

Adam Eldani Geo-Log/Report

WellSight Systems

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

Measured Depth Log

Well Name: #1 Gibson Trust Unit
Location: SEC 28 -TOWNSHIP 2S- RANGE 33W RAWLINS COUNTY
License Number: API 15-153-20940 Region: KANSAS
Spud Date: 08/20/2013 Drilling Completed: 08/30/2013
Surface Coordinates: 60' N & 180'W OF SW SW SW
390'FSL 150'FWL
Bottom Hole Deviation Surveys are detailed through out the Geo-Report.
Coordinates:
Ground Elevation (ft): 2936' K.B. Elevation (ft): 2941'
Logged Interval (ft): 3400' To: 4525' Total Depth (ft): 4526'
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: #6)
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: 2725'+216 | Anhydrite: 2724'+217 |
| B/Anhydrite: 2760'+181 | B/Anhydrite: 2759'+182 |
| Deer Creek: 3734'-793 | Deer Creek: 3736'-795 |
| Oread: 3836'-895 | Oread: 3838'-897 |
| Heebner: 3848'-907 | Heebner: 3852'-911 |
| Lansing: 3894'-953 | Lansing: 3896'-955 |
| Muncie Sh: 4011'-1069 | Muncie Sh: 4013'-1072 |
| Stark: 4088'-1148 | Stark: 4091'-1150 |
| Hush: 4121'-1180 | Hush: 4121'-1180 |
| BKC: 4135'-1194 | BKC: 4137'-1196 |
| Pawnee: 4252'-1311 | Pawnee: 4254'-1313 |
| Cherokee Sh: 4310'-1369 | Cherokee Sh: 4312'-1371 |
| Mississippian: 4488'-1547 | Mississippian: 4490'-1549 |
| RTD: 4525'-1584 | LTD: 4526'-1585 |

DAILY DRILLING REPORT:

DATE DEPTH:

| | |
|------|-------|
| 8/19 | Spud |
| 8/20 | 498' |
| 8/21 | 2604' |
| 8/22 | 3517' |
| 8/23 | 3837' |
| 8/24 | 3862' |
| 8/25 | 3924' |
| 8/26 | 3957' |
| 8/27 | 4006' |
| 8/28 | 4052' |
| 8/29 | 4114' |
| 8/30 | 4525' |

Misc.

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

RIG: WW RIG: #6
TOOL PUSHER: JASON RICHESON
MUD: MUD CO. (Reid Atkins)
GAS DETECTOR: N/A

DRILL STEM TEST'S: Superior Testing, Inc.

LOGS: NABORS (Ian Mabb)

OFFICE: PETER FIORINI

Comments

Moved in and rigged up. Spud at 4:15 p.m. Ran 5 jts new 23# 8-5/8" surface casing. Tally at 224.70', set at 231'. Cemented with 165 sacks common, 2% gel, 3% cc. Cement circulated. Plug down at 9:00 p.m. Drilled out plug at 5:00 a.m. on 8/20/13.

AFTER THE RESULTS OF SAMPLE LOGGING, ELECTRIC LOGGING, AND ALL DST TESTS ANALYSIS & CALCULATIONS; IT WAS ELECTED TO PLUG & ABANDON THE #1 GABSON UNIT TRUST.

Plug and Abandon. 1st plug set at 2755' with 25 sacks 60/40 Poz, 4% gel, 1/4# flocele; 2nd plug set at 1985' with 100 sacks; 3rd plug set at 280' with 40 sacks; 4th plug set at 40' with 10 sacks and 30 sacks in the rat hole 175 total sacks. Job complete at 1:30 p.m. Plugging orders by Marvin Mills with the KCC.


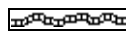
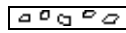


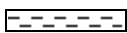







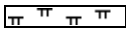
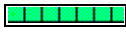
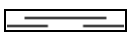
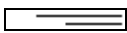
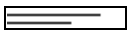




Well Log Surveys BY: NABORS. Compensated Denisty/ Neutron Log, Dual Induction.

