

Adam Eldani Geo-Log/Report

WellSight Systems

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

Measured Depth Log

Well Name: #1BLEW

Location: SEC 11-TOWNSHIP 28S- RANGE 23W FORD COUNTY

License Number: API 15-057-20902

Region: KANSAS

Spud Date: 7/05/2013

Drilling Completed: 7/16/2013

Surface Coordinates: 1700' FNL & 985' FWL

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

Coordinates:

Ground Elevation (ft): 2430'

K.B. Elevation (ft): 2430'

Logged Interval (ft): 3400 To: 5210

Total Depth (ft): 5210

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: 1440'+1000	Anhydrite: 1438'+1002
B/Anhydrite: 1470'+970	B/Anhydrite: 1468'+972
Stotler: 3546'-1106	Stotler: 3546'-1106
Heebner: 4215'-1775	Heebner: 4215'-1775
Lansing: 43859'-1919	Lansing: 4359'-1919
Muncie Sh: 4548'-2108	Muncie Sh: 4548'-2108
Stark Sh: 4698'-2258	Stark Sh: 4695'-2255
Hush Sh: 4743'-2303	Hush Shale: 4740'-2300
BKC: 4773'-2333	BKC: 4768'-2328
Marmaton: 4830'-2390	Marmaton: 4831'-2391
Altamont: 4860'-2420	Altamont: 4860'-2420
Pawnee: 4903'-2463	Pawnee: 4901'-2461
Cherokee Sh: 4951'-2511	Cherokee Sh: 4947'-2507
Huck: 5032'-2592	Huck: 5032'-2592
Atoka: 5045'-2605	Atoka: 5043'-2603
Morrow: 5061'-2621	Morrow: 5046'-2606
Miss: 5087'-2647	Miss: 5083'-2643
RTD: 5210'-2770	LTD: 5210'-2770

DAILY DRILLING REPORT:

DATE DEPTH:

7/05 364'
7/06 750'
7/07 2470'
7/08 3210'
7/09 3845'
7/10 4510'
7/11 4900'
7/12 4918'
7/13 4980'
7/14 5053'
7/15 5082'
7/16 5210'

Misc.

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

RIG: VAL ENERGY, INC. #1
TOOL PUSHER: RICK SMITH
MUD: MUD CO. (JUSTIN WHITING)
GAS DETECTOR: MBC

DRILL STEM TEST'S: SUPERIOR TESTERS INC.

LOGS: NABORS (JASON CAPPELLUCCI)

OFFICE: PETER FIORINI

Comments

Moved in and rigged up. Spud at 7:00 a.m. Ran 8 jts new 23# 8-5/8" surface casing. Tally at 351.08', set at 364'. Cemented with 250 sacks common, 2% gel, 3% cc. Cement circulated. Plug down at 3:15 p.m. Drilled out plug at 11:15 p.m.

AFTER THE RESULTS OF SAMPLE LOGGING, ELECTRIC LOGGING, AND ALL DST TESTS ANALYSIS & CALCULATIONS; IT WAS DECIDED TO RUN 5 1/2 INCH PRODUCTION CASING TO FURTHER TEST THE #1 BLEW FOR GAS & OIL COMMERCIAL QUANTITIES.

Ran 5 1/2" 15.5# new production casing, set at 5207'. Port collar at 1388'. Insert at 5186'. Pumped 500 gallons mud flush. Cemented casing with 250 sacks OWC + 10% Salt + 2% Gel + 0.25% CDI-26 + 5# per sack KolSeal. Plug down at 12:30 p.m. Plugged rat hole with 30 sacks, and mouse hole with 20 sacks.


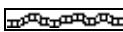
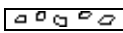


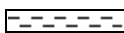







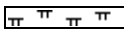
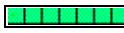
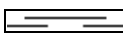
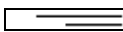
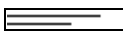



Well Log Surveys BY: NABORS. Compensated Denisty/ Neutron Log, Dual Induction.

