



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1097657  
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: \_\_\_\_\_



1097657

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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> <i>(Submit ACO-4)</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 Moorhous 17D

Location: SEC 17- twp 12S- rge 31W GOVE COUNTY

License Number: API 15-063-22018

Region: KANSAS

Spud Date: 07/12/2012

Drilling Completed: 07/23/2012

Surface Coordinates: 805' FSL 1525' FEL

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

Coordinates:

Ground Elevation (ft): 2922

K.B. Elevation (ft): 2932

Logged Interval (ft): 3700 To: 4685

Total Depth (ft): 4686

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 MURFIN #14)

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:

#### E-LOG:

ANHY: 2439 +493  
B/ANHY: 2462 +470  
HEEBNER: 3957 -1022  
LANSING: 3998 -1066  
MUNCIE: 4133 -1201  
STARK: 4219 -1287  
ALTAMONT: 4256-1324  
PAWNEE: 4411-1479  
CHEROKEE: 4496-1564  
MISS: 4573-1641

#### SAMPLE TOPS:

ANHY: 2439 +493  
B/ANHY: 2462 +470  
HEEBNER: 3954 -1022  
LANSING: 4002 -1070  
MUNCIE: 4132 -1200  
STARK: 4217 -1285  
ALTAMONT: 4345 -1352  
PAWNEE: 4409-1477  
CHEROKEE: 4495-1563  
MISS: 4591-1659

### DAILY MORNING DRILLING REPORT:

7/12 spud  
7/13 225'  
7/14 1277'  
7/15 2442'  
7/16 3527'  
7/17 4022'  
7/18 4078'  
7/19 4168'  
7/20 4203'  
7/21 4252'  
7/22 4444'  
7/23 4554'

### Misc. Info.

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

RIG: MURFIN CO. #14  
DRILLPIPE: 4-1/2" XH

TOOLPUSHER: GREG UNRUH  
MUD: MUDCO (REID ATKINS)  
GAS DETECTOR: NONE  
DRILL STEM TESTS: Diamond TESTING  
LOGS: SUPERIOR

OFFICE: PETER FIORINI  
FIELD: N/A

## Comments

SURFACE Casing: 8 5/8" @ '

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

STRUCTURALLY, THIS WELL RAN LOWER TO OFFSET, ALL SHOWS WERE TESTED.


After evaluation of electrical logs and drill stem test results, the operator's determined #1 MOORHOUS 17D to non-commercial and elected to plug and abandon the well as a dry hole.

SAMPLES WILL BE DEPOSITED WITH KANSAS GEOLOGICAL SURVEY.








































































