

Adam Eldani Geo-Log/Report

WellSight Systems

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

Measured Depth Log

Well Name: #1 Lampe 3B

Location: SEC 3-TOWNSHIP 26S- RANGE 22W FORD COUNTY

License Number: API 15-057-20912

Region: KANSAS

Spud Date: 9/27/2013

Drilling Completed: 10/08/2013

Surface Coordinates: 3140' FSL & 1320' FWL

Irregular Section -

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

Coordinates:

Ground Elevation (ft): 2401

K.B. Elevation (ft): 2411

Logged Interval (ft): 3400 To: 5000

Total Depth (ft): 5003

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 VAL Energy Rig #1)

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: 1487'+924	Anhydrite: 1487'+924
B/Anhydrite: 1519'+892	B/Anhydrite: 1513'+898
Stotler: 3484'-1073	Stotler: 3488'-1077
Heebner: 4105'-1694	Heebner: 4108'-1697
Lansing: 4217'-1806	Lansing: 4220'-1809
Muncie Sh: 4395'-1984	Muncie Sh: 4395'-1984
Stark Sh: 4513'-2102	Stark Sh: 4511'-2100
Hush: 4562'-2151	Hush: 4564'-2153
BKC: 4596'-2185	BKC: 4598'-2187
Marmaton: 4600'-2189	Marmaton: 4602'-2191
Altamont: 4650'-2239	Altamont: 4645'-2234
Pawnee: 4715'-2304	Pawnee: 4717'-2106
Fort Scott: 4745'-2334	Fort Scott: 4751'-2340
Cherokee Sh: 4769'-2358	Cherokee Sh: 4770'-2359
Huck: 4836'-2425	Huck: 4838'-2427
Atoka: 4854'-2443	Atoka: 4853'-2442
Miss: 4906'-2495	Miss: 4886'-2475

DAILY DRILLING REPORT:

DATE DEPTH:

9/27	Spud
9/28	346'
9/29	1845'
9/30	2795'
10/1	3400'
10/2	4060'
10/3	4422'
10/4	4575'
10/5	4674'
10/6	4711'
10/7	4832'
10/8	5000'

Misc.

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

RIG: VAL Energy Rig #1
TOOL PUSHER: Walt Purcell
MUD: MUD CO. (Jason Whiting)
GAS DETECTOR: N/A

DRILL STEM TEST'S: Superior Testing

LOGS: NABORS (Ian Nabb)

OFFICE: Mike Engelbrecht

Comments

Moved in and rigged up. Spud at 5:00 p.m. Ran 8 jts new 23# 8-5/8" surface casing. Tally at 346', set at 358'. Cemented with 225 sacks Class A, 3% cc, 2% gel. Cement circulated. Plug down at 11:30 p.m.

AFTER RESULTS OF SAMPLE LOGGING, ELECTRIC LOGGING, AND ALL DST TESTS ANALYSIS & CALCULATIONS; IT WAS DECIDED TO RUN 4 1/2 INCH PRODUCTION CASING TO FURTHER TEST THE #1 Lampe 3B FOR OIL & GAS COMMERCIAL QUANTITIES.


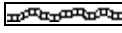
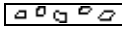


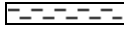







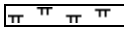
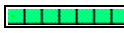
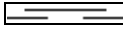
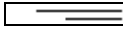
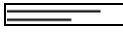



RTD 5000'. Ran Electric Log. LTD 5003'. Ran 4 1/2" 10.5# new production casing, set at 4990'. Port collar at 1430'. Insert at 4969'. Pumped 500 gallons mud flush. Cemented casing with 200 sacks OWC + 10% Salt + 2% Gel + 0.25% CDI-26 + 5# per sack KolSeal. Plug down at 1:50 a.m. on 10-09-13. Plugged rat hole with 30 sacks, and mouse hole with 20 sacks

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

- Vuggy
- SORTING**
- Well
 - Moderate
 - Poor

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

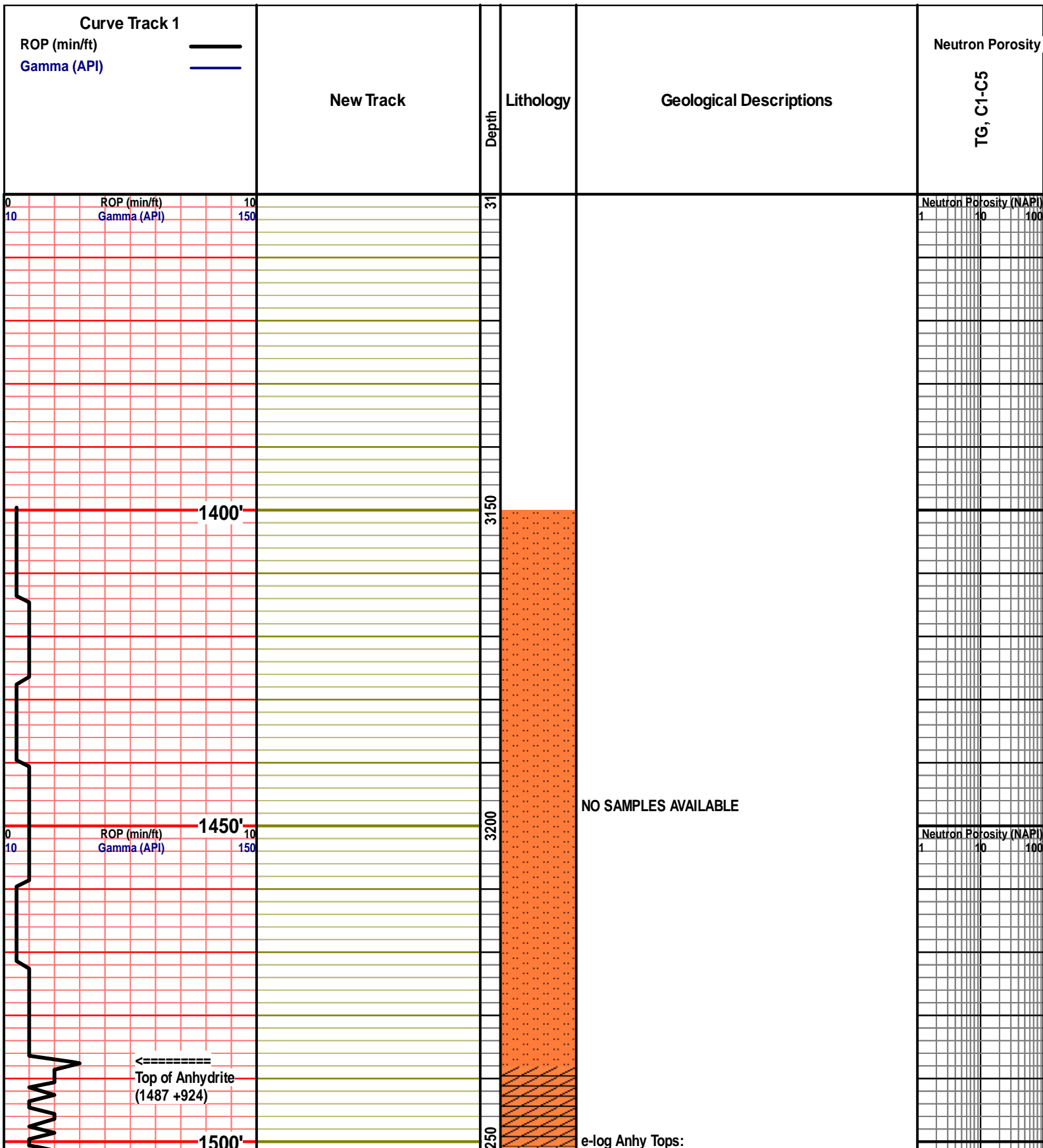
OIL SHOW
aiming_1

- Even
- Spotted
- Ques
- Dead

- INTERVAL**
- Core
 - Dst

- Dst_alt
- Dst

- EVENT**
- Rft
 - Sidewall



e-log Anhy Tops:

