



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1166133
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1166133

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Adam Eldani Geo-Log/Report

WellSight Systems

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

Measured Depth Log

Well Name: #1JOSEPH-HESS

Location: SEC 30-TOWNSHIP 13S- RANGE 31W GOVE COUNTY

License Number: API 15-063-22123

Region: KANSAS

Spud Date: 7/23/2013

Drilling Completed: 08/04/2013

Surface Coordinates: 1700' FSL & 175' FEL

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

Coordinates:

Ground Elevation (ft): 2869'

K.B. Elevation (ft): 2877'

Logged Interval (ft): 3500 To: 4648

Total Depth (ft): 4650

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# 12)

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: 2357'+520	Anhydrite: 2356'+521
B/Anhydrite: 2380'+497	B/Anhydrite: 2378'+499
Heebner: 3868'-991	Heebner: 3866'-989
Toronto: 3891'-1014	Toronto: 3890'-1013
Lansing: 3914'-1037	Lansing: 3912'-1035
Muncie Sh: 4065'-1188	Muncie Sh: 4059'-1182
Stark Sh: 4149'-1272	Stark Sh: 4148'-1271
Hush. Sh: 4186'-1309	Hush. Sh: 4184'-1307
BKC: 4229'-1352	BKC: 4220'-1343
Marmaton: 4241'-1364	Marmaton: 4241'-1364
Altamont: 4259'-1382	Altamont: 4258'-1381
Pawnee: 4344'-1467	Pawnee: 4344'-1467
Myrick: 4383'-1506	Myrick: 4381'-1504
Ft Scott: 4399'-1522	Ft Scott: 4399'-1522
Cherokee: 4427'-1550	Cherokee: 4427'-1550
Johnson: 4470'-1593	Johnson: 4469'-1592
Mississippian: 4518'-1641	Mississippian: 4530'-1653
RTD: 4650'-1773	LTD: 4648'-1771

DAILY DRILLING REPORT:

DATE DEPTH:

7/23	Spud
7/24	860'
7/25	2593'
7/26	3392'
7/27	3920'
7/28	3963'
7/29	4002'
7/30	4020'
7/31	4097'
8/01	4150'
8/02	4230'
8/03	4493'
8/04	4650'

Misc.

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

RIG: WW DRILLING, LLC. RIG # 12
TOOL PUSHER: CALVIN PHANNENSTIEL
MUD: MUD CO. (Reid Atkins)
GAS DETECTOR: N/A

DRILL STEM TEST'S: TRILOBITE TESTERS INC.

LOGS: NABORS (JEFF LUEBBERS)

OFFICE: PETER FIORINI

Comments

Moved in and rigged up. Spud at 1:00 p.m. Ran 5 jts new 23# 8-5/8" surface casing. Tally at 225', set at 234'. Cemented with 165 sacks common, 3% cc, 2% gel. Cement circulated. Plug down at 5:00 p.m. Drilled out plug at 1:00 a.m. on 7/24/13.

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 JOSEPH-HESS FOR OIL & GAS COMMERCIAL QUANTITIES.

Ran 5-1/2" 15.5# new production casing, set at 4647'. Port collar at 2328'. Insert at 4625'. Pumped 500 gallons mud flush. Cemented casing with 200 sacks OWC, 10% salt, 2% gel, 1/4% CDI-31 and 5 1/4% Kol-Seal. Plug down at 7:00 p.m. Insert held. Plugged rat hole with 30 sacks.


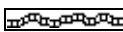
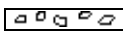


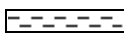







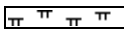
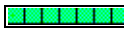
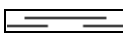
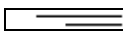
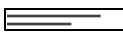



Well Log Surveys BY: NABORS. Compensated Denisty/ Neutron Log, Dual Induction.

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  Wackst
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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