RESPECTFULLY SUBMITTED

Adam M. A. Eldani
























### ROCK TYPES

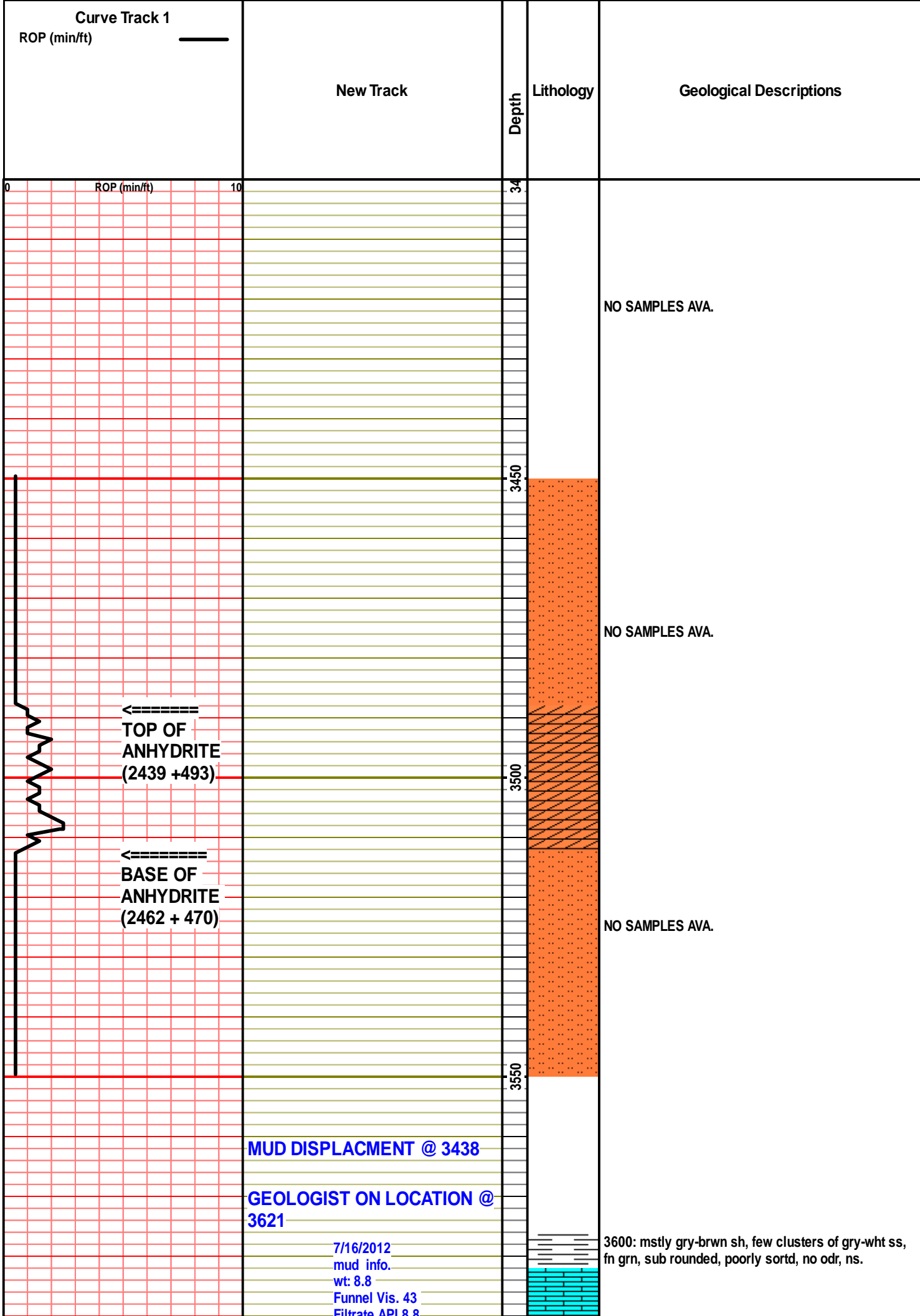
 Anhy  Bent  Brec  Cht	 Clyst  Coal  Congl  Dol	 Gyp  Igne  Lmst  Meta	 Mrlst  Salt  Shale  Shcol	 Shgy  Sltst  Ss  Till
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### ACCESSORIES

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

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

**TOP OF ANHYDRITE**  
(2439 +493)

←=====

**BASE OF ANHYDRITE**  
(2462 + 470)

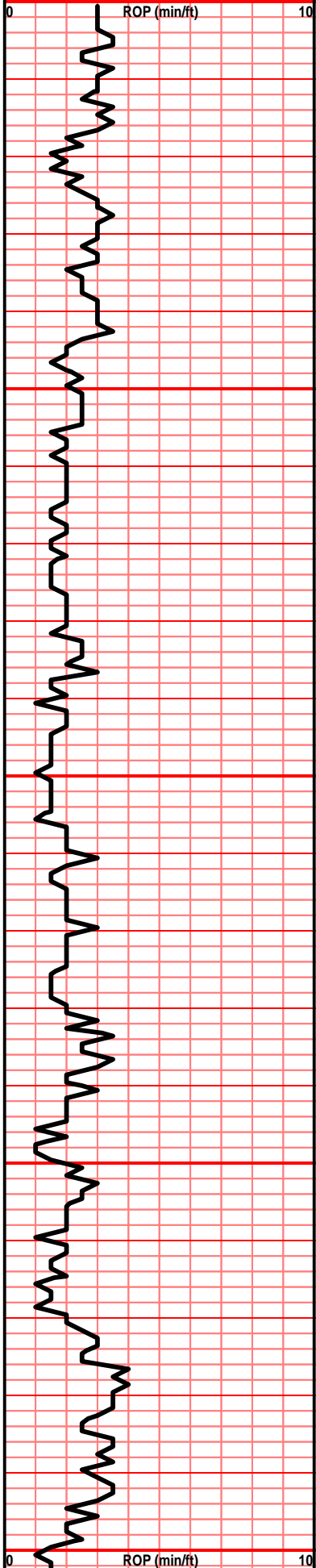
**MUD DISPLACMENT @ 3438**

**GEOLOGIST ON LOCATION @ 3621**

7/16/2012  
mud info.  
wt: 8.8  
Funnel Vis. 43  
Filtrate API 8.8

3600: mstly gry-brwn sh, few clusters of gry-wht ss, fn grn, sub rounded, poorly sortd, no odr, ns.

