



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

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



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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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#1 Smith 19B
2085' FNL & 365' FWL
Section 19-12S-31W
Gove County, Kansas
API# 15-063-22035-00-00
Elevation: 2900' GL, 2910' KB

Sample Tops			Ref. Well
Anhydrite	2410'	+500	+33
B/Anhydrite	2430'	+480	+37
Heebner	3917'	-1007	+16
Toronto	3946'	-1036	+17
Lansing	3960'	-1050	+17
LKC-C	3994'	-1084	+15
Muncie Shale	4109'	-1199	+6
Stark	4188'	-1278	+14
Hush	4220'	-1310	+18
BKC	4246'	-1336	+19
Marmaton	4274'	-1364	+23
Altamont	4298'	-1388	+15
Pawnee	4369'	-1459	+26
Myrick	4408'	-1498	+25
Fort Scott	4427'	-1517	+28
Cherokee Shale	4454'	-1544	+26
Johnson	4498'	-1588	+26
Morrow Sand	4519'	-1609	+23
Mississippian	4547'	-1637	+18
RTD	4670'	-1760	

SMITH 19B-1

ALLIED OIL & GAS SERVICES, LLC 056735

Federal Tax I.D.# 20-5976004

SHIP TO P.O. BOX 31
RUSSILL, KANSAS 67665

SERVICE POINT:
Oakley

DATE <u>8-25-12</u>	SEC. <u>19</u>	TWP. <u>12</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00 AM</u>	JOB FINISH <u>6:00 PM</u>
BASE <u>Smith</u>		WELL # <u>19B-1</u>		LOCATION <u>Oakley 75 RE 1/2 S</u>		COUNTY <u>Cove</u>	STATE <u>Ks</u>
OLD OR (NEW) Circle one				1-03		8.05 all	

CONTRACTOR Murphy 14
 TYPE OF JOB PTA
 HOLE SIZE 2 7/8 T.D.
 CASINO SIZE DEPTH
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH 2420'
 COOL DEPTH
 RES. MAX MINIMUM
 GAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 BRFS.
 DISPLACEMENT

OWNER same
 CEMENT
 AMOUNT ORDERED 220 sks 6 1/2" 4 1/2" 4 1/2"
4 Flo-seal
 COMMON 132 sks @ 16.25 = 2145.00
 POZMIX 88 sks @ 8.50 = 748.00
 GBL 8 sks @ 21.25 = 170.00
 CHLORIDE @
 ASC @

EQUIPMENT
 PUMP TRUCK CEMENTER Andrew J. Furst
1402 HELPER Terry Heindrich
 BULK TRUCK
1347 DRIVER DJ Gray 3
 BULK TRUCK
 1 DRIVER

Flo-seal 50' 2.5 sks @ 2.25 = 5.625
 HANDLING 236.25 @ 1.00 = 236.25
 MILBAGE 2.25 @ 100/mile = 225.00
 TOTAL 3819.54

REMARKS:
25 sks @ 2420'
100 sks @ 1560'
40 sks @ 2250'
40 sks @ 40'
15 sks mouse hole
20 sks Rat hole

108.45
 SERVICE
 DEPTH OF JOB 2420'
 PUMP TRUCK CHARGE 1250.00
 EXTRA FOOTAGE @
 MILBAGE 11 miles @ 2.00 = 22.00
 MANIFOLD @
light vehicle @ 4100 = 4100.00

CHARGE TO: Ritchie exploration
 STREET
 CITY STATE ZIP

TOTAL 1321.00
 PLUG & FLOAT EQUIPMENT

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.

8 1/2
1 Dry hole plug @ 92.00
 TOTAL 92.00
 SALES TAX (if Any) 425.23
 TOTAL CHARGES 5412.04
 DISCOUNT 35 1848.85 IF PAID IN 30 DAYS
1894.21

PRINTED NAME Corey Unruh
 SIGNATURE Corey Unruh

2

ALLIED OIL & GAS SERVICES, LLC 056670

Federal Tax I.D.# 20-5975804

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

SERVICE POINT

Oakley

DATE <u>8-15-12</u>	SEC. <u>19</u>	TWP. <u>12</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START TIME <u>10:30</u>	JOB FINISH TIME <u>11:00</u>
LEASE <u>Smith</u>	WELL # <u>19B-1</u>	LOCATION <u>Oakley 75 - E Vas</u>			COUNTY <u>Gove.</u>	STATE <u>Ks.</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Murfin #14

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 227'

CASING SIZE 8 3/8 DEPTH 227'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 13.56

OWNER Same

CEMENT AMOUNT ORDERED 175 SKS Cement
Com 3% CC 2% Gel

COMMON	<u>175 SKS</u>	@ <u>\$16.25</u>	<u>\$2843.75</u>
POZMIX		@	
GEL	<u>3 SKS</u>	@ <u>\$21.25</u>	<u>\$63.75</u>
CHLORIDE	<u>6 SKS</u>	@ <u>\$58.22</u>	<u>\$349.32</u>
ASC		@	

