



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1155887  
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: \_\_\_\_\_



1155887

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](mailto: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

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

## WellSight Systems

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

Measured Depth Log

Well Name: #1 IMEL 8AD-NAU

Location: Sec. 8- Township 26S- Range 22W FORD COUNTY, KANSAS

License Number: API 15-063-22091

Region: Kansas (Western, Ks )

Spud Date: 04/30/2013

Drilling Completed: 05/11/2013

Surface Coordinates: 335' FNL 2510' FEL

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

Coordinates:

Ground Elevation (ft): 2427

K.B. Elevation (ft): 2439

Logged Interval (ft): 3400 To: 5020

Total Depth (ft): 5020

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 SOUTHWIND RIG# 70)

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

## Sample & Log Tops/ Daily Drilling Report

### TOPS:

### E-LOG:

Anhydrite 1492'+947  
B/Anhydrite 1524'+915  
Stotler 3493'-1054  
Heebner 4118'-1679  
Lansing 4229'-1790  
Muncie Shale 4407'-1968  
Stark Shale 4512'-2073  
Hush 4570'-2131  
BKC 4607'-2166  
Marmaton 4631'-2194  
Altamont 4664'-2225  
Pawnee 4737'-2298  
Fort Scott 4766'-2327  
Cherokee Sh. 4786'-2347  
L. Cherokee Sh. 4818'-2379  
Huck 4849'-2410  
Atoka 4862'-2423  
Mississippian 4894'-2455

### SAMPLE TOPS:

Anhydrite 1494'+945  
B/Anhydrite 1520'+919  
Stotler 3493'-1059  
Heebner 4118'-1679  
Lansing 4427'-1788  
Muncie Shale 4405'-1966  
Stark Shale 4508'-2069  
Hush 4565'-2126  
BKC 4605'-2164  
Marmaton 4626'-2187  
Altamont 4660'-2221  
Pawnee 4734'-2295  
Fort Scott 4766'-2327  
Cherokee Shale 4784'-2345  
L. Cherokee Sh. 4818'-2479  
Huck 4850'-2411  
Atoka 4864'-2425  
Mississippian 4897'-2458

### DAILY DRILLING REPORT:

4/30 spud  
5/01 358'  
5/02 1220'  
5/03 2066'  
5/03 2790'  
5/04 3450'  
5/05 4130'  
5/06 4418'  
5/07 4670'  
5/08 4670'  
5/09 4709'  
5/10 4872'  
5/11 5020'

### Misc. Field Info.

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

RIG: SOUTHWIND DRILLING RIG#70

DRILLPIPE: 4-1/2" XH

TOOLPUSHER: SAM STAGGS

MUD: MUDCO (JUSTIN WHITING)

GAS DETECTOR: NONE

DRILL STEM TESTS: SUPERIOR TESTING

LOGS: NABORS

## Comments

**SURFACE Casing: 8 5/8" @ 371'**

Moved in and rigged up. Spud at 8:15 p.m. Ran 8 jts used 23# 8-5/8" surface casing. Tally at 358.48', set at 371'. Cemented with 220 sacks class A, 2% gel, 3% cc. Cement circulated. Plug down at 5:30 a.m. on 5/1/13.

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

**STRUCTURALLY: This Well ran Flat & Lower to Offset.**


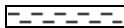

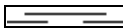




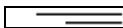
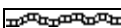
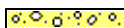


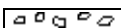

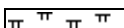

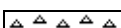



After the evaluation of electrical logs, and drill stem test results; Ritchie Exploration, Inc. determined to run 4 1/2" production casing on #1 Imel 8AD-nau for further commerical testing oil and gas.

RTD 5020'. Ran Electric Log. LTD 5020'. Ran 4-1/2" 10.5# new production casing, set at 5001'. Port collar at 1465'. Insert at 4958'. Pumped 500 gallons mud flush. Cemented casing with 200 sacks OWC, 10% salt, 2% gel, 5# per sack of Kolseal and ¼% of CDI-26. Plug down at 12:45 p.m. on 05/12/13. Plugged rat hole with 30 sacks and mouse hole with 20 sacks.






































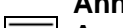

































Samples will be deposited with KANSAS GEOLOGICAL SURVEY.

**RESPECTFULLY SUBMITTED;**  
 Adam M. A. Eldani  
 Petroleum Geologist.

### ROCK TYPES

 Carb sh	 Clyst	 Igne	 Shale	 Till
 Anhy	 Coal	 Lmst	 Shcol	
 Bent	 Congl	 Meta	 Shgy	
 Brec	 Dol	 Mrlst	 Slstst	
 Cht	 Gyp	 Salt	 Ss	

### ACCESSORIES

<b>MINERAL</b>		<b>FOSSIL</b>	
 Anhy	 Gyp	 Algae	 Ostra
 Arggrn	 Hvymin	 Amph	 Pelec
 Arg	 Kaol	 Belm	 Pellet
 Bent	 Marl	 Bioclst	 Pisolite
 Bit	 Minxl	 Brach	 Plant
 Brecfrag	 Nodule	 Bryozoa	 Strom
 Calc	 Phos	 Cephal	
 Carb	 Pyr	 Coral	<b>STRINGER</b>
 Chtdk	 Salt	 Crin	 Anhy
 Chtlt	 Sandy	 Echin	 Arg
 Dol	 Silt	 Fish	 Bent
 Feldspar	 Sil	 Foram	 Coal
 Ferrpel	 Sulphur	 Fossil	 Dol
 Ferr	 Tuff	 Gastro	 Gyp
 Glau		 Oolite	 Ls
			 Mrst
			 Slststrg
			 Ssstrg
			<b>TEXTURE</b>
			 Boundst
			 Chalky
			 Cryxln
			 Earthy
			 Finexln
			 Grainst
			 Lithogr
			 Microxln
			 Mudst
			 Packst
			 Wackest

OTHER SYMBOLS

- POROSITY**
- E Earthy
  - F Fenest
  - X Fracture
  - Inter
  - Moldic
  - Organic
  - Pinpoint