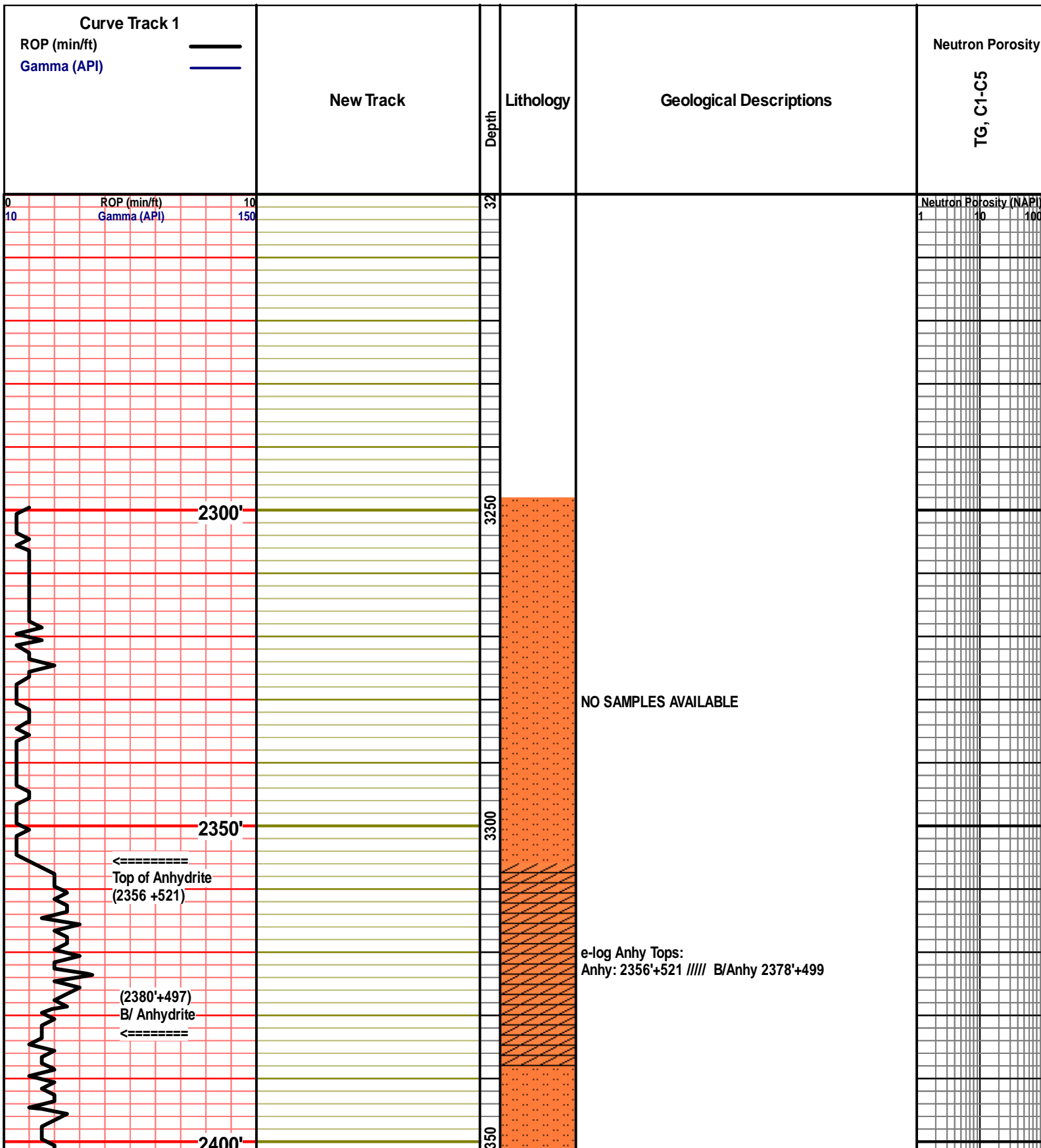
INTERVAL

- Core
- Dst

Dst_alt
 Dst

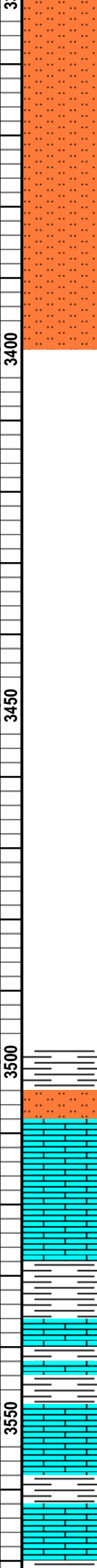
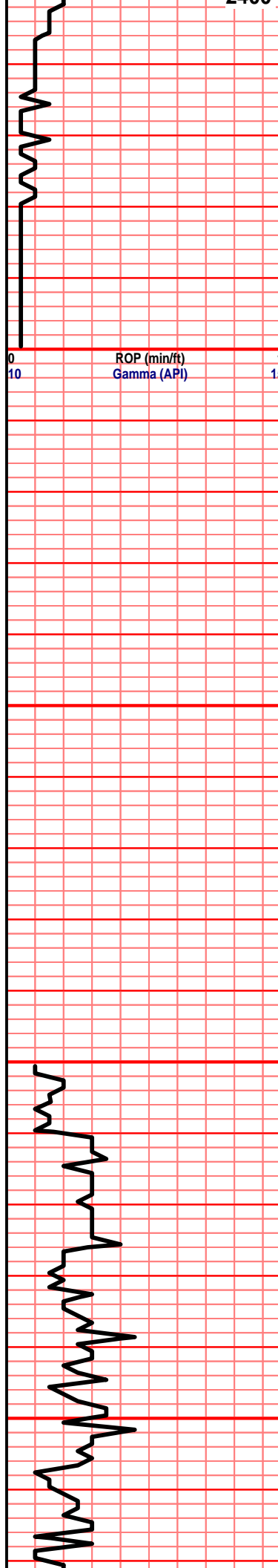
EVENT

- Rft
- Sidewall



←-----
 Top of Anhydrite
 (2356 +521)

(2380'+497)
 B/ Anhydrite
 ←-----



NO SAMPLES AVAILABLE

Neutron Porosity (NAPI)
1 10 100

GEOLOGIST ON LOCATION @ 3577'

Location was semi-wet from the rain on 7/25/2013

MUD DISPLACEMENT @ 3449

3500: mostly maroon/red- gry sh, crm inxln lm, algal foss, poor por, no odr, ns.

3510: aa, incrs in gry slit stn.

3520: mostly gry slty sh, lots of gry slit stn, few crm v. fn grn lm, sli xln, dense, no odr, ns.

3530: aa, incrs in gry sh.

3540: incrs in crm- v. lght tan foss lm, well cemtd, hrd to brk, no odr, ns.

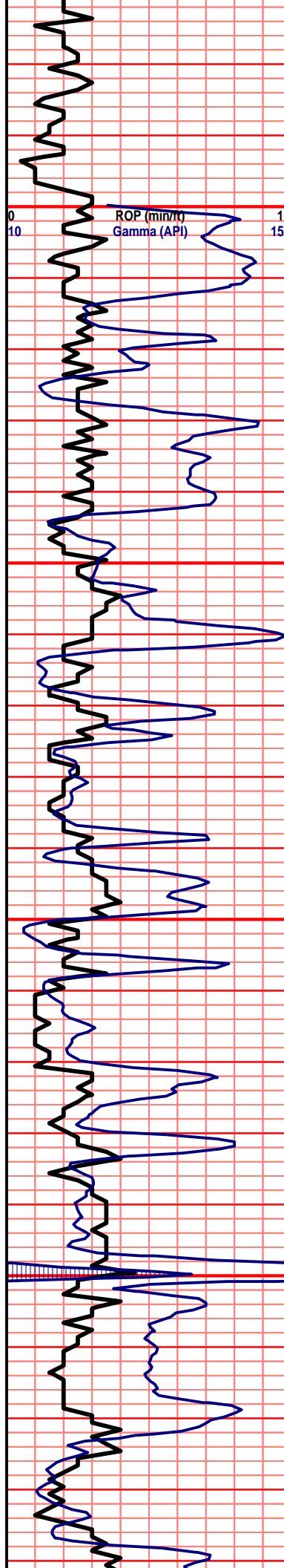
3550: incrs in crmsh/gry xln lm, dense, incrs in chlkly lm, loose crinoid disks in try, no odr, ns.

3560: incrs in v. drk gry shly lm, drk crm-gry inxln lm, v. dense, no odr, ns.

3570: decrse in drk gry shly lm, incrs in wht chlk.

3580: incrs in grysh/crm-gry inxln lm, foss, dense, poor inxln por, no odr, ns.

3590: aa. incrs in crm fn arn lm. well cemtd. no odr.



PUMP PRESSURE 950+

PUMP PRESSURE 950+

7/27/2013
 mud info:
 wt: 9.0
 Funnel Vis. 51
 Filtrate API: 10.4
 Chloride 1,500
 LCM # 1



3600: peachy sample, mstly red/maroon sh, sig incrs in chlk.

3610: lots of wht chlk, tan cors xln lm, dense, no odr, ns.

3620: lght crm fn xln lm, sli chlky, no vis por, no odr, ns.

3630: brwn-gry inxln lm, sli foss, poor por, sig incrs in gry sh.

3640: mstly gry inxln lm, w/ foraminifera iimprints, poor por, no odr, ns.

3650: mstly gry well cemntd slt stn, incrs in slty sh, lots of loose pyrt.

3660: aa, incrs in tan foss lm, poor por, no odr, ns.

3670: mstly crm inxln lm, cors xln in prt, lots of lght crm fn grn pack stn lm, fair por, no odr, ns.

3680: aa, incrs in wht chlk.

3690: mstly crm chlky lm, lots of crm inxln lm, poor inxln por, sli foss, no odr, ns.

3700: mstly crmsh/gry micrtic lm, intr prtcl por, few tansh/brwn foss lm, sl xln, poor por, no odr, ns.

3710: aa, sig incrs in dirty gry ool wacke lm, poor por, no odr, ns.

3720: v. gummy sample, mstly chlk, incrs in brwn slty sh.