EQUIPMENT

PUMP TRUCK CEMENTER Darren Beattie 1

223-281 HELPER Tyler Flipse 2

BULK TRUCK

404 DRIVER Brandon Wilkison 3

BULK TRUCK

DRIVER

HANDLING	<u>189.23</u>	@	<u>\$2.12</u>	<u>\$397.18</u>
MILBAGE	<u>8.69 x 11 x</u>	@ <u>\$2.35</u>		<u>\$203.39</u>
				TOTAL <u>\$387.12</u>

REMARKS:

mix 175 SKS Cement

Displace with water

Cement Did Circulate

95.03

Thank You

SERVICE

DEPTH OF JOB 227'

PUMP TRUCK CHARGE \$125.00

EXTRA FOOTAGE @

MILBAGE 11 @ \$7.00 \$77.00

MANIFOLD Swadge @ \$200.00

LV mileage @ \$4.00 \$24.00

CHARGE TO: Ritchie Exploration

STREET

CITY STATE ZIP

TOTAL 1446.00

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) 262.16

TOTAL CHARGES 5,323.42

DISCOUNT 20 1064.68 IF PAID IN 30 DAYS

PRINTED NAME Greg Clark

SIGNATURE Greg Clark

AR

Adam Eldani Geo-Log/Report

WellSight Systems

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

Measured Depth Log

Well Name: #1 Smith 19D

Location: SEC 19- twp 12S- rge 31W GOVE COUNTY

License Number: API 15-063-22035

Region: KANSAS

Spud Date: 08/14/2012

Drilling Completed: 8/24/2012

Surface Coordinates: 2085' FNL 365' FWL

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

Coordinates:

Ground Elevation (ft): 2900

K.B. Elevation (ft): 2910

Logged Interval (ft): 3600 To: 4674

Total Depth (ft): 4670

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 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: 2410 +500
B/ANHY: 2430 +480
HEEBNER: 3917-1007
LANSING: 3964-1054
MUNCIE: 4109-1216
STARK: 4188-1278
ALTAMONT: 4294-1382
PAWNEE: 4370--1364
CHEROKEE: 4454-1544
MISS: 4544-1634

SAMPLE TOPS:

ANHY: 2413 +497
B/ANHY: 2436 +474
HEEBNER: 3918-1008
LANSING: 3968-1058
MUNCIE: 4110-1200
STARK: 4188-1278
ALTAMONT: 4288-1378
PAWNEE: 4374-1464
CHEROKEE: 4456-1546
MISS: 4548-1638

DAILY MORNING DRILLING REPORT

7/15 SPUD'
7/16 1120'
7/17 2950'
7/18 3694'
7/19 3896'
7/20 4018'
7/21 4177'
7/22 4245'
8/23 4512'
8/24 4578'

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: TRILOBITE TESTING
LOGS: SUPERIOR

OFFICE: PETER FIORINI
FIELD: N/A

Comments

SURFACE Casing: 8 5/8" @ 224'

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

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


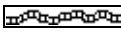
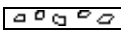
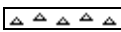
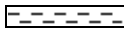







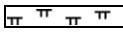

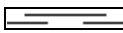
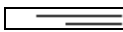
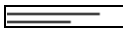



After evaluation of electrical logs and drill stem test results, the operator's determined #1 SMITH 19D to non-commercial and elected to plug and abandon the well as a dry hole.

SAMPLES WILL BE DEPOSITED WITH KANSAS GEOLOGICAL SURVEY.








































































