

# Adam Eldani Geo-Log/Report

## WellSight Systems

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

Measured Depth Log

Well Name: #1 Nau 25C

Location: SEC 25- twp 26S- rge 23W FORD COUNTY

License Number: API 15-057-20848

Region: KANSAS

Spud Date: 10/23/2012

Drilling Completed: 11/02/2012

Surface Coordinates: 2020' FSL & 1725' FWL

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

Coordinates:

Ground Elevation (ft): 2418

K.B. Elevation (ft): 2430

Logged Interval (ft): 3400 To: 5091

Total Depth (ft): 5090

Formation: Mississippian

Type of Drilling Fluid: Mud-Co Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

### OPERATOR

Company: Ritchie Exploration Inc. (drilled by DUKE #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

### misc.

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

DAILY DRILLING REPORT:

RIG: DUKE #1

TOOL PUSHER: MIKE GODREY

MUD: MUD CO. (JUSTIN WHITING)

GAS DETECTOR: EART TECH. CO.

DRILL STEM TEST'S: TRILOBITE TESTING, INC.

LOGS: NABORS (MIKE GARRISON)

OFFICE: PETER FIORINI

## Comments

Casing: 8 5/8" @ 372'

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

STRUCTURALLY, THIS WELL RAN: Lower to offset with exception to the Pawnee & other formation, All Oil Shows od Oil and High Gas Readings were tested.

AFTER SAMPLE LOGGING, MUD LOGGING, ELECTRIC LOGGING, AND ALL DST TESTS RESULTS.


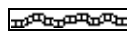
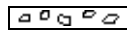


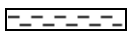







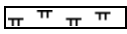
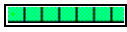
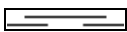
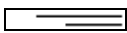
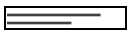



After evaluation of DST's and Electric Logs, 5 1/2" Production casing was set on the #1 NAU 25C for further testing for commerical quantities of oil and gas.

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

<b>MINERAL</b>  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	<b>FOSSIL</b>  Algae  Amph	 Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Fuss  Gastro  Oolite  Oomold  Ostra  Pelec	 Pellet  Pisolite  Plant  Strom	<b>TEXTURE</b>  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest	<b>STRINGER</b>  Anhy  Arg  Bent  Coal  Dol  Gyp  Ls  Mrst  Sltstrg  Ssstrg
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### OTHER SYMBOLS

<b>POROSITY</b>  Earthy  Fenest  Fracture  Inter  Moldic  Organic  Pinpoint	 Vuggy	<b>SORTING</b>  Well  Moderate  Poor	<b>ROUNDING</b>  Rounded  Subrnd  Subang  Angular	 Even  Spotted  Ques  Dead	 Dst_alt  Dst	<b>EVENT</b>  Rft  Sidewall	<b>OIL SHOW</b>  aiming_1	<b>INTERVAL</b>  Core  Dst
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1550