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
--	---	--	---	--

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  Wackst
---	---	--	---	---

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

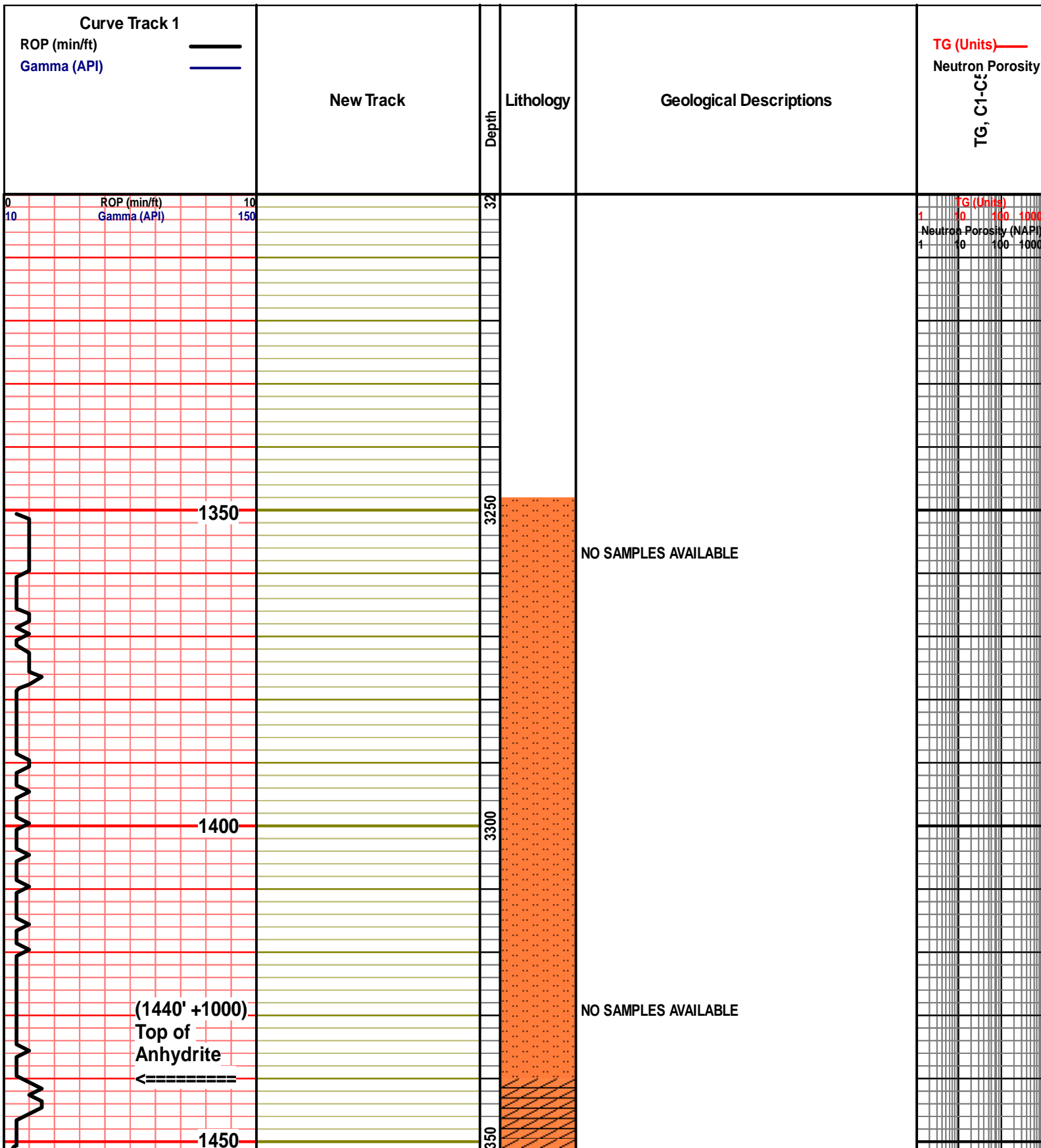
- X aiming_1

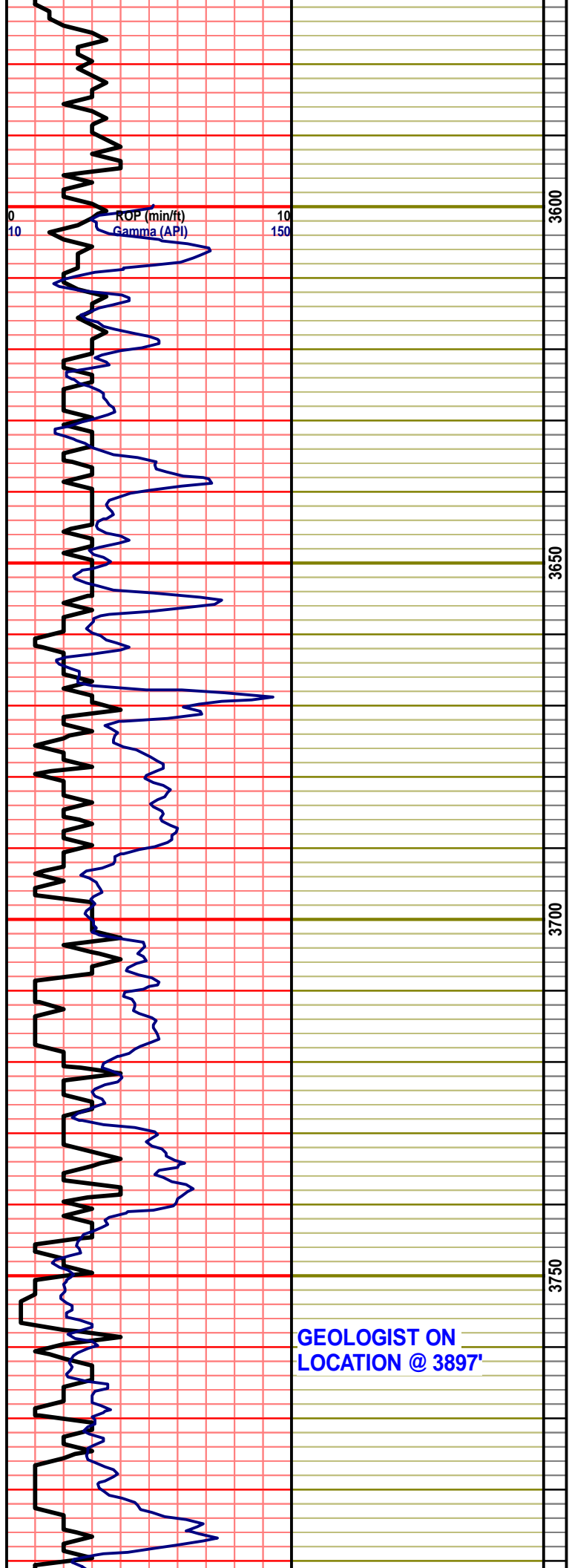
- Even
- Spotted
- Ques
- Dead

- INTERVAL**
- Core
 - Dst

- Dst_alt
- Dst

- EVENT**
- ▽ Rft
 - ▾ Sidewall





ROP (min/ft)
Gamma (API)