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  Red shale |
|--|---|--|---|---|

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 |
|---|---|--|---|--|

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

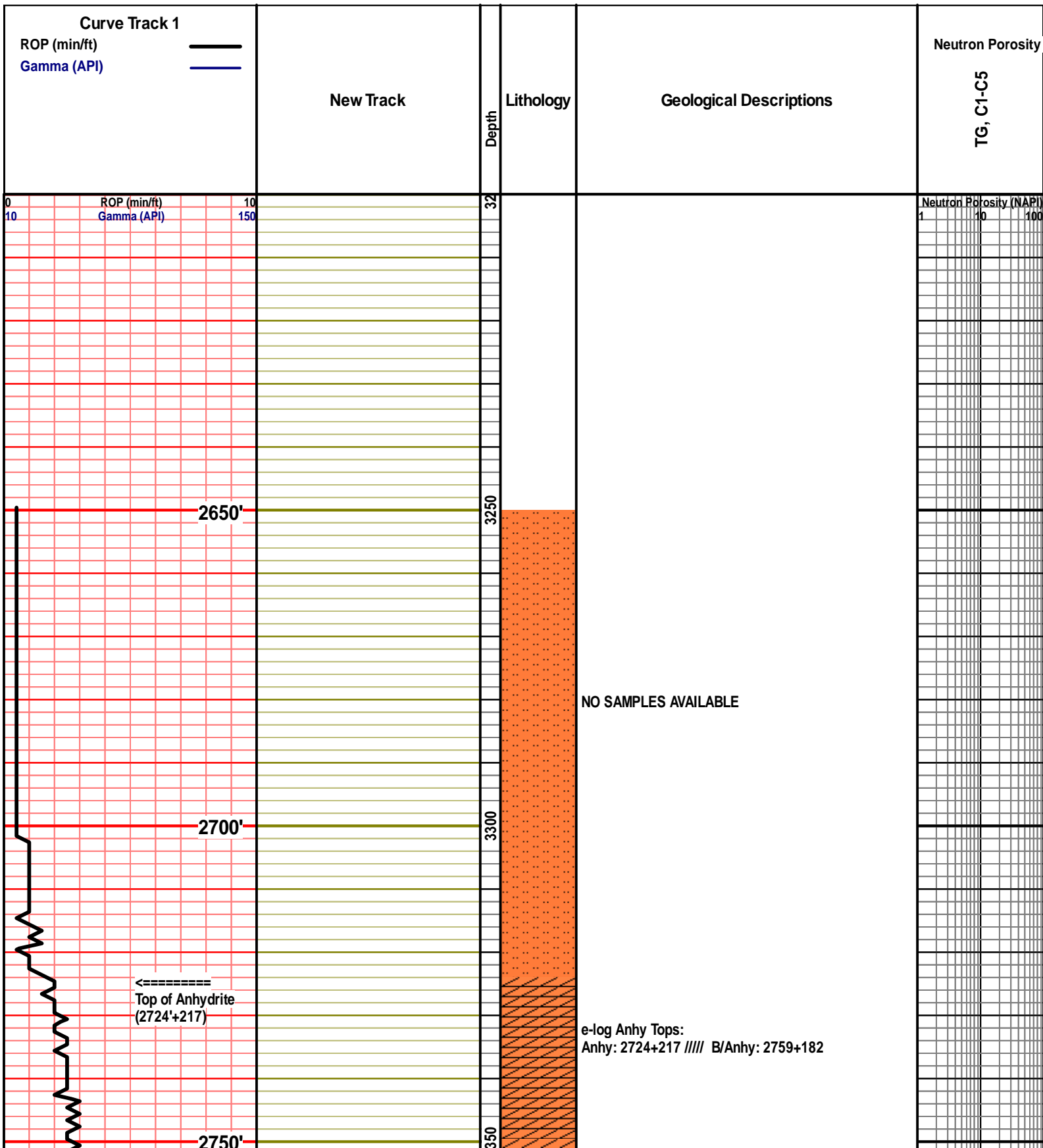
INTERVAL

- Core
- Dst

Dst_alt
 Dst

EVENT

- Rft
- Sidewall



(2759'+182)
B/ Anhydrite

2780'

NO SAMPLES AVAILABLE

ROP (min/ft)
Gamma (API)

Location is dry, semi sandy, lots
of horses & sunflower Farms.
8/21/2013

MUD DISPLACMENT @
3500

GEOLOGIST ON
LOCATION @ 3473'

PUMP PRESSURE 950+

Neutron Porosity (NAPI)