3730: lght tan wacke-pack stn lm, poor intr prtcl por, well cemntd, no odr, ns.

3740: aa, mstly wht chlk.

3750: lots of wht chlk, incrs in grysh/crm wackee lm, sli foss, mod cemntd, no odr, ns.

3760: drty crm inxln lm, poor inxln lm, cemnt flooded algal pores, no odr, ns.

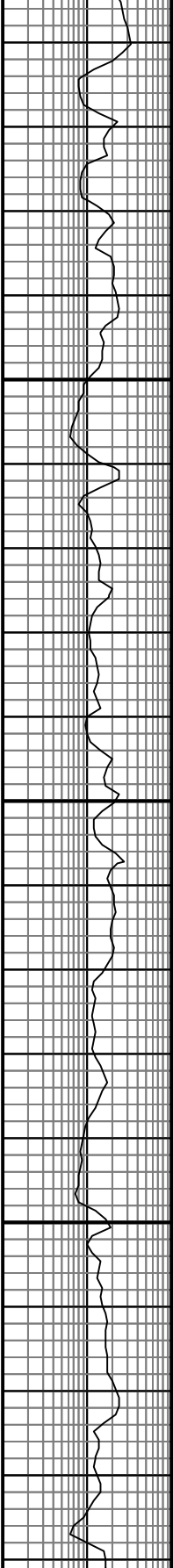
3770: shw of blk carb sh, lm aa, incrs in chlky lm, no odr, ns.

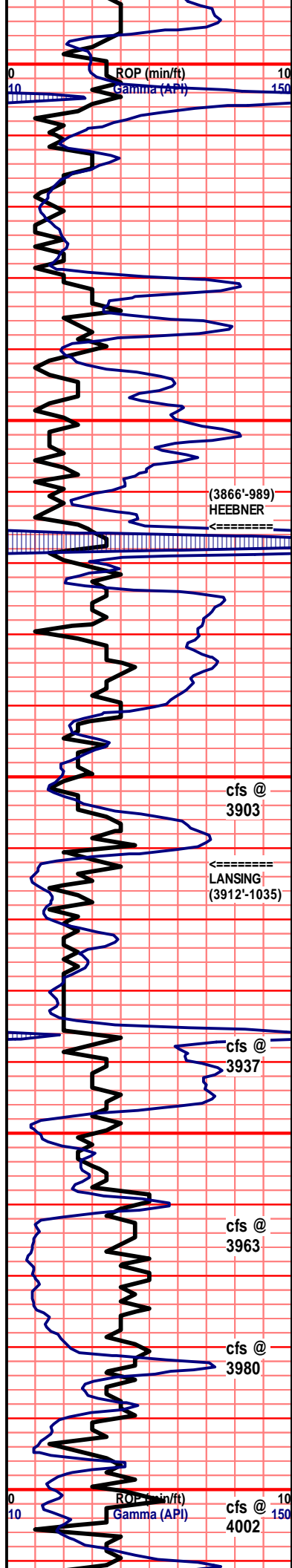
3780: incrs in brwn-gry slty sh, tan foss lm, cemnt flooded, gry inxln lm, poor-no por, no odr, ns.

3790: sig incrs in maroon/brwn sh, lght crm pack stn lm, fair-poor intr prtcl por, no odr, ns.

3800: crm inxln lm, poor inxln por, incrs in wht chlk, no odr, ns.

Neutron Porosity (NAPI)





PUMP PRESSURE 950+

POOR BOY'S STRAIGHT HOLE SURVEY: 1/2 DEGREE

7/28/2013
mud info.
wt: 9.1
Funnel Vis. 52
Filtrate API: 10.4
Chloride 3,000
LCM # 1

cfs @ 3903
30MIN: mstly lght crm xln lm, sli chlk, poor xln por, lots of wht chlk. 60MIN: aa, incrs in wht foss chrt & chrtly lm, no vis por, no odr, ns.

DST #1: 3927' - 3963' (LKC "C")
Recovered 2' oil, 102' water cut mud (30% water, 70% mud) and 62' mud cut water (10% mud, 90% water).
Total Fluid 166' (1% oil, 53% water, 47% mud).
IFP: 17-61#/30" ISIP: 1000#/45"
FFP: 65-89#/45" FSIP: 937#/60"

cfs @ 3937
30MIN: mstly crm inxln lm, poor inxln por, ns, loose wht chlk. 60MIN: mstly crm inxln lm, cemnt flooded fracs, poor-no por, lots of wht chlk, no odr, ns.

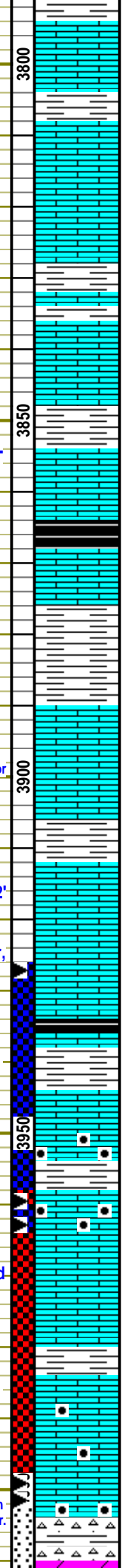
cfs @ 3963
30MIN: mstly crm inxln-fn lm, some chps developed vuggy/xln por w/ shw of brwn free oil, sub-chrtly, fair-strng odr. 60MIN: same as thirty, incrs in shw of brwn oil, strng odr.

DST #2: 3959' - 4002' (LKC "D" & "E")
Recovered 65' water cut mud (5% water, 95% mud).
IFP: 19-33#/30" ISIP: 933#/45"
FFP: 35-49#/45" FSIP: 886#/60"

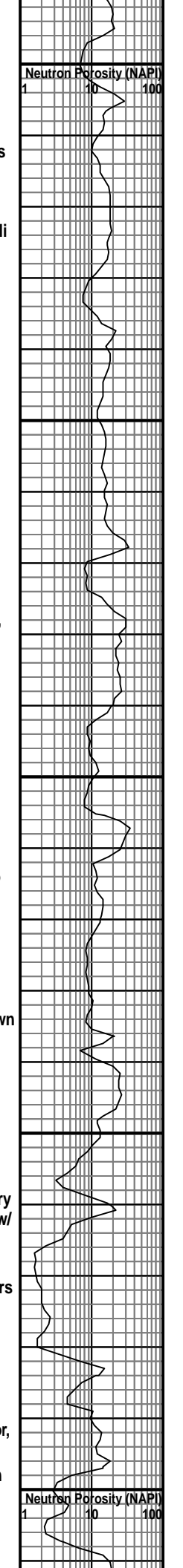
cfs @ 3980
30MIN: mstly crm inxln lm, cors xln in prt, poor inln por, lots of wht chlk. 60MIN: same as thirty min sample incrs in v. lght crm subchlkly lm.