3600
3650
3700
3750

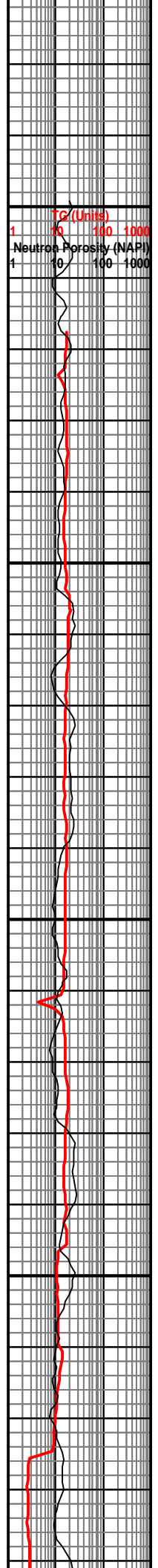
GEOLOGIST ON
LOCATION @ 3897'

NO SAMPLES AVAILABLE

NO SAMPLES AVAILABLE

NO SAMPLES AVAILABLE

NO SAMPLES AVAILABLE



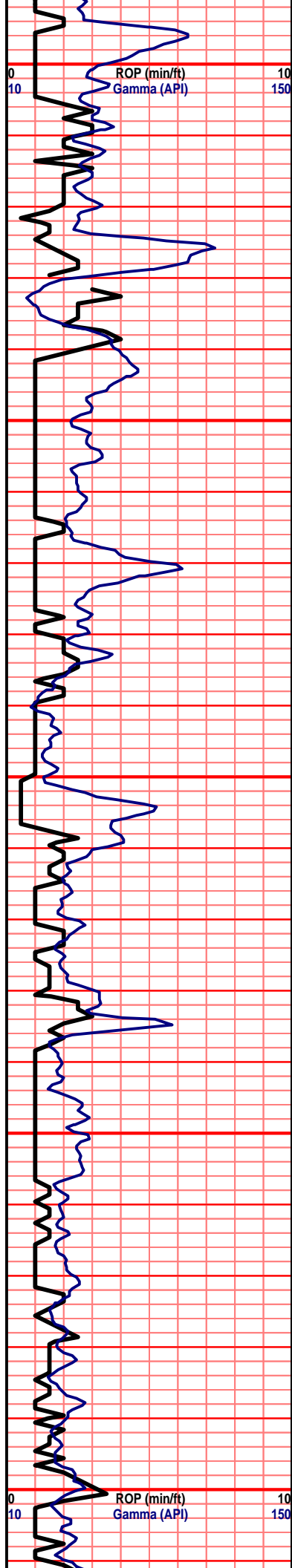
Gamma (Units)
Neutron Porosity (NAPI)

1
1

10
10
100
100
1000
1000

3600
3650
3700
3750

NO SAMPLES AVAILABLE

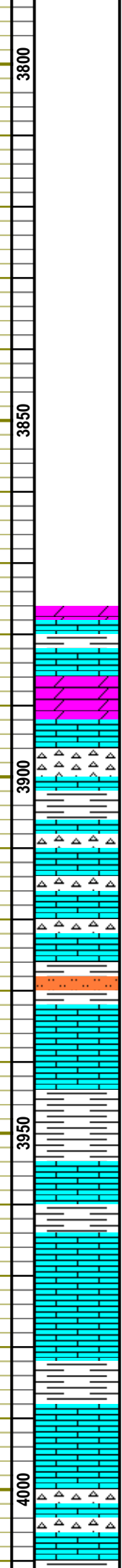


MUD DISPLACEMENT @
3822

PUMP PRESSURE 950+

7/09/2013
mud info.
wt: 9.0
Funnel Vis. 46
Filtrate API: 10.4
Chloride 6,400
LCM # 0

PUMP PRESSURE 950+



NO SAMPLES AVAILABLE

3900: mstly gry and maroon sh, few buff dolo, crm fn xln lm, poor por, no odr, ns.

3910: aa, no sig change.

3920: mstl gry & maroon sh, incrs on tan foos lm, fair por, incrs in crm chrty lm, no odr, ns.

3930: aa, incrs in crm chrty lm, incrs in crm fn xln lm, no vis por, no odr, ns.

3940: incrs in chrt nod, mstly fn xln crm lm, incrs in lght crm chlky lm, no odr, ns.

3950: aa, incrs in green sh & gry slit stn.

3960: aa, no sig change.

3970: mstly crm inxln lm, poor inxln por, lots of gry slit stn, no odr, ns.

3980: incrs in drk gry sh, mstly crm inxln lm, poor inxln por, no odr, ns.

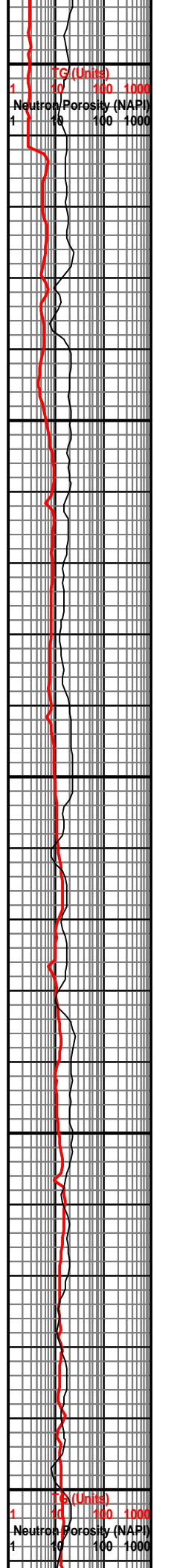
3990: incrs in maroon sh & red paleo-sols, mstly crm inxl lm, poor inxln por, no odr, ns.