RESPECTFULLY SUBMITTED

Adam M. A. Eldani
























ROCK TYPES

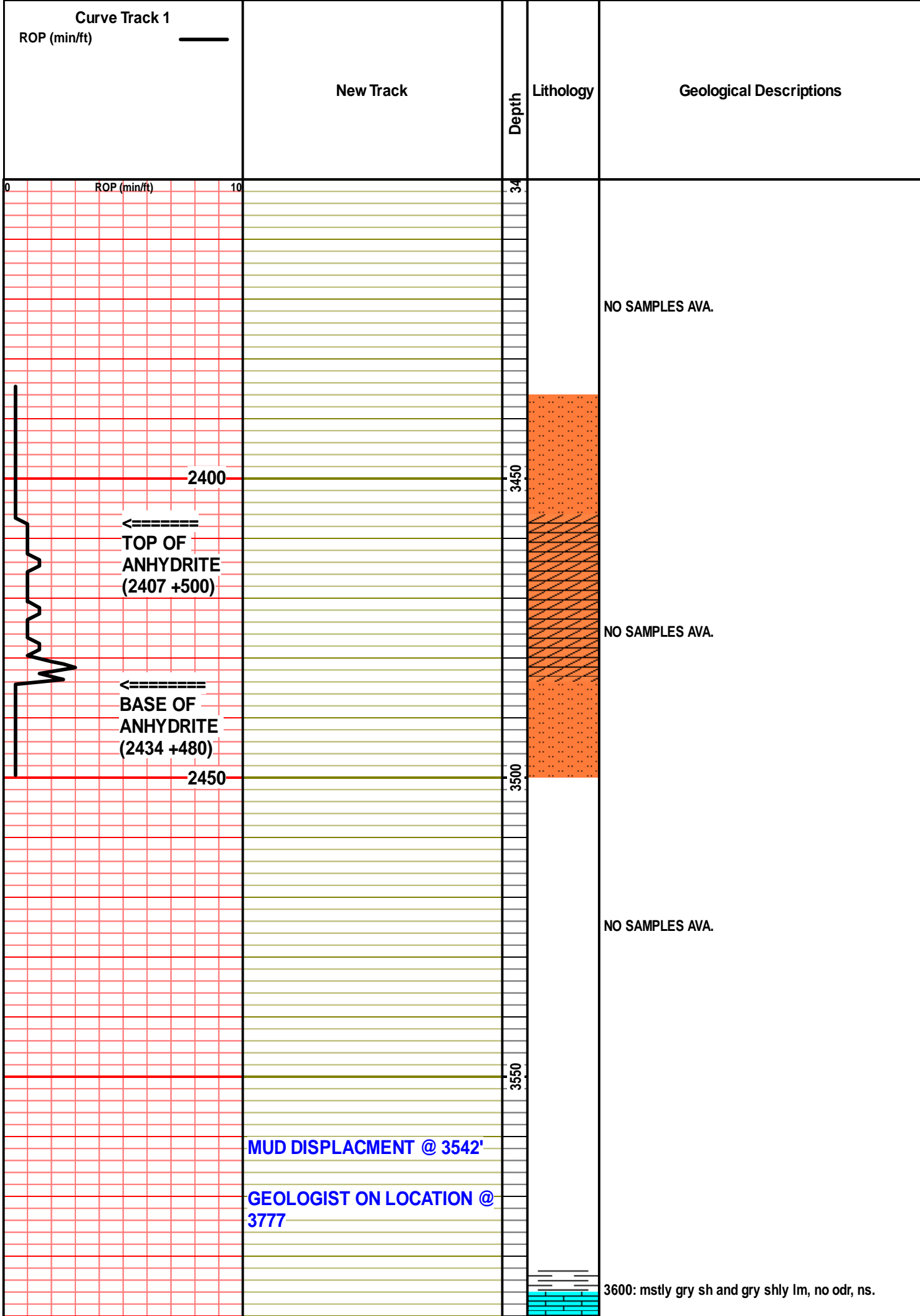
 Anhy  Bent  Brec  Cht	 Clyst  Coal  Congl  Dol	 Gyp  Igne  Lmst  Meta	 Mrlst  Salt  Shale  Shcol	 Shgy  Sltst  Ss  Till
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ACCESSORIES

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  Gastro  Oolite	 Ostra  Pelec  Pellet  Pisolite  Plant  Strom STRINGER  Anhy  Arg  Bent  Coal  Dol  Gyp  Ls  Mrst	 Sltstrg  Ssstrg TEXTURE  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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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  Even	 Spotted  Ques  Dead INTERVAL  Core  Dst	EVENT  Rft  Sidewall
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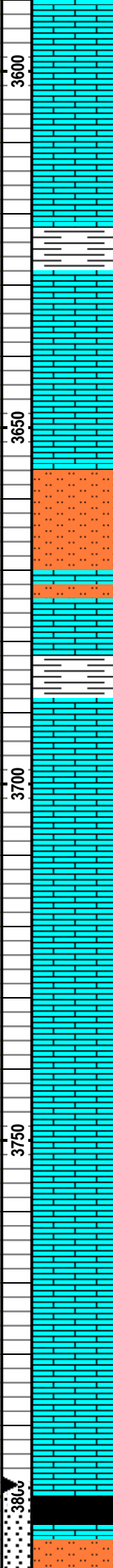