3300

3350

3400

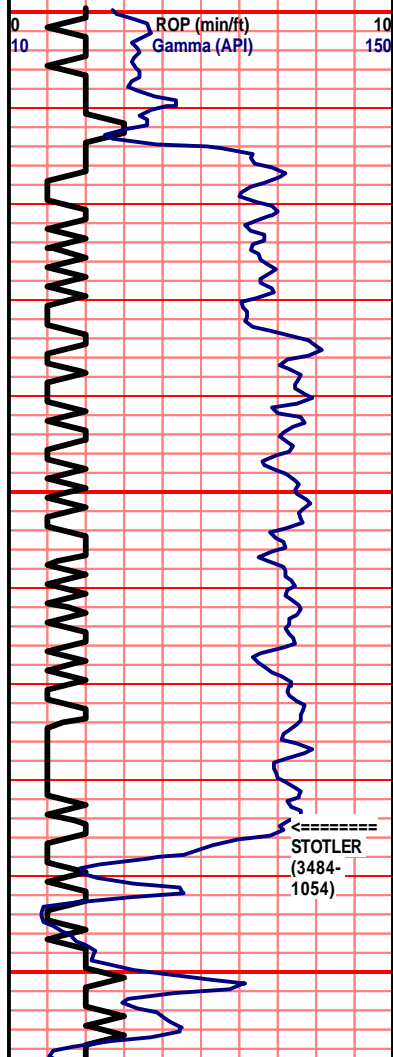
3450

3500

NO SAMPLE

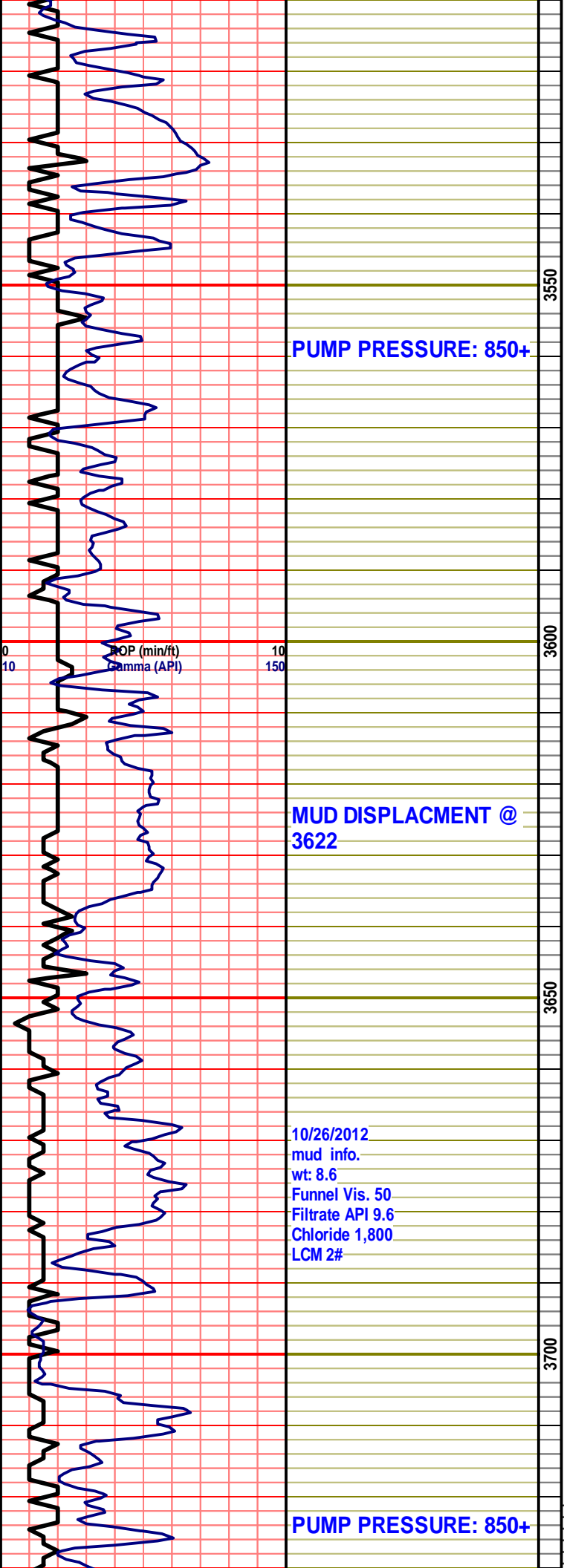
NO SAMPLES AVA.

NO SAMPLES AVA.



PUMP PRESSURE: 850+

1 10 100 1000  
TG C1-C5



NO SAMPLES AVA.

PUMP PRESSURE: 850+

ROP (min/ft)  
Gamma (API)

10  
150

NO SAMPLES AVA.

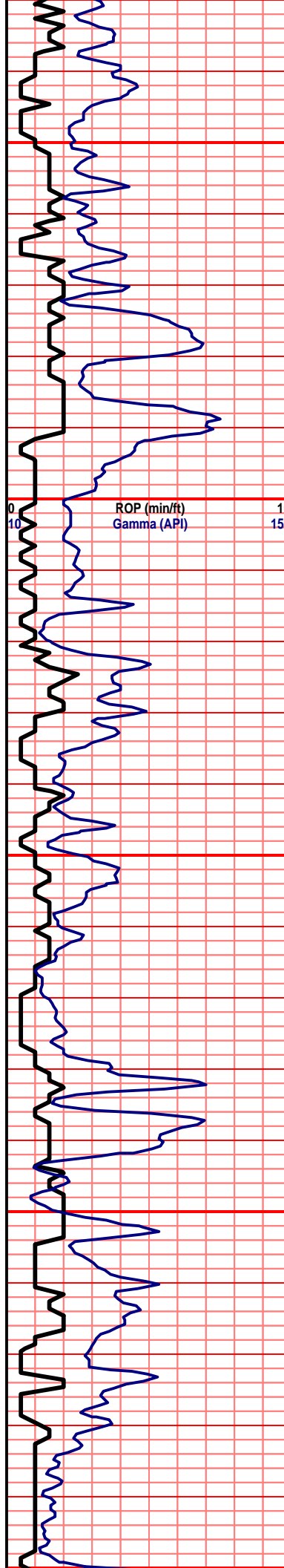
MUD DISPLACMENT @  
3622

10/26/2012  
mud info.  
wt: 8.6  
Funnel Vis. 50  
Filtrate API 9.6  
Chloride 1,800  
LCM 2#

NO SAMPLES AVA.