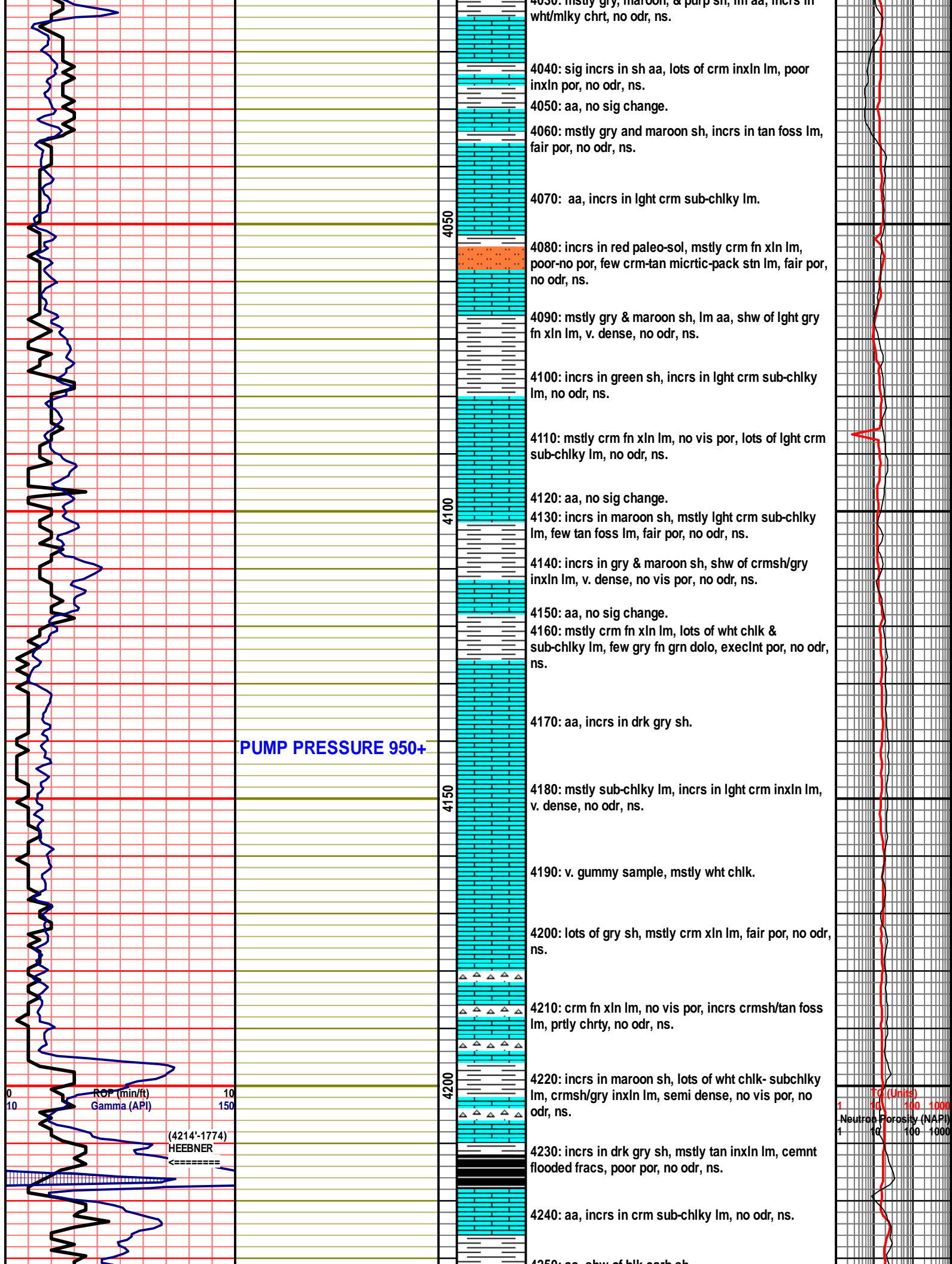
4000: aa, incrs in lght crm sub-chlky lm, no odr, ns.

4010: mstly gry, maroon & purp sh, crm inxln lm, poor inxln por, incrs in foss chrty lm, no odr, ns.

4020: aa, incrs in crm fn xln lm, poor-no por, no odr, ns.

4030: mstly gry, maroon & purp sh, lm aa, incrs in

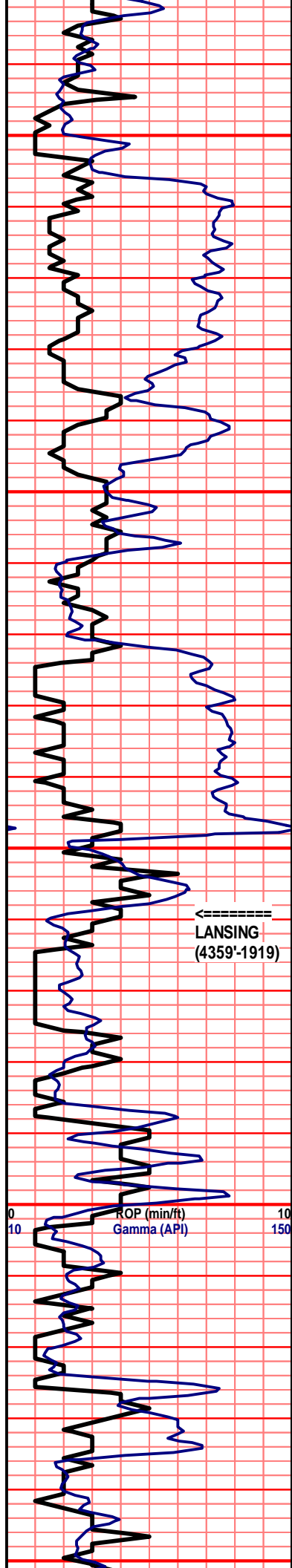




PUMP PRESSURE 950+

ROP (min/ft)
 Gamma (API)
 (4214'-1774)
 HEEBNER

TO (Units)
 Neutron Porosity (NAPI)



←-----
LANSING
(4359-1919)

PUMP PRESSURE 950+

7/10/2013
mud info.
wt: 9.2
Funnel Vis. 52



4230: aa, shw of blk carb sh.