**DEVIATION SURVEY ONE
DEGREE. STRAIT HOLE.**

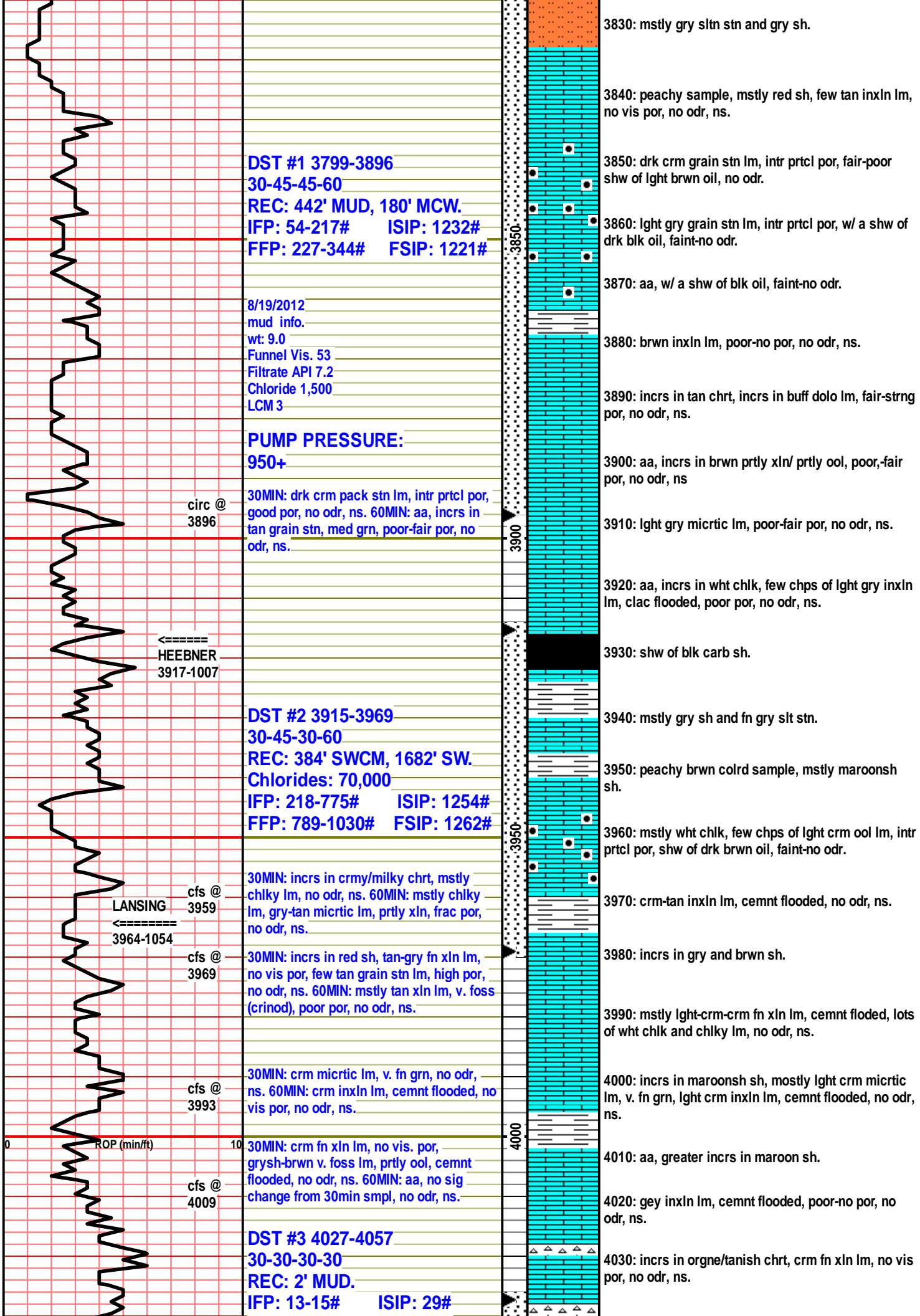
8/17/2012
mud info.
wt: 8.9
Funnel Vis. 55
Filtrate API 7.6
Chloride 1,500
LCM 2

**PUMP PRESSURE:
950+**

**PUMP PRESSURE:
950+**



- 3610: lght brwn pack stn lm, fair por, no odr, ns.
- 3620: lght crm ool lm, poor-fair por, no odr, ns.
- 3630: drk crm wacke stn lm, poor por, no odr, ns.
- 3640: incrs in red sh.
- 3650: lght crm inxln lm, fn xln lm, poor por, no odr, ns.
- 3660: gry inxln lm, inxln por, no odr, ns
- 3670: incrs in brwn and grysh brwn slt stn.
- 3680: lots of brwn and gry slt stn, incrs in crm chlky lm.
- 3690: crm wacke stn lm, poor-fair por, no odr, ns.
- 3700: peach colrd sample, incrs in red sh, incrs in wht chlk.
- 3710: drty crm inxln lm, cors xln in prt, no odr, ns.
- 3720: lm aa, incrs in crm chlky lm.
- 3730: crm-drk tan inxln lm, inxln por, lght brwn mott lm, no odr, ns.
- 3740: incrs in wht chlk.
- 3750: crm-drk tan mud stn lm, poor-fair por, no odr, ns.
- 3760: aa, incrs in wht chlk.
- 3770: incrs in wht chlk, incrs in tan grain stn, no odr, ns.
- 3780: aa, no sig change.
- 3790: more tha 90% of sample try, wht chlk.
- 3800: aa, incrs in pyrt.
- 3810: drk crm fn xln lm, poor por, no odr, ns.
- 3820: shw of blk carb sh.



DST #1 3799-3896
30-45-45-60
REC: 442' MUD, 180' MCW.
IFP: 54-217# ISIP: 1232#
FFP: 227-344# FSIP: 1221#

8/19/2012
 mud info.
 wt: 9.0
 Funnel Vis. 53
 Filtrate API 7.2
 Chloride 1,500
 LCM 3

PUMP PRESSURE:
950+

circ @
 3896

30MIN: drk crm pack stn lm, intr prtcl por, good por, no odr, ns. 60MIN: aa, incrs in tan grain stn, med grn, poor-fair por, no odr, ns.