Anhy: 1487+924 // B/Anhy 1513+898

(1514'+897)
B/ Anhydrite
←=====

1550'

3300

NO SAMPLES AVAILABLE

1600'

3350

**GEOLOGIST ON
LOCATION @ 3777'**

Location is dry, semi sandy, Farm
Land in-between two electrical
generating windmill. 10/1/2013

3400

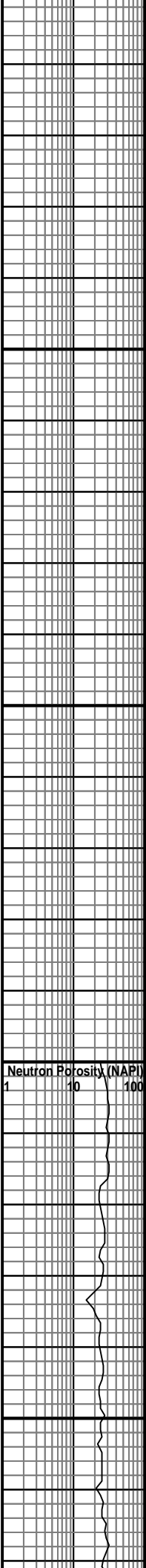
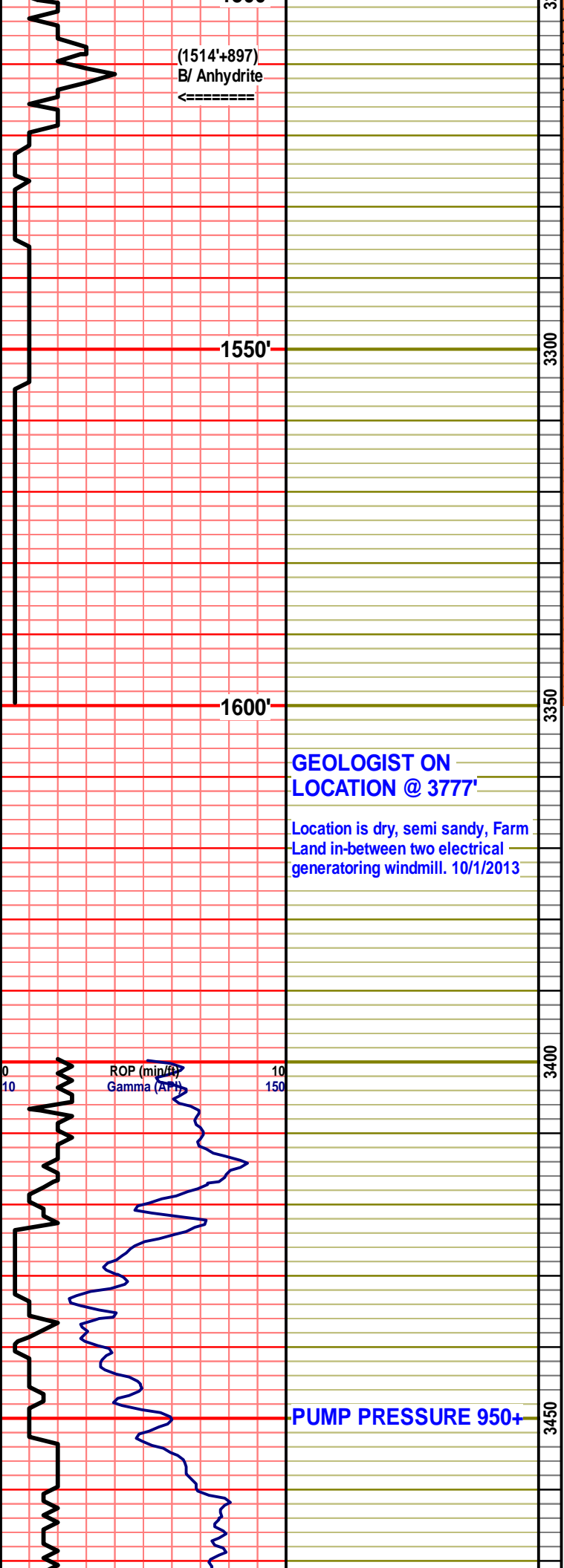
ROP (min/hr)
Gamma (API)

Neutron Porosity (NAP)
1 10 100

PUMP PRESSURE 950+

3450

NO SAMPLES AVAILABLE



Stotler
3488'-1077'

10/03/2013
mud info.
wt: 9.0
Funnel Vis. 58
Filtrate API: 8.8
Chloride 4,300
LCM # 1

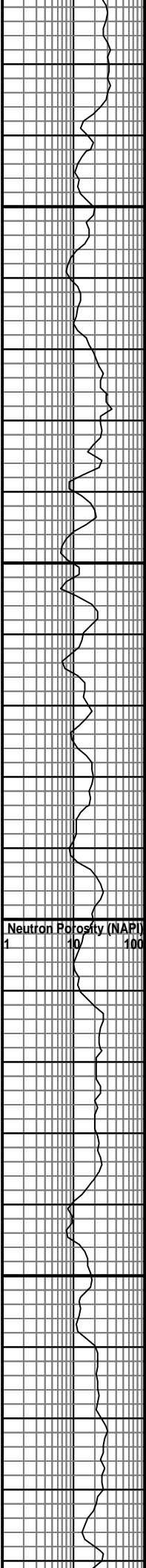
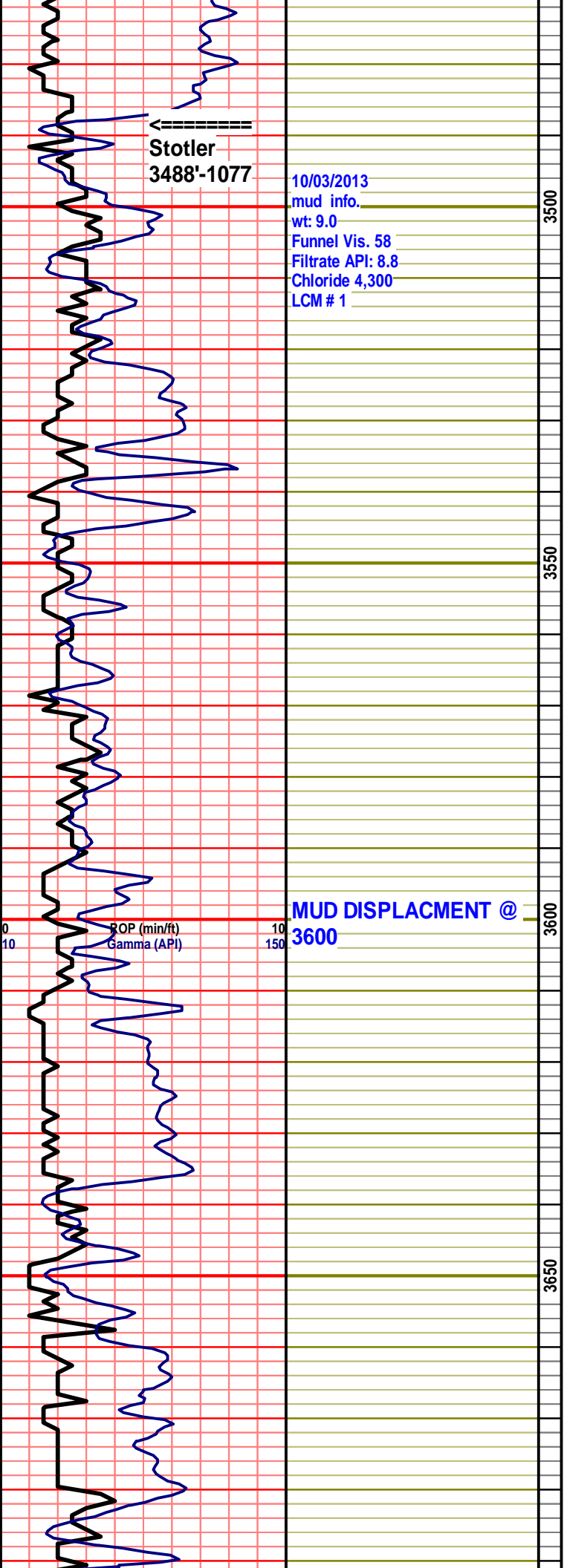
MUD DISPLACMENT @
3600