4260: incrs in blk carb sh, mstly crm sub-chlky lm, tan pack stn lm, prtly xln, poor-fair por, no odr, ns.

4270: incrs in green and gry sh, mstly sub-chlky lm, shw of lght gry inxln lm, dense, sli foss, no odr, ns.

4280: v. gummy smple, tan inxln lm, cemnt flooded fracs, no odr, ns.

4290: mstly wht chlk, incrs in gry sh, tan-brwn xln lm, foss, no vis por, no odr, ns.

4300: aa, no sig change.

4310: mstly tan pack stn lm, sli foss, xln in prt, no odr, ns.

4320: incrs in gry sh, mstly tan xln lm, poor por, no odr, ns.

4330: mstly maroon sh, crm-tan xln lm, cemnt flooded, no odr, ns.

4340: NO SAMPLE CAUGHT.

4350: mstly maroon & gry sh, crm-lght tan inxln lm, sli chrty, no vis por, no odr, ns.

4360: aa, incrs in gry inxln lm, no vis por, no odr, ns.

4370: mstly tan-lght brwn inxln lm, v. dense, no vis por, incrs in drk crm sub-chlky lm, no odr, ns.

4380: incrs in gry sh, mstly chlky gummy clusters, lm aa.

4390: aa, incrs in tan-brwn inxln lm, cemnt flooded, fracs, no vis por, no odr, ns.

4400: aa, incrs in gry & maroon sh, lots of chlky lm, no odr, ns.

4410: crm-gry inxln lm, dense, no vis por, no odr, ns.

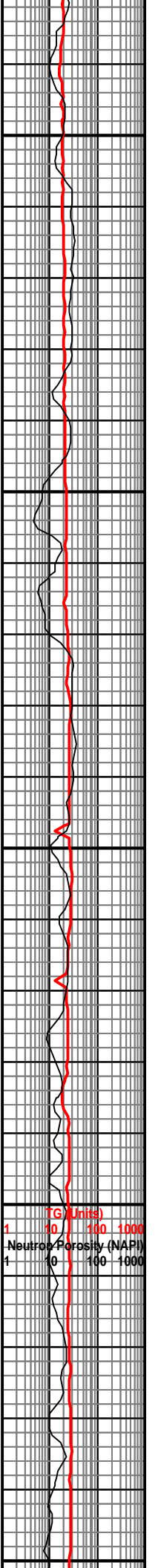
4420: aa, incrs in gry sh, incrs in wht chlk & sub-chlky lm, no odr, ns.

4430: lght crm- crm inxln lm, poor por, cemnt flooded, no odr, ns.

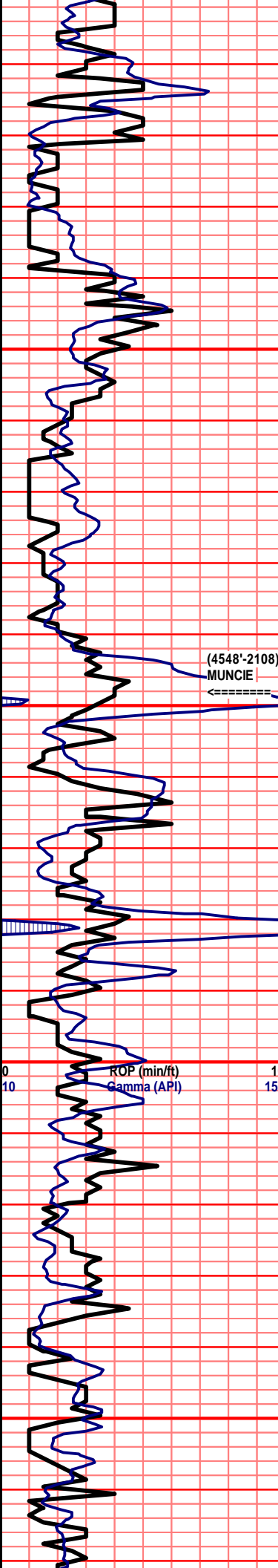
4440: incrs in wht chlk, lm aa, few foss chrty/lm chps, no vis por, few clusters drk tan dolo/lm, well cemntd, fair por.

4450: mstly crm xln lm, v. dense, hrd to brk, no odr, ns.

4460: incrs in gry sh, lm aa, few gry chrt chps, no odr, ns.

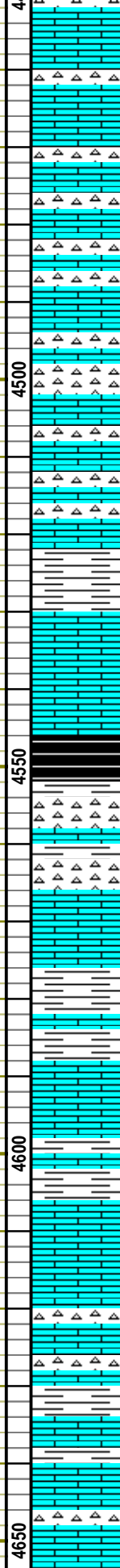


Filtrate API: 13.2
Chloride 8,000
LCM # 0



PUMP PRESSURE 950+

PUMP PRESSURE 950+



4470: incrs in wht-gry chrt, mstly brwn-gry inxln lm, dense, no vis por, no odr, ns.