←=====
HEEBNER
 3917-1007

DST #2 3915-3969
30-45-30-60
REC: 384' SWCM, 1682' SW.
Chlorides: 70,000
IFP: 218-775# ISIP: 1254#
FFP: 789-1030# FSIP: 1262#

30MIN: incrs in crmy/milky chrt, mstly chlky lm, no odr, ns. 60MIN: mstly chlky lm, gry-tan micrtic lm, prtly xln, frac por, no odr, ns.

cfs @
LANSING
 3959
 ←=====
 3964-1054

cfs @
 3969

30MIN: incrs in red sh, tan-gry fn xln lm, no vis por, few tan grain stn lm, high por, no odr, ns. 60MIN: mstly tan xln lm, v. foss (crinod), poor por, no odr, ns.

cfs @
 3993

30MIN: crm micrtic lm, v. fn grn, no odr, ns. 60MIN: crm inxln lm, cemnt flooded, no vis por, no odr, ns.

cfs @
 4009

30MIN: crm fn xln lm, no vis. por, grysh-brwn v. foss lm, prtly ool, cemnt flooded, no odr, ns. 60MIN: aa, no sig change from 30min smpl, no odr, ns.

DST #3 4027-4057
30-30-30-30
REC: 2' MUD.
IFP: 13-15# ISIP: 29#

3830: mstly gry sltn stn and gry sh.
 3840: peachy sample, mstly red sh, few tan inxln lm, no vis por, no odr, ns.
 3850: drk crm grain stn lm, intr prtcl por, fair-poor shw of lght brwn oil, no odr.
 3860: lght gry grain stn lm, intr prtcl por, w/ a shw of drk blk oil, faint-no odr.
 3870: aa, w/ a shw of blk oil, faint-no odr.
 3880: brwn inxln lm, poor-no por, no odr, ns.
 3890: incrs in tan chrt, incrs in buff dolo lm, fair-strng por, no odr, ns.
 3900: aa, incrs in brwn prtly xln/ prtly ool, poor-fair por, no odr, ns.
 3910: lght gry micrtic lm, poor-fair por, no odr, ns.
 3920: aa, incrs in wht chlk, few chps of lght gry inxln lm, clac flooded, poor por, no odr, ns.
 3930: shw of blk carb sh.
 3940: mstly gry sh and fn gry slt stn.
 3950: peachy brwn colrd sample, mstly maroonsh sh.
 3960: mstly wht chlk, few chps of lght crm ool lm, intr prtcl por, shw of drk brwn oil, faint-no odr.
 3970: crm-tan inxln lm, cemnt flooded, no odr, ns.
 3980: incrs in gry and brwn sh.
 3990: mstly lght-crm-crm fn xln lm, cemnt floded, lots of wht chlk and chlky lm, no odr, ns.
 4000: incrs in maroonsh sh, mostly lght crm micrtic lm, v. fn grn, lght crm inxln lm, cemnt flooded, no odr, ns.
 4010: aa, greater incrs in maroon sh.
 4020: gey inxln lm, cemnt flooded, poor-no por, no odr, ns.
 4030: incrs in orgne/tanish chrt, crm fn xln lm, no vis por, no odr, ns.

FFP: 14-15# FSIP: 24#

cfs @ 4038

30MIN: lots of lght crm chlky lm, gry fn xln lm, no vis por, no odr, ns. 60MIN: tan-gry inxln lm, cemnt flooded, no vis por, no odr, ns.

4040: aa, decrease in chrt.

4050: gry packstn lm, foss, poor-fair por, no odr, ns.

cfs @ 4047

30MIN: incrs maroon sh, drk crm-tan lm, vuggy por, shw of brwn free oil, faint-no odr. 60MIN: tan wthrd chrt, vuggy wthrd por, shw of brown oil, faint odr, ns.

4060: tan inxln lm, cemnt flooded por, no odr, ns.

cfs @ 4057

30MIN: crm-lght tan micrtic lm, prtly chlky, questionable stn, no odr, nsfo. 60MIN: gry inxln lm, dense, poor por, two pices crmsh gry lm, pin point vuggy por, w/ a weak sfo, no odr.

4070: v. lght crm inxln lm, no vis por, no odr, ns.

4080: aa, incrs in chlk and chlky lm.

8/20/2012 mud info. wt: 8.9 Funnel Vis. 67 Filtrate API 8.8 Chloride 3,000 LCM 3

4090: lots of chlky lm, drty gry fn xln lm, no vis por, no odr, ns.

4100: aa, incrs maroon sh.

PUMP PRESSURE: 950+

MUNCIE 4109-1199

4110: gry inxln lm, poor inxln lm, no odr, ns.

4120: shw of blk carb sh.

4130: brwn cors inxln lm, v. foss, poor por, incrs in mlky chert, no odr, ns.

4140: incrs in wht chlk, drk crm fn xln lm, no vis por, no odr, ns.

cfs @ 4142

30MIN: brwn inxln lm, foss, dense, no vis por, no odr, ns. 60MIN: gry sh, gry fn xln lm, no vis por, no odr, ns.

4150: gry inxln lm, v, dense, no odr, ns.

4160: tan pack stn lm, med-cors grn, intr prtcl por, no odr, ns.

8/21/2012 mud info. wt: 9.0 Funnel Vis. 61 Filtrate API 6.4 Chloride 2,500 LCM 2

4170: aa, incrs in crm chlky lm, crm inxln lm, inxln por, no odr, ns.