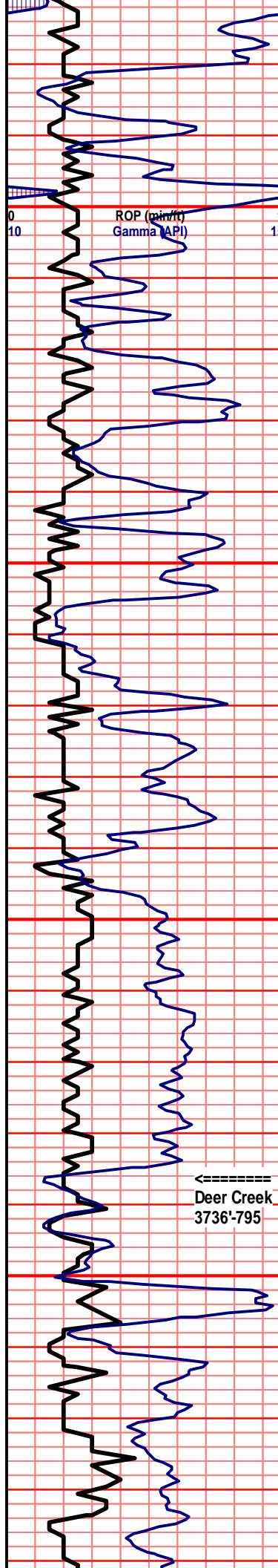
3550: crm-tan fn grn pack stn lm, fair intr prtcl por,
mod cemntd, no odr, ns.

3560: aa, incrs in crm inxln lm, ns, incrs in maroon
sh.

3570: grysh/brwn dolo, fn grn, poor por, lots of
maroon sh, few lght tan foss lm, no odr, ns.

3580: aa, incrs in gry slt stn, no odr, ns.

3590: mstlv arv. maroon & purp sh.



PUMP PRESSURE 950+

8/23/2013
mud info.
wt: 9.0
Funnel Vis. 51
Filtrate API: 10.4
Chloride 1,500
LCM # 1

PUMP PRESSURE 950+

8/24/2013
mud info.
wt: 9.1
Funnel Vis. 48
Filtrate API: 7.6
Chloride 2,000
LCM # 3

←=====
Deer Creek
3736'-795'

After Dst #1, LCM increased to 3
due to mud loss during DST.

**Strait Hole Survey: 1.25
degree**

DST #1: 3776' - 3837' (Oread)
Recovered 15' heavy oil, and 120'
thick oil cut mud (45% oil, 55%
mud).
Total Fluid 135' (51% oil, 49%



3600: mstly sh aa, crm corc xln lm, fair por, no odr, ns.

3610: mstly gry xln lm, dense, poor-no por, no odr, ns.

3620: crm inxln lm, sli foss, poor inxln por, non odr, ns.

3630: crm-gry, pack-grn stn lm, fn-med grn, poor por, well cmntd no odr, ns.

3640: gry inxln lm, v. dense, mstly maroon-brwn sh.

3650: mstly crm xln lm, semi dense, well cmentd, no odr, ns.

3660: aa w/ a reddish/pinkish tent to xln lm, incrs in maroon sh.

3670: aa, slght incrs in crm inxln lm, sig incrs in gry sh.

3680: mstly crm xln lm, poor-no por, slght incrs in wht chlk, no odr, ns.

3690: incrs in maroon & gry sh.

3700: aa, slght in incrs in crm semi foss xln lm, porr-no por, no sig change, no odr, ns.

3710: mstly crm pack stn lm xln in prt, poor por, lots of maroon sh, no odr, ns.

3720: peachy gummy sample, lots of gry dolo, v. fn grn, poor por, well cemntd, lots of chlk, no odr, ns.

3730: crm fn grn pack lstrn poor por, well cmntd, sig incrs in gry & purp sh, no odr, ns.

3740: 90+% maroon sh.

3750: mstly crm inxln lm, dense, poor-no por, wht chlk, no odr, ns.

3760: ingrcs in gry sh, mstly crm xln lm, foss in prt, poor-no por, dense, no odr, ns.

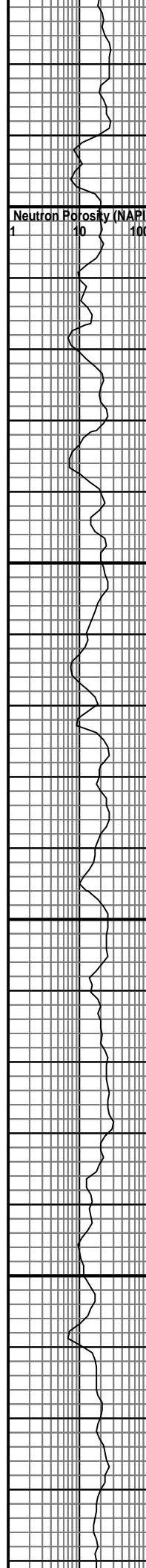
3770: tan-drk inxln lm, cemnt flooded pors, v. dense, incrs in clr-crm slt stn, mod cmnt, no odmr, ns.