V Vuggy

- SORTING**
- W Well
  - M Moderate
  - P Poor

- ROUNDING**
- R Rounded
  - Subr Subrnd
  - a Subang
  - A Angular

**OIL SHOW**

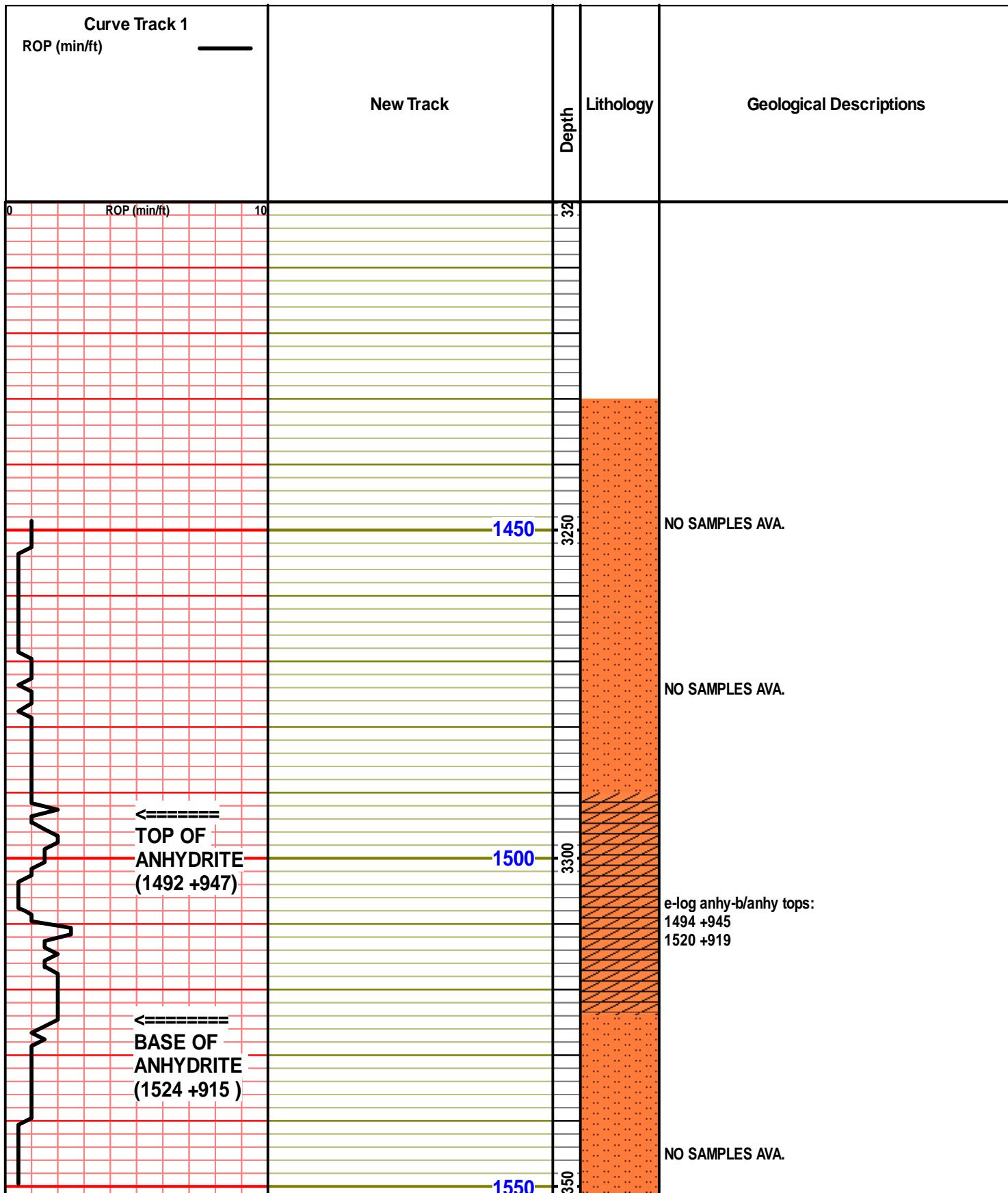
- Even

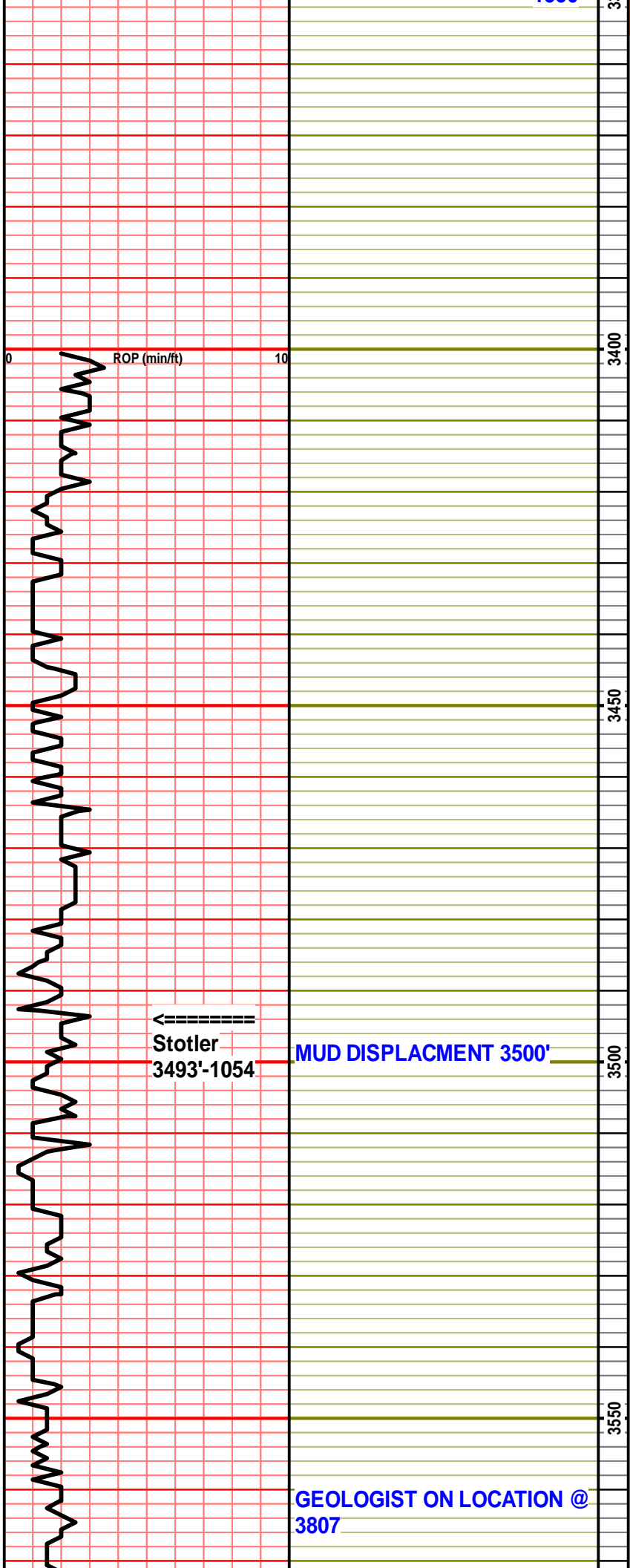
- Spotted
- Ques
- Dead

- INTERVAL**
- Core
  - Dst
  - Dst

Dst\_alt

- EVENT**
- Rft
  - Sidewall





ROP (min/ft)