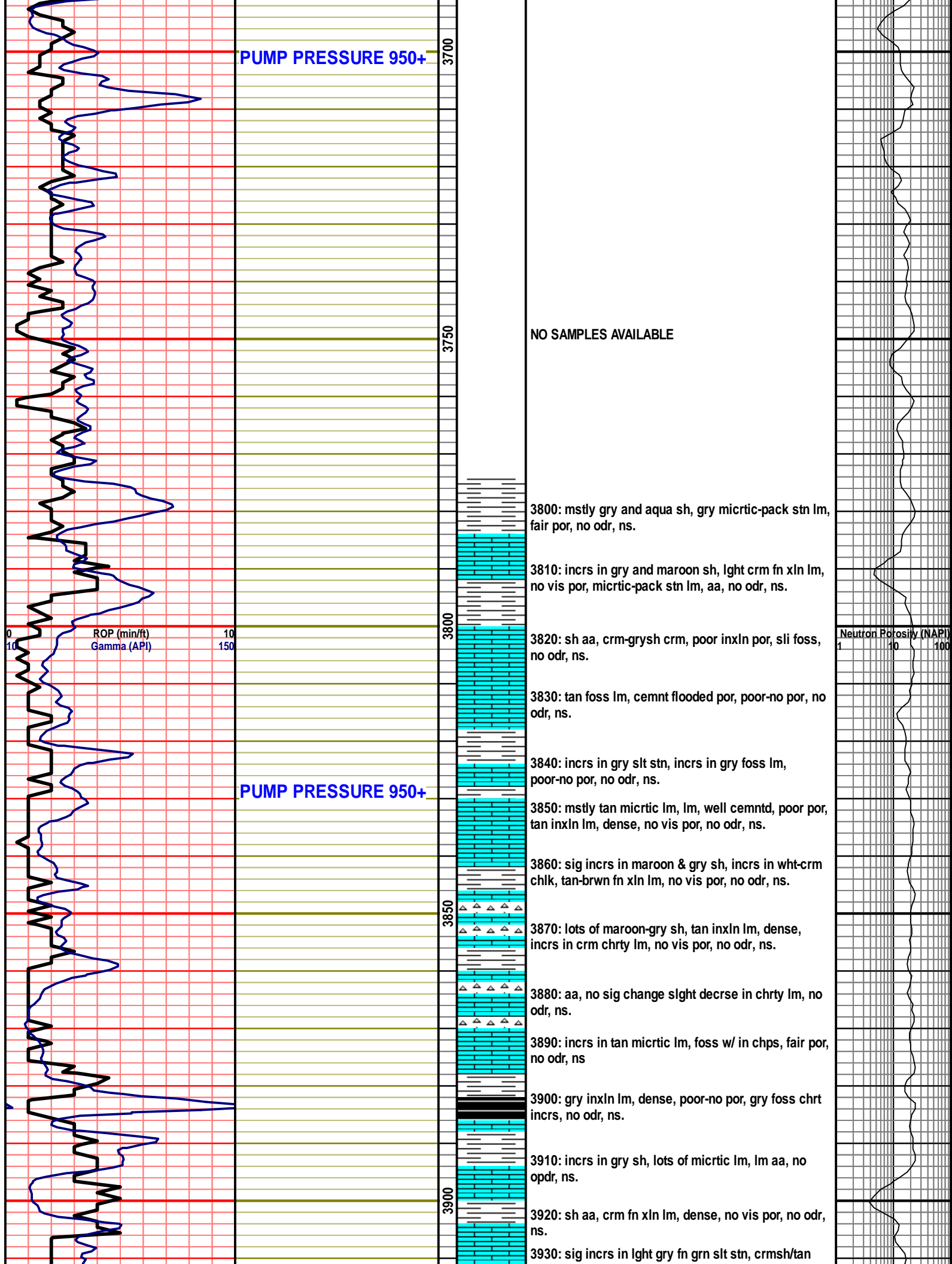
ROP (min/ft)
Gamma (API)

Neutron Porosity (NAPI)

NO SAMPLES AVAILABLE

NO SAMPLES AVAILABLE





PUMP PRESSURE 950+

3700

NO SAMPLES AVAILABLE

3750

3800: mstly gry and aqua sh, gry micrtic-pack stn lm, fair por, no odr, ns.

3800

3810: incrs in gry and maroon sh, lght crm fn xln lm, no vis por, micrtic-pack stn lm, aa, no odr, ns.

ROP (min/ft)
Gamma (API)

3820: sh aa, crm-grysh crm, poor inxln por, sli foss, no odr, ns.

Neutron Porosity (NAPI)

3830: tan foss lm, cemnt flooded por, poor-no por, no odr, ns.

PUMP PRESSURE 950+

3840: incrs in gry slit stn, incrs in gry foss lm, poor-no por, no odr, ns.

3850: mstly tan micrtic lm, lm, well cemntd, poor por, tan inxln lm, dense, no vis por, no odr, ns.

3850

3860: sig incrs in maroon & gry sh, incrs in wht-crm chlk, tan-brwn fn xln lm, no vis por, no odr, ns.

3870: lots of maroon-gry sh, tan inxln lm, dense, incrs in crm chrt lm, no vis por, no odr, ns.

3880: aa, no sig change slight decrse in chrt lm, no odr, ns.