Filtrate Al 10.0  
Chloride 1,500  
LCM 3



**DEVIATION SURVEY 0.5  
DEGREE. STRAIT HOLE.**

**PUMP PRESSURE:  
950+**

**PUMP PRESSURE:  
950+**



3610: aa, few tan fn grn lm, few tan sli ool chps, no odr, ns.

3620: gry-tan lm, v. foss, inxln por, no odr, ns.

3630: tan-drk tan inxlm lm, sli foss, sli chlky, no odr, ns.

3640: drk crm-lght tan fn grn lm, intr prtcl por, no odr, ns.

3650: incrs in gry sh, incrs in dense xln gry lm, no odr, ns.

3660: mstly tan ool lm, frac por, no odr, ns.

3670: aa, no sig chnge.

3680: lght tan ool cast lm, great por, no odr, ns.

3690: crm cors xln lm, inxln por, no odr, ns.

3700: gry lm, fair por, no odr, ns.

3710: incrs gry-brwn and green slt stn.

3720: incrs in gry sh.

3730: tan fn-med grn lm, foss, intr prtcl por, no odr, ns.

3740: lght crm fn xln lm, mott, poor por, incrs in chl, no odr, ns.

3750: incrs in micro xln lm, v. dense, no odr, ns

3760: gry cors xln lm, poor por, no odr, ns.

3770: mstly brwn and gry slt stn.

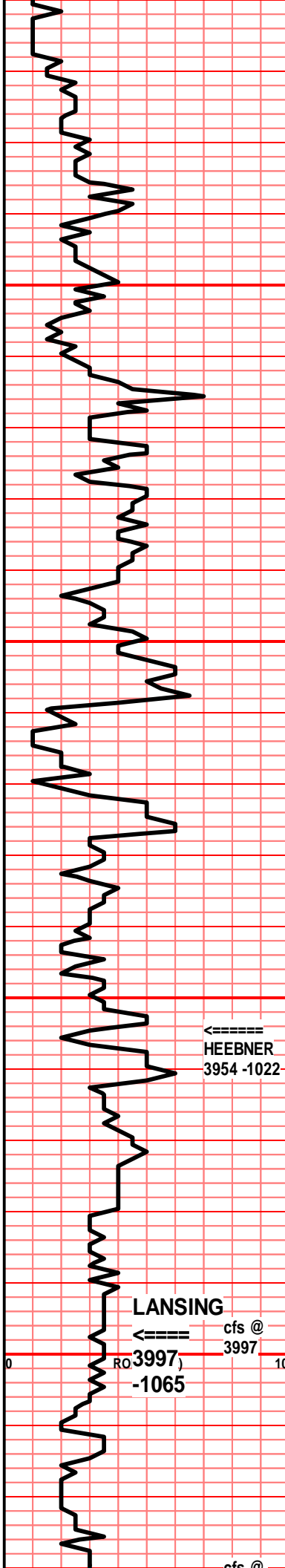
3780: lght crm fn grn lm, incrs in sub-chlky lm, no odr, ns.

3790: lght-drk gry, fn-med grn lm, foss, poor por., no odr, ns.

3800: mstly gry and maroon brwn sh.

3810: aa, incrs in lght crm sub -chlky lm, and wht chl.

3820: mstly brwn and drk gry sh.



