



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1157606
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: _____



1157606

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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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Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Miller 15
Doc ID	1157606

All Electric Logs Run

Dual Induction Log
Micro Resistivity Log
Compensated Density Neutron Log
Cement Bond Log

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

September 10, 2013

Marge Schulte
Farmer, John O., Inc.
370 W WICHITA AVE
PO BOX 352
RUSSELL, KS 67665-2635

Re: ACO1
API 15-065-23920-00-00
Miller 15
NW/4 Sec.11-10S-21W
Graham 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,
Marge Schulte

ALLIED OIL & GAS SERVICES, LLC 056609

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Russell

DATE <u>5.23.13</u>	SEC. <u>11</u>	TWP. <u>10</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>minor</u>	WELL# <u>#75</u>	LOCATION <u>Pales, Ks</u>			COUNTY <u>Graham</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)		Redline church 3 s 1/2 e 5 into					

CONTRACTOR W W #12

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 5/8 DEPTH 219'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 15'

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 12.99 gal
120

OWNER

CEMENT AMOUNT ORDERED 175 slc class A

3% LC 2% gel

COMMON	<u>175 slc</u>	@ <u>17.90</u>	<u>\$3,132.50</u>
POZMIX		@	
GEL	<u>3 slc</u>	@ <u>23.40</u>	<u>\$70.20</u>
CHLORIDE	<u>10 slc</u>	@ <u>64.00</u>	<u>\$640.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>188.51 4 1/2</u>	@ <u>2.48</u>	<u>\$467.50</u>
MILEAGE	<u>387.68 1/2</u>	@ <u>2.60</u>	<u>\$1,007.96</u>
			TOTAL <u>\$5,062.16</u>

EQUIPMENT

PUMP TRUCK CEMENTER Tony P. Bob

409 HELPER Dalton D

BULK TRUCK

410 DRIVER Kevin L.

BULK TRUCK

DRIVER

REMARKS:

* Circulated mud to Surface!

* Ran cement to 175 slc - 26.66 gal sink

Displaced cement to 12.99 gal

Cement circulated to Surface!

* Shut in 8 5/8" @ 100 PSI Height

SERVICE

DEPTH OF JOB 219'

PUMP TRUCK CHARGE \$6512.25

EXTRA FOOTAGE @

MILEAGE Heavy 45m @ 7.70 \$346.50

MANIFOLD Light 45m @ 4.40 \$198.00

@

@

CHARGE TO: John D Farmer

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL \$2,056.75

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 Robert P. Farmer

SIGNATURE Robert P. Farmer

SALES TAX (if Any) 490.10

TOTAL CHARGES \$7,118.91

DISCOUNT \$1,922.10 IR PAID IN 30 DAYS

before tax RS 5-24

net 5196.81

JOB LOG

SWIFT Services, Inc.

DATE 5-28-13 PAGE NO.

CUSTOMER John O Farmer WELL NO. 15 LEASE Miller JOB TYPE 5 1/2 long string TICKET NO. 24424

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) CAL	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1400							on location
								TD 3910 SS 22
								TP 3909 Insert 3887
								PC up 51 45 1733' 5 1/2" x 14
								Centralizers 1, 2, 4, 6, 8, 10, 51
								Baskets 2, 11, 51
	1445							Start casing
	1635							Drop Ball Break Circulation Rotate
	1705		7					Plug RH 30 sks
		5	12				300	Start Mudflush
		5	20				300	Start KLL flush
	1720	5	35				200	Start Cement
	1734							Drop Plug
								wash out Pump+Lines
	1735	6					300	Start Displacement
	1752		94.8				700 1500	Land Plug
	1755							Release Dry
								wash up Backup
	1830							Job complete Thank You Josh, Brian



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Farmer, John O, Inc.

