

Adam Eldani Geo-Log/Report

WellSight Systems

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

Measured Depth Log

Well Name: #1 YORK 31AB

Location: SEC 31-TOWNSHIP 15S- RANGE 30W GOVE COUNTY

License Number: API 15-063-22205

Region: KANSAS

Spud Date: 6/13/2014

Drilling Completed: 6/22/2014

Surface Coordinates: 1015' FNL 431' FWL

SW NW NW

Bottom Hole Deviation Surveys are detailed through out the Geo-Report.

Coordinates:

Ground Elevation (ft): 2760'

K.B. Elevation (ft): 2765'

Logged Interval (ft): 3600' To: 4600'

Total Depth (ft): 4602'

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 WW RIG 8)

Address: 8100 E. 22nd ST. N. #700

Wichita, KS, 67278-3188

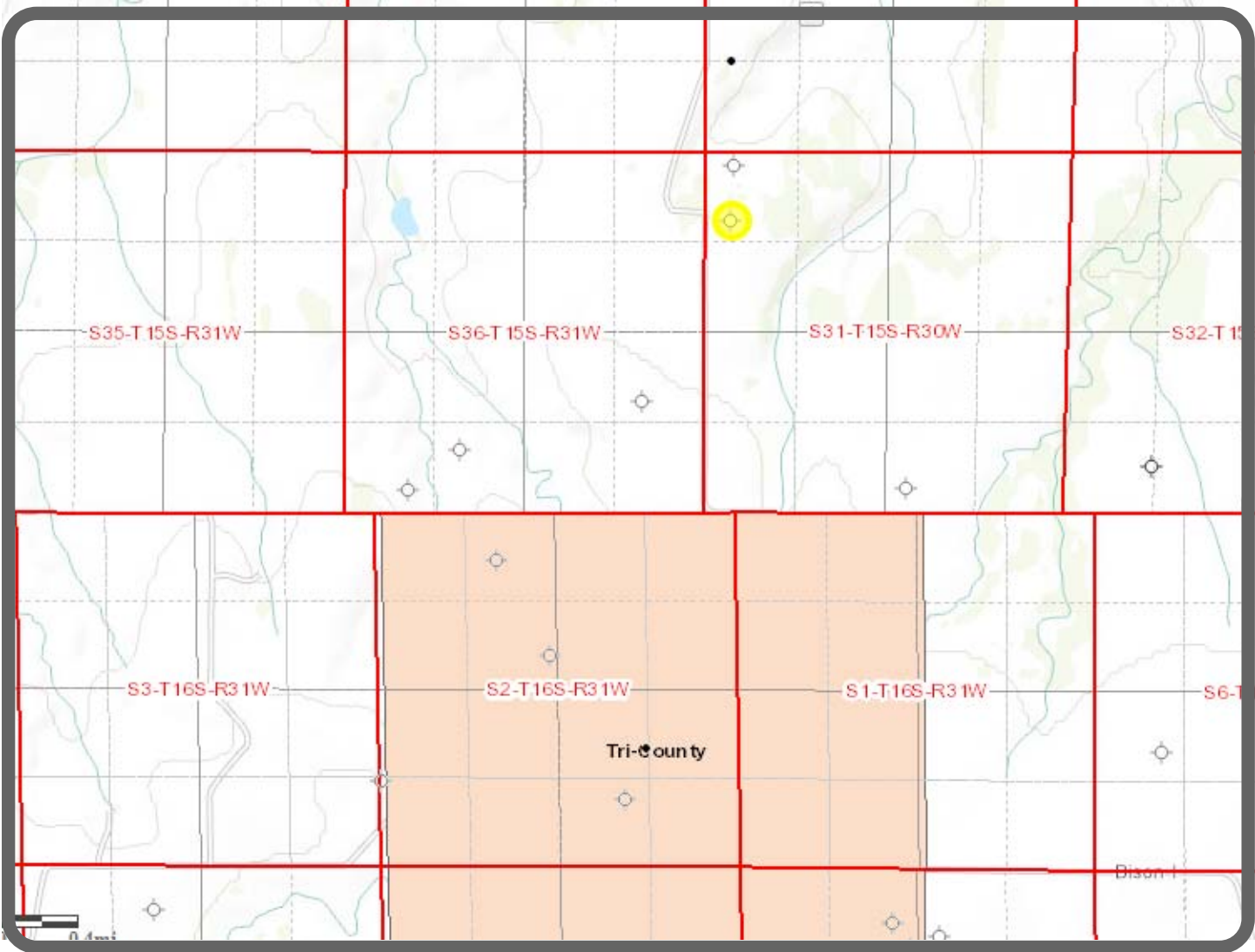
GEOLOGIST

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: 2200'+565	Anhydrite: 2196'+569
B/Anhydrite: 2222'+543	B/Anhydrite: 2219'+546
Stotler: 3422'-657	Stotler: 3424'-659
Heebner: 3798'-1033	Heebner: 3799'-1034
Toronto: 3819'-1054	Toronto: 3819'-1054
Lansing: 3840'-1075	Lansing: 3838'-1073
Muncie Sh: 4003'-1238	Muncie Sh: 4003'-1238
Stark Sh: 4097'-1332	Stark Sh: 4097'-1332
Hush: 4135'-1370	Hush: 4135'-1370
BKC: 4180'-1415	BKC: 4178'-1413
Marmaton: 4209'-1444	Marmaton: 4210'-1445
Altamont: 4236'-1471	Altamont: 4236'-1471
Pawnee: 4303'-1538	Pawnee: 4304'-1539
Myrick: 4336'-1571	Myrick: 4339'-1574
Fort Scott: 4358'-1593	Fort Scott: 4356'-1591
Cherokee: 4382'-1617	Cherokee: 4382'-1617
Johnson: 4422'-1657	Johnson: 4423'-1658
Morrow: 4442'-1677	Morrow: 4462'-1697
Miss: 4462'-1697	Miss: 4482'-1717
RTD4600'-1835	LTD: 4602'-1837