**PUMP PRESSURE:**  
950+

7/17/2012  
mud info.  
wt: 9.0  
Funnel Vis. 47  
Filtrate API 6.8  
Chloride 1,500  
LCM 3

HEEBNER  
3954 -1022

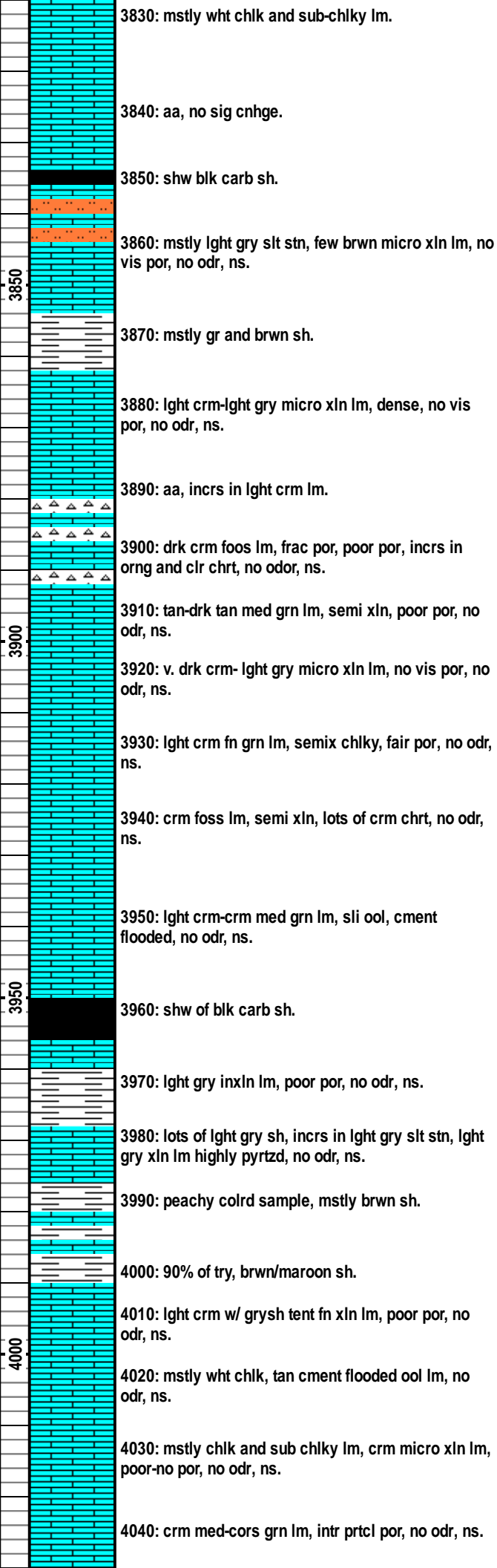
**PUMP PRESSURE:**  
950+

LANSING  
RO 3997  
-1065

30MIN: lght crm-tan fn xln lm, foss, poor por, no odr, ns. 60MIN: gry v fn grn lm, poor-fair por, no odr, ns.

7/18/2012  
mud info.  
wt: 9.2  
Funnel Vis. 54  
Filtrate API 6.4  
Chloride 2,000  
LCM 3

30MIN: incrs in gry and green sh, lots of lght crm subchilky lm, few crm microxn



3830: mstly wht chlk and sub-chlky lm.

3840: aa, no sig cnhge.

3850: shw blk carb sh.

3860: mstly lght gry slt stn, few brwn micro xln lm, no vis por, no odr, ns.

3870: mstly gr and brwn sh.

3880: lght crm-lght gry micro xln lm, dense, no vis por, no odr, ns.

3890: aa, incrs in lght crm lm.

3900: drk crm foos lm, frac por, poor por, incrs in org and clr chrt, no odor, ns.

3910: tan-drk tan med grn lm, semi xln, poor por, no odr, ns.

3920: v. drk crm- lght gry micro xln lm, no vis por, no odr, ns.

3930: lght crm fn grn lm, semix chlky, fair por, no odr, ns.

3940: crm foss lm, semi xln, lots of crm chrt, no odr, ns.

3950: lght crm-crm med grn lm, sli ool, cment flooded, no odr, ns.

3960: shw of blk carb sh.

3970: lght gry inxln lm, poor por, no odr, ns.

3980: lots of lght gry sh, incrs in lght gry slt stn, lght gry xln lm highly pyrtzd, no odr, ns.

3990: peachy cold sample, mstly brwn sh.

4000: 90% of try, brwn/maroon sh.