0

10

3400

3450

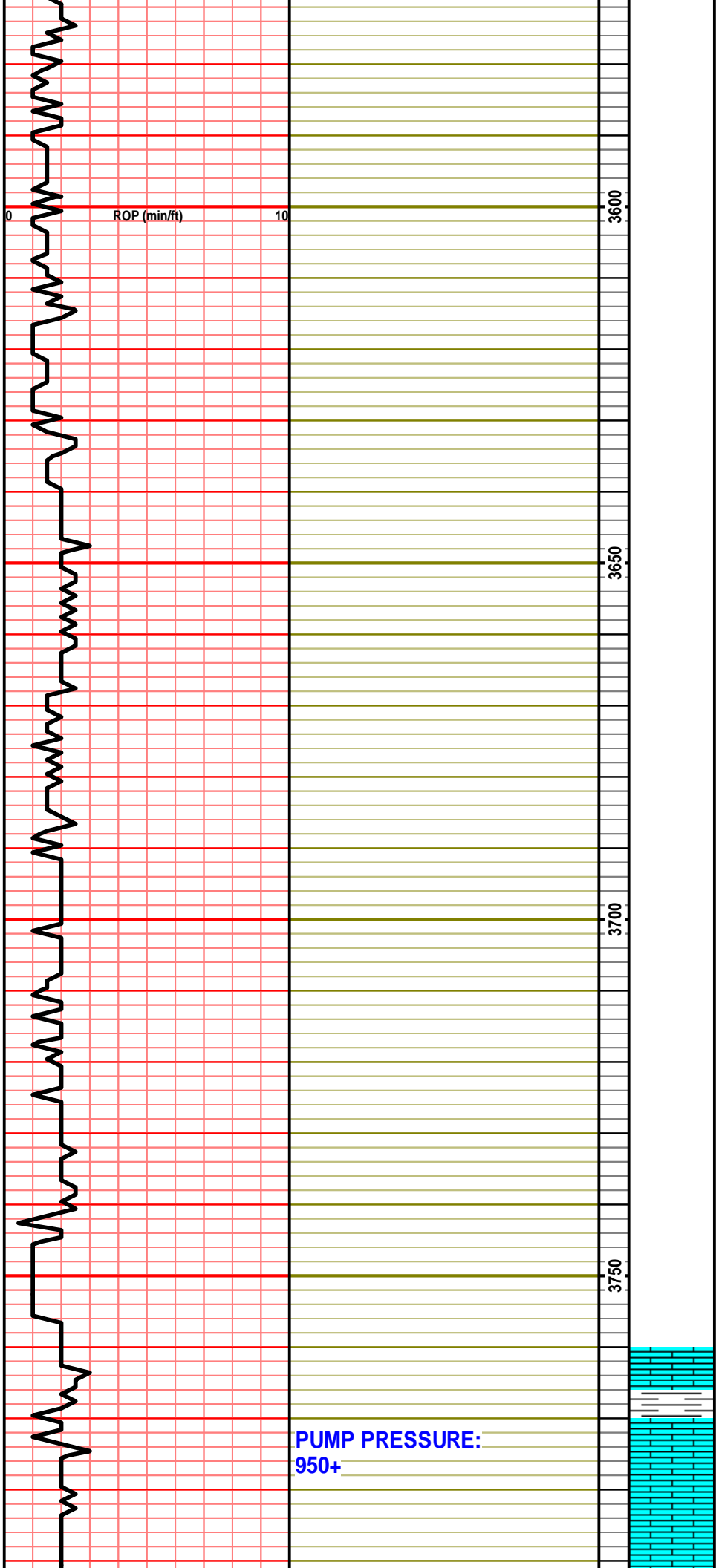
3500

3550

← Stotler  
3493'-1054

MUD DISPLACEMENT 3500'

GEOLOGIST ON LOCATION @  
3807

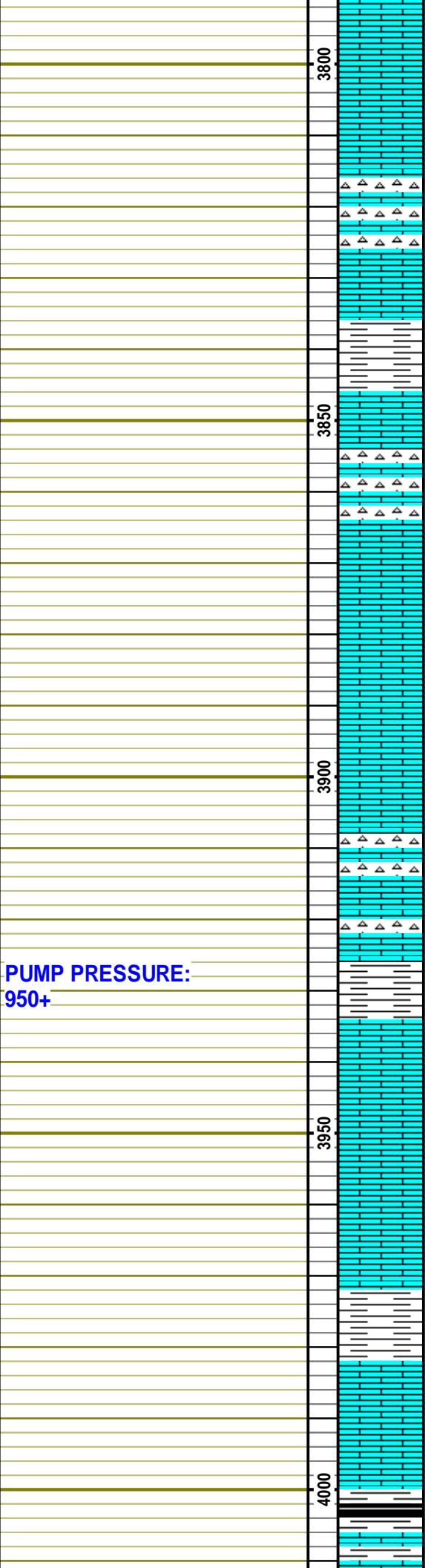
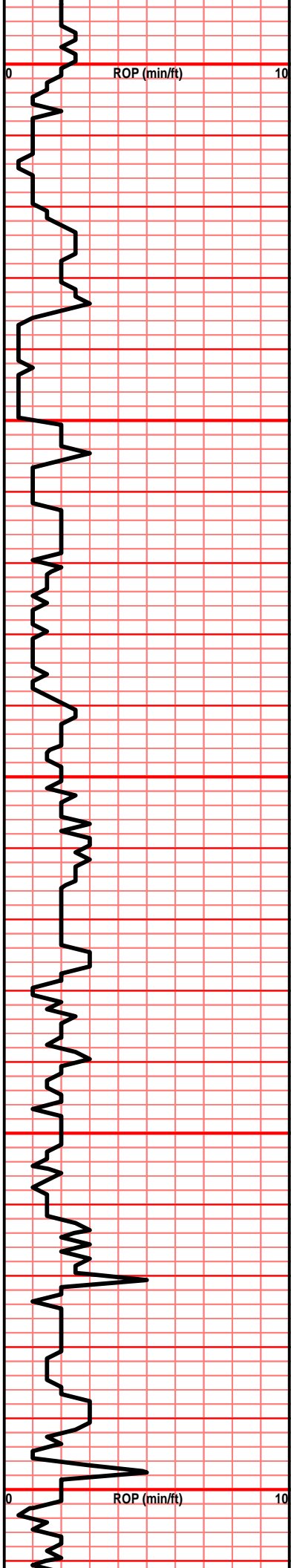


**PUMP PRESSURE:**  
950+

3800: gry-maroon sh, dirty tan foss lm, gry fn xln lm, dense, no shw, no odr.

3810: incrs in chlk nd chlky lm, gry fn xln lm, dense, v. foss, no o vis por, no odr, ns.