DAILY DRILLING REPORT:

DATE DEPTH:

6/13	Spud
6/14	1005'
6/15	2650'
6/16	3350'
6/17	3840'
6/18	3926'
6/19	4069'
6/20	4322'
6/21	4444'
6/22	4600'

Misc.

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

RIG: WW RIG #8
TOOL PUSHER: Sid Deutscher
MUD: MUD CO. (Tyler Lang)
GAS DETECTOR: N/A

DRILL STEM TEST'S: Superior Testers Enterprises

LOGS: NABORS (Jason Cappiucci)

OFFICE: PETER FIORINI

Comments

Moved in and rigged up. Spud at 10:30 a.m. Ran 5 jts new 23# 8-5/8" surface casing. Tally at 214.12', set at 220'. Cemented with 175 sacks common, 3% cc, 2% gel. Cement did circulate. Plug down at 2:45 p.m. Drilled out plug at 10:45 p.m.

AFTER THE RESULTS OF SAMPLE LOGGING, ELECTRIC LOGGING, AND ALL DST'S ANALYSIS & CALCULATIONS; IT WAS ELECTED TO PLUG & ABANDON #1 YORK 31AB.

RTD 4600'. Ran Electric Log. LTD 4602'. Plug and Abandon. 1st plug set at 2215' with 50 sacks of 60/40 Poz, 4% gel, 1/4# Flocele per sack; 2nd plug set at 1190' with 100 sacks; 3rd plug set at 270' with 50 sacks; 4th plug set at 40' with 10 sacks. 210 total sacks. Plugged rat hole with 30 sacks. Job complete at 3:30 p.m. Plugging orders by Rich Williams with the KCC.


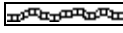
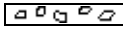


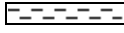







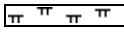
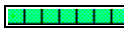
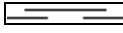
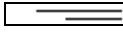
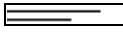



Well Log Surveys BY: NABORS. Compensated Denisty/ Neutron Log, Dual Induction.