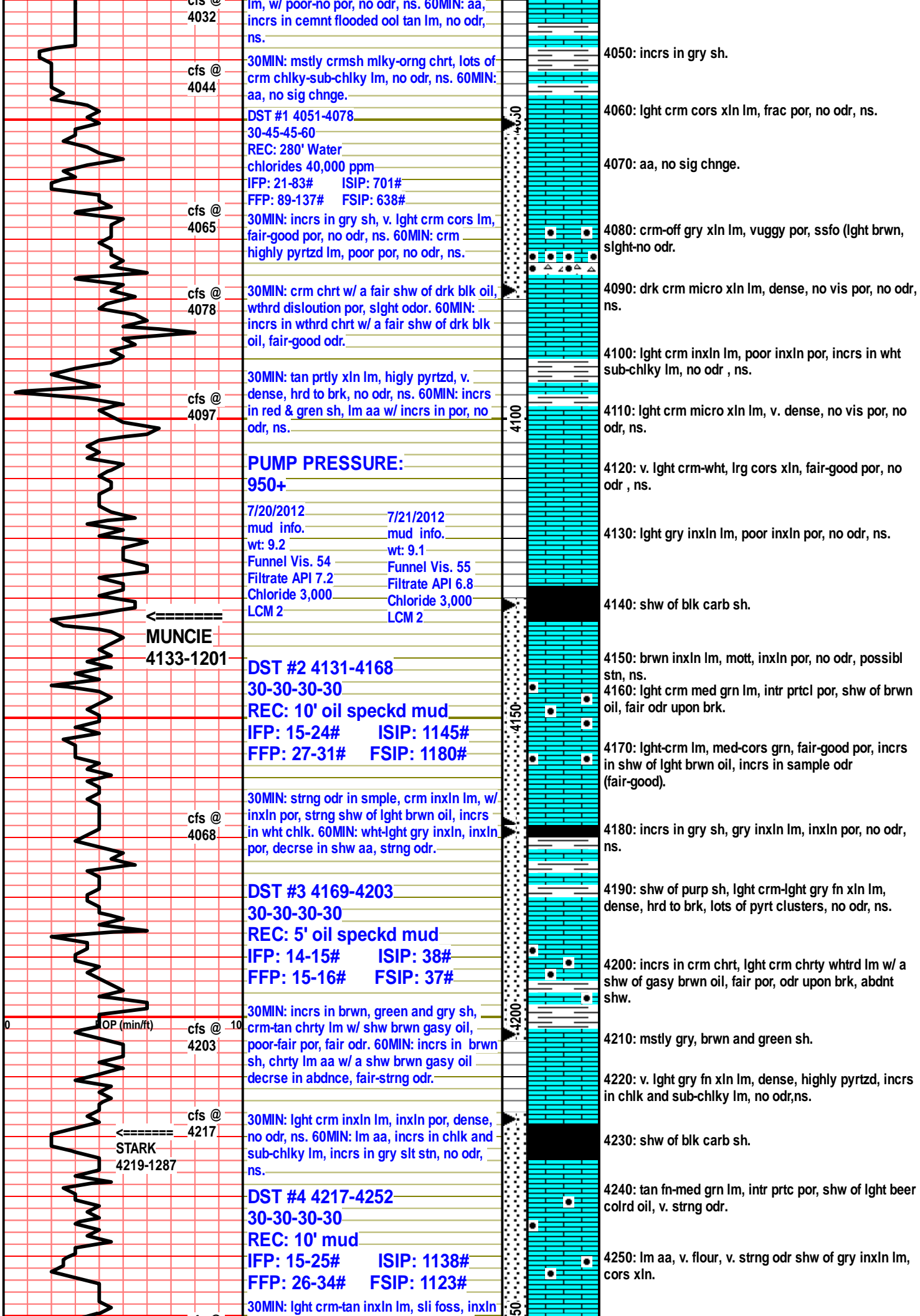
4010: lght crm w/ grysh tent fn xln lm, poor por, no odr, ns.