3820: aa, incrs in tan inxln lm, lm, poor inxln por, no odr, ns.

3830: greenish chlky lm, tan-gry xln lm, sli foss, poor por, no odr, ns.

3840: incrs in wht chlk, tan fn xln lm, dense, no odr, ns.

3850: lots of wht chlk, clr chrt & tan chrt lm, no odr, ns.

3860: aa, mstly chlk and chrt.

3870: incrs in gry sh & shly lm, gry chrt, no odr, ns.

3880: mstly chlk, lots of crm micrtic lm, fn intr prtcl por, no odr, ns.

3890: lots of gry foss chrt, tan pack stn lm, fn-med grn, poor por, no odr, ns.

3900: mstly wht chlk, tan-buff micrtic lm, fn grn, micro intr prtcl por, no odr, ns.

3910: aa, v. chlky sample try.

3920: crm xln lm prtly chlky, crm-gry micrtic lm, v. fn grn, micro xln, no odr, ns.

3930: incrs in gry foss chrt, gry inxln lm, v. dense, no vis por no odr, ns.

3940: aa, incrs in crm chrt and crm inxln lm, dense, no vis por, no odr, ns.

3950: aa, no sig change.

3960: green sh, incrs in wht-crm chlk and chlky lm.

3970: v. gummy sample, crm pack stn lm, fn grn sed. no odr, ns.

3980: aa, v. chlky, gry-crm cors xln lm, dense, poor frac por, no odr, ns.

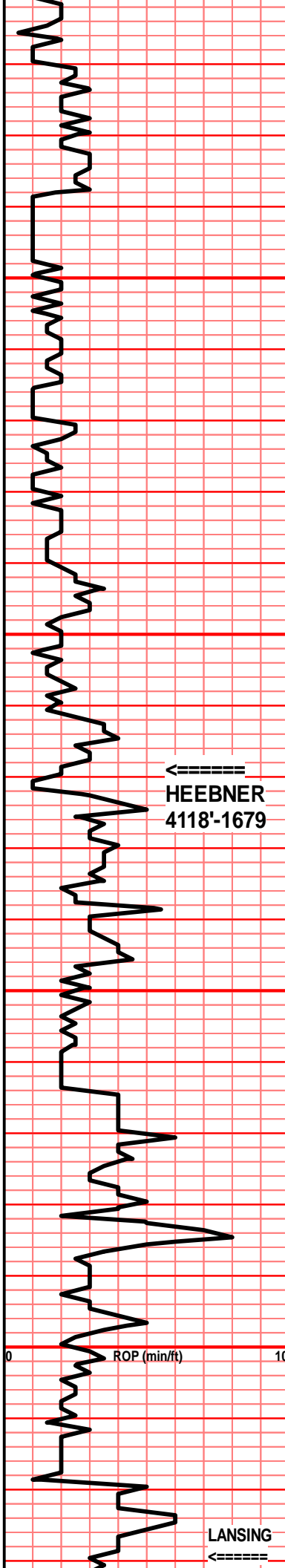
3990: aa, no sig change.

4000: incrs in gry sh, crm xln lm, dense, crm chrt, sli foss, no odr, ns.

4010: crm xln lm, no vis por, no shw, no odr.

4020: incrs in chlk and chlky lm, tan-crm lm, xln cemnt flooded pors, v. dense, no odr, ns.

4030: aa, incrs in blk carb sh.



**PUMP PRESSURE:**  
950+

←=====  
**HEEBNER**  
4118'-1679

05/06/2013  
Mud Info.  
wiegth: 9.3  
Vis. 56  
Chloride: 4,200  
LCM: 2

**PUMP PRESSURE:**  
950+

←=====  
**LANSING**



- 4040: mstly chlk w/ gry-blk sh.
- 4050: incrs in gry sh, lots of wht chlk & chlky lm, no odr, ns.
- 4060: incrs in brwn sh, drk tan-brwn inxln lm, semi dense, poor por, no odr, ns.
- 4070: aa, incrs in v. lght crm fn xln lm, no vis por, no odr, ns.
- 4080: incrs in maroon, green, and blk/gry sh, tan xln lm, no odr, ns.
- 4090: incrs in wht chlk, lots of gry-green sh, tan xln lm, cemnt filled fracs, no odr, ns.
- 4100: mstly chlk & gry-blk sh, tan lm micrtic, non odr, ns.
- 4110: tan lm, well cemntd, no vis por, no odr, ns.
- 4120: gry-blk sh, tan-frm lm fn xln, no vis por, no odr, ns.
- 4130: lots of blk sh, gr-frm chrt, no odr, ns.
- 4140: tan-gry inxln lm, dense, no vis por, no odr, ns.
- 4150: fn xln lm frm-gry, poor-no por, lots of gry sh.
- 4160: lots of fn xln gry lm, dense, no vis por, no odr, ns.
- 4170: incrs in gry and gry sh, tan, gry & brwn lm cors xln, cemnt flooded, poor-no por, no odr, ns.
- 4180: mstly gry inxln lm, dense, sli foss, no odr, ns.
- 4190: incrs in gry sh and slt stn, gry v. foss lm (highly pyrtzd), no odr, ns.
- 4200: incrs in chlk, lght crm fn xln lm, no vis por, no odr, ns.
- 4210: gry-brwn inxln lm, dense, sli foss, no odr, ns.
- 4220: incrs in gry and green sh, frm fn xln lm, no vis por, no odr, ns.
- 4230: mstly grny and green sh, few buff dolo/lm, fair por, no odr, ns.
- 4240: aa, no sig change, mstly gry sh.

4229'  
-1790

**BIT TRIP @ 4245 DUE TO VERY SLOW DRILLING.**

**Straight Hole: .75 degrees**

**PUMP PRESSURE:  
1000+**

←  
**MUNCIE  
4407' -1968**

cfs @  
4438

**30MIN: lots of chlk, lots of tan ool cast lm, execlnt ool cast por, tan-lght gry fn xln lm, no vis por, no odr, ns. 60MIN: aa, no sig change, incrs in lght gry fn xln lm, no vis por, no odr, ns.**

4250: greater incrs in gry, green & maroon sh, srk tan inxln lm, dense, no vis por, no odr, ns

4260: lght-drk gry chrt, sli foss, lght crm xln lm, fn xln in prt, no vis por, no odr, ns.

4270: aa, no sig change.

4280: incrs in gry sh, mstly lght crm xln lm, cors xln in prt, no vis por, no odr, ns.

4290: aa, sig incrs in lght crm sub-chlky lm.

4300: mstly chlk and lght crm sub-chlky lm.

4310: incrs in gry sh, gry inxln lm, foss, poor por, no odr, ns.

4320: incrs in tan chrt, mstly tan chrty/lm, poor-no por, no odr, ns.

4330: aa, incrs in crm sub-chlky lm & wht chlk.

4340: incrs in mlky chrt, lght crm inxln lm, poor por, no odr, ns.

4350: lots of chrt, brwn-gry inxln lm, sli foss, no vis por, no odr, ns.

4360: v. lght gry inxln lm, poor-no inxln por, no odr, ns.

4370: incrs in wht chlk, mstly tan chrty/lm poor-no frac por, no odr, ns.