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

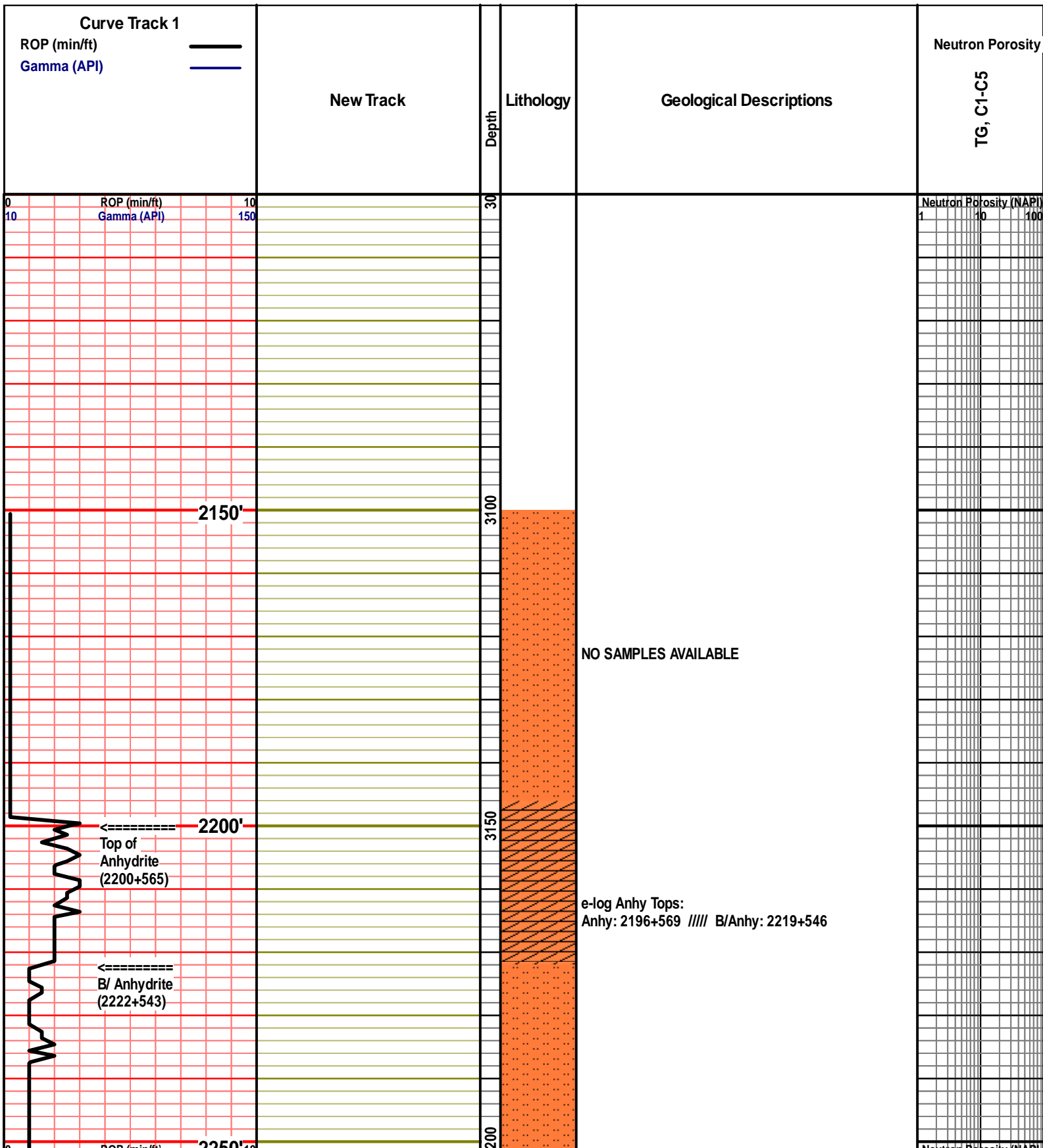
- OIL SHOW**
- [X] aiming_1

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

- INTERVAL**
- [■] Core
 - [■] Dst

- [■] Dst_alt
- [■] Dst

- EVENT**
- [▽] Rft
 - [▶] Sidewall



ROP (min/ft)
Gamma (API)

2250 10
150

NO SAMPLES AVAILABLE

2300'