11-10-21, Graham, KS

370 W Wichita Ave
Russell KS 67665

Miller #15

Job Ticket: 53885

DST#: 1

ATTN: Austin Klaus

Test Start: 2013.05.27 @ 23:07:00

GENERAL INFORMATION:

Formation: **Arb**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:13:00

Time Test Ended: 08:13:00

Test Type: Conventional Straddle (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3826.00 ft (KB) To 3839.00 ft (KB) (TVD)

Reference Elevations: 2249.00 ft (KB)

Total Depth: 3910.00 ft (KB) (TVD)

2244.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8319 Inside

Press @ Run Depth: 1123.76 psig @ 3835.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.27

End Date: 2013.05.28

Last Calib.: 2013.05.28

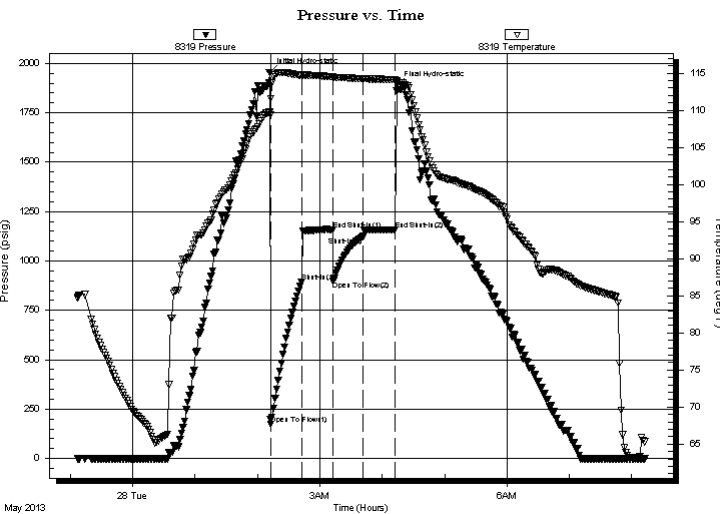
Start Time: 23:07:05

End Time: 08:13:00

Time On Btm: 2013.05.28 @ 02:11:30

Time Off Btm: 2013.05.28 @ 04:14:30

TEST COMMENT: IF-BOB in 1min
ISI-No blow
FF-BOB in 1min
FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1954.37	109.76	Initial Hydro-static
2	174.44	111.59	Open To Flow (1)
31	893.11	114.68	Shut-In(1)
61	1157.63	114.49	End Shut-In(1)
62	898.22	114.38	Open To Flow (2)
91	1123.76	114.23	Shut-In(2)
121	1159.02	114.14	End Shut-In(2)
123	1889.52	113.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
370.00	Water	4.10
1180.00	V SOCW 5%O 95%W	16.55
510.00	SOCW 10%O 90%W	7.15
450.00	SOCW 20%O 80%W	6.31
250.00	OCW 30%O 60%W 10%M	3.51

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Farmer, John O, Inc.

11-10-21, Graham, KS

370 W Wichita Ave
Russell KS 67665

Miller #15

Job Ticket: 53885

DST#: 1

ATTN: Austin Klaus

Test Start: 2013.05.27 @ 23:07:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

40000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
370.00	Water	4.097
1180.00	VSOCW 5%O 95%W	16.552
510.00	SOCW 10%O 90%W	7.154
450.00	SOCW 20%O 80%W	6.312
250.00	OCW 30%O 60%W 10%M	3.507