4380: aa, greater incrs in chlk, few chps ool chrt flooded lm, no por, ns.

4390: aa, mstly chlk, v. chlky sample.

4400: aa, few cors xln gry lm, no vis por, no odr, ns.

4410: aa, incrs in lght gry fn xln lm, no vis por, few brwn ool cast lm, great ool cast por, no odr, ns,

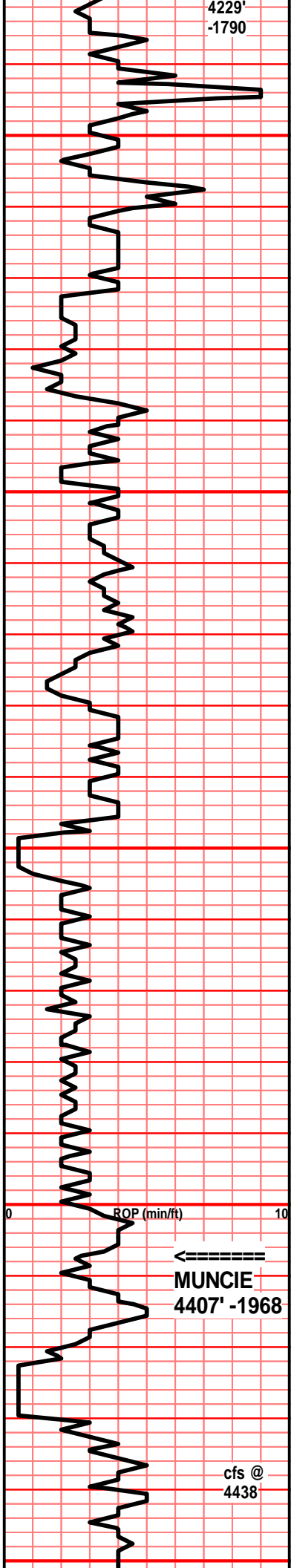
4420: tan-lght gry xln lm, fn xln in prt, no vis por, no odr, ns.

4430: aa, no sig change.

4440: incrs in gry and blk sh, tan ool cast lm, great ool cast por, no odr, ns.

4450: lght crm-crm xln lm, poor inxln por, no odr, ns.

4460: aa, incrs in lght gry foss lm, dense, no vis por, cemnt flooded, no odr, ns.





**PUMP PRESSURE:**  
950+

05/07/2013  
Mud Info.  
weight: 9.35  
Vis. 64  
Chloride: 3,200  
LCM: 1

←-----  
**STARK**  
4512'-2073

**PUMP PRESSURE:**  
1050+

←-----  
**BKC**  
4605'-2164

←-----  
**ALTAMONT**  
4660'-2221

**DST #1 4649-4709**  
**REC: 390' MUD**

4470: lght-drk gry chrt lm, poor-no por, no odr, ns.

4480: incrs in tan ool cast lm, few buff dolo/lm fair intr prtcl por, one chp w/ ?able stn (no cut in lighter fluid), no flour, no odr, ns.

4490: incrs in gry and maroon sh.

4500: incrs in mlky chrt, tan inxln lm, sli foss, poor por, few clr ool cast lm, no odr, ns.

4510: incrs in gry and maroon sh, incrs in wht chlk, tan inxln lm, poor por, no odr, ns.

4520: aa, incrs in wht chlk and sub-chlky lm.

4530: incrs in gry, green and blk carb sh.

4540: mstly chlk and crm sub-chlky lm, incrs in lght crm cors xln lm, poor xln por, sli foss, no odr, ns.

4550: lots of lght crm sub-chlky lm, mstly v. lght crm fn xln lm, prtly inxln, no vis por, no odr, ns.

4560: NO SAMPLE

4570: mstly crm sub-chlky lm, lght crm inxln lm, poor-no inxln por, no odr, ns.

4580: incrs in gry sh, lght crm inxln lm, poor inxln por, no odr, ns.

4590: decrse in sh, aa, no sig change.

4600: lght crm/grysh fn xln lm, no vis por, lots of chlky/lm, no odr, ns.

4610: aa, no sig change.

4620: incrs in gry and blk carb sh, tan cors xln lm, poor frac por, no odr, ns.

4630: lght brwn inxln lm, sli pyrtzd, no vis por, no odr, ns.

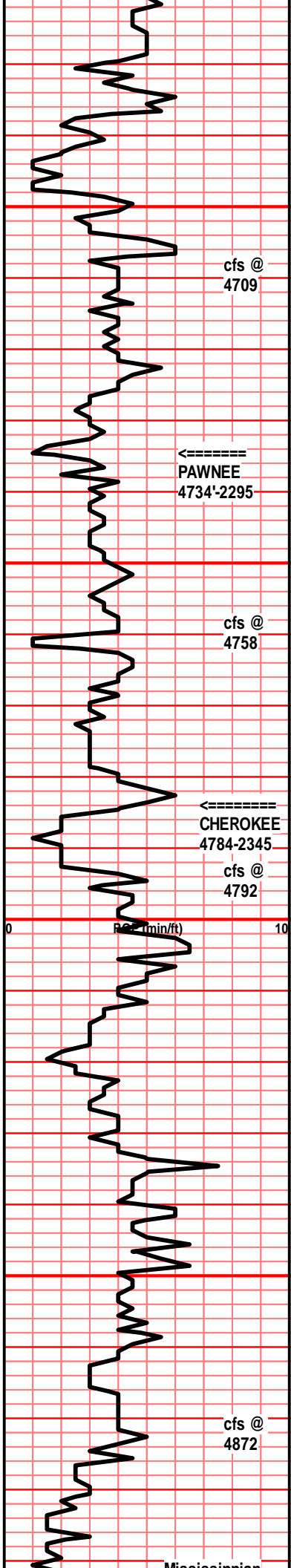
4640: incrs in translucnt chrt, brwn cors xln lm, dense, no vis p[or], no odr, ns.

4650: incrs in mlky chrt, incrs in gry & green sh, crm inxln lm, dense, no odr, ns.

4660: incrs in blk chrt, gry-brwn cors xln lm, dense, no vis por, no odr, ns.

4670: incrs in gry sh, mstly gry chrt sli foss, lm aa, no odr, ns.

4680: mstly gry cors xln lm, poor frac por, no odr, ns.



IFP: 246-249#/  
FFP: 248-252#/  
ISIP: 378#/  
FSIP: 337#/  
05/08/2013  
Mud Info.  
weight: 9.4  
Vis: 54  
Chloride: 3,300  
LCM: 2

30MIN: lots of gry sh, brwn inxln lm, w/  
poor frame work por, drk tary oil stn some  
chps w/ ssfo, v. slight odr, incrs in chrt  
ool lm. 60MIN: incrs in gry & blk sh,  
decrse in shw, brwn inxln lm, chlky in prt,  
w/ stn two chps w/ poor ssfo, no odr.