3250

3300

3350

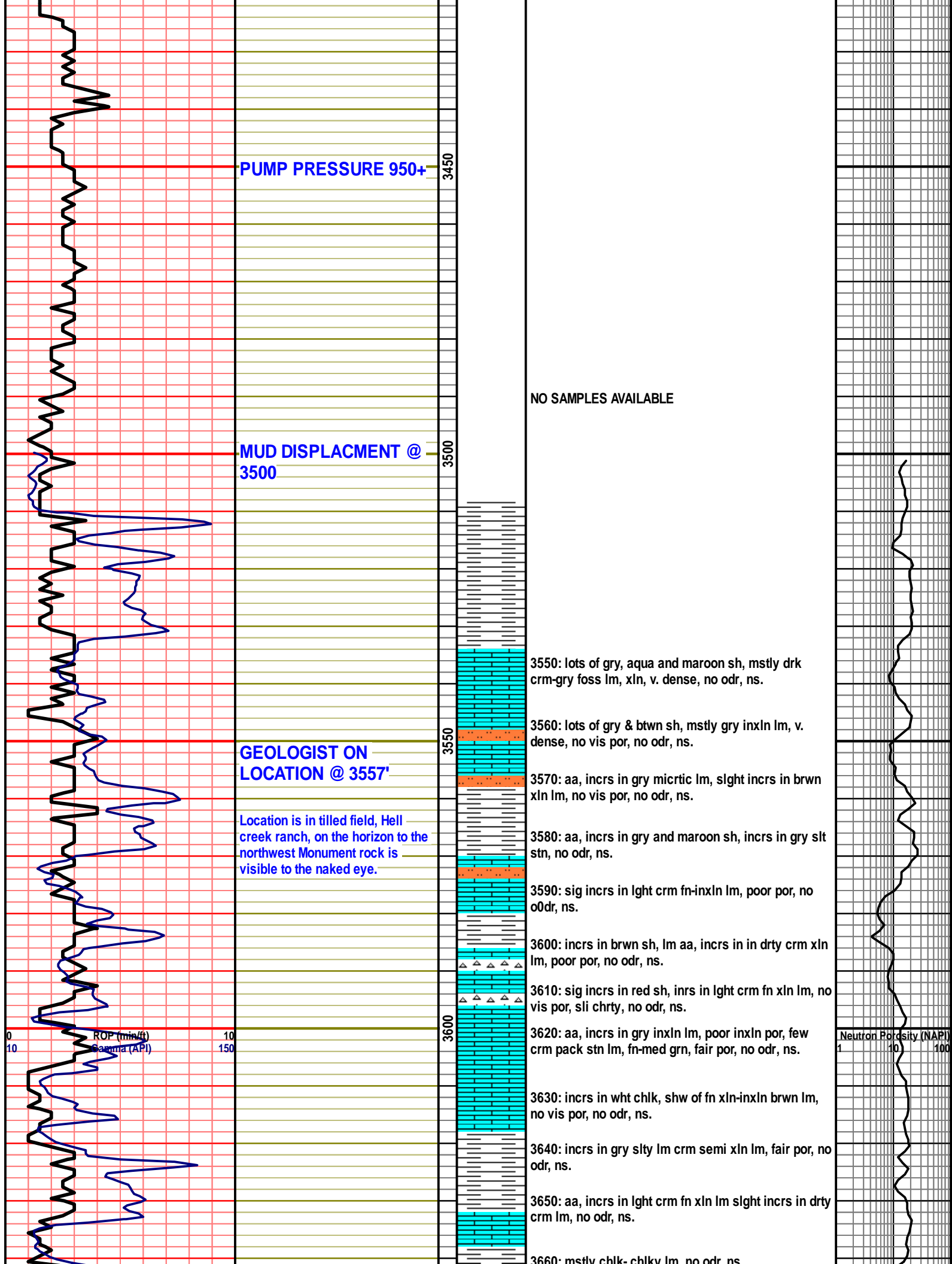
3400

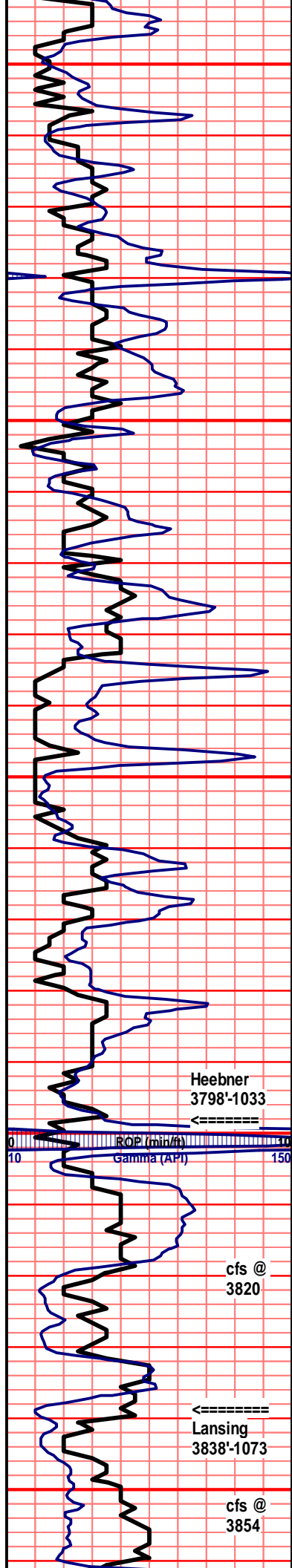
6/16/2014
mud info.
wt: 9.5
Funnel Vis. 29
Filtrate API: N/C
Chloride 21,000
LCM # 0

ROP (min/ft)
Gamma (API)

10
150

Neutron Porosity (NAP)
1 10 100





PUMP PRESSURE 950+

6/17/2014
mud info.
wt: 8.9
Funnel Vis. 52
Filtrate API: 6.8
Chloride 1,400
LCM # 2

Straight Hole Survey: 1 degree

Heebner
3798'-1033



Lansing
3838'-1073

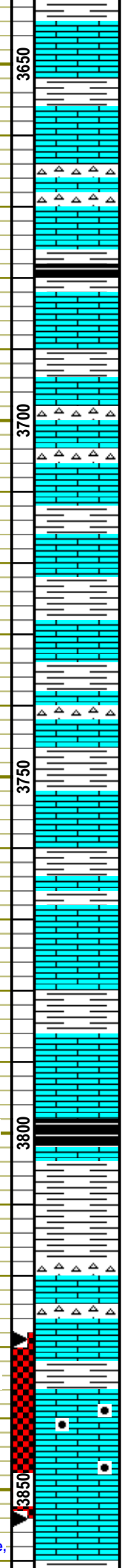
cfs @
3820

cfs @
3854

30MIN: lots of blk sh, lots of chlk, mstly crm-drty crm xln lm, no odr, ns. 60MIN: incrs in red sh, mstly crm-tan inxln lm, v. dense, no nvis por, no odr, ns.

DST #1: 3829' - 3854' (LKC "A")
Recovered 150' watery mud (40% water, 60% mud). Chlorides 49,000.
IFP:81-93#/30" ISIP:1070#/45"
FFP:118-123#/45" FSIP:1032#/60"

30MIN: mstly lght crm chrt, lght crm inxln lm, poor-no xln por, lots of chky lm, few chps tan lm w/ edge frac por, w/ a rich oil stn, poor-no odr. 60MIN: aa, no sig change, same show, no odr.



3670: mstly crm-drty crm xln-pack stn lm, fn grn, fair intr prtcl por, no odr, ns.

3680: aa. incrs in tan-gry inxln lm, dense, no vis por, no odr, ns.

3690: crm-tan inxln lm, dense, poor inxln por, few pack stn lm w/ chrt nod, no odr, ns.

3700: incrs in crm-gry inxln lm, foss in prt, dense, no vis por, no odr, ns.

3710: incrs in red & gry sh, mstly crm inxln lm, poor por, no odr, ns.

3720: aa, sig incrs in chlk, incrs in crm pack stn lm, fair intr prtcl por, no odr, ns.

3730: shw of v. lght crm chrt, tan foss lm, semi chrt, crm inxln lm, dense, no odr, ns.

3740: aa, incrs in crm inxln lm, poor-no por, no odr, ns.

3750: slght incrs in red sh, mstly crm-tan inxln lm, no vis por, no odr, ns.

3760: crm-tan inxln lm, poor-no por, slght incrs in chlk, no odr, ns.

3770: sig incrs in wht chrt, lm aa, no odr, ns.

3780: incrs in drty crm inxln lm, foss, poor-no por, no odr, ns.

3790: aa, sig incrs in wht chlk, no odr, ns.

3800: lots of chlk, brwn slty sh, drty crm xln lm, no odr, ns.

3810: brwn inxln lm, dense, poor-no por, shw of drk brwn sh, no odr, ns.

3820: shw of blk carb sh, lots of chlk, drty crm xln lm, poor-no por, no odr, ns.