3890: incrs in tan micrtic lm, foss w/ in chps, fair por, no odr, ns

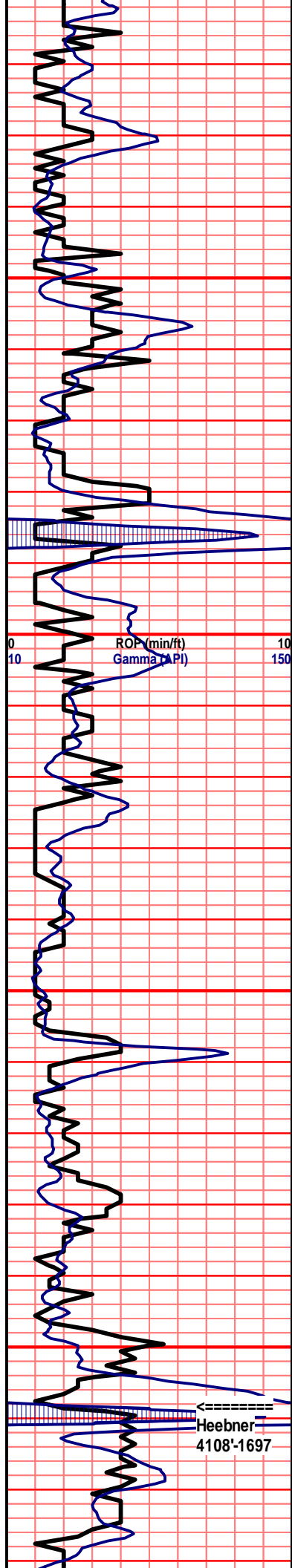
3900: gry inxln lm, dense, poor-no por, gry foss chrt incrs, no odr, ns.

3900

3910: incrs in gry sh, lots of micrtic lm, lm aa, no opdr, ns.

3920: sh aa, crm fn xln lm, dense, no vis por, no odr, ns.

3930: sig incrs in lght gry fn grn slit stn, crmsh/tan



10/02/2013
 mud info.
 wt: 9.05
 Funnel Vis. 62
 Filtrate API: 8.8
 Chloride 5,000
 LCM # 1

PUMP PRESSURE 950+

Heebner
 4108'-1697'



inxln lm, poor inxln por, sli foss, no odr, ns.

3940: aa, sli incrs in tan foss xln lm, cemnt flooded, no odr, ns.

3950: incrs in gry & maroon sh, crm-tan inxln lm, cemnt flooded fracs, no odr, ns.

3960: incrs in gry slt stn, incrs in gry inxln lm, v. foss, v. dense, no vis por, no odr, ns.

3970: sli incrs in wht chlk, incrs in crmsh foss lm, sli chrty, dense, no vis por, no odr, ns.

3980: aa, incrs in gry sh.

3990: mstly gry sh, few blk carb sh chps, incrs in crm fn xln lm, no vis por, no odr, ns.

4000: crm-brwn inxln lm fn xln in prt, poor-no por, no odr, ns.

4010: sig incrs in blk carb sh, crm-gry inxln lm, dense, no odr, ns.

4020: sli incrs in blk & gry sh, crm fn xln lm, no vis por, tan inxln lm, foss, cemnt flooded, no odr, ns.

4030: gummy sample, sig incrs in wht chlk.

4040: v. gummy sample, mstly gummy wht chlk, no odr.

4050: aa, tan inxln lm, fair inxln por, no odr, ns.

4060: aa, mstly chlk-chlky lm, few lght crm fn xln lm, no vis por, no odr, ns.

4070: tan inxln lm, sli foss, fair-poor inxln por, no odr, ns.

4080: incrs in wht chlk, incrs in tan-gry inxln lm, poor-fair por, no odr, ns.

4090: lots of wht gummy chlk, few tan pack stn lm, fair intr prtcl por, mstly tan-brwn inxln lm, no vis por, no odr, ns.

4100: mstly crm inxln lm, poor inxln por, lots of wht chlk.

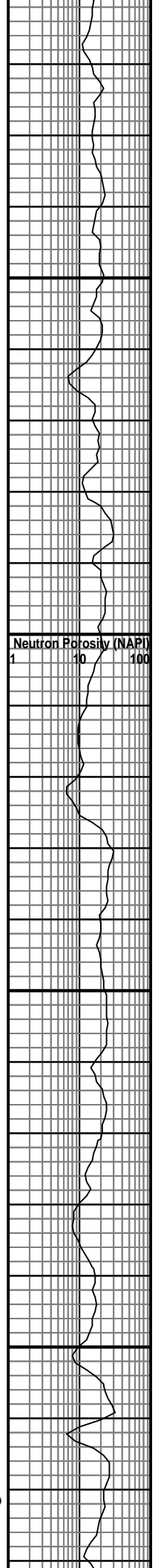
4110: aa, incrs in lm decrse in chlk.

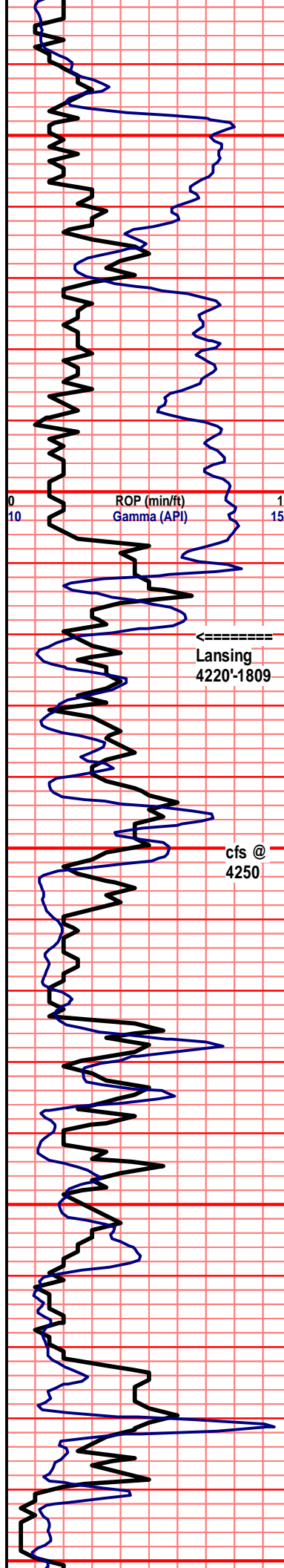
4120: shw of blk carb sh, gry inxln lm, foss, cemnt flooded, no odr, ns.

4130: incrs in gry sh, crm xln lm, poor por, lots of crm sub-chlky lm, no odr, ns.

4140: gry-tan foss xln lm, v. dense, cemnt flooded, no odr, ns.

4150: incrs in drk gry sh, incrs in chlk, tan xln lm, aa





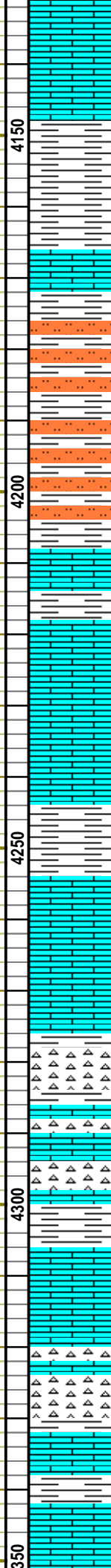
PUMP PRESSURE 950+

Lansing
4220'-1809

cfs @
4250

PUMP PRESSURE 950+

30MIN: lots of gry sh, brwn-drk
brwn xln lm, v. dense, no vis por,
incrs in chlkhy lm, no odr, ns.
60MIN: aa, gry-brwn chrty lm, no
por, no odr, ns.