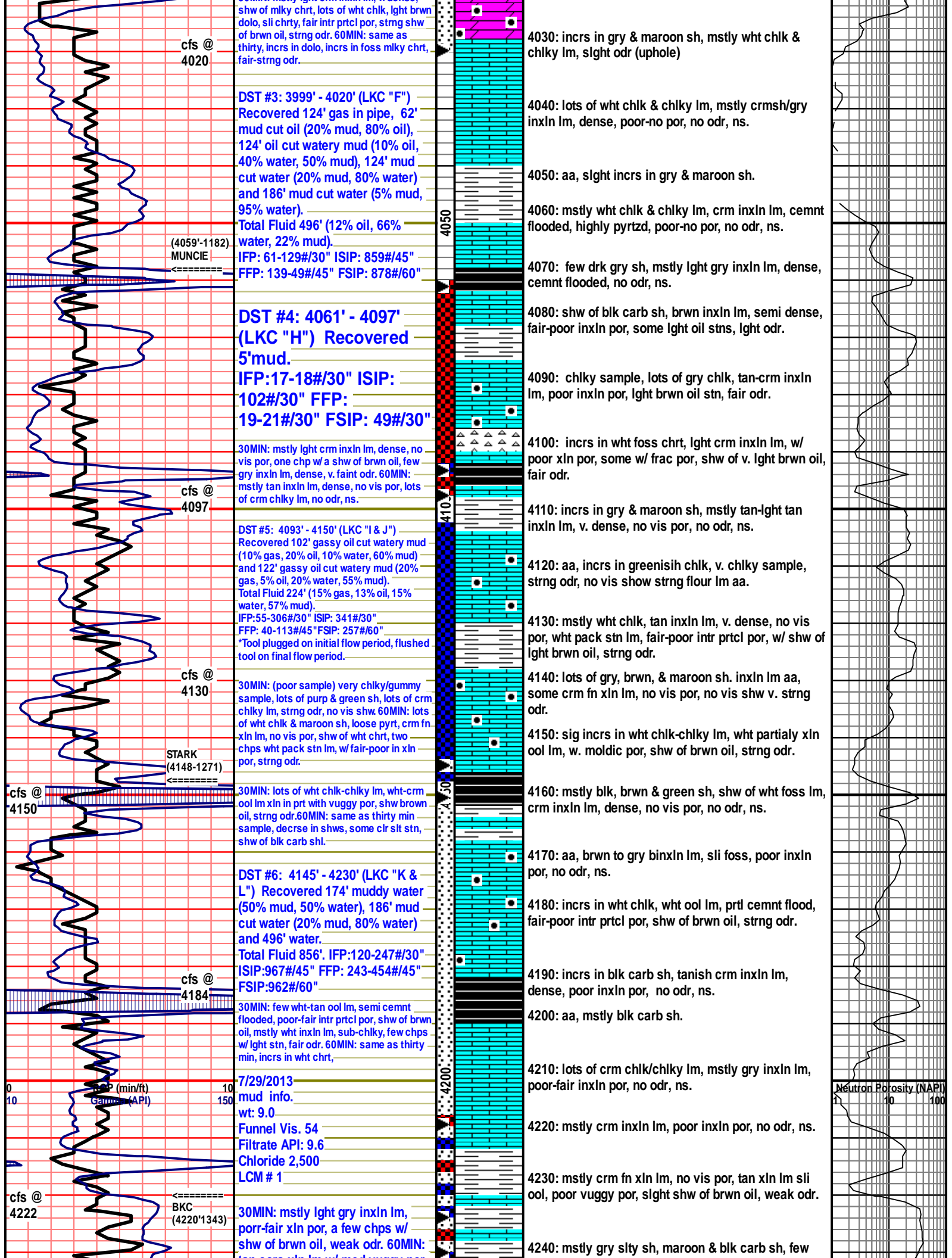
cfs @ 4002
30MIN: crm-tan fn xln lm, w/ pin point vuggy por, shw of brwn oil, few chps cors xln lm, w/ frac por w/ a shw of brwn oil, strng odr. 60MIN: same as thirty, decrs in oil shws, slght incrs in drk tan chrt, fair odr.

30MIN: mstly lght crm inxln lm, v. dense.



no odr, ns.
3810: crm ool lm, cemnt flooded, no vis por, no odr, ns.
3820: aa, incrs in fn xln crm lm, no vis por, incrs in gry sh.
3830: incrs in wht crmy foss chert & chrtly lm, no vis por, no odr, ns.
3840: incrs in gry sh, mstly brwn inxln lm, dense, sli foss, no odr, ns.
3850: aa, incrs in crm xln lm, sli chlk, incrs in gry xln lm, no odr, ns.
3860: aa, no sig change.
3870: crm semi xln lm, chlk, poor por, mstly wht chlk.
3880: show of blk carb sh, lots of crmish/wht chlkly lm.
3890: mstly crm-gry inxln lm, poor inxln por, no odr, ns.
3900: aa, incrs in green & gry sh.
3910: crm xln lm, dense, lots of crm chrt/ chrtly lm, incrs in maroon/brwn sh, no odr, ns.
3920: aa, incrs in chlkly lm, decrs in sh.
3930: tan grain stn lm, med cors grn, poor-fair intr prtcl por, incrs in lght crm ool lm, cemnt flooded, no vis por.
3940: incrs grain st & ool cemnt floded lm aa, sig incrs in wht chlk, no odr, ns.
3950: tan xln lm, w/ mod vuggy por, slght shw of brwn oil, mstly lght crm inxln lm, poor xln por, no odr.
3960: incrs in gry sh, incrs in gry inxln, poor inxln por, ns, incrs in tan xln lm, w/ fair inxln por, shw of brwn oil, fair odr.
3970: sig incrs in maroon, gry & green sh, shw of gry & brwn slt stn, mstly v. lght crm inxln lm, few chps w/ fair inxln por w/ SSFO, weak-fair odr.
3980: mstly lght crm inxln lm aa, poor inxln por, incrs in wht chlk, no odr, ns.
3990: aa, no sig change.
4000: crmsh tan cors xln lm, w/ fair frac & vuggy por, abundnt shw of v. lght brwn oil, strng odr.
4010: mstly gnry & maroon sh, few drty crm inxln-fn xln lm, v. dense, ns. v. poor sample.
4020: v. lght tan fn xln lm, w/ vuggy por, show brwn oil, few crm sub-chlkly lm, fair odr.





cfs @ 4020

shw of mlky chrt, lots of wht chlk, lght brwn dolo, sli chrt, fair intr prtcl por, strng shw of brwn oil, strng odr. 60MIN: same as thirty, incrs in dolo, incrs in foss mlky chrt, fair-strng odr.