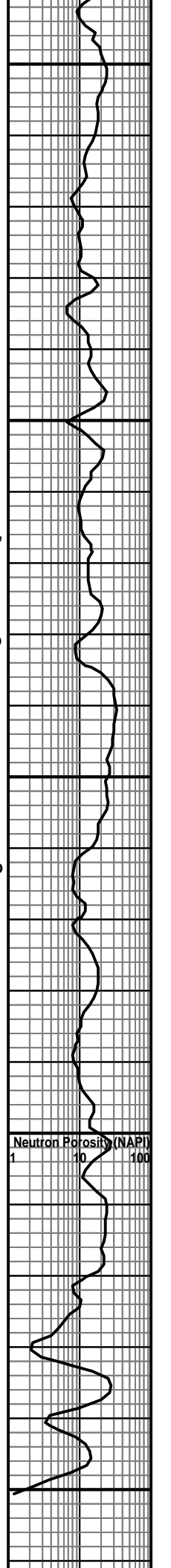
3830: incrs in red sh, mstly tan inxln lm, dense, no vis por, no odr, ns.

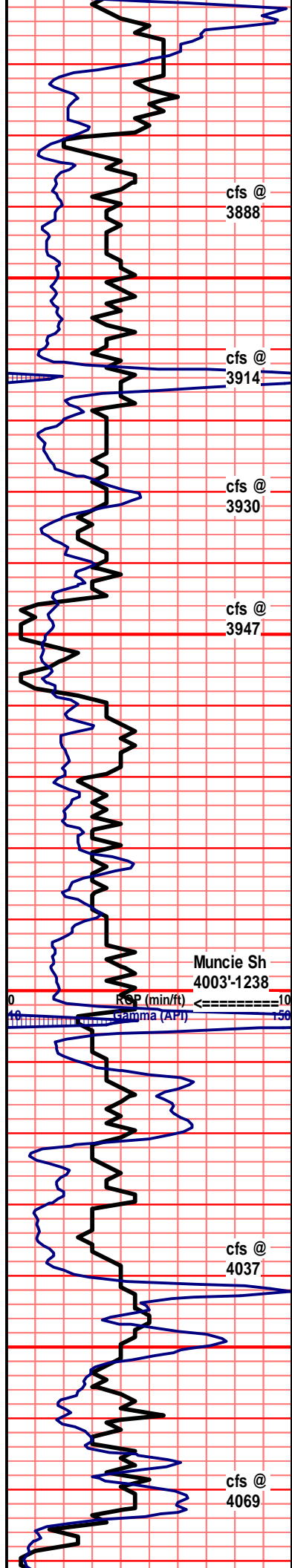
3840: lots of lght crm chert, mstly lght crm xln lm, dense, no odr, ns.

3850: mstly crm-tan lm, aprox ten chps w/ edge frac por, w/ a rich oil stn, slght odr.

3860: mstly red, aqua & gry slty sh, crm fn xln lm, no vis por, one chp w/ tary oil stns, no odr.

3870: sig incrs in gry fsso-xln lm, dense, no vis por,





6/18/2014
mud info.
wt: 9.1
Funnel Vis. 63
Filtrate API: 6.8
Chloride 2,200
LCM # 2

cfs @
3888
30MIN: lots of wht chlk, crm inxln -fn xln lm, no vis por, lght tan ool-ool cast lm, fair-poor ool cast por, no odr, ns. 60MIN: same as thirty min sample, decrete in ool-ool cast lm, no odr, ns.

cfs @
3914
30MIN: lots of crm chlk-chlky lm, mstly cight crm inxln lm, cemnt flooded, no odr, ns. 60MIN: same as thirty min sample, nosig change, no no odr, ns.

cfs @
3930
30MIN: lots of tan inxln lm, fair-poor inxln por, lots of ool lm, poor intr prtcl por, abundant shw of brwn free oil, v. strng odr. 60MIN: same as thirty min sample, incrs in crm ool lm, w/ poor intr prtcl por, some shw of brwn oil.

cfs @
3947
30MIN: incrs in gry sh, crm inxln lm, dense, no vis por, lots of tan ool cast lm, no odr, ns. 60MIN: incrs in chlk, same as thirty min sample, no odr, ns.

DST #2: 3908' - 3947'
(LKC "E & F")
Recovered 315' watery mud (40% water, 60% mud) and 504' water.
Total fluid 819'.
Chlorides 39,000.
IFP:96-217#/30"ISIP: 1062#/45"
FFP:244-404#/45"FSIP: 1058#/60"

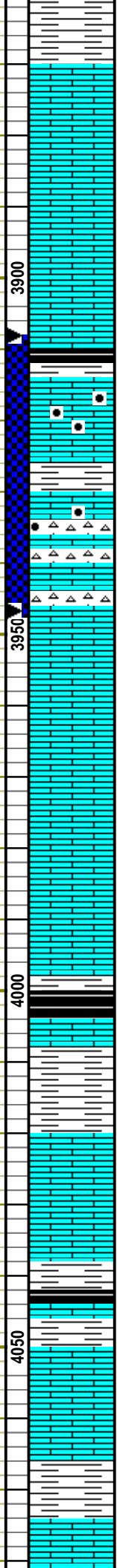
Muncie Sh
4003'-1238'

PUMP PRESSURE 950+

cfs @
4037
30MIN: mstly wht chlk-chlky lm, crm inxln lm, poor inxln por, no odr, ns. 60MIN: slght incrs in maroon sh, chlky lm, crm-lght gry inxln lm, poor por, no odr, ns.