4160: aa, no sig change.

4170: crm-gry foss xln lm, dense, no vis por, no odr, ns.

4180: incrs in tan inxln lm, fair-poor por, sli foss, incrs in gry sh.

4190: incrs in gry sh, brwn inxln lm, poor-no inxln por, no odr, ns.

4200: aa, very gummy sample, mstly wht chlk.

4210: incrs in well cemtd gry slit stn, dense, incrs in gry slit stn.

4220: mstly gry sh, crm-tan inxln lm, dense, no odr, ns.

4230: aa, no sig change.

4240: crm inxln lm, no vis por, incrs in crm chlkhy lm, no odr, ns.

4250: aa, sig incrs in drk crm-brwn chrt, sli foss, no por, no odr, ns.

4260: lght-drk tan inxln lm, chrty in prt, dense, cemnt flooded, no odr, ns.

4270: tan-brwn inxln lm, chrty, poor-no por, no odr, ns.

4280: incrs in wht chlk, slght incrs in gry & aqua sh, lght crm inxln lm, fair inxln por, no odr, ns.

4290: incrs in tan foss lm, xln in prt, aa, no odr, ns.

4300: shw of drk gry chrt, incrs in chlkhy lm, incrs crm inxln lm, cemnt flooded, no vis por, no odr, ns.

4310: incrs in gry sh, shw of brwn foss xln lm, no vis por, few brwn ool chrty lm, no por, no odr, ns.

4320: mstly crm inxln lm, poor-no inxln por, no odr, ns.

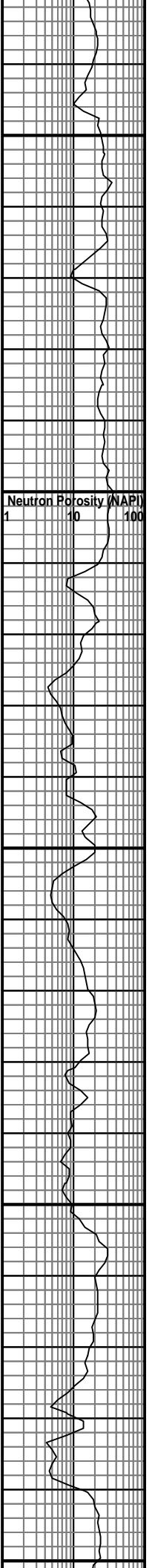
4330: NO SAMPLE CAUGHT.

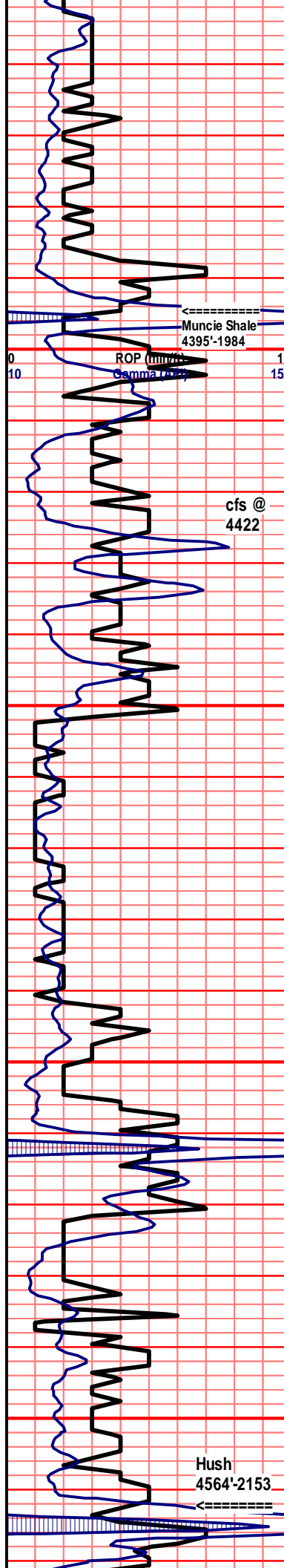
4340: shw of wht chrt, incrs in lght crm chrty lm, no vis por, no odr, ns.

4350: incrs in gry & aqua sh, incrs in wht chrt, mstly lght crm fn xln lm, no vis por, no odr, ns.

4360: aa, shw of tan ool cast lm, super por, no odr, ns.

4370: mstly tan ool cast lm, super ool cast por, incrs





DST #1: 4390' - 4422'
(LKC "H") Recovered
945' gas in pipe and 83'
mud with a trace of oil.
IFP: 50-52#/30" ISIP:
1395#/45" FFP:
56-66#/45" FSIP:
1350#/60"

30MIN: incrs in gry sh, mstly drk tan foss lm all xln, poor-no por, crm inxln lm, poor inxln por, no odr, ns. 60MIN: incrs in wht chlkly lm, mstly crm inxln-fn xln lm, poor por, some highly pyrtzd, no odr, ns.

10/03/2013
 mud info.
 wt: 9.6
 Funnel Vis: 70
 Filtrate API: 14.8
 Chloride 8,400
 LCM # 1