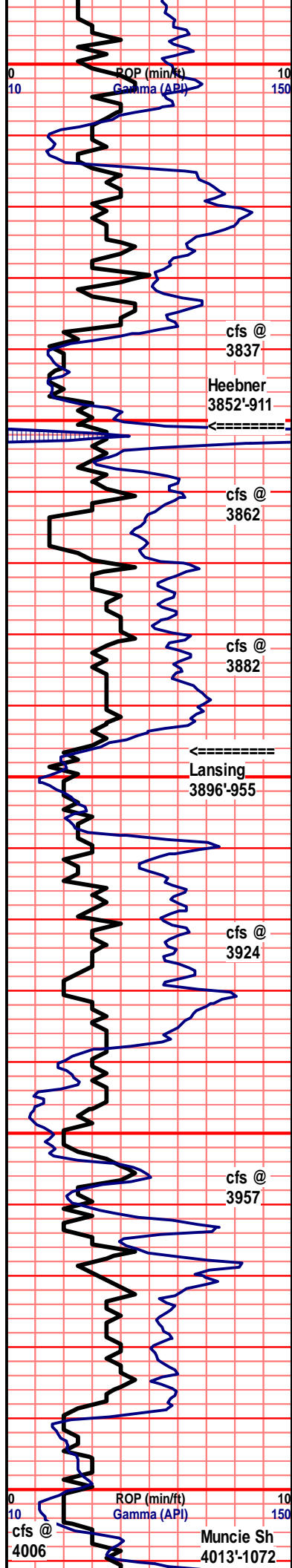
3780: 90% maroon sh, fekw lght gry fn xln lm, no vis por, no odr, ns.

3790: aa, crm fn grn pack stn lm, sli xln, no odr, ns.

3800: lm aa, mstly maroon slt stn & sh

Neutron Porosity (NAPI)
1 10 100





mud).
IFP: 70-93#/30" ISIP: 938#/45"
FFP: 99-113#/45" FSIP: 809#/60"

DST #2: 3835' - 3862' (Toronto) Mis-run
DST #3: 3826' - 3862' (Toronto)
Recovered 205' mud with a show of oil.
IFP: 74-104#/30" ISIP: 1269#/45"
FFP: 106-144#/45" FSIP: 1256#/60"

30MIN: mstly marron slt stn & sh, lots of gry slt & sh, one chp crm lm, fn xln w/ poor por, weak tary oil stn, no odr, ns. 60MIN: same as thirty min sample, slight incrs in shw rocks, sig incrs in tan inxln lm, poor inxln por, no odr, ns.

cfs @ 3837

Heebner 3852'-911

DST #4: 3853' - 3924' (LKC "A")
Recovered 30' mud. Flushed tool on FFP.
IFP: 62-67#/30" ISIP: 670#/30" FFP: 69-76#/30" FSIP: 642#/30"

30MIN: mstly wht pack stn lm, xln in prt, w/ fair-poor intr prtcl por, abundnt shw of blkck tary free oil, v. slight odr. 60MIN: shw rock; same as thirty, incrs in crm fn xln lm v. highly pyrtzd, dense, ns, no odr,

30MIN: 90% + maroon sh, few aqua & gry sh, few crm micrtic lm, sli xln dense, no vis por, no odr, ns. 60MIN: same as thirty min sample, slight incrs in lm, no odr, ns.

8/26/2013 mud info.
wt: 9.2
Funnel Vis. 52
Filtrate API: 8.6
Chloride 2,000
LCM # 3

Lansing 3896'-955

30MIN: lots of maroon, gry & aqua sh, few wht v. fn grn, grn stn lm, poor-fair intr prtcl por, w/ slight shw of free oil, few tan-crm inxln lm, w/ vuggy por w/ a shw of free oil, no odr. 60MIN: shw rock same as thirty sample, mstly crm-tan fn xln lm, lots of loose pyrt, no odr, ns.

cfs @ 3924

DST #5: 3892' - 3957' (LKC "F")
Recovered 220' watery mud with a show of oil.
IFP: 70-125#/30" ISIP: 1254#/45"
FFP: 126-158#/45" FSIP: 1229#/60"

30MIN: mstly wht-lght crm inxln lm, some pyrtzd, w/ poor-fair inxln por, semi abundt shw of brwn oil, lght-fair odr. 60MIN: decrse in shw rock, incrs in maroon & aqua sh, mstly crm inxln lm, poor-no por, no odr.