Total Length: 2760.00 ft

Total Volume: 37.622 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8319

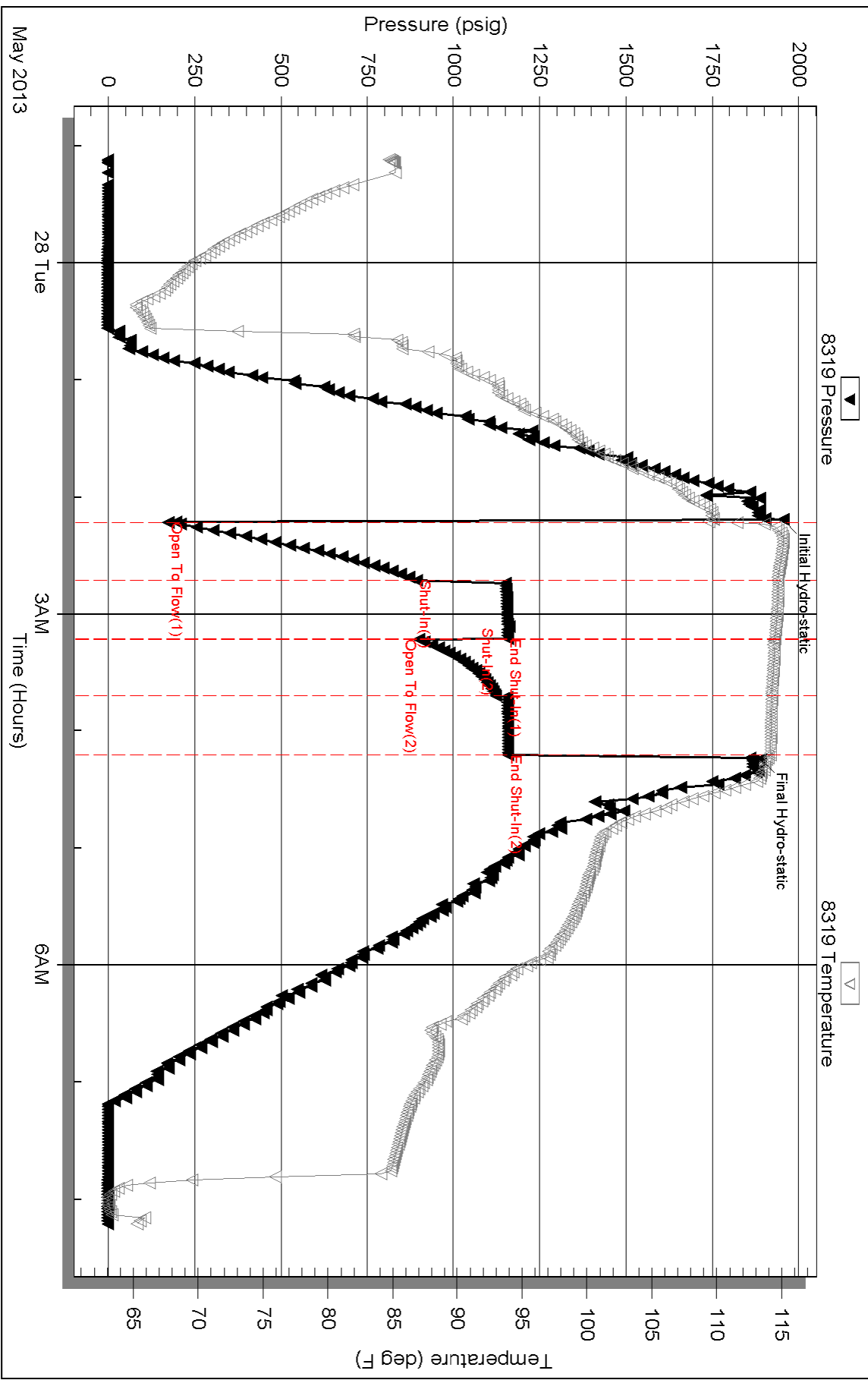
Inside

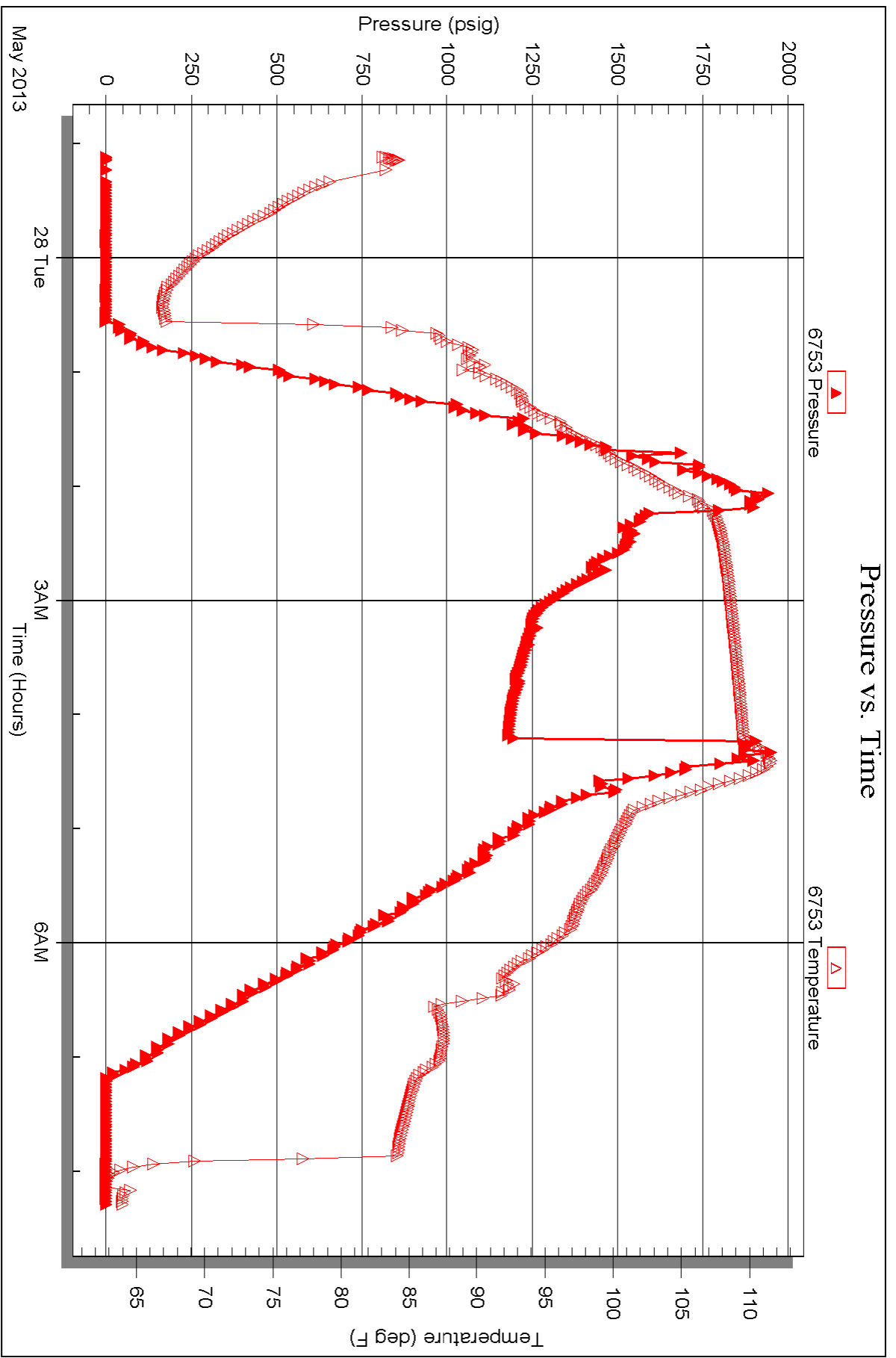
Farmer, John O, Inc.

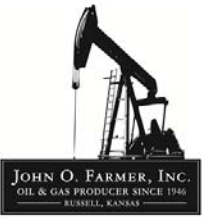
Miller #15

DST Test Number: 1

Pressure vs. Time







AUSTIN B. KLAUS



Cell 785.650.3629
Work 785.483.3145
Ext 225

PO BOX 352
Russell, KS 67665
austin.klaus@johnofarmer.com

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

Well Name: Miller #15
Location: Graham County
License Number: API #15-065-23920-00-00
Spud Date: 5/23/2013
Surface Coordinates: Section 11 - Township 10 South - Range 21 West
1,700' FNL & 1,700' FWL
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above
Ground Elevation (ft): 2,242' **K.B. Elevation (ft):** 2,250'
Logged Interval (ft): 3,250' **To:** RTD **Total Depth (ft):** 3,910'
Formation: Lansing, Arubckle
Type of Drilling Fluid: Chemical (Andy's)

Region: Kansas

Drilling Completed: 5/28/2013

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: John O. Farmer, Inc.
Address: P.O. Box 352
Russell, KS 67665-0352

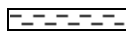



Comments





The Miller #15 well was drilled by WW Drilling Rig #12 (Tool Pusher: Calvin Pfannenstiel).