4030: incrs in gry & maroon sh, mstly wht chlk & chlyky lm, slght odr (uphole)

DST #3: 3999' - 4020' (LKC "F")
Recovered 124' gas in pipe, 62' mud cut oil (20% mud, 80% oil), 124' oil cut watery mud (10% oil, 40% water, 50% mud), 124' mud cut water (20% mud, 80% water) and 186' mud cut water (5% mud, 95% water).
Total Fluid 496' (12% oil, 66% water, 22% mud).
IFP: 61-129#/30" ISIP: 859#/45"
FFP: 139-49#/45" FSIP: 878#/60"

4040: lots of wht chlk & chlyky lm, mstly crmsh/gry inxln lm, dense, poor-no por, no odr, ns.

4050: aa, slght incrs in gry & maroon sh.

4060: mstly wht chlk & chlyky lm, crm inxln lm, cemnt flooded, highly pyrtzd, poor-no por, no odr, ns.

4070: few drk gry sh, mstly lght gry inxln lm, dense, cemnt flooded, no odr, ns.

DST #4: 4061' - 4097' (LKC "H") Recovered 5'mud.
IFP: 17-18#/30" ISIP: 102#/30" FFP: 19-21#/30" FSIP: 49#/30"

4080: shw of blk carb sh, brwn inxln lm, semi dense, fair-poor inxln por, some lght oil stns, lght odr.

4090: chlyky sample, lots of gry chlk, tan-crm inxln lm, poor inxln por, lght brwn oil stn, fair odr.

30MIN: mstly lght crm inxln lm, dense, no vis por, one chp w/ a shw of brwn oil, few gry inxln lm, dense, v. faint odr. 60MIN: mstly tan inxln lm, dense, no vis por, lots of crm chlyky lm, no odr, ns.

4100: incrs in wht foss chrt, lght crm inxln lm, w/ poor xln por, some w/ frac por, shw of v. lght brwn oil, fair odr.

4110: incrs in gry & maroon sh, mstly tan-lght tan inxln lm, v. dense, no vis por, no odr, ns.

4120: aa, incrs in greenish chlk, v. chlyky sample, strng odr, no vis show strng flour lm aa.

DST #5: 4093' - 4150' (LKC "I & J")
Recovered 102' gassy oil cut watery mud (10% gas, 20% oil, 10% water, 60% mud) and 122' gassy oil cut watery mud (20% gas, 5% oil, 20% water, 55% mud).
Total Fluid 224' (15% gas, 13% oil, 15% water, 57% mud).
IFP: 55-306#/30" ISIP: 341#/30"
FFP: 40-113#/45" FSIP: 257#/60"
*Tool plugged on initial flow period, flushed tool on final flow period.

4130: mstly wht chlk, tan inxln lm, v. dense, no vis por, wht pack stn lm, fair-poor intr prtcl por, w/ shw of lght brwn oil, strng odr.

4140: lots of gry, brwn, & maroon sh. inxln lm aa, some crm fn xln lm, no vis por, no vis shw v. strng odr.

4150: sig incrs in wht chlk-chlyky lm, wht partialy xln ool lm, w. moldic por, shw of brwn oil, strng odr.

30MIN: (poor sample) very chlyky/gummy sample, lots of purp & green sh, lots of crm chlyky lm, strng odr, no vis shw. 60MIN: lots of wht chlk & maroon sh, loose pyrt, crm fn xln lm, no vis por, shw of wht chrt, two chps wht pack stn lm, w/ fair-poor in xln por, strng odr.

4160: mstly blk, brwn & green sh, shw of wht foss lm, crm inxln lm, dense, no vis por, no odr, ns.

4170: aa, brwn to gry binxln lm, sli foss, poor inxln por, no odr, ns.

4180: incrs in wht chlk, wht ool lm, prtcl cemnt flood, fair-poor intr prtcl por, shw of brwn oil, strng odr.

30MIN: lots of wht chlk-chlyky lm, wht-crm ool lm xln in prt with vuggy por, shw brwn oil, strng odr. 60MIN: same as thirty min sample, decrse in shws, some clr slt stn, shw of blk carb sh.

4190: incrs in blk carb sh, tanish crm inxln lm, dense, poor inxln por, no odr, ns.

4200: aa, mstly blk carb sh.

DST #6: 4145' - 4230' (LKC "K & L") Recovered 174' muddy water (50% mud, 50% water), 186' mud cut water (20% mud, 80% water) and 496' water.
Total Fluid 856'. IFP: 120-247#/30" ISIP: 967#/45" FFP: 243-454#/45" FSIP: 962#/60"

4210: lots of crm chlk/chlyky lm, mstly gry inxln lm, poor-fair inxln por, no odr, ns.

4220: mstly crm inxln lm, poor inxln por, no odr, ns.

30MIN: few wht-tan ool lm, semi cemnt flooded, poor-fair intr prtcl por, shw of brwn oil, mstly wht inxln lm, sub-chlyky, few chps w/ lght stn, fair odr. 60MIN: same as thirty min, incrs in wht chrt,

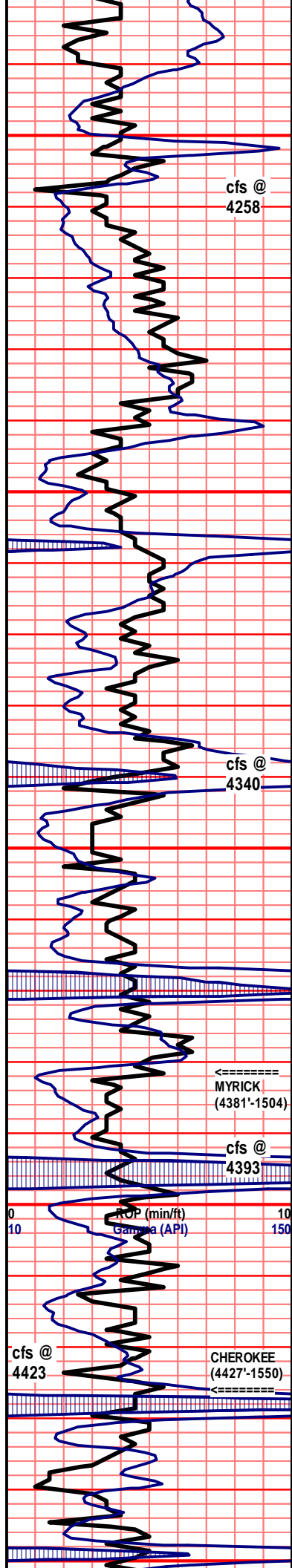
4230: mstly crm fn xln lm, no vis por, tan xln lm sli ool, poor vuggy por, slght shw of brwn oil, weak odr.

4240: mstly gry slty sh, maroon & blk carb sh, few

0 10 150
GPR (min/ft)
Gamma (API)

cfs @ 4222
BKC (4220'1343)

Neutron Porosity (NAP)
10 100



tan cors xln lm w/ med vuggy por, shw of brwn oil, weak odr.

DST #7: 4224' - 4340' (Marmaton & Altamont) Mis-run.

cfs @ 4258

30MIN: crm inxln lm, cemnt flooded xln por, lots of crm chlky lm, no odr, ns. 60MIN: lm same as thirty min, sig incrs in green & brwn sh.