6/19/2014
mud info.
wt: 9.1
Funnel Vis. 49
Filtrate API: 6.0
Chloride 3,300
LCM # 1

cfs @
4069
30MIN: sig incrs in blk, gry & aqua sh, lots of chlky lm, crm inxln lm, poor-no xln por, no odr, ns. 60MIN: incrs in sh, lm same as thirty min sample, no odr, ns.



lots of crm inxln-fn xln lm, poor por, no odr, ns.

3880: incrs in wht chlk-chlky lm, mstly crm xln lm, poor-no por, no odr, ns.

3890: aa, slght incrs in lght crm foss lm, poor-fair foss por, no odr, ns.

3900: incrs in brwn sh, lots of wht chlk, mstly crm inxln lm, no odr, ns.

3910: greater incrs in gry & brwn sh, chlk, crm foss-xln lm, no odr, ns.

3920: lots of aqua & gry sh, chlk, tan -crm xln lm, two w/ questionable stns, flash odr.

3930: mstly tan inxln lm, fair-poor inxln por, abundant shw of brwn free oil, v. strng odr.

3940: tan xln lm, w/ poor xln por, shw of brwn oil, lots of crm ool lm, poor intr prtcl por ssfo, fair odr.

3950: incrs in chlky lm, crm chert, lots of crm xln lm, nsfo, shw rocks aa, fair odr.

3960: mstly gry & red sh, lots of crm xln lm, tan ool cast lm, super por, no odr, ns.

3970: lots of crm xln lm, mstly tan ool cast lm, super por, no odr, ns.

3980: aa, incrs in gry xln lm, sig incrs in wht chlk-chlky lm, lno odr, ns.

3990: mstly lght gry-crm inxln lm, cemnt flooded, lots of loose wht chlk, no odr, ns.

4000: aa, incrs in wht chlk, no odr, ns.

4010: slght incrs in gry sh, mstly crm inxln lm, no odr, ns.

4020: shw of blk carb sh, incrs in brwn foss chrt, mstly brwn foss-xln lm, poor-no por, no odr, ns.

4030: sig incrs in gry and aqua sh, mstly tan-brwn inxln lm, foss, cemnt flooded fracs, poor-no por, no odr, ns.

4040: shw of wht chrt, incrs in wht chlk, mstly crm inxln lm, poor-no inxln por, no odr, ns.

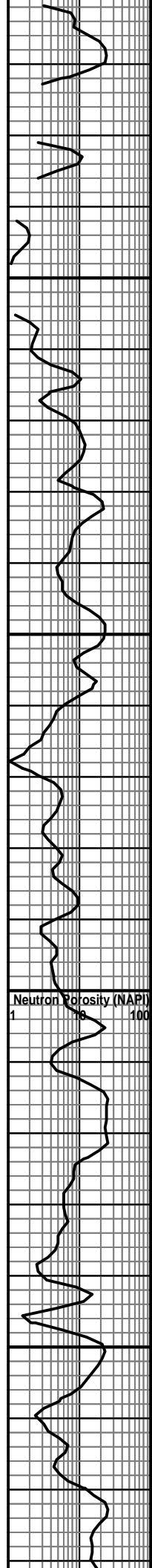
4050: mstly drty crm xln-cors xln lm, poor-no por, no odr, ns.

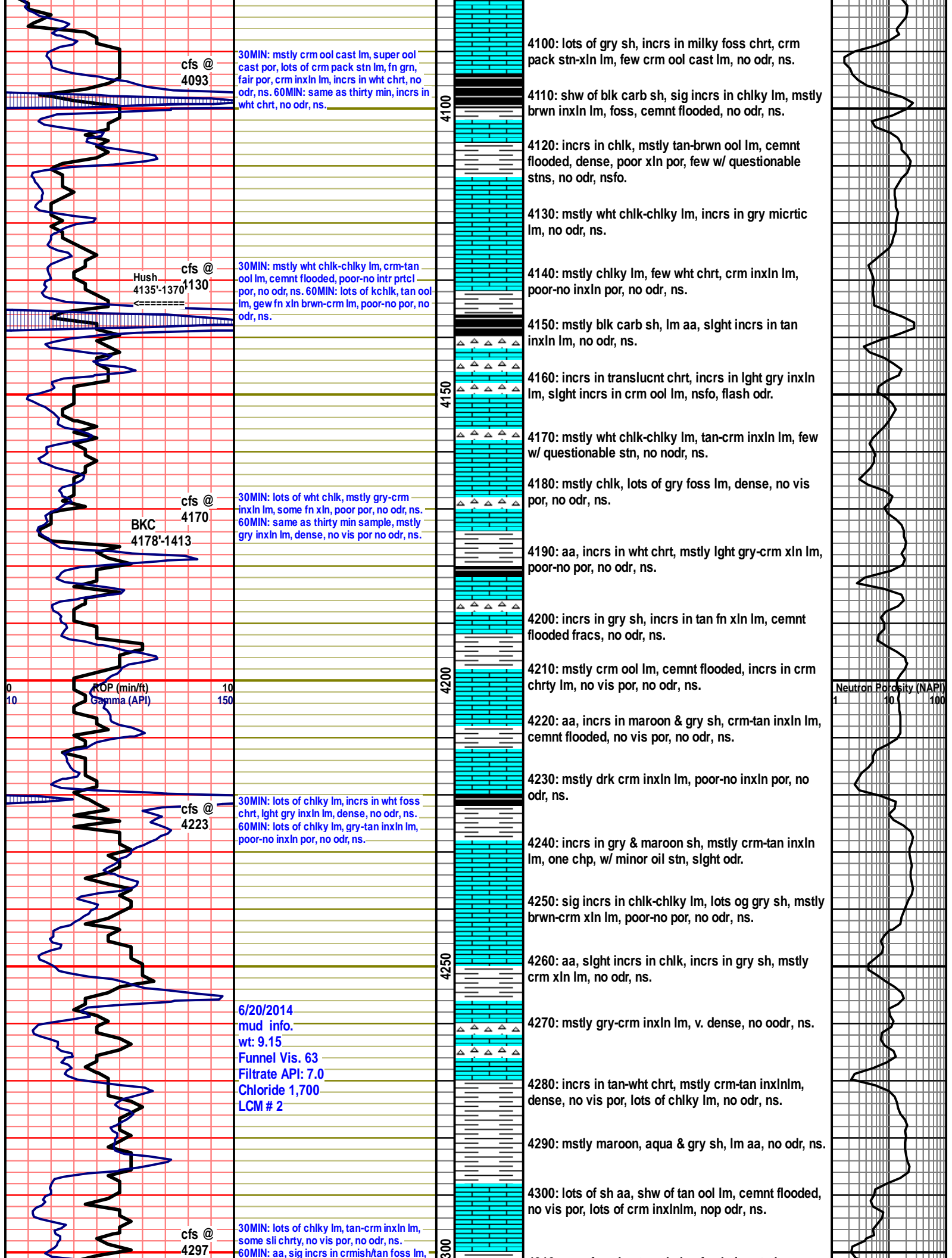
4060: crm-tan inxln lm, cemnt flooded fracs, poor-no por, no odr, ns.