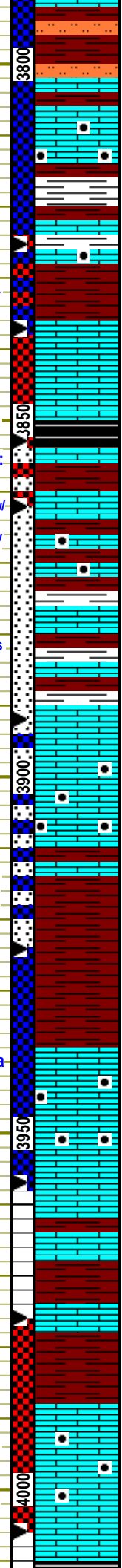
cfs @ 3957

DST #6: 3976' - 4006' (LKC "H")
Recovered 1' oil and 125' oil cut mud (5% oil, 95% mud). Flushed tool on FFP.
Total fluid: 126'. IFP: 51-80#/30" ISIP: 1346#/45" FFP: 83-102#/30" FSIP: 1337#/45"

30MIN: mstly lght crm-wht xln lm, dense, no vis por, highly pyrtzd chlk, few chps w/ stns & shw, wht xln lm, w/ vuggy por, shw of drk brwn oil, no odr. 60MIN: same as thirty min sample, no sig change.

cfs @ 4006

Muncie Sh 4013'-1072



3800: m. aa, incrs in aqua and gry sh.

3810: aa, incrs in aqua and gry sh.

3820: wht med grn grn stn lm, poor-fair intr prtcl por, some chps xln lm w/ poor inxln por, w/ shw of free tary blk oil.

3830: aa, incrs in shw barnng rocks, incrs in aqua and purp sh, slight-no odr.

3840: mstly maroon sh, two chps crm fn xln lm, w/ poor xln por, slight shw of free oil, no odr.

3850: mstly v. big chunks of maroon & gry sh, few fn grn pack stn lm, sli foss, no odr, ns.

3860: mstly lght crm micrtic lm, well cemntd, loose wht chlk, ten plus chps of wht pack stn- xln in prt w/ drk tary oil shw, poor-fair por, v. slight odr.

3870: mstly big chunks of maroon & gry sh.

3880: 95% + try maroon sh, few wht xln lm, w/ a shw of oil (uphole) no odr, ns.

3890: sh as above.

3900: sig incrs in green sh, tan inxln lm, dense, no vis por, no odr, ns.

3910: mstly wht fn xln lm, no vis por, no odr, ns.

3920: wht v. fn grn, grn stn lm, poor-fair intr prtcl por, abundt blk tary stn, few chps w/ a weak show of free oil, no odr.

3930: mstly maroon sh, crm fn xln lm, no vis por, no odr, ns.

3940: incrs in maroon & aqua sh, lm aa, no odr, ns.

3950: v. gummy peachy sample, mstly maroon & gummy carb mud, incrs in crm inxln lm, dense, poor inxln por, no odr, ns.

3960: shw of gry sh, wht inxln lm, some w/ fair-poor inxln por, w/ a shw of drk brwn oil, lght odr.

3970: mstly crm inxln lm, cemnt flooded, no vis por, few orange chrt chps, lots of maroon sh, no odr, ns.

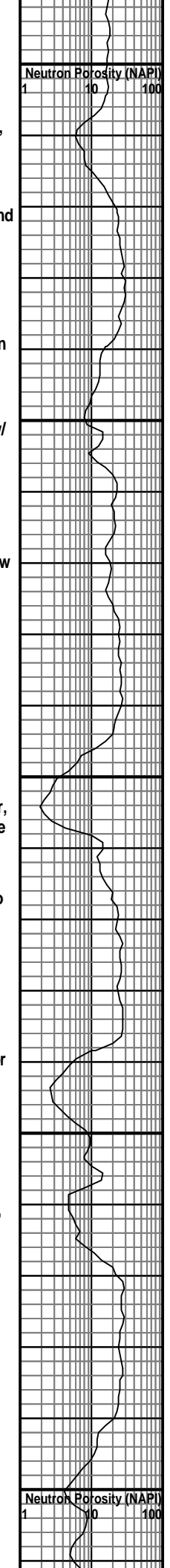
3980: aa, lght gry foss lm, cemnt flooded, v. dense, no vis por, no odr, ns.