4480: crm-gry xln lm, cemnt flooded, poor-no por, incrs in chlk, no odr, ns.

4490: aa, crm-tan chrt lm, no vis por, incrs in drk gry sh, no odr, ns.

4500: tan-crm inxln lm, v. dense, no vis por, incrs in gry chrt, few blk carb sh.

4510: incrs in gry inxln lm, v. dense, no vis por, incrs in wht chrt, sli foss, no odr, ns.

4520: mstly wht chrt, crm micrtic lm, v. well cemntd, hrd to brk, no vis por, no odr, ns.

4530: aa, slight incrs in drk green sh & wht chlk, no odr, ns.

4540: shw of blk carb sh, lots of wht chrt, sli foss, crm-brwn inxln lm, dense, no vis por, no odr, ns.

4550: incrs in drk gry slty sh, mstlytan-brwn inxln lm, cemnt flooded, no odr, ns.

4560: aa, decrse in sh, incrs in wht chlk/ sub-chlky lm, no odr, ns.

4570: tan fn xln lm, dense, no vis por, incrs in gry chert, no odr, ns.

4580: mstly tansh gry inxln lm, poor-no inxln por, incrs in drty wht chrt, no odr, ns.

4590: aa, incrs in crmsh/tan sub-chlky lm, no odr, ns.

4600: crm-tansh/gry inxln lm, dense, no vis por, few chlky lm, dense, no odr, ns.

4610: aa, incrs in lght crm fn xln lm, dense, no vis por, incrs in gry sh.

4620: sig incrs in gry & maroon sh, mstly lght crm-gry inxln lm, dense, poor-no por, no odr, ns.

4630: aa, incrs in gry-brwn pack-grain stn lm, well cemntd, poor por, no odr, ns.

4640: incrs in green sh, incrs in tan chrt lm, no vis por, no odr, ns.

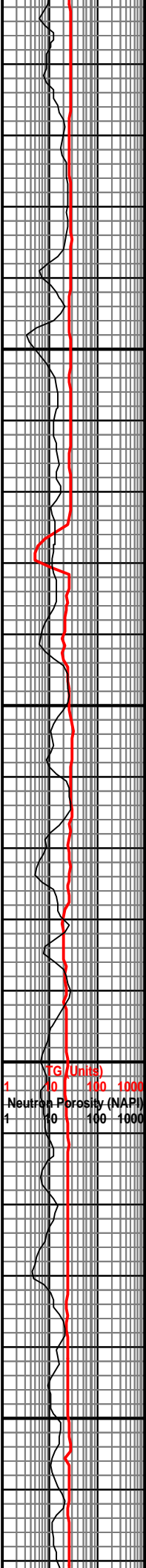
4650: mstly gry inxln lm, incrs in wht chrt, no odr, ns.

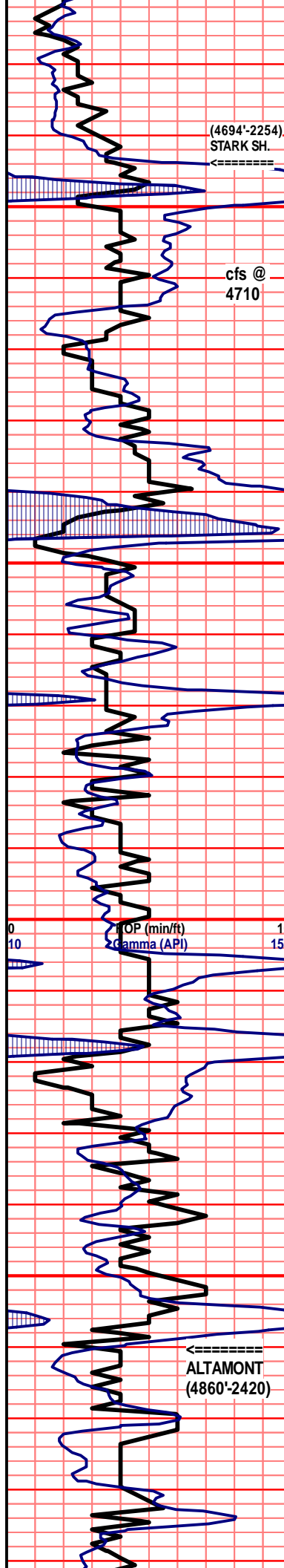
4660: lots of drk gry sh, mstly tan inxln lm, sense, few tan foss lm, well cemntd, no odr, ns.

4670: sig incrs in brwnsh/gry inxln lm, s. foss, poor inxn por, no odr, ns.

4680: aa, incrs in brwn chrt lm, no odr, ns.

4690: mstly greenish/gry sh, incrs in tan pack stn lm





(4694'-2254)
STARK SH.

cfs @
4710

30MIN: shw of blk carb sh, mstly chlky lm, few tan-crm inxln lm, dense, no vis por, few chps of tan ool cast lm, execlnt por, no odr, ns. 60MIN: tan xln lm, v. dense, few ool cast chps, lots of gry sh, few blk carb sh, no odr, ns.