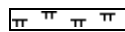

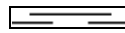
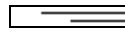
The location for the Miller #15 well was found via 3-D seismic survey. Based on the results of the drill stem test that was conducted and samples and wireline logs that were evaluated, the decision was made to run 5 1/2" production casing to further evaluate the Miller #15 well on 5/28/2013.

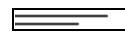



ROCK TYPES

-  Anhy
-  Bent
-  Brec
-  Cht








-  Clyst
-  Coal
-  Congl
-  Dol

-  Gyp
-  Igne
-  Lmst
-  Meta

-  Mrlst
-  Salt
-  Shale
-  Shcol





-  Shgy
-  Slstst
-  Ss
-  Till

OTHER SYMBOLS


- POROSITY**
-  Earthy
 -  Fenest
 -  Fracture
 -  Inter
 -  Moldic
 -  Organic
 -  Pinpoint

Vuggy

- SORTING**
-  Well
 -  Moderate
 -  Poor

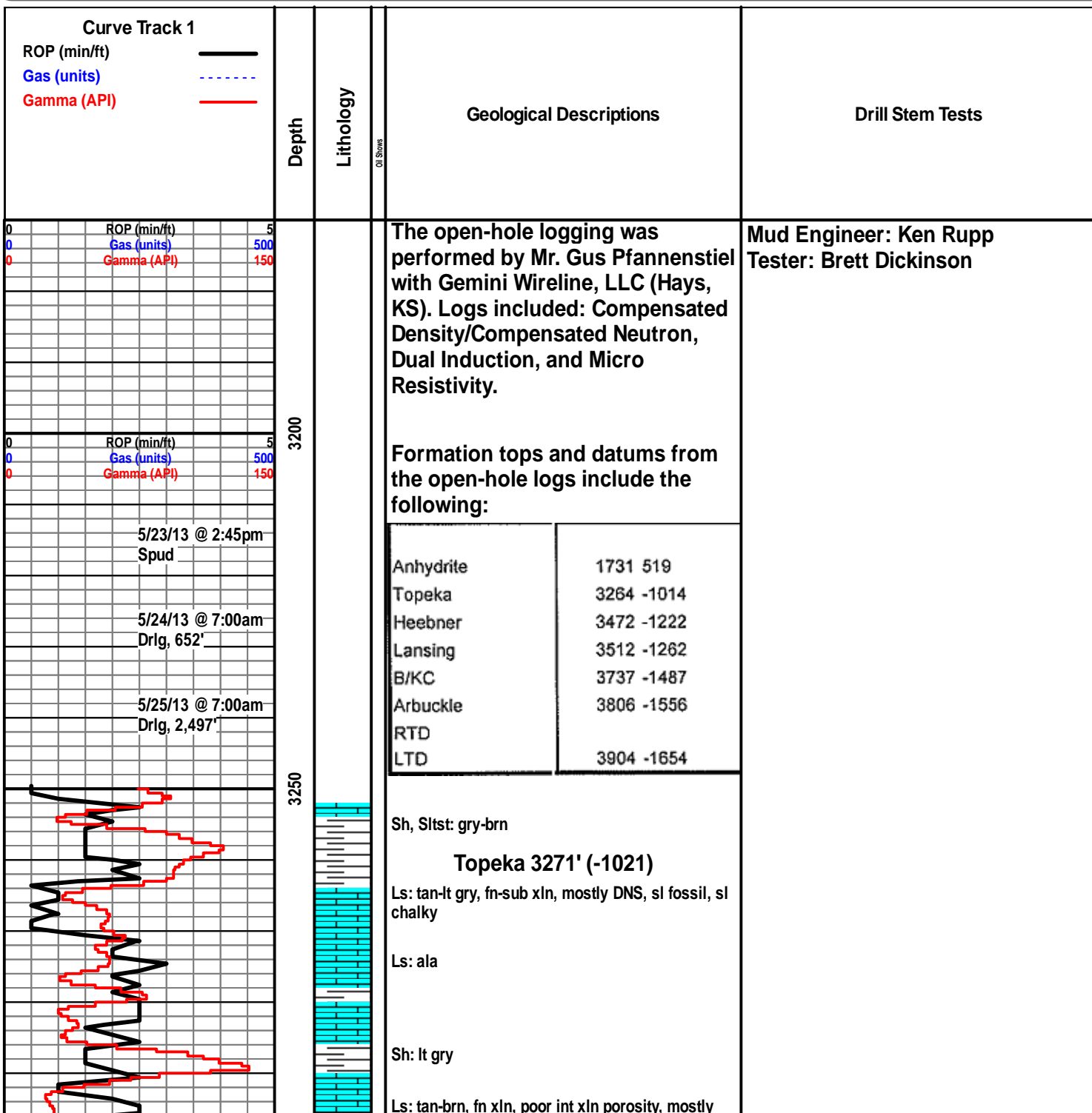
- ROUNDING**
-  Rounded
 -  Subrnd
 -  Subang
 -  Angular