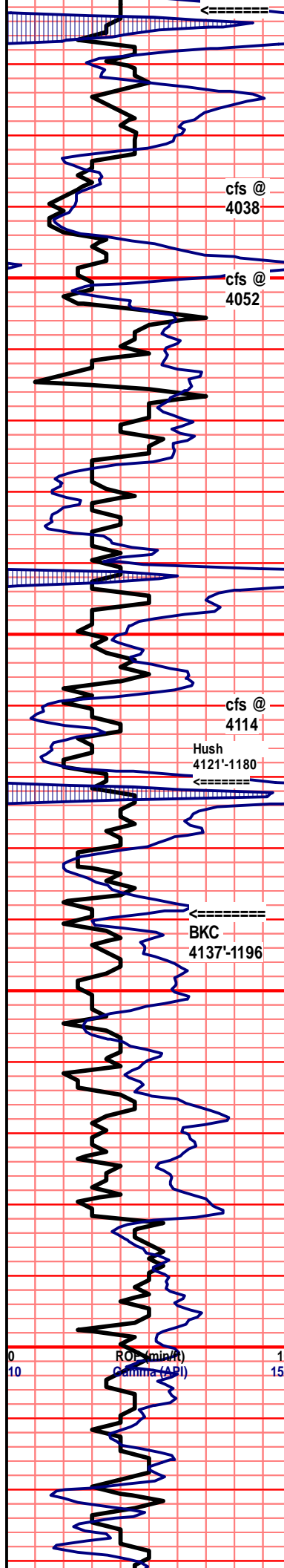
3990: aa, slight incrs in maroon sh.

4000: sig incrs in drk gry sh, wht xln lm, w/ vuggy por, shw of drk brwn oil, lght-fair odr.

4010: mstly maroon & gry sh, crm inxln lm, highly pyrtzd, semi dense, poor por, ns, few chps w/ shw (uphole), no odr.

4020: incrs in v. drk gry-blksh. mstly lght gry-crm





DST #7: 4023' - 4052' (LKC "J")
 Recovered 190' muddy water (20% mud, 80%, water). IFP:
 48-103#/30" ISIP: 1287#/45" FFP:
 104-132#/45" FSIP: 1251#/60"

30MIN: wht-lght crm ool lm, med-large grn, prtly xln, fair intr prtcl/frac por, lots of drk tary oil stn, nsfo, v. lght odr. 60MIN: same as thirty sample, incrs in fn xln lm, incrs in xln lm w/ frac por, ssfo, no odr.

30MIN: crm-wht ool lm, fair-poor intr prtcl por, sli xln, tary oil stn, mstly crm-lght gry inxln lm, fair inxln por, no odr, ns. 60MIN: same as thirty, incrs in drk gry sh, gry slt stn, no odr.

Strait Hole Survey: 1 degree

DST #8: 4057' - 4114' (LKC "K & L")
 Recovered 50' oil spotted mud (1% oil, 99% mud). IFP:
 70-76#/30" ISIP:
 702#/30" FFP:
 77-80#/30" FSIP:
 600#/30"

30MIN: mstly crm inxln lm, poor inxln por, lots of crm micrtic lm, poor-fair intr prtcl por, few crm xln lm, w/ pin point vuggy por, w/a ssfo, no odr. 60MIN: decrse in shw rock, same as thirty no sig change.

PUMP PRESSURE 950+



micrtic lm, no odr, ns.

4030: sh aa, mstly gry-drk tan foss xln lm, v. dense, no vis por, no odr, ns.

4040: aa, v. gummy/ chlky sample, sig incrs in gry slt stn, no odr, ns.

4050: ool lm, sli xln, lots of drk tary oil stns, few chps w/ ssfo, no odr.

4060: mstly maroon & gry sh, lots of wht chlk, lght crm foss lm, poor por, no odr, ns.

4070: aa, incrs in gry sh, no sig change.

4080: mstly maroon sh, crm- drk crm inxln lm, dense, no vis por, no odr, ns.

4090: mstly wht-cerm xln lm, w/ pin point vuggy por, slght shw of free brwn oil, fair odr.

4100: mstly lght crm fn xln lm w/ frac & pin point vuggy por, ssfo, abundnt shw & stn, fair odr.

4110: sig incrs in fn xln lm, no vis por, ns, show aa, lght odr.

4120: mstly gry, aqua & maroon sh, crm inxln lm, poor-no por, no odr, ns.

4130: aa, sig incrs in lght crm sub-chlky lm, sli xln, no odr, ns.