Straight Hole Survey:
1.25 Degree

PUMP PRESSURE 950+

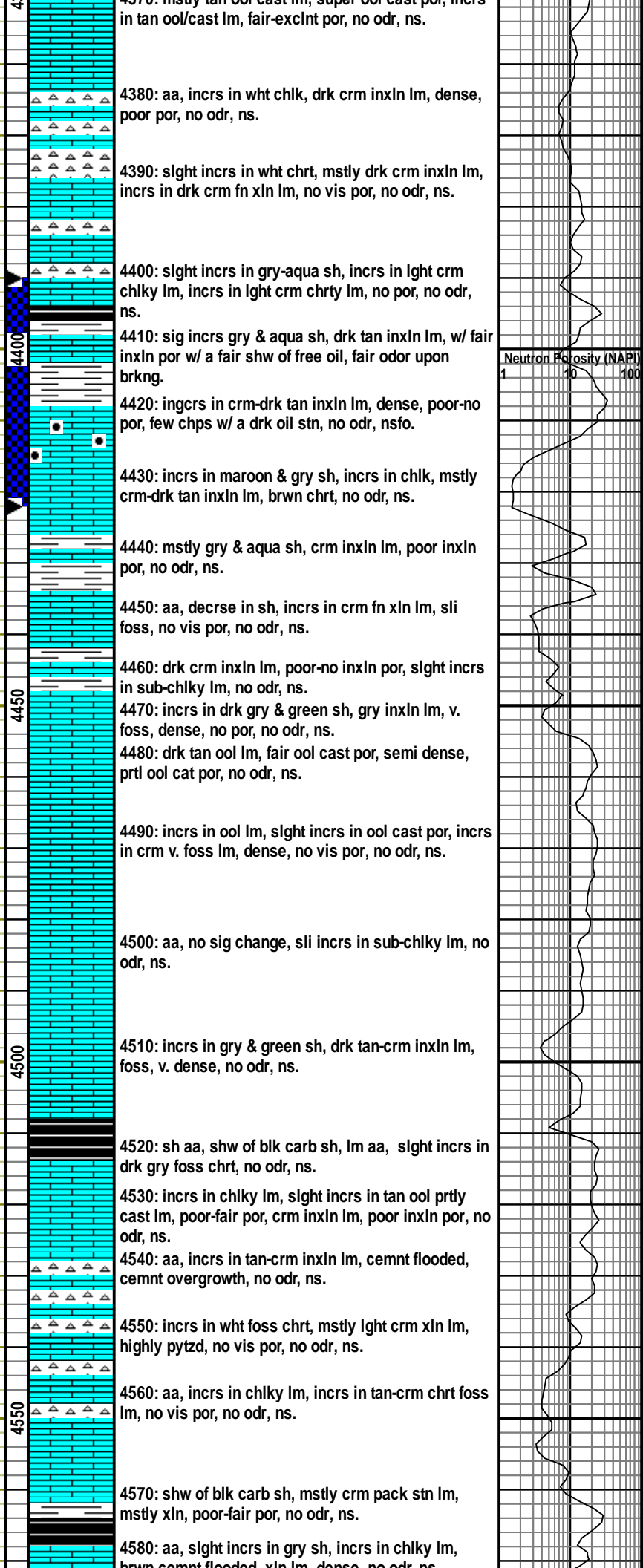
PUMP PRESSURE 950+

cfs @
4422

Muncie Shale
4395'-1984

ROP (min/hr)
Gamma Ray

Hush
4564'-2153



4370: mstly tan ool cast lm, super ool cast por, incrs in tan ool/cast lm, fair-exclnt por, no odr, ns.

4380: aa, incrs in wht chlk, drk crm inxln lm, dense, poor por, no odr, ns.

4390: slight incrs in wht chrt, mstly drk crm inxln lm, incrs in drk crm fn xln lm, no vis por, no odr, ns.

4400: slight incrs in gry-aqua sh, incrs in lght crm chlkly lm, incrs in lght crm chrt lm, no por, no odr, ns.

4410: sig incrs gry & aqua sh, drk tan inxln lm, w/ fair inxln por w/ a fair shw of free oil, fair odor upon brkng.

4420: ingcrs in crm-drk tan inxln lm, dense, poor-no por, few chps w/ a drk oil stn, no odr, nsfo.

4430: incrs in maroon & gry sh, incrs in chlk, mstly crm-drk tan inxln lm, brwn chrt, no odr, ns.

4440: mstly gry & aqua sh, crm inxln lm, poor inxln por, no odr, ns.

4450: aa, decse in sh, incrs in crm fn xln lm, sli foss, no vis por, no odr, ns.

4460: drk crm inxln lm, poor-no inxln por, slight incrs in sub-chlkly lm, no odr, ns.

4470: incrs in drk gry & green sh, gry inxln lm, v. foss, dense, no por, no odr, ns.

4480: drk tan ool lm, fair ool cast por, semi dense, prtly ool cat por, no odr, ns.

4490: incrs in ool lm, slight incrs in ool cast por, incrs in crm v. foss lm, dense, no vis por, no odr, ns.

4500: aa, no sig change, sli incrs in sub-chlkly lm, no odr, ns.

4510: incrs in gry & green sh, drk tan-crm inxln lm, foss, v. dense, no odr, ns.

4520: sh aa, shw of blk carb sh, lm aa, slight incrs in drk gry foss chrt, no odr, ns.

4530: incrs in chlkly lm, slight incrs in tan ool prtly cast lm, poor-fair por, crm inxln lm, poor inxln por, no odr, ns.

4540: aa, incrs in tan-crm inxln lm, cemnt flooded, cemnt overgrowth, no odr, ns.

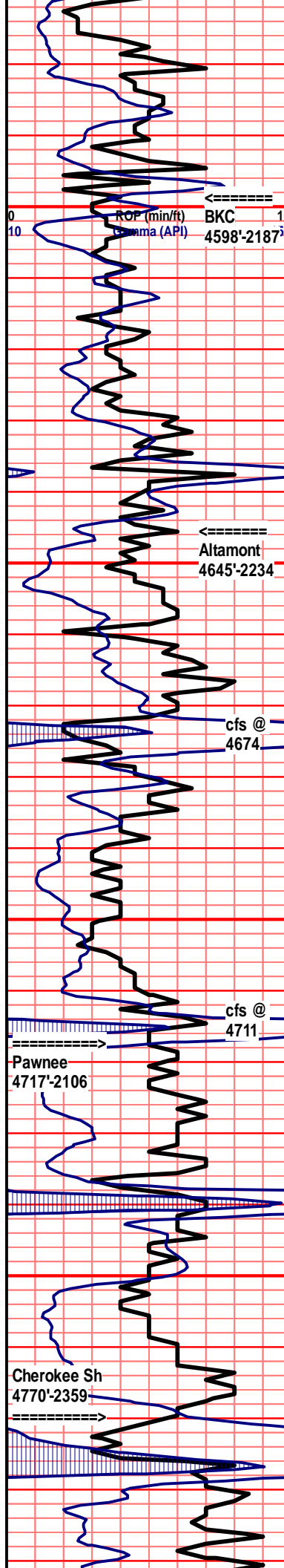
4550: incrs in wht foss chrt, mstly lght crm xln lm, highly pyrtzd, no vis por, no odr, ns.

4560: aa, incrs in chlkly lm, incrs in tan-crm chrt foss lm, no vis por, no odr, ns.

4570: shw of blk carb sh, mstly crm pack stn lm, mstly xln, poor-fair por, no odr, ns.

4580: aa, slight incrs in gry sh, incrs in chlkly lm, brwn cemnt flooded xln lm, dense, no odr, ns.

Neutron Porosity (NAP)
1 10 100



10/04/2013
 mud info.
 wt: 9.4
 Funnel Vis: 60
 Filtrate API: 16.4
 Chloride 7,400
 LCM # Tr

DST #2: 4590' - 4674'
 (Marmaton & Altamont)
 Recovered 15' mud. IFP:
 77-78#/30" ISIP:
 181#/45" FFP:
 76-77#/30" FSIP: 99#/45"

Straight Hole Survey:
 1.0 Degree

30MIN: mstly gry & aqua sh, mstly crm-tan
 inxln lm, dense, n vis por por, one chp w/
 frk tary stn (uphole), no odr, ns. 60MIN:
 mstly crm-drk tan inxln lm dense, poor-no
 por, lots f gry sh, few drk tan xln lm chps,
 w/ fair vuggy por, w/ a fair shw of brwn oil,
 fair odr upon brkng.

DST #3: 4632' - 4711' (Altamont "B
 & C") Recovered 2709' gas in
 pipe and 65' oil cut mud (5% gas,
 20% oil, 75% mud).
 IFP: 76-79#/30" ISIP: 231#/30"
 FFP: 85-91#/45" FSIP: 722#/60"

30MIN: mstly chky lm, incrs in brwn-wht
 chrt, lots of crm fn xln lm, dense no vis por,
 few drk tan lm w/ vuggy por shw of brwn oil,
 fair odr, on brk. 60MIN: same as thirty
 slight decse in shw, fair odr.