DST #2 4723-4792  
REC: 8' MUD  
IFP: 61-63#/  
FFP: 64-66#/  
ISIP: 402#/  
FSIP: 153#

30MIN: decrs in sh, few tan-drk brwn chrt,  
mstly lght-drk tan inxln lm, dense, no por,  
no odr, ns. 60MIN: mstly crm inxln lm, poor  
inxln por, one chp lght gry inxln lm, w/  
poot pin point vuggy por, w/ fresh brwn  
stn, v. lght odr.

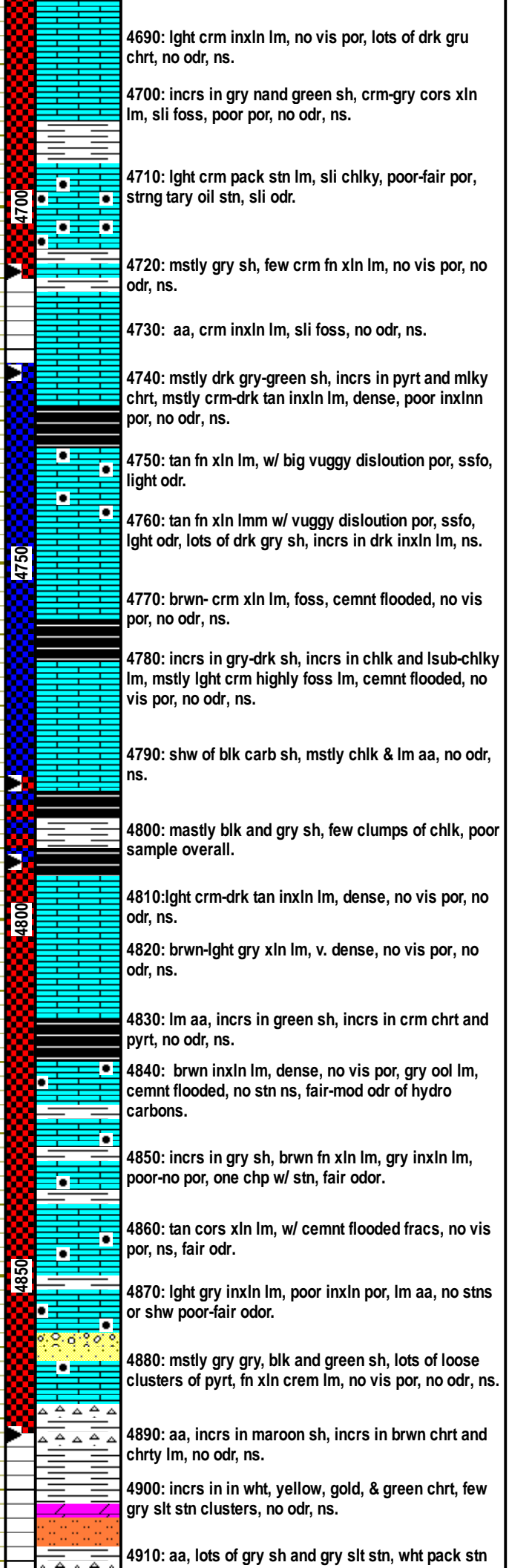
05/09/2013  
Mud Info.  
weight: 9.35  
Vis: 47  
Chloride: 3,900  
LCM: 3

30MIN: mstly blk carb sh, incrs in clr/mlky  
chrt, crm sub-chlky lm, lght crm inxln lm,  
cemnt flooded, no odr, ns. 60MIN: aa, ni  
sig change from 30min sample.

DST #3 4781-4872  
REC: 90' OGCM (30%G, 30%O,  
40%M)  
IFP: 75-88#/  
FFP: 89-109#/  
ISIP: 535#/  
FSIP: 529#

05/10/2013  
Mud Info.  
weight: 9.35  
Vis: 51  
Chloride: 4,500  
LCM: 2  
Viscosity was not stable during  
Drilling.

30MIN: brwn-crm fn xln lm w/ pin point  
vuggy por, slight shw of free brwn oil,  
fair-mod odr. 60MIN: aa, decrse in oil  
shws, decrse in order, one cluster of qtz  
ss, fn grn, sub-rounded, well sortd, well  
cemntd, poor por.



4690: lght crm inxln lm, no vis por, lots of drk gru chrt, no odr, ns.

4700: incrs in gry nand green sh, crm-gry cors xln lm, sli foss, poor por, no odr, ns.

4710: lght crm pack stn lm, sli chlky, poor-fair por, strng tary oil stn, sli odr.

4720: mstly gry sh, few crm fn xln lm, no vis por, no odr, ns.

4730: aa, crm inxln lm, sli foss, no odr, ns.

4740: mstly drk gry-green sh, incrs in pyrt and mlky chrt, mstly crm-drk tan inxln lm, dense, poor inxln por, no odr, ns.

4750: tan fn xln lm, w/ big vuggy disloution por, ssfo, lght odr.

4760: tan fn xln lmm w/ vuggy disloution por, ssfo, lght odr, lots of drk gry sh, incrs in drk inxln lm, ns.

4770: brwn- crm xln lm, foss, cemnt flooded, no vis por, no odr, ns.

4780: incrs in gry-drk sh, incrs in chlky and lsub-chlky lm, mstly lght crm highly foss lm, cemnt flooded, no vis por, no odr, ns.

4790: shw of blk carb sh, mstly chlky & lm aa, no odr, ns.

4800: mastly blk and gry sh, few clumps of chlky, poor sample overall.

4810: lght crm-drk tan inxln lm, dense, no vis por, no odr, ns.

4820: brwn-lght gry xln lm, v. dense, no vis por, no odr, ns.

4830: lm aa, incrs in green sh, incrs in crm chrt and pyrt, no odr, ns.

4840: brwn inxln lm, dense, no vis por, gry ool lm, cemnt flooded, no stn ns, fair-mod odr of hydro carbons.

4850: incrs in gry sh, brwn fn xln lm, gry inxln lm, poor-no por, one chp w/ stn, fair odor.

4860: tan cors xln lm, w/ cemnt flooded fracs, no vis por, ns, fair odr.

4870: lght gry inxln lm, poor inxln por, lm aa, no stns or shw poor-fair odor.

4880: mstly gry gry, blk and green sh, lots of loose clusters of pyrt, fn xln crem lm, no vis por, no odr, ns.

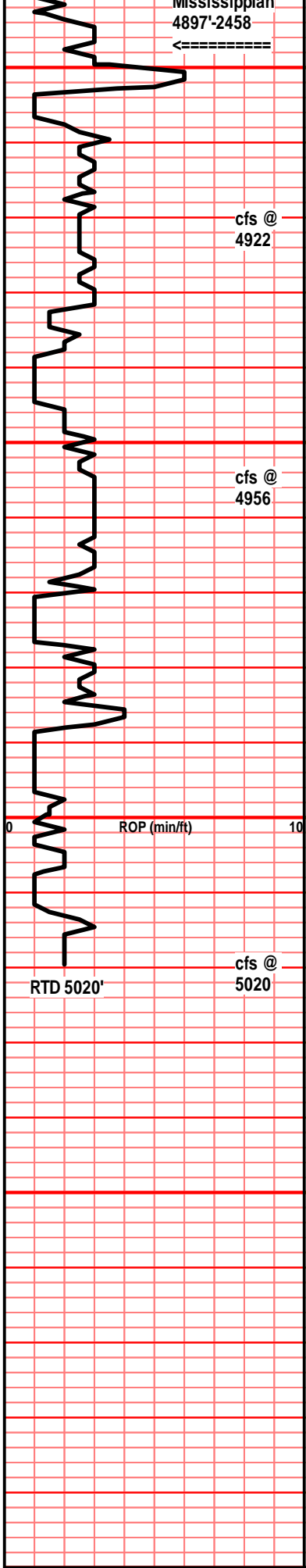
4890: aa, incrs in maroon sh, incrs in brwn chrt and chrt lm, no odr, ns.