4180: peachy colr smpl, mostly maroon sh.

cfs @ 4177

30MIN: mstly greenish/gry micrtic lm, few chps of ool lm, semi fryble, no odr, ns. 60MIN: gry inxln lm, highly pyrtzd, poor por, no odr, ns.

4190: gry fn xln lm, prtly foss, no vis por, no odr, ns.

STARK 4188-1278

4200: shw of blk carb sh.

cfs @ 4198

30MIN: brwn-gry inxln lm, v. dense, hrd to brk, no vis por, no odr, ns. 60MIN: aa, no sig change, icrs in chlky lm/ highly pyrtzd, no odr, ns.

4210: drk tan-brwn ool lm, cemnt flooded, no vis por, no odr, ns.

DST #4 4217-4245

30-30-30-30

REC: 1' MUD.

IFP: 14-15# ISIP: 45#

FFP: 14-15# FSIP: 34#

4220: incrs in mlky foss chrt, lght gry chrtly xln lm, v. dense, no odr, ns.

4230: incrs in gry/blk sh and gry shly lm.

cfs @ 4224

30MIN: shw of blk carb sh, lots of gry sh, gry v. foss xln lm, dense, no vis por, no odr, ns. 60MIN: lots of blk carb sh, brwn xln v. foss lm, dense, no odr, ns.

4240: brwn micrtic lm, pin point por (intr prtcl), v. weak shw of oil, few gry xln lm, vug cast por w/ drk oil stn.

cfs @ 4242

30MIN: lght gry inxln lm, poor inxln por, no odr, ns. 60MIN: crm inxln lm, inxln por, tan pack stn, intr prtcl por, two chps w/ a weak shw of free brwn oil, no odr.

4250: mstly gry, maroon and green sh.

BKC 4246-1336

4260: crm-lght gry inxln lm, inxln por, no odr, ns.



8/22/2012
mud info.
wt: 9.3
Funnel Vis. 63
Filtrate API 8.0
Chloride 3,000
LCM 2

←===== ALTAMONT
4292-1382

PUMP PRESSURE:
950+

←===== PAWNEE
4470-1460

8/23/2012
mud info.
wt: 9.2
Funnel Vis. 53
Filtrate API 7.2
Chloride 3,000
LCM 2

←===== MYRICK
4408-1498

cfs @
4445

30MIN: shw of tan-milky chrt, crm inxln lm, poor por, lots of crm chiky lm, no odr, ns.
60MIN: crm xln lm, dense, no odr, ns.

←===== CHEROKEE
4454-1544

cfs @
4465

30MIN: brwn inxln lm, v. dense, no vis por, few cluster of ool lm, matrix fill, well cemntd, no odr, ns. 60MIN: incrs in gry sh, tan-crm ool lm, poor por, no odr, ns.

4270: gummy smple, maroon/brown dolo, execlnt por, no odr, ns. lots of chiky lm.

4280: aa, brwn colrd sampl, lots of gummy chlk, dolo aa, no odr, ns.

4290: gry inxln lm, calcite floded fracs, no vis por, no odr, ns.

4300: incrs in maroon and gry sh, crm-drk tan inxln lm, poor xln por, no odr, ns.

4310: grysh/purp inxln lm, v. dense, hrd to brk, gry micrtic lm, v. fn grn, no odr, ns.

4320: incrs in gry, purp, and maroon sh.

4330: mstly gry sh, crm micrtic lm, execlnt por, no odr, ns.

4340: lght crm inxln lm, foss, poor-no por, no odr, ns.

4350: lm aa (chng in colr: gry), incrs in gry and aqua green sh.

4360: tan foss lm, cemnt floded, no vis por, no odr, ns.

4370: drk crm fn xln lm, no vis por, no odr, ns.

4380: mstly gry sh, brwn wacke stn lm, fair intra clst por, no odr, ns.

4390: incrs in translucnt chrt, lght crm fn xln lm, no vis por, no odr, ns.

4400: aa, tan-crm grain stn lm, med grn, cemnt floded, poor-no por, no odr, ns.

4410: shw of blk carb sh.

4420: crm-gry inxln lm, dense, no vis por, no odr, ns.

4430: tan fn xln lm, hghly pyrtzd, no vis por, no odr, ns.