- OIL SHOW**
-  Even

-  Spotted
-  Ques
-  Dead

- INTERVAL**
-  Core
 -  Dst

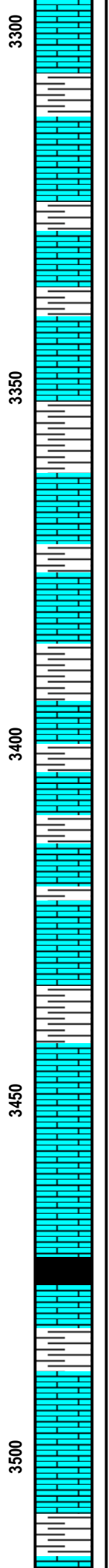
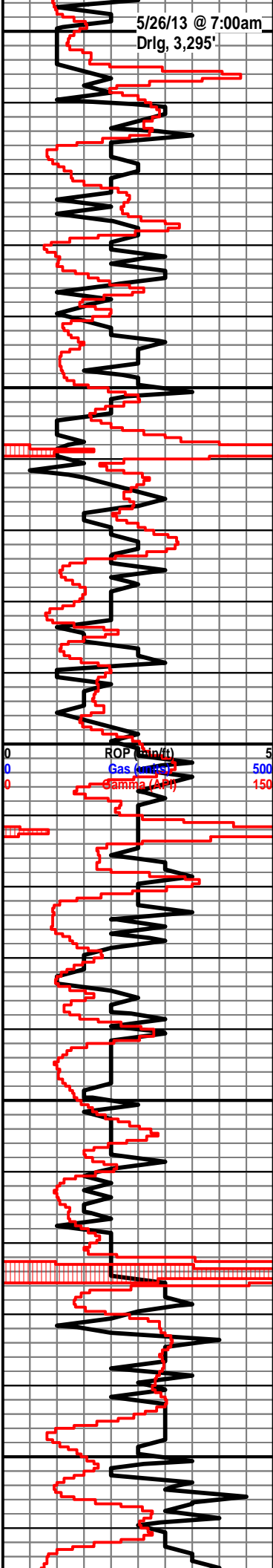
- EVENT**
-  Rft
 -  Sidewall



5/26/13 @ 7:00am
Drlg, 3,295'