4900: incrs in in wht, yellow, gold, & green chrt, few gry slit stn clusters, no odr, ns.

4910: aa, lots of gry sh and gry slit stn, wht pack stn

Mississippian  
4897'-2458'

←-----



RTD 5020'

cfs @  
4922

30MIN: lots of buff dolo/chrt, few v. lght crm grn stn lm, v. well cemntd, no vis por, lots of green, yellow, & orange chrt, lots of wht chlk, no odr, ns. 60MIN: aa, incrs in chlk and sub-chlky lm, no odr, ns.

cfs @  
4956

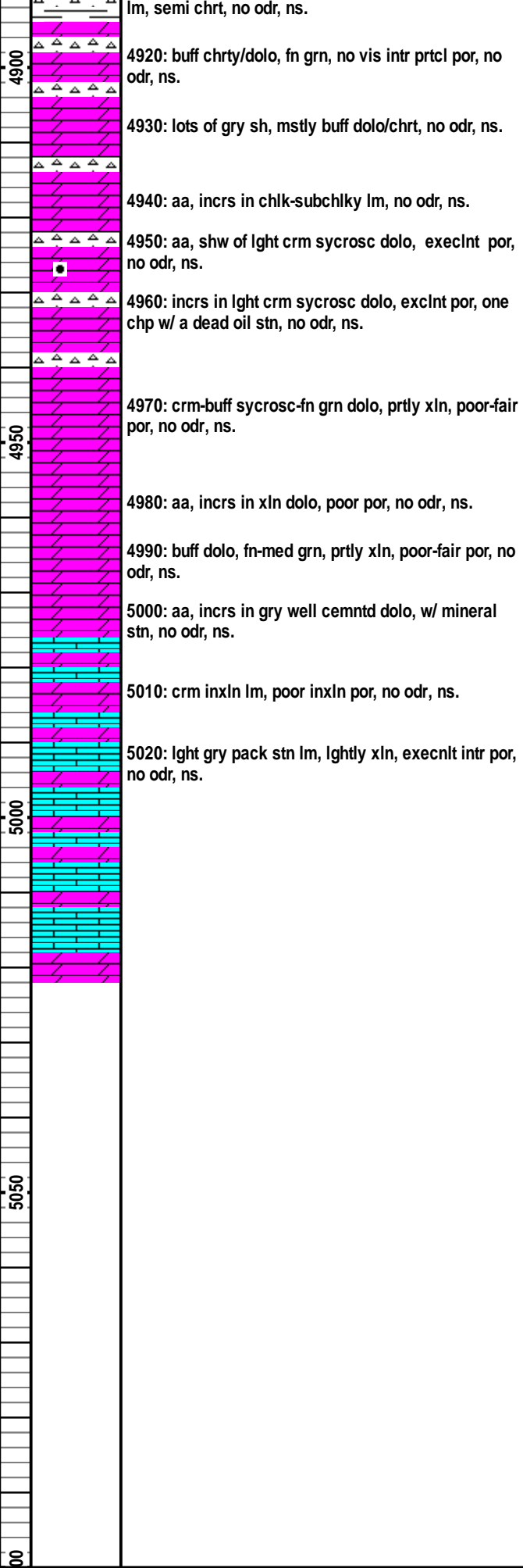
30MIN: yellow chrt, lots of chlk, buff chrty dolo, poor-no por, few lght crm syncosc dolo, excInt por, no odr, ns. 60MIN: decrse in chert, no sig change from 30min sample.

Straight Hole: .75 degrees

05/11/2013  
Mud Info.  
wiegth: 9.3  
Vis. 64  
Chloride: 2,600  
LCM: 2

cfs @  
5020

40MIN: mstly lght gry pack stn lm, prtly xln, excInt por, few chps w/ ?able stn and gas bubbles, no odr, ns.



lm, semi chrt, no odr, ns.  
4920: buff chrty/dolo, fn grn, no vis intr prtcl por, no odr, ns.

4930: lots of gry sh, mstly buff dolo/chrt, no odr, ns.

4940: aa, incrs in chlk-subchlky lm, no odr, ns.

4950: aa, shw of lght crm syncosc dolo, excInt por, no odr, ns.

4960: incrs in lght crm syncosc dolo, excInt por, one chp w/ a dead oil stn, no odr, ns.

4970: crm-buff syncosc-fn grn dolo, prtly xln, poor-fair por, no odr, ns.

4980: aa, incrs in xln dolo, poor por, no odr, ns.

4990: buff dolo, fn-med grn, prtly xln, poor-fair por, no odr, ns.

5000: aa, incrs in gry well cemntd dolo, w/ mineral stn, no odr, ns.

5010: crm inxln lm, poor inxln por, no odr, ns.

5020: lght gry pack stn lm, lghtly xln, excInt intr por, no odr, ns.



**#1 Imel 8AD - Nau**  
 335' FNL & 2510' FEL  
 5' S & 130' E of N/2 N/2 N/2 Section 8-26S-22W  
 Ford County, Kansas  
 API# 15-057-20887-0000  
 Elevation: 2427' GL, 2439' KB

Sample Tops			Ref. Well
Anhydrite	1492'	+947	Flat
B/Anhydrite	1524'	+915	-9
Stotler	3493'	-1054	-2
Heebner	4118'	-1679	-3
Lansing	4229'	-1790	-4
Muncie Shale	4407'	-1968	-2
Stark Shale	4512'	-2073	-6
Hush	4570'	-2131	-7
BKC	4607'	-2166	-5
Marmaton	4631'	-2194	-7
Altamont	4666'	-2227	-7
Pawnee	4737'	-2298	-4
Fort Scott	4766'	-2327	-1
Cherokee Shale	4786'	-2347	-4
Lower Cherokee Shale	4818'	-2379	-0
Huck	4849'	-2410	+1
Atoka	4862'	-2423	+1
Mississippian	4894'	-2455	+3
RTD	5020'	-2581	



**CONSOLIDATED**  
Oil Well Services, LLC

258930

TICKET NUMBER 39935  
LOCATION Oakley KS  
FOREMAN Fuzz4

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

**FIELD TICKET & TREATMENT REPORT**

**CEMENT**

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-17-13	7073	IMEL-8AD-NAU #1	8	26S	22W	Ford
CUSTOMER Pitche Exploration			SPRANVILLE			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			STATE		ZIP CODE	
			463	COMB		
			528	MIRKP		
				JACK J		