4140: crm-lght gry inxln lm, dense, poor-no por, no odr, ns.

4150: aa, incrs in gry sh & incrs in chlk, few loose crinoid disks, no odr, ns.

4160: mstly maroon & gry sh, drk crm cors xln lm, poor frac por, one chp w/ tary oil stn (uphole) no odor, ns.

4170: sig incrs in lght purp sh, crm micrtic lm, sli xln, poor por, no odr, ns.

4180: aa, slght incrs in crm micrtic lm, sli/prtly xln, poor por, no odr, ns.

4190: crm-tan inxln lm, v. dense, sli foss, cemnt flooded, no vis por, no odr, ns.

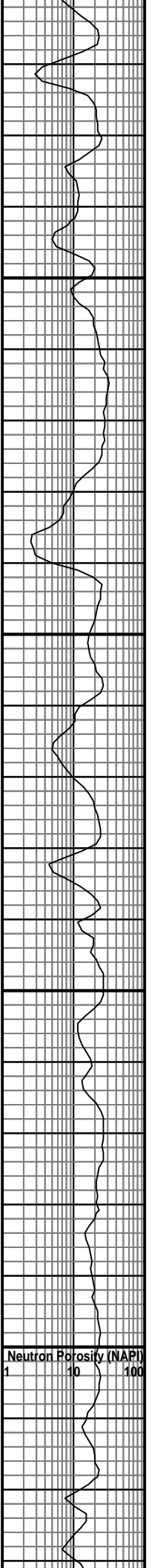
4200: aa, incrs in maroon & purp sh, no odr, ns.

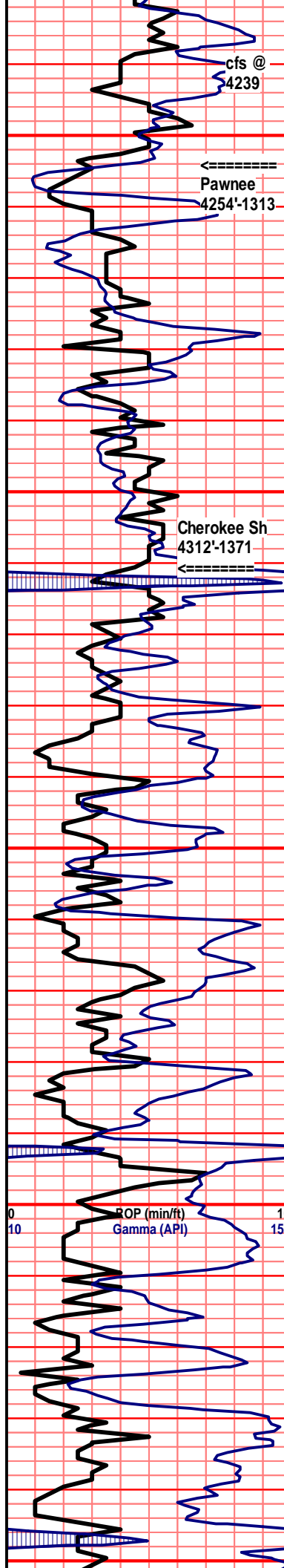
4210: sig incrs in gry sh, incrs in clr & gry slt stn, no odr, ns.

4220: mstly sh aa, gry fn xln lm, v. dense, no vis por, no odr, ns.

4230: crm inxln lm, w/ frac & vuggy por, abundnt frac tary dead oil stn, two chps w/ ssfo pin point vuggy por, no odr.

4240: gry cors xln lm, poor frac por, no odr, ns.





20MIN: gry inxln lm, poor-fair inxln por, lots of gry sh & slt stn, 45MIN: aa, incrs in wht & gry chlk, no odr, ns.

← Pawnee
4254'-1313

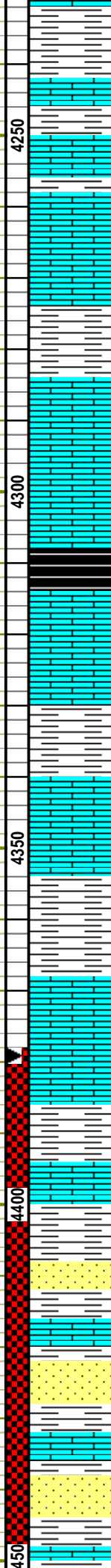
Cherokee Sh
4312'-1371
←

8/28/2013
mud info.
wt: 9.4
Funnel Vis. 70+
Filtrate API: 9.0
Chloride 1,800
LCM # 2