7/11/2013
mud info.
wt: 9.15
Funnel Vis. 47
Filtrate API: 12.8
Chloride 7,900
LCM # 2

PUMP PRESSURE 950+

7/012/2013
mud info.
wt: 9.05
Funnel Vis. 50
Filtrate API: 12.0
Chloride 10,800
LCM # 2

7/13/2013
mud info.
wt: 9.0
Funnel Vis. 83
Filtrate API: 11.6
Chloride 11,400
LCM # 2

Sure Shot: Straight Hole Survey: 3/4 degree.

ALTAMONT (4860'-2420)

DST #1: 4891' - 4918' (Pawnee) Recovered 1260' slightly mud and gas cut water with trace of oil (2% gas, 3% mud, 95% water). Chlorides



4690: mstly greenish/gry sh, incrs in tan pack sur lm, fn-med grn, poor por, no odr, ns.

4700: aa, incrs in maroon sh, sig incrs in chlk & chlky lm, no odr, ns.

4710: aa, tan ool lm, poor-fair por intr prtcl por, no odr, ns.

4720: incrs in blk sh, mstly brwn-gry inxln lm, dense, sli foss, no odr, ns.

4730: incrs in gry sh, tan ool lm, cemnt flooded, no vis por, incrs in wht chlky lm, no odr, ns.

4740: aa, no sig change.

4750: mstly tan inxln lm, poor inxln por, lots loose pyrt, no odr, ns.

4760: incrs in carb blk sh, incrs in mlky chrt, tan pack stn lm, cemnt flooded, poor por, no odr, ns.

4770: lots blk carb sh, mstly gry inxln lm, foss, poor-no inxln por, no odr, ns.

4780: mstly gry & blk carb sh, incrs in wht chlk & chlky lm, tan xln lm, no vis por, no odr, ns.

4790: mstly drk gry sh, tan-drk crm inxln lm, dense, no vis por, no odr, ns.

4800: lm aa, incrs in blk carb sh, lots of drk gry foss, vhr, no odr, ns.

4810: gry-tan xln lm, sli chrt, lots of gry chrt, foss, no vis por, no odr, ns.

4820: aa, incrs in gry & blk carb sh, incrs in drk tan xln lm, fn xln in prt, no odr, ns.

4830: gry foss lm, xln in prt, poor por, no odr, ns.

4840: incrs in gry sh, mstly crm inxln lm, dense, no odr, ns.

4850: aa, sli incrs in cm chlky lm, gry micrtic lm, well cemntd, poor por, no odr, ns.

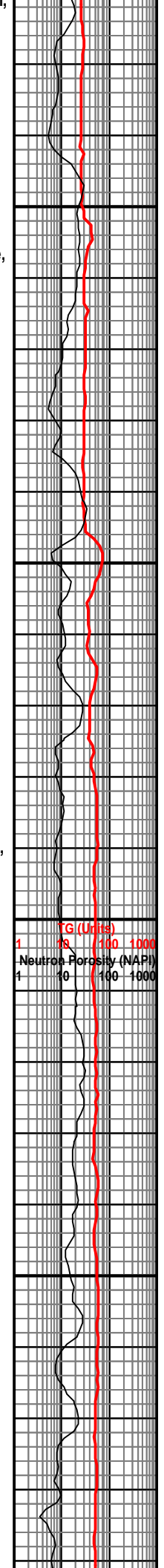
4860: aa incrs in gry sh, few red paleo sols.

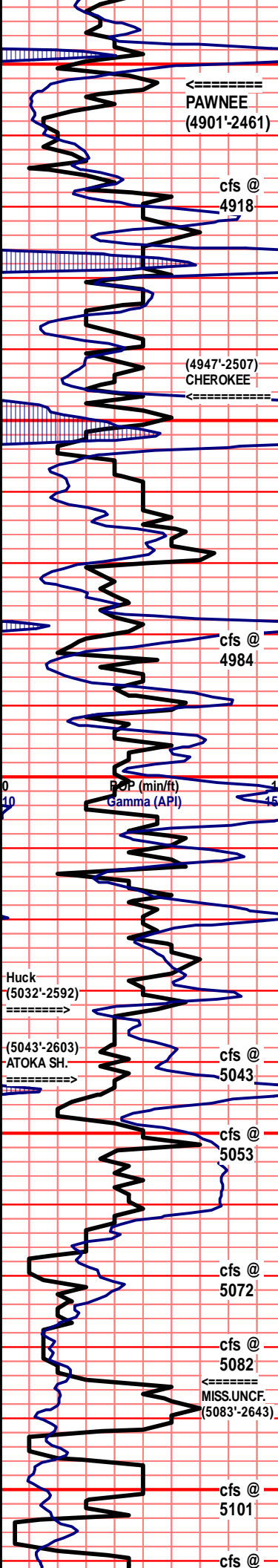
4870: incrs in crm chlk, lots of gry sh, shw of lght crm fn xln lm, dense, no odr, ns.

4880: incrs in green and blk carb sh, crm xln lm aa, gry micrtic lm, well cemntd, sli xln, no odr, ns.

4890: mstly gry, green and blk sh, few gry-blk foss chrt, gry inxln lm, poor inxln por, no odr, ns.

4900: mstly lght crm inxln lm, poor por, no odr, ns.





220,000

IFP:109-362#/30"

ISIP:1550#/45"

FFP:369-665#/45"

FSIP:1533#/60"

30MIN: lots of blk & green sh, gry-crm inxln lm, dense, no vis por, lots crm chlky lm, dense, no odr, ns. 60MIN: lots of blk carb sh, mstly crm chlky lm, gry inxln lm, dense, few tan coral frag, no odr, ns.

DST #2: 4967' - 5053' (Huck) Recovered 15' mud.