JOB TYPE Port Collar HOLE SIZE \_\_\_\_\_ HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT 4 1/2  
CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER P-Collar 1465'  
SLURRY WEIGHT 12.7 SLURRY VOL 1.8 WATER gal/sk \_\_\_\_\_ CEMENT LEFT In CASING \_\_\_\_\_  
DISPLACEMENT 5.7 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Rig up on K.M well service with safety meeting beforehand. Test closed Port Collar to 1000' + hold. Establish circulation. Mix 25sks cement neat followed by 260sks 60/40 pos 60 gal 114' slurry with 200' cottonseed hulls. Displace 5 BBL close well Pores to 1000' and hold. Wash pump and lines. Run 10 JTs and reverse 80s clean with 30 BBL water. Total 285sks 60/40 60 gal 114' slurry w/ 200' hulls

Thanks Fuzz4 crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL	
5401B		PUMP CHARGE	1785.00	1785.00	
5406	60	MILEAGE	5.25	315.00	
5407A	12.3 tons	Ton mileage Delivery	125	1291.80	
1131	285 SPS	60/40 pos	15.86	4520.10	
1118B	1471 *	Bentonite	1.27	397.11	
1107	712 *	Slurry	2.97	210.81	
1105	200 *	Cottonseed hulls	.58	116.00	
			Subtotal	8635.94	
			less 10%	863.58	
			Subtotal	7772.36	
				SALES TAX	375.22
				ESTIMATED TOTAL	8147.57

Completed

Form 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.

[Handwritten mark]





**CONSOLIDATED**  
Oil Well Services, LLC

258731

TICKET NUMBER 39933

LOCATION Oakley, KS

FOREMAN Fuzzy

John P. Trainor

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	
5-11-13	7123	IMEL-8AD MAU*1	8	26S	22W	Ford	
CUSTOMER <u>Ridgely Exploration</u>		283450 <u>Estimate</u>		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS		15-1/4 W		463	COY D		
CITY		STATE		ZIP CODE			
				693	JACK J		
					Ed W		

JOB TYPE Production HOLE SIZE 7 7/8 HOLE DEPTH 5070 CASING SIZE & WEIGHT 4 1/2" 10.5#  
 CASING DEPTH 5009' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ TOP #85 OTHER P Collar 147'  
 SLURRY WEIGHT 14.2 SLURRY VOL. 42 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 78.9 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on Southwind #70. Float equip Tubulars  
\*2, 4, 5, 6 & 8-101 Bask. Bot 85-100 P. Collar Top 85 Rig up and  
circulate 45 min. Pumps 586 water, 500 gal mud flush, 586 water  
Mix 30 gals w/ P.H. M. & 200 gals O.W.C. w/ 5# Kol Seal. Wash pump and lines  
Drop plug and displace 78 3/4 BSK hi pressure 800# hand press 1400#  
float hold.

Thanks Fuzzy & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3175.00	3175.00
5406	60	MILEAGE	5.25	315.00
5407A	10.8 Ton	Ton mileage Delivery	1.25	1140.00
1126	230 gals	O.W.C.	23.70	5451.00
1110A	1150 #	Kol Seal	.56	644.00
1137	54 #	C.D.F. 26	10.20	550.80
1146	32 #	Caf. 38 (deSomer)	10.20	326.40
1144G	500 gal	Mud Flush	1.00	500.00
4201	1	4 1/2" Guide shoe	145.00	145.00
4226	1	4 1/2" AFU Insert	202.25	202.25
4139	7	4 1/2" Turbolizers	60.00	420.00
4103	2	4 1/2" Baskets	275.00	550.00
4284	1	4 1/2" Port Collar (Larsen)	1984.00	1984.00
4404	1	4 1/2" Rubber plug	55.25	55.25
		Subtotal		15460.25
		less 10%		1546.02
		Subtotal		13914.23
		SALES TAX		774.91
		ESTIMATED TOTAL		14689.09

3avin 3737

AUTHORIZATION

TITLE Paul Gaudin

DATE \_\_\_\_\_

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 rendered.

completed

# ALLIED OIL & GAS SERVICES, LLC 059314

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Crest Bend

DATE <u>5-1-13</u>	SEC. <u>8</u>	TWP. <u>26S</u>	RANGE <u>22W</u>	CALLED OUT <u>11PM-4:30-13</u>	ON LOCATION <u>1:30 AM</u>	JOB START <u>5 AM</u>	JOB FINISH <u>5:30 AM</u>
LEASE <u>Imel 800-NAU</u> WELL# <u>1</u>			LOCATION <u>Spresville - S of Hurshtown</u>		COUNTY <u>Ford</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			1/2 m W S into				

CONTRACTOR Southwind  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 359  
 CASING SIZE 8 5/8 DEPTH 358.418  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 500 MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 20'  
 CEMENT LEFT IN CSG. 1.272 bbls  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 21.53 bbls

OWNER Ritchie Exploration

CEMENT AMOUNT ORDERED 220 gals class A  
3.1. CC 2% Gel

EQUIPMENT  
 PUMP TRUCK # 398 CEMENTER Patrick Helgeson  
 HELPER Josh Isaac  
 BULK TRUCK # 341 DRIVER Charles Kingen  
 BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON	<u>220</u>	@ <u>17.90</u>	<u>3,938.<sup>00</sup></u>
POZMIX		@	
GEL	<u>3</u>	@ <u>23.40</u>	<u>70.20</u>
CHLORIDE	<u>8</u>	@ <u>64.00</u>	<u>512.<sup>00</sup></u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>235.99</u>	@ <u>2.48</u>	<u>585.<sup>25</sup></u>
MILEAGE	<u>10.8 x 45 x</u>	@ <u>2.60</u>	<u>1,263.<sup>00</sup></u>
TOTAL			<u>6,369.<sup>05</sup></u>

REMARKS:  
Pumped 5 bbl Water Spacer, break circulation, Pumped ~~21.53~~ 21.53 bbls cement @ 15:00 hr, Displaced 21.53 bbls of Water, Circulated 21 bbls cement to surface

**SERVICE**

DEPTH OF JOB			
PUMP TRUCK CHARGE	<u>1512.25</u>		
EXTRA FOOTAGE		@	
MILEAGE	<u>Hum 45</u>	@ <u>7.70</u>	<u>346.<sup>00</sup></u>
MANIFOLD		@	
	<u>Hum 45</u>	@ <u>4.40</u>	<u>198.<sup>00</sup></u>
		@	
TOTAL			<u>2,056.<sup>25</sup></u>

CHARGE TO: Ritchie Exploration  
 STREET 8100 E 22ND ST N # 700  
 CITY Wichita STATE KS ZIP 67278

**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.

SALES TAX (If Any)	<u>8.425</u>	<u>80</u>
TOTAL CHARGES	<u>2,106.<sup>25</sup></u>	
DISCOUNT		IF PAID IN 30 DAYS
	<u>6,319.<sup>35</sup></u>	

PRINTED NAME SAM STAGGS  
 SIGNATURE [Signature]

[Signature]

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

August 20, 2013

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

Re: ACO1  
API 15-057-20887-00-00  
Imel 8AD-Nau 1  
NE/4 Sec.08-26S-22W  
Ford 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