10/05/2013
 mud info.
 wt: 9.5
 Funnel Vis: 63
 Filtrate API: 8.8
 Chloride 7,600
 LCM # 1

10/06/2013
 mud info.
 wt: 9.4
 Funnel Vis: 53
 Filtrate API: 8.0
 Chloride 6,800
 LCM # 1



4590: incrs in blk carb sh, mstly crm inxln lm,
 poor-no inxln por, no odr, ns.

4600: aa, incrs in grysh-brwn chrt, brwn chrt lm,
 dense, no vis por, no odr, ns.

4610: incrs in brwn-gry chrt, incrs in gry sh, mstly
 crm-brwn inxln lm, sli ool, poor por, no odr, ns.

4620: aa, incrs in crm chky lm, incrs in gry micrtic
 lm, poor por, no odr, ns.

4630: sig incrs in gry, blk & maroon sh, incrs in brwn
 chrt lm, n vis pr, no odr, ns.

4640: mstly gry & maroon sh, lots of crm inxln lm,
 poor-no inxln por, no odr, ns.

4650: aa, tan xln lm w/ fair fenstral por, strng drk blk
 tary gummy oil stn, v. faint odr.

4660: same litho as above w/ incrs in ssfo, faint -fair
 odr upon brkng.

4670: decse in show aa, incrs in chky lm, incrs in
 gry sh, tan xln lm, prtly ool, poor por, no odr, nsfo.

4680: incrs in gry sh, lots of cors gry slit stn, pyrtzd,
 tan-crm xln lm, few chps w/ lght brwn oil, nsfo.

4690: aa, drk tan xln lm, big vuggy por, slight shw of
 v. lght brwn oil, fair odr.

4700: crm inxln lm, w. a shw of brwn oil, fair-exlent
 inxln por, fair odr.

4710: incrs in crm chky lm, crm-tan xln lm, w/
 xln-vuggy por, ssfo, fair odr, decse in shw from last
 sample.

4720: incrs in gry & aqua sh, few blk carb sh chps,
 mstly crm chky lm, few chps w/ shw (uphole).

4730: sig incrs in translucnt chrt, mstly crm-brwn
 inxln-fn xln lm, dense, no vis por, no odr, ns.

4740: slight incrs in gry & aqua sh, lm aa, shw of
 brwn xln lm, cemnt flooded, no odr, ns.

4750: mstly blk carb sh, lots of gry foss lm, xln in prt,
 poor por, no odr, ns.

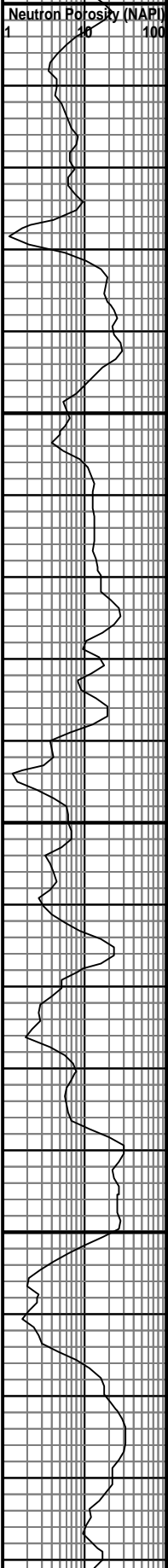
4760: incrs in crm chlk-chky lm, crm hghly pyrtzd
 xln lm, dense, no vis por, no odr, ns.

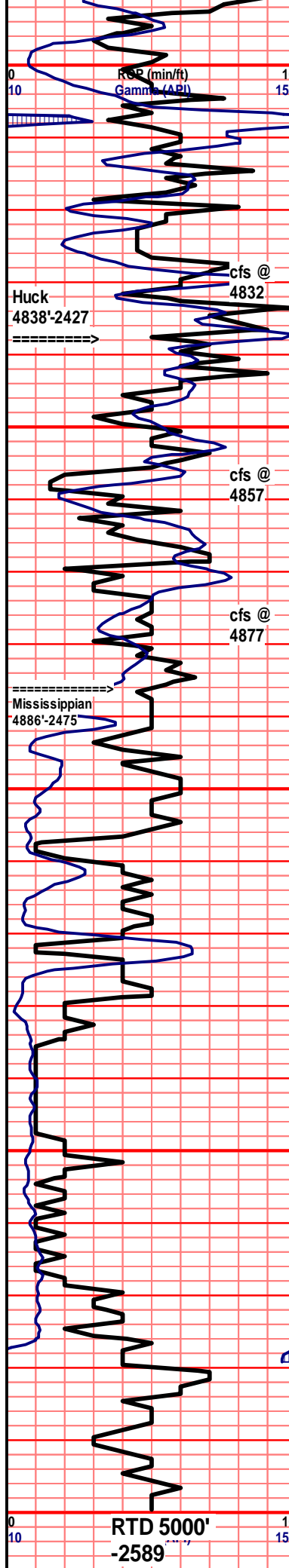
4770: aa no sig change, slight incrs in brwn chrt lm,
 dense, no vis por, no odr, ns.

4780: incrs in gry & blk carb sh, crm-brwn inxln lm,
 poor por, one brwn fn xln lm w/ fair vuggy por, w/ lght
 brwn stn, no odr.

4790: mstly blk carb sh, crm xln lm, dense semi chrt,
 no odr, ns.

4800: incrs in gry sh, brwn-tan xln lm, poor xln por,





DST #4: 4762' - 4832' (Fort Scott & Cherokee) Recovered 1575' gas in pipe and 31' slight oil cut mud (3% oil, 97% mud). IFP:71-74#/30" ISIP:214#/45" FFP: 69-78#/45" FSIP: 275#/60"

30MIN: lots of crm chlky lm, shw of wht chrt, mstly tan-crm xln lm, foss, cemnt flooded, no odr, ns. 60MIN: same as thirty, incrs in grny slty sh, mstly brwn-gry foss lm, dense, no odr, ns.

DST #5: 4822' - 4857' (Huck) Recovered 2898' gas in pipe, 378' clean gassy oil (20% gas, 80% oil). Gravity 44°, 63' slight gassy muddy oil (5% gas, 15% mud, 80% oil) and 63' gassy oily mud (40% gas, 25% oil, 35% mud). Total fluid 504' (21% gas, 73% oil, 6% mud).IFP:93-136#/30" ISIP: 307/45" FFP: 149-210#/45" FSIP: 302#/60"

30MIN: crm-drk crm inxln lm, fair inxln por, shw of brwn oil, lots of stns, fair-strng odr. 60MIN: lots of gry, blk & aqua sh, mstly wht, cr and yellow chrt, few lm w/ show aa, no odr.

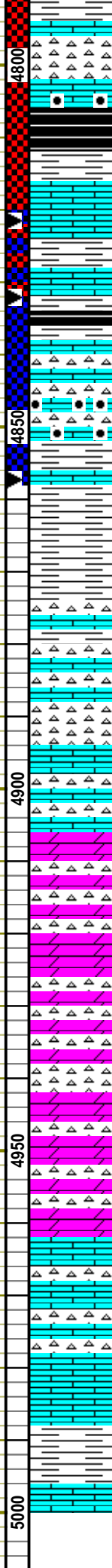
30MIN: mstly gry & aqua sh, lots of yellow-wht sli floss chrt, lots of wht grain stn chrt lm, poor-fair intr prtcl por, no odr, ns. 60MIN: same as thirty, incrs in wht chrt & chrt lm, no odr, ns.