DST #8: 4208' - 4340' (Marmaton & Altamont) Recovered 10' mud. IFP: 24-30#/30" ISIP: 406#/30" FFP: 32-41#/30" FSIP: 301#/30"

PUMP PRESSURE 950+

7/29/2013 mud info. wt: 9.0 Funnel Vis. 54 Filtrate API: 9.6 Chloride 2,500 LCM # 1

cfs @ 4340

30MIN: mstly drk gry to blk carb sh, tan-gry xln lm, dense, poor-no por, no odr, ns. 60MIN: same as thirty min sample, no sig change.

DST #9: 4336' - 4423' (Pawnee, Myrick & Fort Scott) Recovered 60' mud with oil spots. IFP: 18-29#/30" ISIP: 164#/30" FFP: 32-48#/30" FSIP: 108#/30"

MYRICK (4381'-1504)

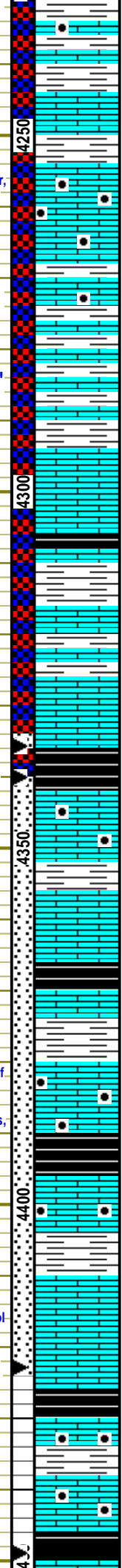
cfs @ 4393

7/30/2013 mud info. wt: 9.2 Funnel Vis. 55 Filtrate API: 9.6 Chloride 2,500 LCM # 1

CHEROKEE (4427'-1550)

30MIN: mstly gr & green sh, a few chps ool lm, prtial cemnt flooded, v. poor intr prtcl por w/ a shw of free brown oil, weak odr. 60MIN: same as thirty, incrs in lght crm fn xln lm, no vis por, decrse in shws as thirty min sample, weak-no odr.

7/31/2013 mud info. wt: 9.1 Funnel Vis. 51 Filtrate API: 8.8 Chloride 2,000 LCM # 1



chp w/ shw (uphole), no odr.

4250: mstly sh aa, few crm inxln lm w/ pin point vuggy por, slght shw brwn oil, v. weak odr.

4260: crm-tan xln lm, fn xln in prt, v. dense, cemnt flooded, no vis por, no odr, ns.

4270: mstly gry sh, tan inxln lm, w/ pin point vuggy por, slght shw of brwn oil, weak odr.

4280: incrs in wht chlck & v. lght gry xln lm sli chlky, tan xln lm, sli chlky w/ lght oil stn, v. weak odr.

4290: mstly gry chlck, brwn-gry inxln lm, poor inxln por, few chps w/ drk oily stn.

4300: aa, incrs in chlck, ns, slght odr.

4310: mstly brwn dense inxln lm, sli chrty, no vis por, lots of crm chlck & crm chrt, one smale xln lm chp, sli chlky w/ v. slght shw, no odr.

4320: mstly v. lght crm xln lm, incrs in wht chrt, poor-no por, no odr, ns.

4330: aa, sig incrs in brwn sh.

4340: brwn tan fn-inxln lm, cemnt flooded, v. dense, sli foss, no vis or, no odr, ns.

4350: mstly gry & blk carb sh, few crm ool lm w/ poor intr prtcl por, slght show brwn oil, weak odr.

4360: sig incrs in wht chlck & chlky lm, lots of wht chrt, few lght tan inxln lm, w/ pin point vuggy por, slght shw of free oil, v. weak odr.

4370: incrs in gry & green sh, wht chlck & chlky lm, wht-lght brwn chrt, lots of tan-brwn fn xln lm, dense, no vis por, no odr, ns.

4380: aa, shw of blk carb sh, decrse in chlck, incrs in tan-crm inxln lm, poor inxln por, no odr, ns.

4390: incrs in blk carb sh, mstly tan inxln lm, cemnt flooded fracs, no vis por, no odr, ns.

4400: lots blk carb sh, wht-crm cors xln lm, fair inxln/frac por, shw of brwn oil, fair-strng odr.

4410: incrs in blk carb sh, crmish/gry ool lm, cemnt flooded, no vis por, few xl chps w/ shw (uphole), weak odr.

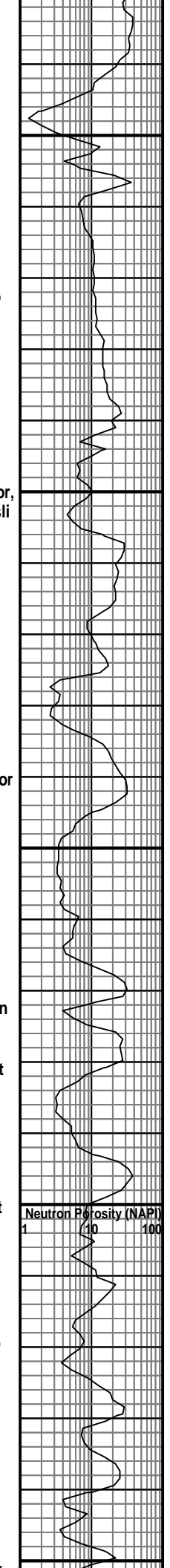
4420: aa, incrs in green & gry sh.

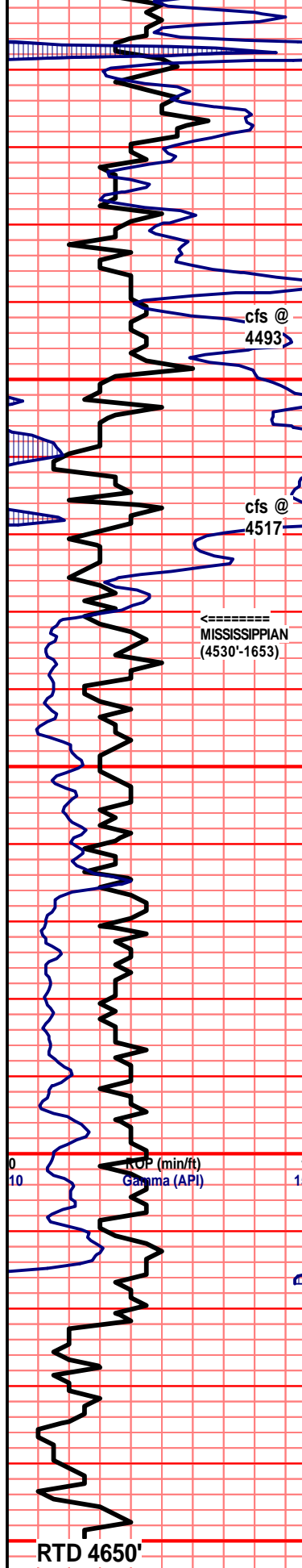
4430: mstly gry sh, few tan semi foss lm, dense, no odr, ns.