PUMP PRESSURE: 850+

TG C1-C5  
1 10 100 1000

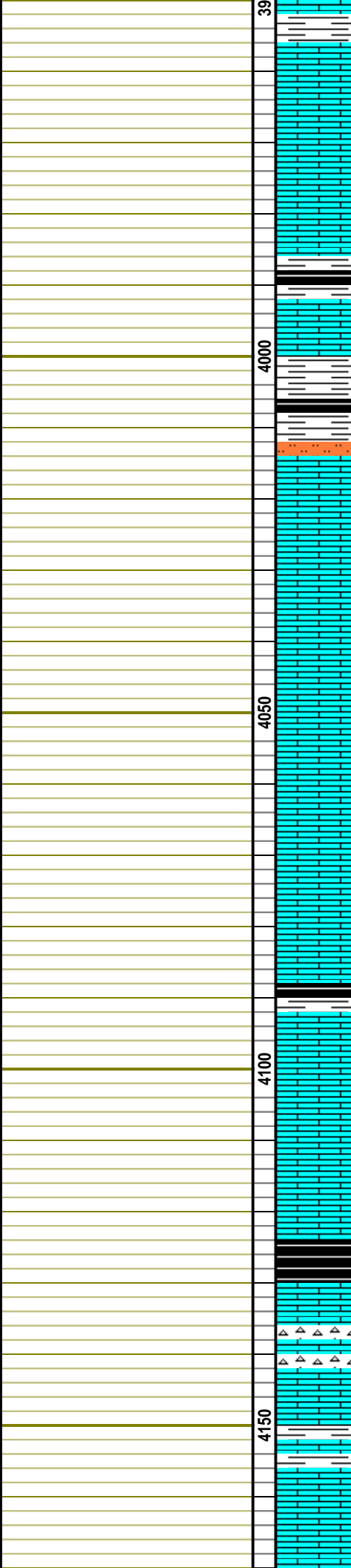
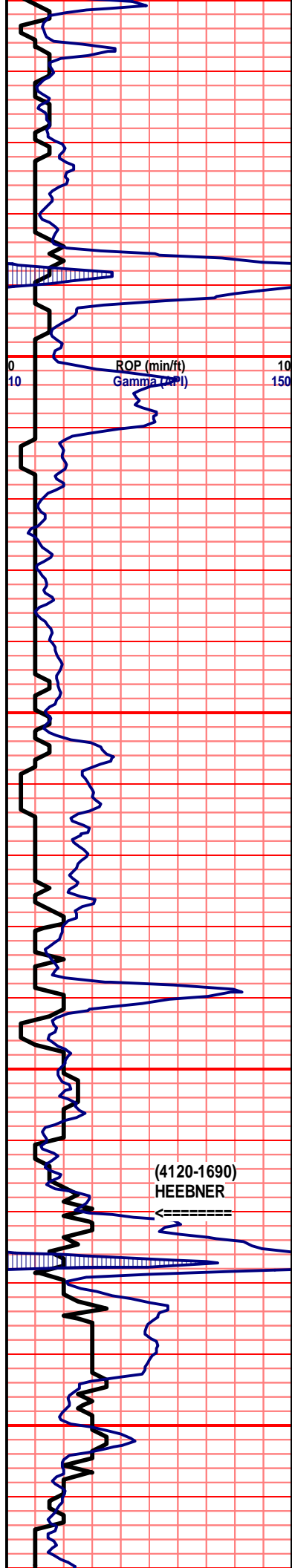


GEOLOGIST ON LOCATION @ 3777'



- 3800: lots of gry sh, drk crm grn stn lm, intr prtcl por, no odr, ns.
- 3810: crm pack stn, poor-fair por, no odr, ns.
- 3820: aa, incrs in gry sh.
- 3830: lots of gry sh, incrs in sub-chlky lm, crm pack stn lm, intr prtcl por, no odr, ns.
- 3840: aa, tan foss (fuss) lm, foss por, no odr, ns.
- 3850: aa incrs in foss lm, incrs lght crm chlky lm, no odr, ns.
- 3860: incrs in red and gold sh, tan-gry micrtic lm, poor por, no odr, ns
- 3870: incrs in mlky foss chrt, lm aa, no odr, ns.
- 3880: crm sub-chlky lm, sli foss, no odr, ns.
- 3890: gry foss lm, dense, well cemntd, tan micrtic lm, cmnt flooded, no vis por, no odr, ns.
- 3900: incrs in gry sh, lm aa, no odr, ns.
- 3910: crm-gry pack-grn stn lm, poor-fair por, no odr, ns.
- 3920: mstly gry, green and red sh. tan micrtic lm, no odr, ns.
- 3930: aa, incrs in wht-gry chrt.
- 3940: lots of chrt, tan-lght crm micrtic lm, no odr, ns.
- 3950: tan-crm inxln lm, poor inxln por, no odr, ns.
- 3960: aa, lots of mlky chrt.
- 3970: incrs in maroonand gry sh, lght crm inxln lm, poor inxln lm, no odr, ns.
- 3980: incrs in crm chrt and chrtly lm, no vis por, no odr, ns.

TG C1-C5  
1 10 100 1000



3990: crm-tan grn stn, fn grn, intr prtcl por, no odr, ns.

4000: gry inxln lm, poor por, lots of chrt.

4010: incrs in gry sh, incrs in crm chlk and subchky lm, no odr, ns.

4020: aa, no sig change.

4030: crm-drk tan micrtic lm, well cemntd, poor-no por, no odr, ns.

4040: lots of gry sh, drk tan pack stn, med grn, poor-no por, no odr, ns.

4050: shw of blk carb sh, incrs in pyrt, lm aa.

4060: incrs in drk crm chky lm, shw of gry slit stn, no odr, ns.

4070: aa, incrs in gry sh.

4080: mstly tan-drtly tan pack stn, fn grn, poor-fair por, no odr, ns.

4090: aa, no sig change.

4100: crm-tan micrtic lm, poor por, no odr, ns.

4110: crm-tan inxln lm, poor ixln por, no odr, ns.

4120: slight incrs in blk sh, lots of gry sh, few chps of blk carb sh, lm aa, no odr, ns.

4130: tan-lght gry fn xln lm, poor-no por, no odr, ns.

4140: aa no sig change, no odr, ns.

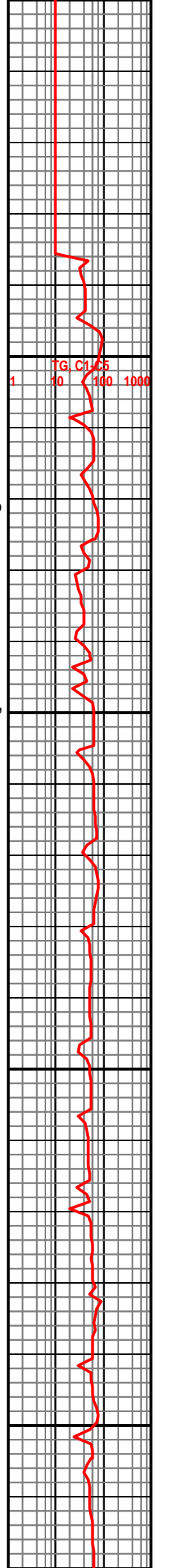
4150: lots of blk sh, tan cors xln lm, semi foss, poor por, no odr, ns.