IFP: 72-74#/30" ISIP: 87#/30"

FFP: 75-83#/30" FSIP: 93#/30"

DST #3: 5036' - 5082' (Morrow) GTS 1 minute into initial open. 1" choke. Initial flow period 30". Gauged N/A Final flow period 60". Gauged 3,708 mcf/5"

6,166 mcf/10"

6,166 mcf/20"

6,951 mcf/30"

6,166mcf/40"

7,600 mcf/50"

7,121 mcf/60"

7,121 mcf/70"

7,121mcf/80"

7,121 mcf/90"

721BTU

Recovered no fluid all gas, only condensate in tool.

IFP:1521-1525#/30" ISIP:1583#/45"

FFP:1567-1559#/90"

FSIP:1573#/120"

30MIN: mstly crm-brwn inxln lm, dense, no vis por, few sli micrtic fn grn lm w/ ?able stn, one chp w/ slight gas show, no odr, ns. 60MIN: sig incrs in crm chlky lm, few fn xln lm chps w/ vuggy por, fresh brwn oil stn, v. weak odr, ns.

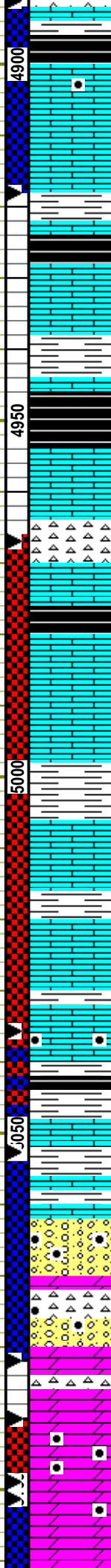
30MIN: mstly tan-crm inxln lm, dense, poor inxln por, incrs in green and gry sh, abundance of crm chlky lm, no odr, ns. 60MIN: slight incrs in igreen sh, mstly crm chlky lm, few chps fn xln lm, w/ fair channel por w/ slight brwn oil stn, v. weak odr.

30MIN: sh: yellow, gry, purp, maron & mstly Aqua green. few qtz ss clusters, sub-rounded, cors-med grn, well sortd, poorly graded, fairly cemntd, one clustr w/ gas shw upon brkng, no odr, ns. 60MIN: sh same as thirty smaple. incrs in brwn chrty lm, foss, no vis por, one chp w/ frac oil stn, few clr qtz ss, sub-rounded, well sortd, well graded, few clustr w. a shw of free tary oil, faint odr.

30MIN: sh aa, ss aa, incrs in loose sand sed, incrs in brwn foss lm, poor por, incrs in odr, lots of scat stn. 60MIN: incrs in gry sh, incrs in loose cors grn qtz sand, incrs in chrty dolo/lm, no odr, ns, no odr.

30MIN: buff-wht chrty dolo, v hrd to to brk few chps w/ lght shw, fair odr. 60MIN: incrs in buff fn grn dolo, well cemntd, shw of brwn free oil, strong odr.

30MIN: mstly gry maroon & green sh, buff



4910: aa, incrs in lght crm chlky lm, incrs in translucent sli foss chrt, no odr, ns.

4920: crm inxln lm, no vis por, two chps w/ drk tary oil stn, fair flour, slight odr.

4930: mstly gry and green sh, lots of wht chlk, loose pyrt, crm-tan inxln lm, dense, poor-no por, no odr, ns.

4940: aa, sig incrs in drk crm chlky lm.

4950: mstly gry & blk carb sh, tan-crm inxln lm, v. dense, loose wht foss chrt, no odr, ns.

4960: slight incrs in blk carb sh, crm, brwn-gry inxln lm, dense, no vis por, no odr, ns.

4970: aa, incrs in crm chlky lm.

4980: lots of blk carb sh, incrs in wht-gry chrt, sli foss, mstly crm inxln lm, v. dense, no odr, ns.

4990: mstly brwn xln lm, cemnt flooded, no vis por, incrs in foss wht chirt, no odr, ns.

5000: aa, incrs in blk carb sh.

5010: lots of blk carb- maroon sh, mstly crm fn xln lm, poor-no por, no odr, ns.

5020: brwn-gry inxln lm, v. dense, foss, incrs in crm chlky lm, no odr, ns.

5030: brwn-crm inxln lm, poor inxln lm por, lots drk/dry crm chlky lm, no odr, ns.

5040: aa, incrs in blk carb & gry sh, shw of gry micortic lm, well cemntd, no odr, ns.

5050: mstly crm inxln lm, poor inxln por, no odr, ns.

5060: sh: yellow, maroon, aqua, gry, purp, & blk carb sh.

5070: aa, few clusters of green ss-sandy sh, cors-med grn, sub-rounded, well sortd, poorly graded, mod cemntd, no odr, ns.

5080: sh aa, few ss aa w/ tary oil stn, brwn chrty lm, dense, no vis por, few sub-chlky lm, w/ tary oil stn, fair odr.

5090: sh: gry, yellow, orange, purp, & green, incrs in tan fn xln lm, sli chrty, no vis por, one chpp w/ a tary stn, no odr, ns.

5100: aa, incrs in wht chrt, no odr, ns.

5110: mstly gry & green sh, lots of buff-gry fn grn dolo, fair intr prtcl por, shw of free brwn oil, fair odr.

5120: sh aa, lght brwn dolo lm, intr prtcl- vuggy por, well cemntd, shw of lght brown oil, strng odr.

5130: buff dolo/lm w/ shw aa, incrs in chlk, shw of crm inxln lm, poor inxln por, few lght crm sycrosc