4440: decrse in gry sh show blk sh, incrs in lght tan-gry inxln lm, v. dense, no odr, ns.

4450: lots of crm-tan xln lm, sli inxln, w/ vuggy por, good shw of brwn oil, fair-strng odr.

4460: shw of blk carb sh (blk coal?), xln lm w/ shw (uphole), mstly tan inxln lm, dense, no vis por, weak odr.





DST #10: 4449' - 4493' (Johnson)
 Recovered 446' gas in pipe, 112' oil cut mud (5% oil, 95% mud), 124' watery mud cut oil (5% water, 10% mud, 85% oil) and 62' mud and water cut gassy oil (10% water, 10% mud, 20% gas, 60% oil).
 Total Fluid 298' (4% gas, 50% oil, 4% water, 42% mud).
 IFP: 25-78#/30" ISIP: 1093#/45"
 FFP: 82-127#/45" FSIP: 1018#/60"
 30MIN: brwnsh/gry-crm xln lm, cors in prt w/ exlcnt vuggy por, shw of brwn oil, lots of crm chlky lm & crm inxln lm w/ ns, fair-strng odr. 60MIN: same as thirty, decrse in oil shws, slght incrs in gry sh, fair odr.

8/01/2013
 mud info.
 wt: 9.3
 Funnel Vis. 55
 Filtrate API: 9.6
 Chloride 2,600
 LCM # 1

30MIN: sh: gry, green, yellow, maroon & purp, incrs in gry & green slt stn. 60MIN: same as thirty min sample, no change.

PUMP PRESSURE 950+

8/03/2013
 mud info.
 wt: 9.3
 Funnel Vis. 75
 Filtrate API: 16.8
 Chloride 8,000
 LCM # 1
 TWO TANKS WERE MIXED FOLLOWING THE MUD-CO. REP RECOMMANDATION... FUNNEL WAS BROUGHT DOWN TO 55 & 9.1 wt.

PUMP PRESSURE 950+

POOR BOY'S STRAIGHT HOLE SURVEY: 3/4 DEGREE

60MIN: brwn xln dolo, vis grn w/ flood of cemnet, poor por, no odr, ns.



(uphole), misty tan inxln lm, dense, no vis por, weak odr.

4470: crm-grry inxln lm, dense, cemnt flooded, lots of chlky lm, no odr, ns.

4480: lots of brwn fn xln lm w/ pin point vuggy por, slght shw of free brwn oil, fair odr.

4490: brwnsh/gry-crm xln lm, cors in prt w/ exlcnt vuggy por, abundnt strng shw of free brwn oil, v. strng odr.

4500: sig incrs in gry, blk & maroon sh, xln lm w/ shw aa (uphole), v. weak odr.

4510: mstly slty gry, green & maroon sh, tan xln lm w/ v. big vuggy por, exlcnt por, strng show of oil (uphole ?) strng odor.

4520: mstly gry, green & maroon sh, crm xln lm, poor por (a few w/ slght shw uphole), weak-no odr.

4530: aa, no sig change.

4540: shw of ornge & gry foss chrt, mstly tan-crm inxln lm, cemnt flooded, no odmr, ns.

4550: crm pack stn, med grn, sli xln, well cmntd, poor-no por, no odr, ns.

4560: aa, incrs in wht chl & gry sh, no odr, ns.

4570: crm-brwn fn xln lm, no vis por, no odr, ns.

4580: tan inxln lm, poor-no por, no odr, ns.

4590: crm pack stn lm, med-fn grn, matrix fill por, no odr, ns.

4600: aa, no sig change.

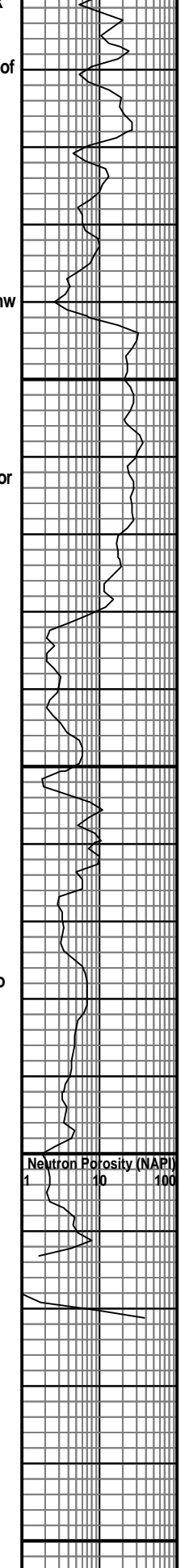
4610: sig incrs in gry & green sh, crm pack stn lm, med-fn grn, matrix fill por, no odr, ns.

4620: aa, decrse in sh.

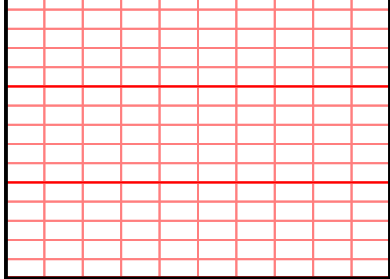
4630: mstly gry sh, crm pack stn, no odr, ns.

4640: aa, no change.

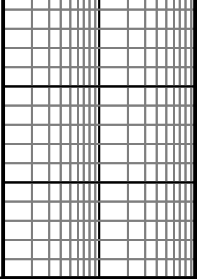
4650: brwn xln dolo, exlcnt vuggy por, lots of wht chl, no odmr, ns.



RTD 4650'



00





#1 Joseph-Hess

1700' FSL & 175' FEL

50°N & 155°E of SE NE SE Section 30-13S-31W

Gove County, Kansas

API# 15-063-22123-0000

Elevation: 2869' GL, 2877' KB

Sample Tops			Ref. Well
Anhydrite	2357'	+520	-7
B/Anhydrite	2380'	+497	-7
Heebner	3868'	-991	-9
Toronto	3891'	-1014	-6
Lansing	3914'	-1037	-9
Muncie Shale	4065'	-1188	-10
Stark Shale	4149'	-1272	-7
Hush. Shale	4186'	-1309	-8
BKC	4229'	-1352	-13
Marmaton	4241'	-1364	-6
Altamont	4259'	-1382	-8
Pawnee	4344'	-1467	-7
Myrick	4383'	-1506	-8
Fort Scott	4399'	-1522	-7
Cherokee	4427'	-1550	-6
Johnson	4470'	-1593	-7
Mississippian	4518'	-1641	-19
RTD	4650'	-1773	

ALLIED OIL & GAS SERVICES, LLC 060767

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Dakley

DATE <u>7-23-13</u>	SEC. <u>30</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>4:30 PM</u>	JOB FINISH <u>5:00 PM</u>
LEASE <u>Joseph-Hess</u>		WELL.# <u>1</u>		LOCATION <u>Dakley 165 3E 4 1/2 S</u>		COUNTY <u>Gove</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)				WTS into			