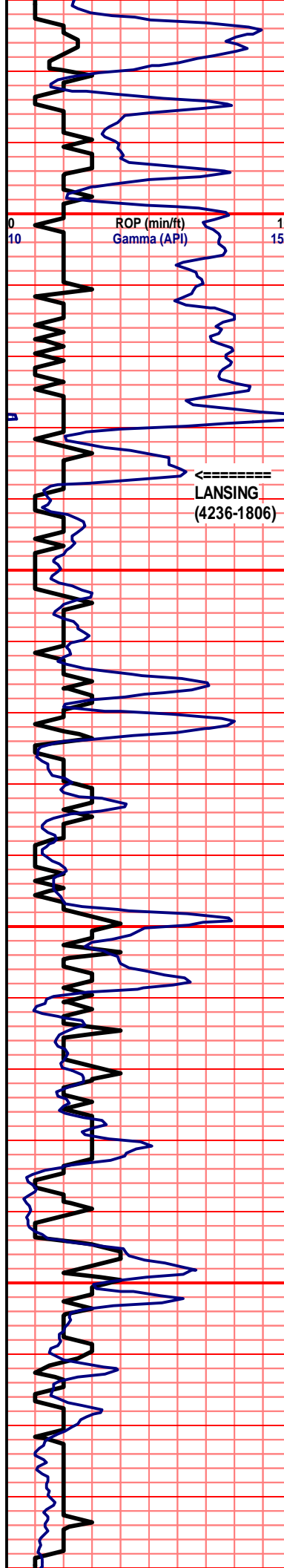
4160: tan inxln lm, semi chrt and foss, poor-no vis por, no odr, ns.

4170: lght crm fn xln lm, no vis por, no odr, ns.

4180: incrs in maroon and gry sh, tan-gry foss lm, highly pyrtzd, no vis por, no odr, ns.

4190: aa, drk crm-tan fn xln lm, sli foss, no vis por,





4200: incrs in gry sh, lm aa, incrs in crm sub chlky lm,

4210: aa sh, tan-drk brwn inxln lm, semi foss, cemntd floded vians, no vis por, no odr, ns.

4220: incrs in tan mictric lm, v. fn grn, no odr, ns.

4230: crm-gry inxln lm, foss, no vis por, no odr, ns.

4240: aa, no sig change.

4250: incrs in gry sh, tan cors xln lm, sli foss, well cemntd, poor por, no odr, ns.

4260: mstly gry and maroon sh, crm-lght gry fn xln lm, well cemntd, no vis por, no odr, ns.

4270: gry xln lm, big vuggy por, no odr, ns.

4280: incrs in whtsh-gry chrt, foss, incrs in drty crm mictric lm, no odr, ns.

4290: crm-gry chrt, gry-tan cors xln lm, dense, poor-no por, no odr, ns.

4300: crm inxln lm, poor inxln por, no odr, ns.

4310: incrs in gry sh, crm-tan-gry inxln lm, dense, poor por, no odr, ns.

4320: aa, incrs in foss and chrt.

4330: drk-lght crm lm, fn xln, pyrtzd, poor-no por, no odr, ns.

4340: aa, decrease in pyrtzation, few tan ool lm, cemnt floded, no vis por, no odr, ns.

4350: tan- brwnsh/gry inxlnb lm, v. dense, semi chrt, incrs in foss gry chrt, no odr, ns.

4360: lots of milky chrt, lots of lght tan chrt lm, poor-no por, no odr, ns.

4370: incrs in crm chl and sub-chlky lm.

4380: lots of wht and lght crm chrt, lght gry inxln lm, no vis por, no odr, ns.

4390: incrs in gry sh, incrs fn xln lm, foss, no odr, ns.

4400: lm aa, few chps tan-brwn ool cst lm, fair-execl por, no odr, ns.

4410: lots of wht-crm chrt, tan-gry inxln lm, dense, poor no por, no odr, ns.



no odr, ns.

4200: incrs in gry sh, lm aa, incrs in crm sub chlky lm,

4210: aa sh, tan-drk brwn inxln lm, semi foss, cemntd floded vians, no vis por, no odr, ns.

4220: incrs in tan mictric lm, v. fn grn, no odr, ns.

4230: crm-gry inxln lm, foss, no vis por, no odr, ns.

4240: aa, no sig change.

4250: incrs in gry sh, tan cors xln lm, sli foss, well cemntd, poor por, no odr, ns.

4260: mstly gry and maroon sh, crm-lght gry fn xln lm, well cemntd, no vis por, no odr, ns.

4270: gry xln lm, big vuggy por, no odr, ns.

4280: incrs in whtsh-gry chrt, foss, incrs in drty crm mictric lm, no odr, ns.

4290: crm-gry chrt, gry-tan cors xln lm, dense, poor-no por, no odr, ns.

4300: crm inxln lm, poor inxln por, no odr, ns.

4310: incrs in gry sh, crm-tan-gry inxln lm, dense, poor por, no odr, ns.

4320: aa, incrs in foss and chrt.

4330: drk-lght crm lm, fn xln, pyrtzd, poor-no por, no odr, ns.

4340: aa, decrease in pyrtzation, few tan ool lm, cemnt floded, no vis por, no odr, ns.