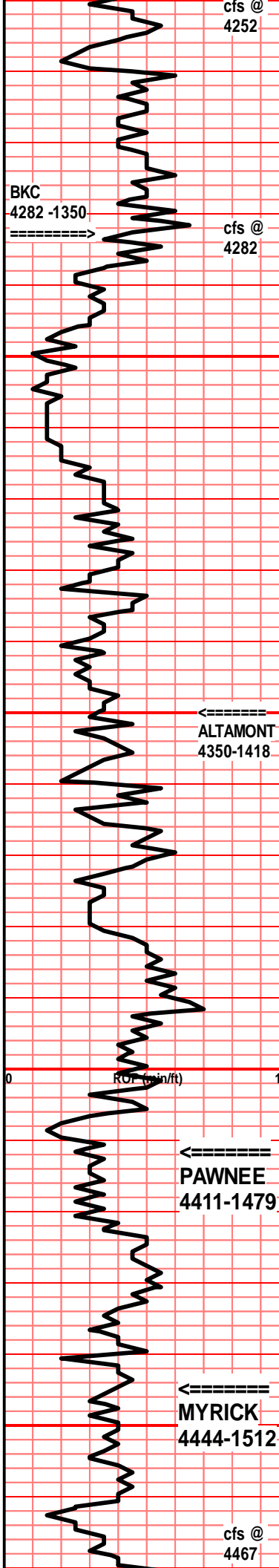
4020: mstly wht chlk, tan cment flooded ool lm, no odr, ns.

4030: mstly chlk and sub chlky lm, crm micro xln lm, poor-no por, no odr, ns.

4040: crm med-cors grn lm, intr prtcl por, no odr, ns.







por, few fn-med grn lm w/ a shw of lght beer colrd oil, fair-strng odr. 60MIN: tan grainstn lm, w/ shw of lght beer colrd oil, lots of crm-mlky foss chrt, incrs in chlk.

DST #5 4253-4282  
 30-30-30-30  
 REC: 3' mud  
 IFP: 13-14# ISIP: 19#  
 FFP: 14-14# FSIP: 18#

cfs @ 4282  
 30MIN: gry in xln lm, pin pont por, shw of brwn oil, fair-strng odr. 60MIN: crm fn inxln lm, semi dense, few tan lm w/ pin point por w/ a shw of lght brwn oil, fair-poor odr.

ALTAMONT 4350-1418

**PUMP PRESSURE:  
 950+**

7/22/2012  
 mud info.  
 wt: 9.1  
 Funnel Vis. 55  
 Filtrate API 6.4  
 Chloride 2,000  
 LCM 3

PAWNEE 4411-1479

7/23/2012  
 mud info.  
 wt: 9.2  
 Funnel Vis. 57  
 Filtrate API 7.2  
 Chloride 3,000  
 LCM 3

cfs @ 4467  
 30MIN: 80%+ of sample blk carb sh, crm inxln lm, no odr, ns. 60MIN: deorse in blk

4260: shw of blk carb sh.

4270: brwn inxln lm, hgly pyrtzd, gry lm, mott, no odr, ns.

4280: gry inxln w/ pin pont por, shw of brwn oil, fair-strng odr.

4290: mstly gry, green, blk, and brwn sh.

4300: lght tan-crm inxln lm, inxln por, one drk tan-lght brwn inxln lm, w/ 2ndry disloution por, w/ a shw of lght brwn oil, odr, upon brkng (uphole).

4310: mstly slit stn, gry, purp, and crm, no odr, ns.

4320: aa, lots slty sh, brwn, gry, and green.

4330: mstly gry sh, along w. brwn-tan xln lm, xln por, no odr, ns.

4340: tan-gry packstn lm, cment floded, no odr, ns.

4350: drk crm xln lm, cemnt floded, poor-no pr, brwn fn xln lm, no odr, ns. incrs in drk gry sh.

4360: aa, shw of blk carb sh.

4370: gry cors xln lm, poor inxln por, no odr, ns. incrs in gry sh.

4380: drk crm-tan foss lm, poor por, no odr, ns.

4390: mstly gry sh.

4400: crm-lght gry prtly xln prtly grain stn, poor por, no odr, ns.

4410: lght-crck crm xln lm, poor inxln por, incrs in in gry and green sh.

4420: lght crm bio-mictric lm, poor por, no odr, ns.

4430: lots of mlky foss chrt, incrs in chlk and tan xln lm, no odr, ns.