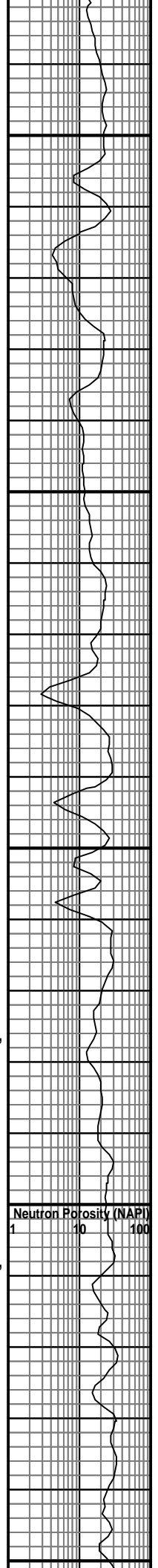
PUMP PRESSURE 950+

mud was mixed back into shape ,
upon Mud co. recommendation.

DST #9: 4379' - 4482'
(Cherokee) STRADDLE TEST, Recovered 2294'
gas cut muddy water
(5% gas, 10% mud, 85% water).
IFP: 812-1135#/30" ISIP:
1164#/45" FFP:
1144-1161#/30"



4250: sig incrs in gry & aqua sh, lots of gry chlk.
4260: aa, no sig change.
4270: tansh-crm micrtic lm, xln in prt, sli foss, poor-fair por, no odr, ns.
4280: aa, tan-gry xln lm, poor-fair inxln por, lots of loode pyrt, no odr, ns.
4290: tan-lght gry inxln lm, poor inxln por, no odr, ns.
4300: crm pack stn lm, well cemntd, poor intr prtcl por, no odr, ns.
4310: gry dense inxln lm, poor-no por, lots of wht chlk, gummy sample, no odr, ns.
4320: gry inxln lm, v/ dense, poor-no por, lots of gry sh, no odr, ns.
4330: sig incrs in chlk, gummy sample, incrs in crm inxln lm, poor inxln por, no odr, ns.
4340: incrs in gry & maron sh, incrs in gry inxln lm, poor-no inxln por, no odr, ns.
4350: aa, incrs in crm chlk & inxln lm, no odr, ns.
4360: lots of chlk, semi-gummy sample, gry-tan inxln lm, poor por, few crm pack stn lm, well cemntd, no odr, ns.
4370: aa, sig incrs in chlk.
4380: gry-crm inxln lm, poor-no por, mstly wht chlk.
4390: incrs in aqua sh, crm-tan inxln lm, poor-fair por, no odr, ns.
4400: incrs in yellow & purp sh, few qtz sand clusters, med grns, sub-anglur, well sortd, well cemntd, no odr, ns.
4410: lots, of purp, yellow, maroon, & gry sh, crm inxln lm, fair inxln por, no odr, ns.
4420: aa, few qtz sand clusters, fn grns, sub-rounded, well sortd, fairly cemntd, no odr, ns.
4430: aa, incrs in purp sh & chlkly lm.
4440: few qtz sand clusters, fn grns, sub-rounded, well sortd, well cemntd, lots of chlk-chlky lm, no odr, ns.
4450: incrs in tan-drk crm inxln lm, sli chrtly, poor-no por, no odr, ns.
4460: aa, msig incrs in qtz sand clusters, v. fn grns, sub-rounded, well sortd, fairly cemntd, w/ an intrusn



Neutron Porosity (NAPI)
1 10 100

FSIP: 1168#/60"

of heavy minrls, no odr, ns.

4470: aa, incrs in purp & yellow sh, incrs in clr, purp & yellow slit stn, no odr, ns.

4480: aa, no sig change.

4490: drk dirty sand w/ what appears to be heavy metals like copper/ calco pyrt, sub-rounded, fn-med grn, no odr, ns.

4500: incrs in maroon and gry sh.

4510: aa, incrs in yellow slit stn, incrs in clr chrt.

4520: incrs in qtz ss aa, incrs in gold & wht chrt, no odr, ns.

PUMP PRESSURE 950+

Mississippian
4490'-1549'

Strait Hole Survey: 1.25 degree

30MIN: mstly gold, yellow, orange & wht chrt, no vis por, sli foss, no odr, ns, no flour. 60MIN: lots of multi color chrt aa, lght crm grain stn lm, fair intr prtcl por, no odr, ns.

RTD 4525'

4500

4550