4350: tan- brwnsh/gry inxlnb lm, v. dense, semi chrt, incrs in foss gry chrt, no odr, ns.

4360: lots of milky chrt, lots of lght tan chrt lm, poor-no por, no odr, ns.

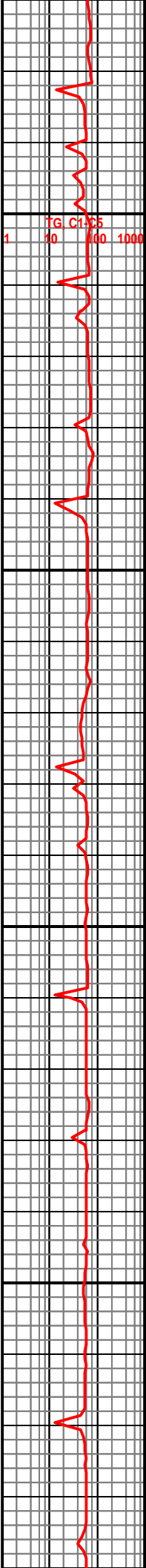
4370: incrs in crm chl and sub-chlky lm.

4380: lots of wht and lght crm chrt, lght gry inxln lm, no vis por, no odr, ns.

4390: incrs in gry sh, incrs fn xln lm, foss, no odr, ns.

4400: lm aa, few chps tan-brwn ool cst lm, fair-execl por, no odr, ns.

4410: lots of wht-crm chrt, tan-gry inxln lm, dense, poor no por, no odr, ns.

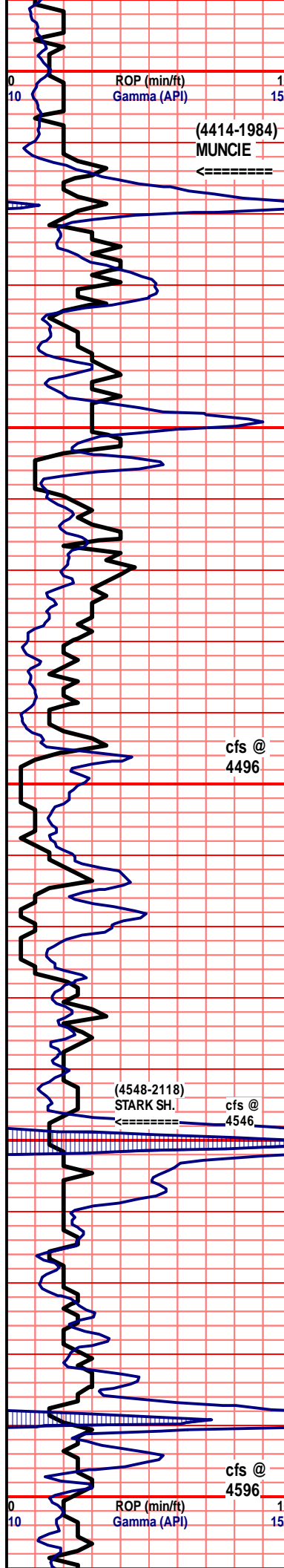


**PUMP PRESSURE:  
825+**

07/21/2011  
mud info.  
wt: 9.3  
Funnel Vis. 43  
Filtrate API 9.6  
Chloride 5,300

**MUD VIS. ADJUSTED TO 47 AFTER  
HOURS**





10/27/2012  
 mud info.  
 wt: 9.2  
 Funnel Vis. 54  
 Filtrate API 8.8  
 Chloride 3,200  
 LCM 2#

(4414-1984)  
 MUNCIE  
 ←-----

cfs @  
 4496

(4548-2118)  
 STARK SH.  
 ←-----

cfs @  
 4546

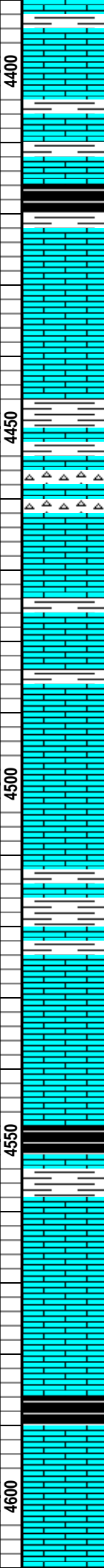
cfs @  
 4596

30MIN: incrs in gry sh, few chps of blk carb sh, mstly drk crm sub-chlky lm, some ool cast lm, lots of por, no odr, ns. 60MIN: lght crm inxln lm, semi dense, poor por, no odr, ns.

30MIN: lots of chlk and sub-chlky lm, gry inxln lm, semi dense, poor por, no odr, ns. 60MIN: incrs in gry sh, incrs in chlk, shw of lght brwn ool lm, cemnt flooded, no vis por, no odr, ns.

30MIN: incrs in gry sh, few chps of blk carb sh, mstly drk crm sub-chlky lm, some ool cast lm, lots of por, no odr, ns. 60MIN: lght crm inxln lm, semi dense, poor por, no odr, ns.

30MIN: lots of blk sh, incrs in wht chrt, crm inxln lm, poor por, no odr, ns. 60MIN: crm-brwn inxln lm, highly pyrtzd, dense, no vis por, no odr, ns.



4420: incrs in gry-grysh/green sh, crm fn xln lm, no vis por, no odr, ns.

4430: greater incrs in sh few blk chps, lm aa, no odr, ns.

4440: incrs in blk sh, tan inxln lm, poor por, lots of crm micrtic lm, no odr, ns.

4450: tan-gry inxln lm, poor-no por, no odr, ns.