CONTRACTOR <u>WJW 72</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>235'</u>
CASING SIZE	DEPTH <u>235'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>14.01 006</u>	
EQUIPMENT	
PUMP TRUCK # <u>422</u>	CEMENTER <u>Andrea Forjund</u>
BULK TRUCK # <u>396</u>	HELPER <u>Wayne McGinley</u>
BULK TRUCK #	DRIVER <u>Kevin Ryan</u>
	DRIVER

CEMENT	AMOUNT ORDERED <u>165 sks com 38cc</u>		
	<u>295 gal</u>		
COMMON <u>165 sks</u>	@ <u>17.90</u>	<u>2953.50</u>	
POZMIX	@		
GBL <u>27 sks</u>	@ <u>23.40</u>	<u>2012.00</u>	
CHLORIDE <u>6 sks</u>	@ <u>68.00</u>	<u>384.00</u>	
ASC	@		
	@		
	@		
	@		
	@		
	@		
	@		
	@		
	@		
HANDLING <u>128.42 cu ft</u>	@ <u>7.48</u>	<u>442.48</u>	
MILEAGE <u>260 to 1/2 mile</u>	@ <u>8.14</u>	<u>402.11</u>	
		TOTAL	<u>4252.29</u>

REMARKS:

Cement did circulate

Thank you

CHARGE TO: Ritchie Exploration

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE	
DEPTH OF JOB <u>235'</u>	
PUMP TRUCK CHARGE	<u>1512.75</u>
EXTRA FOOTAGE	@
MILEAGE <u>19 miles</u>	@ <u>2.70</u> <u>146.30</u>
MANIFOLD	@
<u>Light vehicle</u>	@ <u>4.40</u> <u>83.60</u>
	@
TOTAL <u>1742.15</u>	

PLUG & FLOAT EQUIPMENT	
	@
	@
	@
	@
	@
TOTAL _____	

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Alan Plummer

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES 5,999.44

DISCOUNT 1,378.72 IF PAID IN 30 DAYS

4,615.71 Net.



CONSOLIDATED
Oil Well Services, LLC

261164

TICKET NUMBER 38054
LOCATION Oakley, KS
FOREMAN Kelly Gabel
Fuzzy

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-4-13	7173	Joseph-Hess #1	30	13	31	Goore
CUSTOMER Ritchie Exploration			Oakley south to Goover Rd 3E 5S into			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			460	Jack Johnson		
STATE						
ZIP CODE						

JOB TYPE Pool HOLE SIZE 7 7/8 HOLE DEPTH 4650 CASING SIZE & WEIGHT 5 1/2 15.5 #
CASING DEPTH 4647 DRILL PIPE _____ TUBING Portop #55 OTHER PC @ 2328
SLURRY WEIGHT 142 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT In CASING _____
DISPLACEMENT 11060 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: safety meeting, ran float equip on AT's turbos - 1, 3, marker AT, 11, 14, 16
54, 56 Baskets - 9, 54, 66, 88, 95 portop #55, ran pipe to bottom & circulated
for 45 min, pumped 5 bbl water, mud flush, 5 bbl water, mixed 30 sks
RH, 200 sks OWC 5# Kol-seal, 1/4 of 1% CDT-26 with no deframer, released
plug & displaced with 108 1/2 bbl water with a lift of 950 # & plug is held
@ 1400 #, released pressure, float held, washed out pumps & lines
rigged down.

Thank You
Jenny, Kelly & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3175 ⁰⁰	3175 ⁰⁰
540b	20 mi	MILEAGE	5 ³⁵	105 ⁰⁰
1126	230 sks	OWC	23 ⁷⁰	5451 ⁰⁰
110A	150 #	Kol-seal	.56	644 ⁰⁰
1137	54 #	CDT-26	10 ³⁰	550 ⁸⁰
*1146	32 #	CAF-38	10 ³⁰	326 ⁴⁰
5407	10.81	Ton mileage delivery	17 ⁵	430 ⁰⁰
4203	1	5 1/2 Guide shoe (I)	202 ⁷⁵	202 ⁷⁵
4228B	1	5 1/2 AFU Insert (10)	216 ⁵⁰	216 ⁵⁰
4136	8	5 1/2 Turbolizer (7-W 1-I)	25 ⁷⁵	606 ⁰⁰
4104	5	5 1/2 basket (10)	290 ⁰⁰	1450 ⁰⁰
4285	1	5 1/2 Partcoller (I) serial # 315	2178 ²⁵	2178 ²⁵
1446	50 gal	mud flush	1 ⁰⁰	500 ⁰⁰
4406	1	5 1/2 rubber Plug	92 ⁵⁰	92 ⁵⁰
				15,928 ⁷⁰
				1,592 ⁸²
				14335 ⁸³
			SALES TAX	808.75
			ESTIMATED TOTAL	15204.58

Completed

Next 10070

Revin 3737

AUTHORIZATION [Signature] TITLE _____ DATE 8-4-13

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



CONSOLIDATED
Oil Well Services, LLC

261305

TICKET NUMBER 38038

LOCATION Oakley KS

FOREMAN Mike Shaw

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

Walt Dinter
Damon Miller trainee

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	VS			
8-9-13	7173	Joseph Hess #1	30	13S	31W	Goove	VS			
CUSTOMER			TRUCK #		DRIVER		TRUCK #		DRIVER	
Richie Exploration			399		Dane R					
MAILING ADDRESS			5287127		Daniel D					
CITY										
STATE										
ZIP CODE										

JOB TYPE Part Coffer HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT 5 1/2"
 CASING DEPTH _____ DRILL PIPE _____ TUBING 2 3/4 OTHER Ann @ 232x
 SLURRY WEIGHT 12.5 SLURRY VOL 1.7 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 13 bbls DISPLACEMENT PSI 7500 MIX PSI _____ RATE _____

REMARKS: Safety meetings and rig up on Alliance well service test tool down.
open tool establish circulation mix 350 sls 60/40 per 60 gal 1/4" #10
seal and see Cotton Seed hulls displace 13 bbls water Shut in
Close tool Run 5 joints in circulate clean

Thanks Mike & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1395.00	1395.00 ✓
5406	20	MILEAGE	5.25	105.00 ✓
5407A	15.05 tons	Ton Mileage delivery	1.25	526.00 ✓
1131	350 sls	60/40 per	15.86	5551.00 ✓
118B	1800 #	Bentonite gel	.27	487.62 ✓
1107	88 #	Flo seal	2.97	261.36 ✓
1105	500 #	Cotton seed hulls	1.58	290.00 ✓
			Subtotal	8616.78
			less 10% discount	8616.78 ✓
			Subtotal	7755.10
			SALES TAX	468.55 ✓
			ESTIMATED TOTAL	8223.65

completed

Ravin 3737

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 30, 2013

John Niernberger
Ritchie Exploration, Inc.
8100 E 22ND ST N # 700
BOX 783188
WICHITA, KS 67278-3188

Re: ACO1
API 15-063-22123-00-00
Joseph-Hess 1
SE/4 Sec.30-13S-31W
Gove County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
John Niernberger