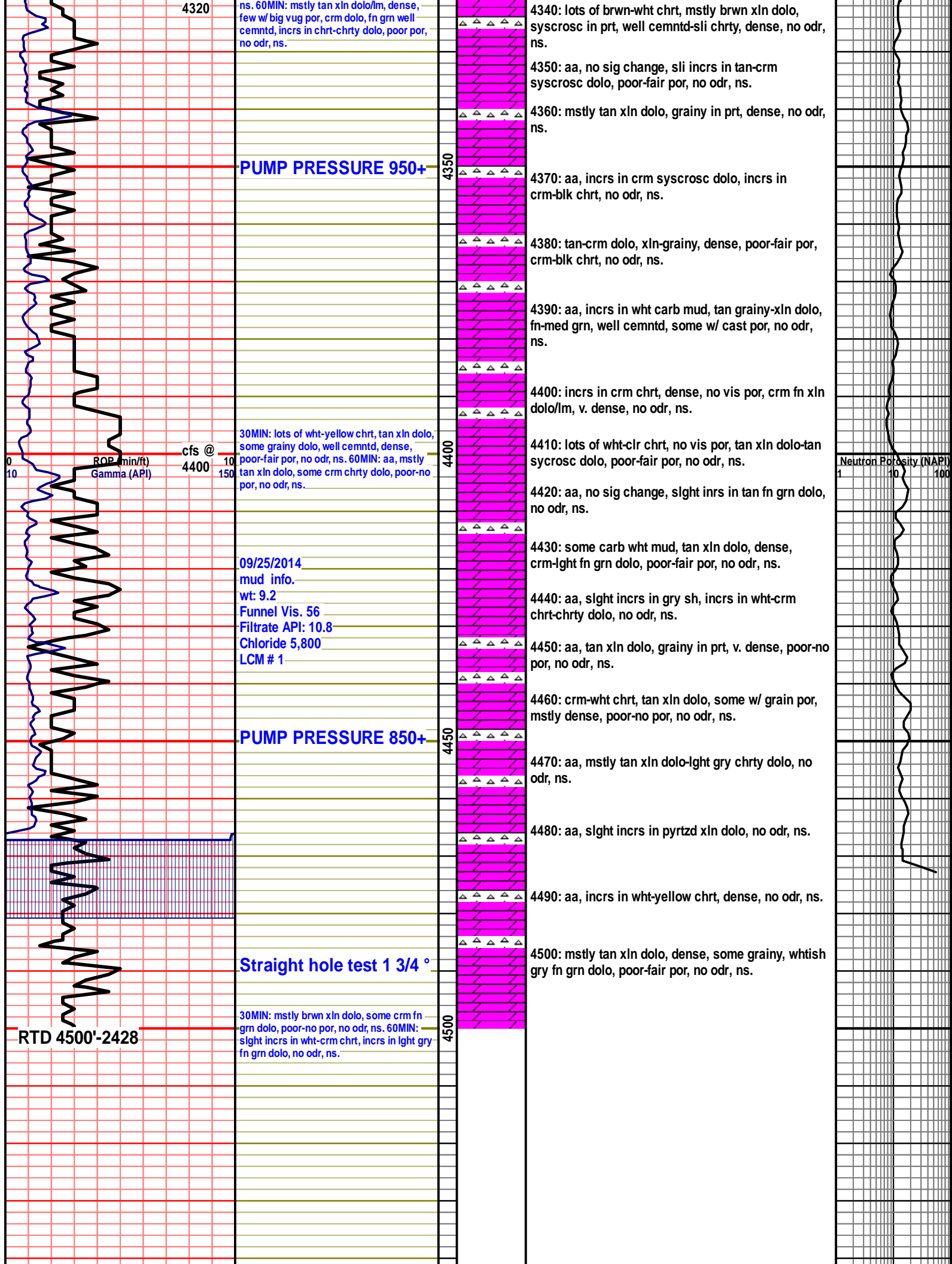
DST #3: 4111' - 4200' (Conglomerate) Recovered 315' mud.

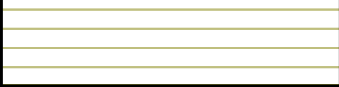
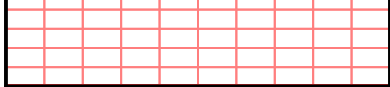
4100: aa, slght incrs in maroon sh, incrs in chlky lm, no sig change.

4110: incrs in gry sh, crm/tan-gry inxln lm, foss in prt, dense, no odr, ns.

Neutron Porosity (NAPI)







50