4460: incrs in chlk and chlky lm.

4470: incrs in gry sh, tan-crm inxln lm, poor inxln por, no odr, ns.

4480: incrs in crm chrt and chrtly lm, few wht ool cast lm, hrd to brk, well cemntd, no odr, ns.

4490: aa, incrs in crmy sub-chlky lm.

4500: tan fn xln lm, sli foss, no vis por, no odr, ns.

4510: incrs in gry sh, tan-gry inxln lm, cemnt flooded frac, poor-no por, no odr, ns.

4520: aa, incrs in chlk.

4530: lght brwn ool lm, modrtly cemntd, inrt prtcl por, no odr, ns.

4540: drk tan-lght brwn ool cast lm, lots of por, no odr, ns.

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

4560: aa, no sig change.

4570: lots of blk carb sh, vis gas bub upon brk.

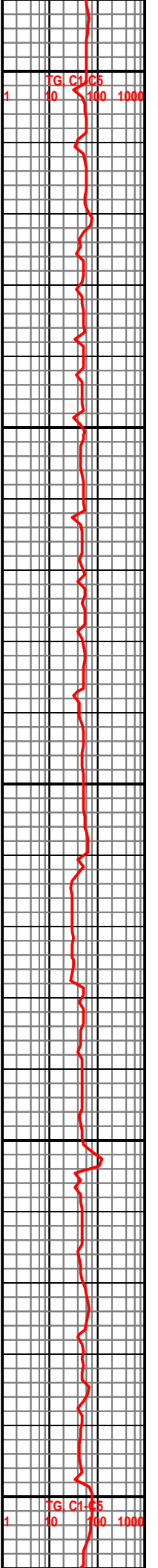
4580: lght gry inxln lm, semi dense, poor por, no odr, ns.

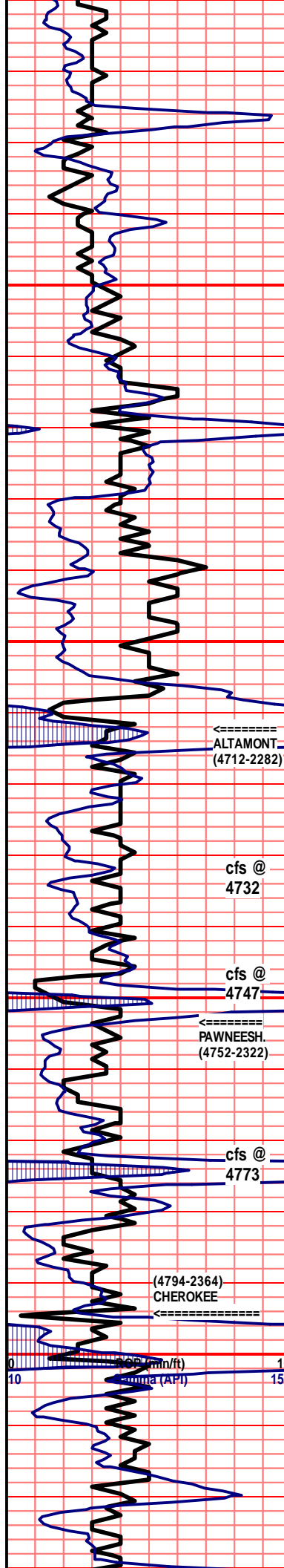
4590: aa, incrs in chlk and sub-chlky lm, no odr, ns.

4600: incrs in blk sh, lots of brwn-grysh crm chrt, brwn inxln lm, semi chrtly, poor por, no odr, ns.

4610: gry inxln lm, dense, no vis por, no odr, ns.

4620: crm inxln lm, inxln por, incrs in wht chlk and crmy sub-chlky lm, no odr, ns.





10/28/2012  
mud info.  
wt: 9.2  
Funnel Vis. 60  
Filtrate API 8.4  
Chloride 3,700  
LCM 1#

**PUMP PRESSURE 850+**

**PUMP PRESSURE 900+**

**Bit Trip @ 4707**

**DEVIATION SURVEY 1  
1/2 DEGREES.**

←===== ALTAMONT (4712-2282)

cfs @ 4732

30MIN: lots of gry sh, tan-brwn inxln lm, cemnt floded fracs, no vis por, few tan mictric lm, no odr, ns. 60MIN: lght crm fn xln lm, no vis por, no odr, ns.

cfs @ 4747

30MIN: tan ixln lm, sli foss, cemnt floded, no odr, ns. 60MIN: crm-tan inxln lm, cemnt floded, poor-no por, incrs in mlky chrt, no odr, ns.

←===== PAWNEESH (4752-2322)

**DST #1 4740-4773  
30-45-45-60  
REC: 10'M. IFF: 18-21; FFP: 21-23;  
ISIP: 1420; FSIP: 1373.**

cfs @ 4773

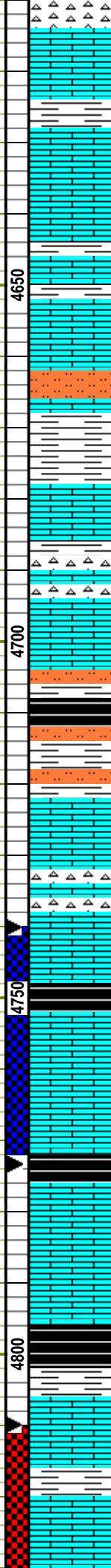
30MIN: crm-tan inxln lm, frac por, two chps w/ drk dead oil stns, v. flour, slight-fair odr, nsfo. 60MIN: incrs in blk carb sh, incrs in mlky foss chrt, crm-tan inxln lm, poor inxln lm, no odr, ns.