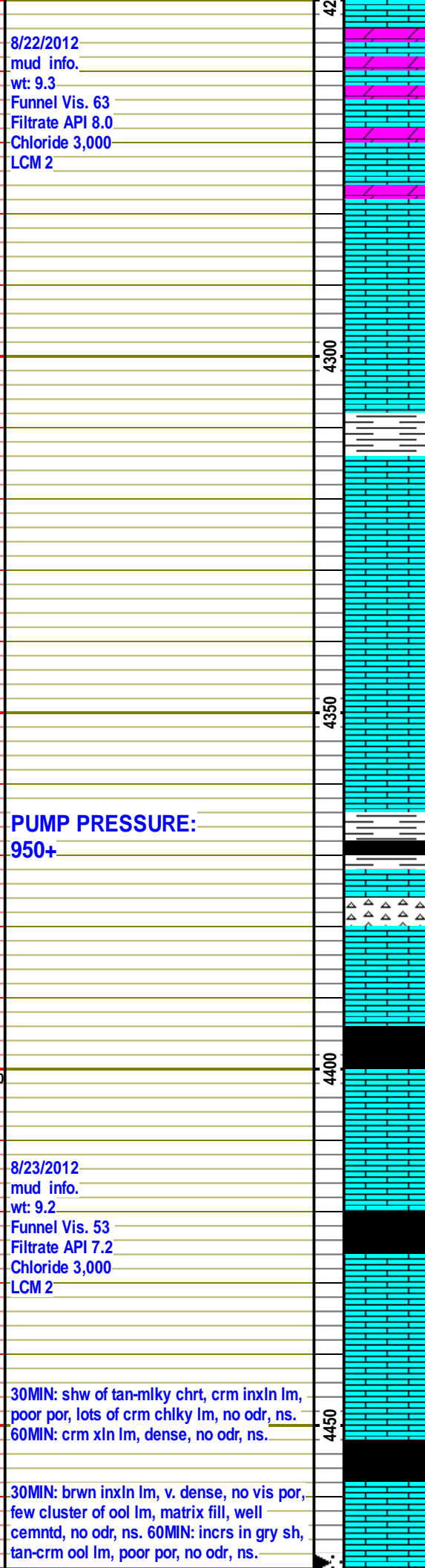
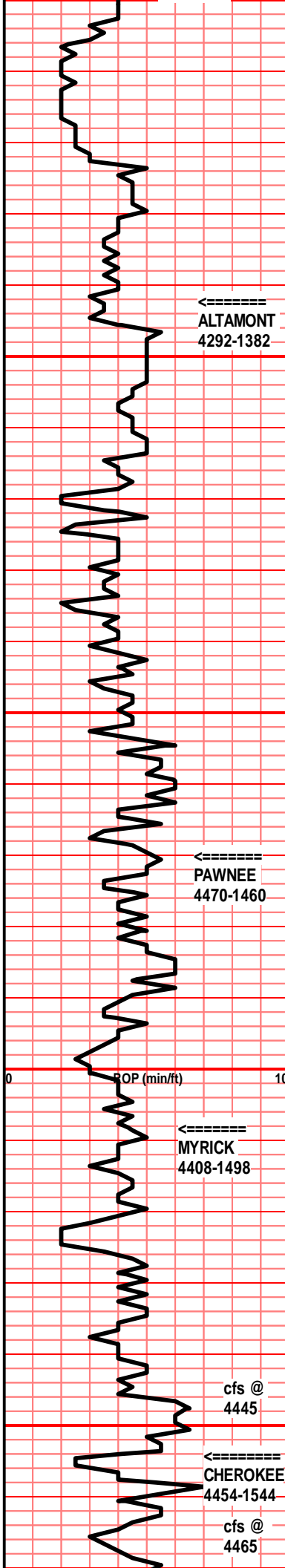
4440: shw of blk carb sh, tan ool lm, cemnt floded no odr, ns.

4450: tan inxln lm, no vis por, no odr, ns.

4460: brwn inxln lm, dense, no vis por, no odr, ns.

4470: shw of blk carb sh, tan ool lm, poor por, brwn-drk crm fn xln lm, semi foss, no vis por, no odr, ns.

4480: incrs in gry sh. tan-brwn inxln lm. v. dense. no



4270: gummy smple, maroon/brown dolo, execlnt por, no odr, ns. lots of chiky lm.
4280: aa, brwn colrd sampl, lots of gummy chlk, dolo aa, no odr, ns.
4290: gry inxln lm, calcite floded fracs, no vis por, no odr, ns.
4300: incrs in maroon and gry sh, crm-drk tan inxln lm, poor xln por, no odr, ns.
4310: grysh/purp inxln lm, v. dense, hrd to brk, gry micrtic lm, v. fn grn, no odr, ns.
4320: incrs in gry, purp, and maroon sh.
4330: mstly gry sh, crm micrtic lm, execlnt por, no odr, ns.
4340: lght crm inxln lm, foss, poor-no por, no odr, ns.
4350: lm aa (chng in colr: gry), incrs in gry and aqua green sh.
4360: tan foss lm, cemnt floded, no vis por, no odr, ns.
4370: drk crm fn xln lm, no vis por, no odr, ns.
4380: mstly gry sh, brwn wacke stn lm, fair intra clst por, no odr, ns.
4390: incrs in translucnt chrt, lght crm fn xln lm, no vis por, no odr, ns.
4400: aa, tan-crm grain stn lm, med grn, cemnt floded, poor-no por, no odr, ns.
4410: shw of blk carb sh.
4420: crm-gry inxln lm, dense, no vis por, no odr, ns.
4430: tan fn xln lm, hghly pyrtzd, no vis por, no odr, ns.
4440: shw of blk carb sh, tan ool lm, cemnt floded no odr, ns.
4450: tan inxln lm, no vis por, no odr, ns.
4460: brwn inxln lm, dense, no vis por, no odr, ns.
4470: shw of blk carb sh, tan ool lm, poor por, brwn-drk crm fn xln lm, semi foss, no vis por, no odr, ns.
4480: incrs in gry sh. tan-brwn inxln lm. v. dense. no