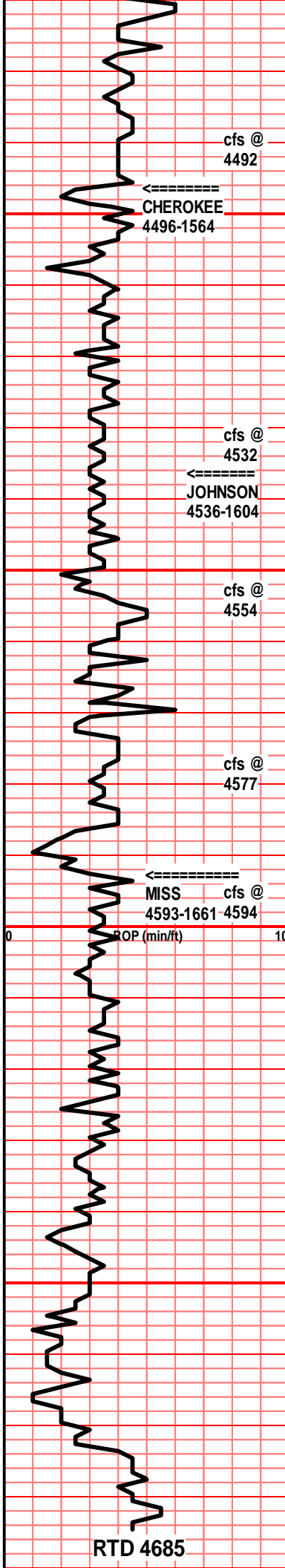
4440: shw of blk carb sh, gry xln lm, pyrtzdn poor por, no odr, ns.

4450: mstly blk carb sh, brwn xln foss lm, poor-no por, hrd to brk, no odr, ns.

4460: lght crm fn xln lm, inxln por, prtly mott, incrs in chlk and subchlkly lm, no odr, ns.

4470: aa, no sig chng.

4480: tan w/ drk grn pack stn lm, sli ool, dense, no



in xln lm, no odr, ns. 60MIN: decrease in blk carb sh, incrs in brwn foss-crm chrt, incrs in chlk, crm xln lm, no odr, ns.

cfs @ 4492

CHEROKEE  
4496-1564

**DST #6 4495-4554**  
**30-30-30-30**  
**REC: 5' mud**  
**IFP: 15-17# ISIP: 63#**  
**FFP: 18-19# FSIP: 31#**

cfs @ 4532

JOHNSON  
4536-1604

30MIN: tan xln lm, foss, poor por, pyrtzd, no odr, ns. 60MIN: crm bio-micrtic lm, inter prtcl por, no odr, ns.

cfs @ 4554

30MIN: tan-lght brwn xln lm, w/ vuggy por, shw of brwn gasy oil, fair-strng odr, incrs in wht chlk. 60MIN: brwn xln lm, w/ pin point por, ssfo, fair odr.

**DEVIATION SURVEY 1.25 DEGREE. STRAIT HOLE.**

cfs @ 4577

30MIN: v. chiky sampl, shw of yellow sh, lots of gry sh, wht-gry slit stn. 60MIN: tan xln lm, dense, cment floded, no odr, ns. lots of gry sh.

MISS cfs @ 4593-1661 4594

45MIN: incrs in slit stn: gry & green, few clusters of qtz ss, fn-med grn, sub-angulr-sub-rounded, well sortd, well cemntd, no odr, ns.

7/19/2012  
 mud info.  
 wt: 9.1  
 Funnel Vis. 53  
 Filtrate API 8.0  
 Chloride 3,000  
 LCM 3

**PUMP PRESSURE:**  
**950+**

30MIN: mstly gry sh, very chiky sample, tan ool cast lm, high por, no odr, ns.

4490: tan w/ drk grn pack stn lm, sh. ss, dense, no vis por, no odr, ns.

4490: brwn foss xln lm, cment floded, dense, no odr, ns.

4500: gry in xln lm, sli foss (crioniods), in xln por, no odr, ns.

4510: shw of blk carb sh.

4520: mstly chlk-subchlk lm, few crm in xln lm, cment floded, no odr, ns.

4530: aa, lght brwn prtly xln lm w/ frac por, possible stn, flour, v. faint odr.

4540: gry in xln lm, in xln por, no odr, ns.

4550: brwn xln lm, w/ vuggy por, shw of drk brwn gasy oil, fair-strng odr.

4560: mstly gry and brwn sh.