(4794-2364) ←===== CHEROKEE

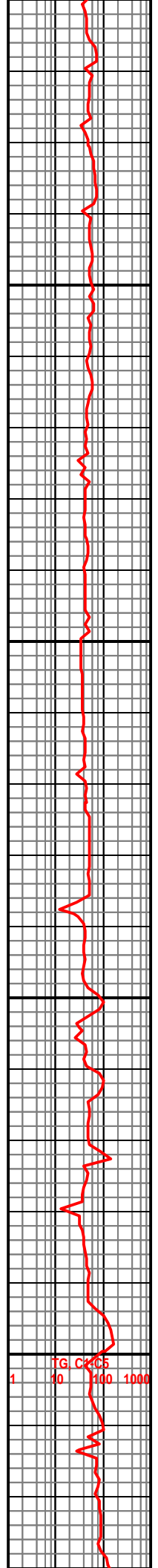
10/29/2012 mud info. wt: 9.0 Funnel Vis. 72 Filtrate API 8.0 Chloride 4,700 LCM 1#	10/30/2012 mud info. wt: 9.35 Funnel Vis. 50 Filtrate API 8.8 Chloride 6,600 LCM 2#
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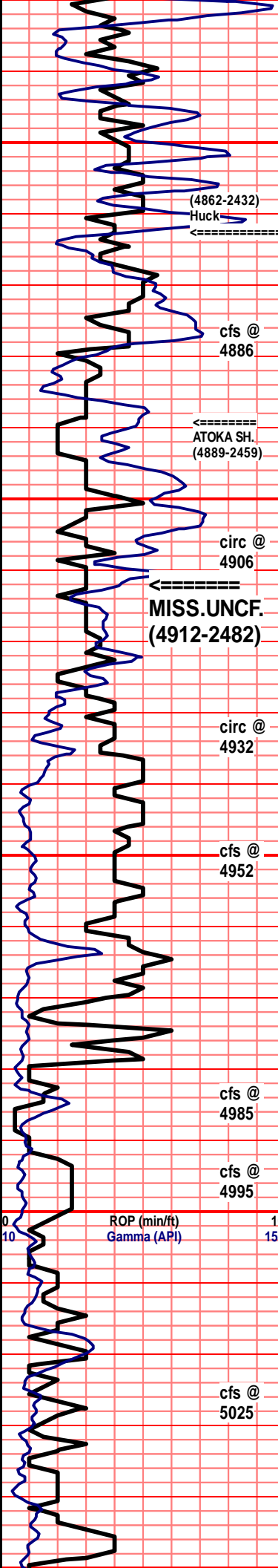
**PUMP PRESSURE 900+**

**DST #2 4854-4886  
PACKER FAILED AFTER 15MIN ON 1ST OPEN.  
REC: 1620 GCM (15%G).  
GTS 3MIN  
3/4" CHOKE  
10MIN: 959,059 CF/D  
DST #3 4810-4886**



4630: incrs in wht chrt, lm and chlk aa.  
4640: tan inxln lm, poor inxln por, no odr, ns.  
4650: aa, incrs in gry sh, incrs in chlky lm.  
4660: gry inxln lm, poor inxln por, lots of crm lm, sli chlky, noodr, ns.  
4670: incrs in lght-drk gry sh, lm aa.  
4680: lght tan ool lm, fair ool cast por, no odr, ns.  
4690: incrs in gry slit stn, incrs in grysh/green sh.  
4700: drk tan-lght gry inxln lm, fair inxln por, lots of crm sub-chlky lm, no odr, ns.  
4710: incrs in gry pyrtzd chrt, incrs in marron, green and gry sh.  
4720: sh aa, incrs in clr slit stn, incrs in tan-gry inxln lm, poor por, no odr, ns.  
4730: aa, no sig change.  
4740: crm-tan inxln lm, semi dense, cemnt floded fracs, no odr, ns.  
4750: aa, incrs in translucnt chrt.  
4760: shw of blk carb sh, tan-drk tan inxln lm, poor por, no odr, ns.  
4770: crm-tan inxln lm, poor por, slight odr, ns.  
4780: incrs blk and gry sh, lots of gry slit stn, few gry pack stn lm, poor-far por, no odr, ns.  
4790: mstly gry sh, incrs in chlk, brwn-gry inxln lm, semi dense, poor por, no odr, ns.  
4800: incrs in mlky chrt, incrs in crm sub-chlky lm, no odr, ns.  
4810: incrs in blk carb sh, lght-drk crm inxln lm, poor-fair inxln por, no odr, ns.  
4820: aa, incrs in gry sh.  
4830: incrs in maroon sh, tan-brown inxln lm, cemnt floded, dense, no vis por, no odr, ns.  
4840: incrs in blk sh, lots of mlky chrt, lm aa, no odr,





**DST #3 2810-4886**  
**30-60-90-90**  
 Initial flow period 30" with 3/4" choke:  
 Gauged 1,005mcf/5"  
 1,005 mcf/10"  
 1,318 mcf/15"  
 Final flow period 90" with 3/4" choke:  
 Gauged 1,162 mcf/5"  
 1,318 mcf/15"  
 1,474 mcf/25"  
 1,474 mcf/35"  
 1,474 mcf/45"  
 1,474 mcf/55"  
 1,474 mcf/65"  
 1,474 mcf/75"  
 1,474 mcf/85"  
 Gas analysis measured 893 BTU  
 REC: 140'GCM (15%G)  
 IFP:381-326 FFP:350-316  
 SIP: 1550-1547

**DST #4 4967-4995**  
**30-45-45-60**  
 REC: 1600' SOCW (1-2%OIL). IFP:  
 162-444; FFP: 475-799:  
 SIP: 1488-1480

**DST #5 4999-5025**  
**30-45-45-60**  
 Rec: 65' VSOCMW (1% oil, 37%  
 mud, 62% water), 125' MW w/ oil  
 specks (11% mud, 89% water) and  
 1270' water.  
 Total fluid 1460'.  
 IFP: 49-352#/30"ISIP:1530#/45"  
 FFP:345-680#/45"FSIP:1520#/60



ns.