JOHNSON

DST #5 4469-4512
30-45-45-60
REC: 15' OCM (2%O).
IFP: 21-27# ISIP: 855#
FFP: 33-37# FSIP: 823#

cfs @
4500

30MIN: drk tan xln lm, w/ pin point vuggy disloution por, fair odr, shw of brwn free oil. 60MIN: incrs in gry sh, tan inxln lm, pin point vuggy por, shw of brwn free oil, faint-odr.

cfs @
4512

30MIN: tan inxln lm, frac por, cemnt floded frac, crm xln lm, pin point vuggy por, strng odr, shw of brwn oil. 60MIN: sample aa, strong odr, lots of free brwn oil shws.

cfs @
4530

30MIN: incrs in brwn and gry sh, clustrs of qtz ss, fn grn, clr, gry and brwn, subrounded, well sortd, nsfo. 60MIN: mstly brwn, yellow and green sh, ss aa, nsfo.

MISS
4544-1634

cfs @
4542

30MIN: mstly sh: brwn, gry, yellow and green, 60MIN: mstly sh aa, few cluster of ss, fryable, no shw or odr, med grn sub rounded, well sorted, sub-rounded, no odr, ns.

8/24/2012
mud info.
wt: 9.4
Funnel Vis. 55
Filtrate API 8.0
Chloride 3,000
LCM 2

PUMP PRESSURE:
950+

cfs @
4670

30MIN: v. gummy smple, lots of gry shly lm, ns.

DEVIATION SURVEY 1 3/4
DEGREE. STRAIT HOLE.

odr, ns.

4490: incrs in blk, gry and maroon sh, crm fn xln lm, dense, no odr, ns.

4500: lm aa, decrease in sh.

4510: tan xln lm, vuggy por, strng shw of brwn oil, strng odr.

4520: lght crm semi xln lm, fenstrl por, fair-strng odr, show of drk brwn free oil.

4530: incrs in gry and green sh, ss, fn-med grn, mod sortd, sub-rounded, semi fryble, lm aa w/ sfo.

4540: mstly sh: brwn, gry, and yellow

4550: mstly sh aa, ss aa, no odr, ns.

4560: crm grain stn lm, poor por, no odr, ns.

4570: aa, incrs in por, no odr, ns.

4580: crm grain stn, well cemntd, hrd to brk, no odr, ns.

4590: aa, no sig chnge.

4600: crm grain stn lm, fn-med grn, intr prtcl por, some semi xln, no odr, ns.

4610: incrs in yellow and green sh.

4620: incrs in tan/mlky chrt, drk tan cors inxln lm, poor-no por, no odr, ns.

4630: tan ool lm, matrix fill, mod cemntd, poor-fair por, no odr, ns.

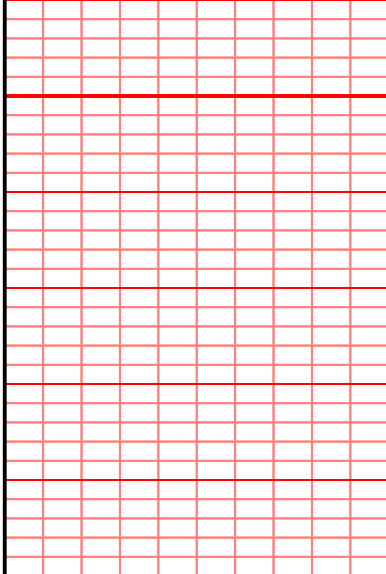
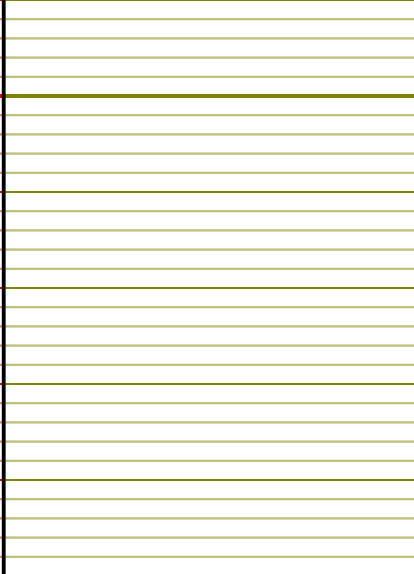
4640: mstly chlk and sub-chlky lm.

4650: aa, no sig change.

4660: gry shly lm (mott), sli ool, poor-fair por, no odr, ns.

4670: aa lm, incrs in gry sh.

0 10
BOR (min/ft)

		50	4700	
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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

December 14, 2012

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

Re: ACO1
API 15-063-22035-00-00
Smith 19B 1
NW/4 Sec.19-12S-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

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

December 17, 2012

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

Re: ACO-1
API 15-063-22035-00-00
Smith 19B 1
NW/4 Sec.19-12S-31W
Gove County, Kansas

Dear John Niernberger:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 08/15/2012 and the ACO-1 was received on December 14, 2012 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department