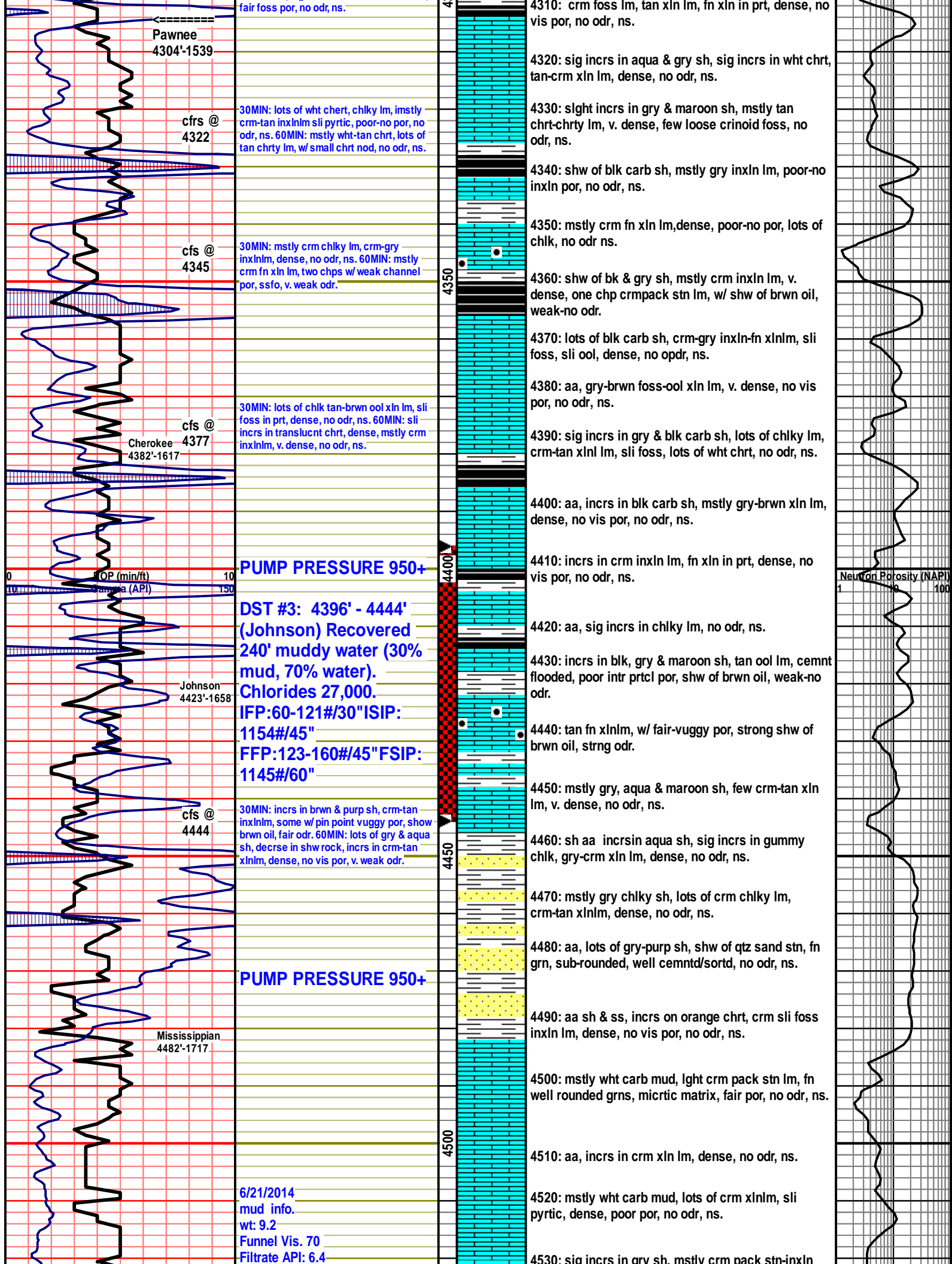
4070: sig incrs in aqua shly-lm, sli incrs in chlk, lm aa, no odr, ns.