4850: tan-brwn inxln lm, poor-no por, cemnt floded fracs, no odr, ns.

4860: aa, no sig change.

4870: incrs in gry sh, tan-brwn inxln lm, sli foss, poor por, cemnt floded, gry prtly xln/ prtly mictric lm, poor inxln por, no odr, ns.

4880: lm aa, inrs in chlk and sub chlky lm.

4890: inrss in gry sh, incrs in gry slt stn, lots of mlky-gld chrt, crm-ight semi xln lm, w/ fair fensrtl por, (posbly uphole) weak shw of free brwn oil, slight-no odr.

4900: mstly drk-ight gry sh, incrs in blk, green and purp sh, few tan cors inxln lm, w/ xln por, w/ a v. ssfo, no odr.

4910: lots of crm-gold chrt, incrs in wht slt stn, drk tan foss lm, (fuss) no odr, ns.

4920: mstly wht chrt lm, incrs in green, purp, wht slt stn, few lm chps, aa, no odr ns.

4930: mstly gold-crm chrt and chrt lm, few brwn fn xln lm, poor-no por, no odr, ns.

4940: aa, incrs in wht chlk.

4950: crm-ight yellow chrt, few tan fn xln lm, cemnt floded fracs, no odr, ns. incrs of chlk.

4960: aa, incrs in chlk & chlky lm.

4970: mstly crm-wht chrt & chrt lm, lots of chlk and chlky lm, no odr, ns.

4980: wht dolo/lm, cors xln, execlnt por, no odr, ns.

4990: drk crm dolo lm, w/ good intr prtcl por, brwn inxln lm w/ pin point vuggy por, shw of lght brwn oil, fair-strng odr.

5000: shw of oil aa, tan inxln lm, poor inxln por, ns, fair-strng odr from sample.

5010: gry-brwnsh/gry inxln lm, poor por, ns, few gry dolo/lm w/ shw of free oil (uphole), weak odr.

5020: aa, lots of shws, fair odr.

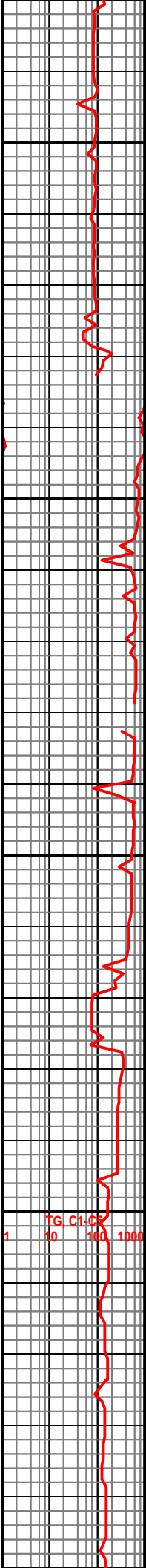
5030: crm grn stn lm, fair intr prtcl por, ns, crm-tan ixln lm, dense, no vis por, ns, slight odr in smple (uphole).

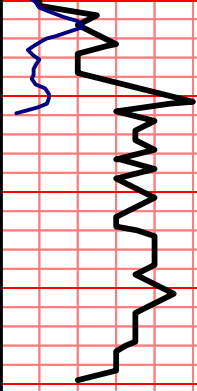
5040: tan inxln lm, sli foss, dense, crm mictric lm, cemnt floded, poor-no por, no odr, ns.

5050: aa, no sig change.

5060: crm-ight gry fn xln lm, poor-no por, no odr, ns.

5070: wht oummv smpl. mstlv wht chlk and chlky lm.





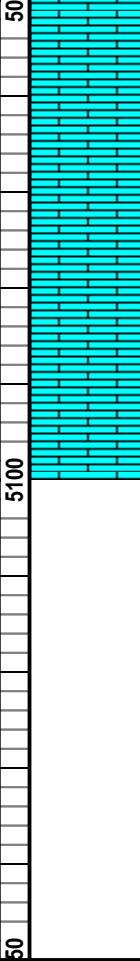
RTD  
5090'

DEVIATION SURVEY 1  
DEGREE.

10/31/2012  
mud info.  
wt: 9.2  
Funnel Vis. 55  
Filtrate API 11.6  
Chloride 6,500  
LCM 2#

11/01/2012  
mud info.  
wt: 9.15  
Funnel Vis. 50  
Filtrate API 9.2  
Chloride 6,500  
LCM 1#

20MIN: lght crm cors lm, w/ big  
vuggy por, no odr, ns. 60MIN: lots  
of chl and chiky lm, tan mictric  
lm, lght crm fn xln lm, dense, no  
vis por, no odr, ns.



5080: aa, incrs in drk tan inxln lm, semi dense, no  
vis por, no odr, ns.

5090: aa, no sig change.