4570: tan-crm packstn lm, poor por, incrs in wht hrd to brk slit stn, no odr, ns.

4580: mstly gry and green sh, incrs in wht and greenish ten slit stn.

4590: mstly gry sh.

4600: crm-drk crm packstone lm, good por, no odr, ns. incrs in milky chrt.

4610: aa, incrs in gry and purp sh.

4620: drty crm in xln lm, v. dense, hrd to brk, no odr, ns.

4630: aa, incrs in milky foss chrt, no odr, ns.

4640: tan ool lm, matrix fill, well cemntd, no odr, ns.

4650: aa, incrs in gry and maroon sh.

4660: tan wackestn lm, fair por, no odr, ns.

4670: aa, incrs in moldic por, no odr, ns.

4680: tan ool cast lm, high por, no odr, ns.

RTD 4685

DEVIATION SURVEY 1.25  
DEGREE. STRAIT HOLE.

4700

50



**#1 Moorhous 17D**

805' FSL & 1525' FEL

145' N & 125' E of E/2 SW SE Section 17-12S-31W

Gove County, Kansas

API# 15-063-22018-0000

Elevation: 2922' GL, 2932' KB

Sample Tops			Ref. Well
Anhydrite	2445'	+487	-23
B/Anhydrite	2470'	+462	-22
Heebner	3954'	-1022	-8
Toronto	3980'	-1048	-10
Lansing	3997'	-1065	-9
Muncie Shale	4133'	-1201	-12
LKC "H"	4147'	-1215	-9
Stark	4219'	-1287	-14
Hush.	4256'	-1324	-14
BKC	4282'	-1350	-14
Marmaton	4318'	-1386	-19
Altamont	4350'	-1418	-18
Pawnee	4411'	-1479	-19
Myrick	4444'	-1512	-10
Fort Scott	4468'	-1536	-11
Cherokee	4496'	-1564	-13
Johnson	4536'	-1604	-11
Morrow	NA	NA	
Mississippian	4573'	-1641	-21
RTD	4685'	-1753	

# ALLIED OIL & GAS SERVICES, LLC 056705

Federal Tax I.D.# 20-6976804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT  
Oakley

DATE <u>7-17-12</u>	SEC. <u>17</u>	TWP. <u>12</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>10:20</u>	JOB FINISH <u>11:00</u>
MEASURE <u>30</u>	WELL # <u>1</u>	LOCATION <u>Oakley 25 40 15</u>			COUNTY <u>Gove</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)						1.01 8.05	

CONTRACTOR Proctor 14

TYPE OF JOB Surface

HOLE SIZE 12 1/4 TD. 228'

CASING SIZE 8 5/8 DEPTH 228'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LBFT IN CSG. 15'

PERFS.

DISPLACEMENT 1,3156 BOL

OWNER Some

CEMENT AMOUNT ORDERED 125 sks with 38000 20 gal

EQUIPMENT

PUMP TRUCK CEMENTER Andrew Forslund

# 423-281 HELPER Andrew Forslund

BULK TRUCK # 424 DRIVER Ethan Teramy

BULK TRUCK # 4 DRIVER Glesoran Proctor

COMMON 125 sks @ 16.25 2043.75

POZMIX @

GBL 42 sks @ 31.25 1312.50

CHLORIDE 36 sks @ 58.20 2095.20

ASC @

REMARKS:

HANDLING 189.23304/PT @ 2.11 397.28

MILEAGE 2.35 ton/mile @ 8.16 19.17

103.62 TOTAL 3898.61

SERVICE

Cement did circulate

thank you

CHARGE TO: Ritchie Exploration

STREET

CITY STATE ZIP

DEPTH OF JOB 228' ~~125.00~~

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @

MILEAGE 12 miles @ 7.00 84.00

MANIFOLD head @ 200.00

Light vehicle @ 4.00 48.00

TOTAL 1452.00

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (if Any) 262.16

TOTAL CHARGES 5,349.61 5,357.61

DISCOUNT 1040.92 IF PAID IN 30 DAYS

PRINTED NAME COX & CLARK

SIGNATURE [Signature]

*5616.77*

*[Handwritten mark]*



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 16, 2012

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

Re: ACO1  
API 15-063-22018-00-00  
Moorhous 17D 1  
SE/4 Sec.17-12S-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