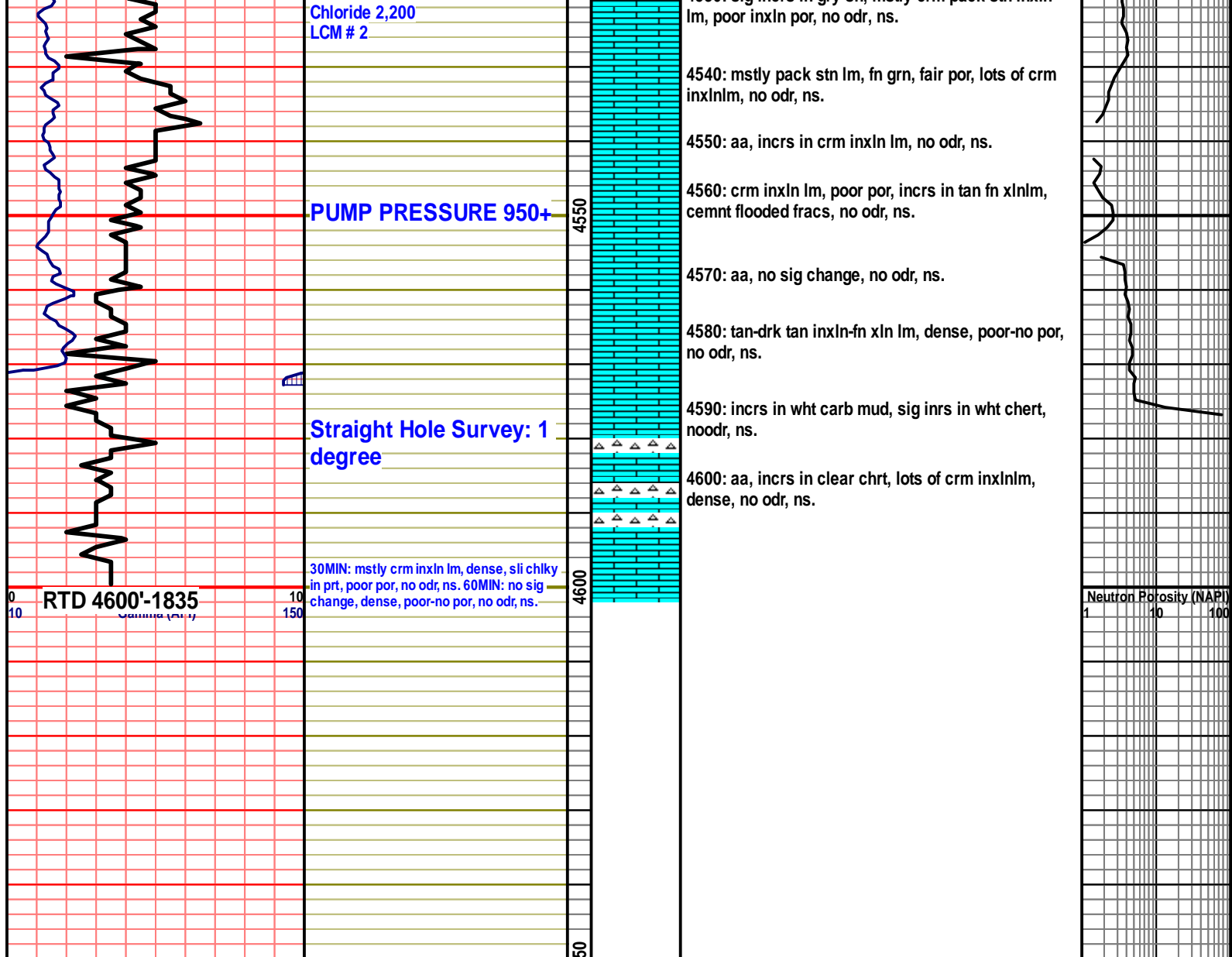
4080: gry & aqua sh, crm fn-inxln lm, poor por, no odr, ns.

4090: aa, incrs in lght crm micrtic-v. fn pack stn lm, fair intr prtcl por, no odr, ns.









Chloride 2,200
LCM # 2

4535: argillaceous tan-grn slt, medly crm pack sat medly
lm, poor inxln por, no odr, ns.

4540: mstly pack stn lm, fn grn, fair por, lots of crm
inxlnlm, no odr, ns.

4550: aa, incrs in crm inxln lm, no odr, ns.

PUMP PRESSURE 950+

4560: crm inxln lm, poor por, incrs in tan fn xlnlm,
cemnt flooded fracs, no odr, ns.

4570: aa, no sig change, no odr, ns.

4580: tan-drk tan inxln-fn xln lm, dense, poor-no por,
no odr, ns.

Straight Hole Survey: 1
degree

4590: incrs in wht carb mud, sig incrs in wht chert,
noodr, ns.

4600: aa, incrs in clear chrt, lots of crm inxlnlm,
dense, no odr, ns.

30MIN: mstly crm inxln lm, dense, sli chlky
in prt, poor por, no odr, ns. 60MIN: no sig
change, dense, poor-no por, no odr, ns.

Neutron Porosity (NAP)
1 10 100