10/07/2013 mud info.
wt: 9.5
Funnel Vis. 56
Filtrate API: 8.8
Chloride 7,600
LCM # 1

PUMP PRESSURE 950+

10/08/2013 mud info.
wt: 9.2
Funnel Vis. 63
Filtrate API: 8.8
Chloride 5,300
LCM # 1 1/2

30MIN: mstly chl, mstly gry xln lm, no vis por, no odr, ns. 60MIN: mstly lght gry inxln lm, poor-no por, shw of wht chrt, incrs in gry sh, greenish dolo chrt, no odr, ns.



weak brwn oil stn, no odr.

4810: incrs in wht-brwn chrt, lots of brwn chrt lm, tan pack stn lm w/ fair-poor intr prtcl por, shw of lght brwn oil, ns, fair-strng odr.

4820: incrs in chlky lm & blk carb sh, aa, incrs in wht chrt, shw rocks aa, weak-fair odr.

4830: brwn pack-micrtic lm, fair intr prtcl por, shw of lght brwn oil, mstly brwn-gry xln lm, foss, cemnt flooded fracs, ns, v. faint odr.

4840: mstly gry, aqua & blk carb sh, incrs in chlky lm, few brwn fn xln lm w/ algal cemnt flooded por, no odr, ns.

4850: incrs in crm-drk tan xln lm, fn xln in prt, sli foss, dense, poor-no por, no odr, ns.

4860: mstly gry & aqua sh, incrs in wht-yellow chrt, tan chrt pack stn lm, well cemntd, ssfo, no odr.

4870: mstly gry & aqua sh, lots of wht-yellow chrt, no vis por, no odr, ns.

4880: chrt-sh aa, tan-drk tan fn xln lm, sli chrt, dense, no odr, ns.

4890: aa, no sig change.

4900: gry-aqua sh, wht-yellow chrt, tan xln lm, v. dense, no vis por, no odr, ns.

4910: incrs in v. lght crm chrt lm, dense, no vis por, pyrtzd, incrs in chlky lm, no odr, ns.

4920: aa, decrse in chlky lm, no odr, ns.

4930: shw of lght gry chrt dolo, dense, no vis por, incrs in chl-chlky lm, no odr, ns.

4940: aa, incrs in lght gry chrt dolo, exclnt vuggy disloution por, well cemntd, no odr, ns.

4950: aa, incrs in chl, no odr, ns.

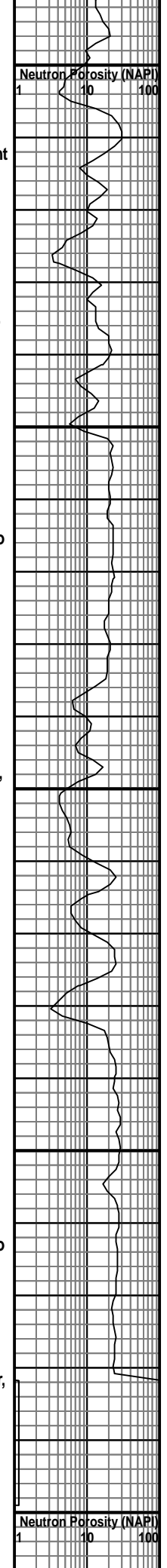
4960: mstly lght gry-v. lght brwn chrt dolo/lm, fair vuggy por, no odr, ns.

4970: aa, incrs in por, no odr, ns.

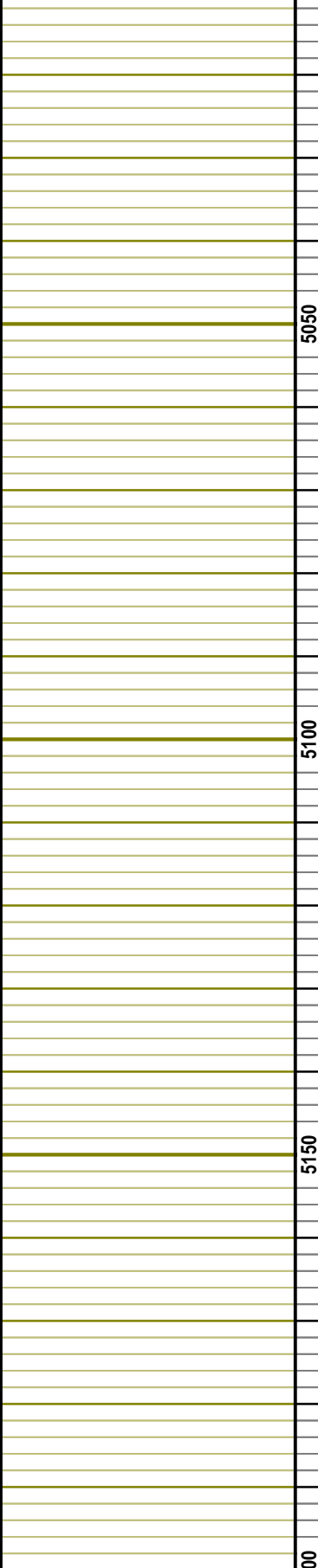
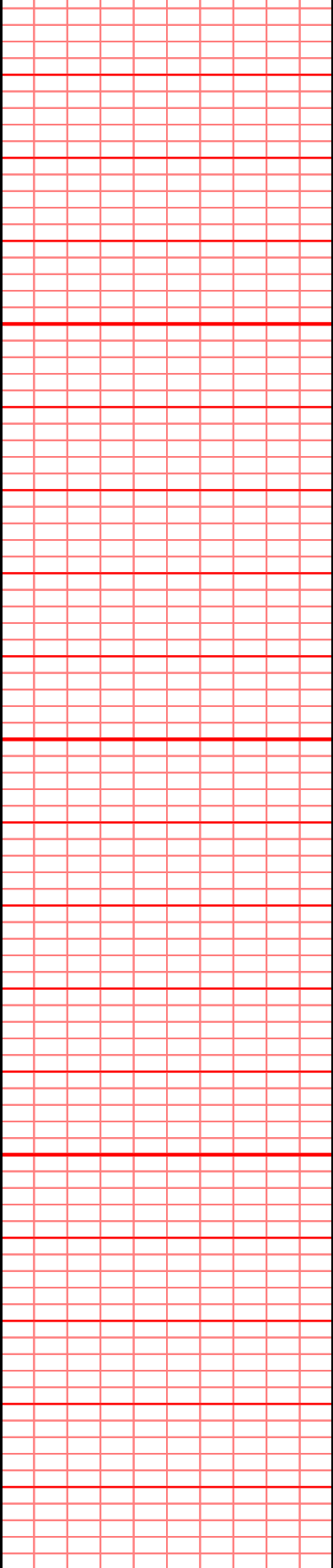
4980: tan-lght brwn chrt lm, exclnt big vuggy por, no odr, ns.

4990: aa, slght incrs in chl, no odr, ns.

5000: sig incrs in chl, tan-lght gry xln lm, no vis por, no odr, ns.



RTD 5000'
-2589



5050

5100

5150

00