3300
3350
3400
3450
3500

ROP (min/ft) 5
Gas (mg/cc) 500
Gamma (API) 150



barren

Sh: lt gry

Ls: tan-brn, fn xln, mostly DNS

Sh, Slst: gry-brn

Ls: tan-brn, fn-sub xln, mostly DNS, sl fossil, sl chalky

Sh, Slst: gry-brn

Sh: drk gry-blk

Ls: off wh-tan, fn xln, sl fossil, chalky, barren

Ls: ala

Sh: gry-brn-grn

Dolo: off wh, fn xln, poor int xln porosity, barren

Ls: off wh-tan-lt gry, fn xln, moslty DNS, sl fossil, sl chalky

Ls: ala

Sh: drk gry

Ls: tan-lt gry, fn xln, fossil, sl chalky

Ls: ala

Ls: off wh-tan, fn xln, ool, poor ool porosity, moslty barren, sl chalky

Heebner 3476' (-1226)

Sh: blk, carb, fissile

Ls: tan-brn, fn xln, mostly DNS

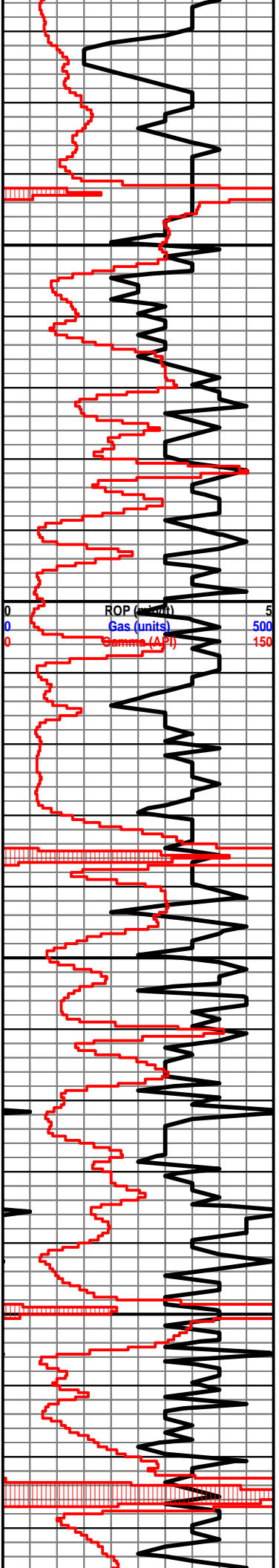
Sh, Slst: brn-gry-grn, soft

Toronto 3499' (-1249)

Ls: tan-brn, fn xln, fossil, sl chert-off wh, chalky

Lansing 3516' (-1266)

Ls: off wh-tan, fn xln, poor int xln porosity, barren



3550

3600

3650

3700

Ls: off wh-tan, fn xln, poor int xln porosity, vry lt-dead oil st, NSFO, no odor, chalky, sl fossil

Ls: off wh-tan, fn xln, mostly DNS, NSFO, sl fossil, chert-off wh

Ls: ala

Sh: drk gry-brn

Ls: off wh, fn xln, poor int xln & pp vuggy porosity, NSFO, fossil, sl chalky

Sh, Sltst: gry-brn-grn

Ls: off wh, fn xln, ool, poor oom porosity, SSFO, sl odor, fossil, chalky

Sh: drk gry-brn

Ls: off wh, fn-sub xln, mostly DNS, chalky

Ls: off wh-tan, fn xln, poor int xln porosity, lt oil st, VSSFO, sl odor, chalky, sl chert-off wh

Sh: gry-brn-grn

Ls: off wh, fn-sub xln, mostly DNS, NSFO, hvy chert-off wh, sl chalky, sl fossil

Ls: off wh-tan, fn xln, DNS, sl chert-off wh

Sh, Sltst: gry-brn

Ls: off wh-tan, fn xln, poor int xln porosity, NSFO, vry lt odor, sl fossil, sl chalky

Sh: drk gry

Ls: off wh, fn xln, poor int xln porosity, lt oil st in porosity, NSFO, sl fossil

Sh: drk gry-brn-grn

Ls: off wh-tan, fn xln, poor int xln and pp vuggy porosity, NSFO, sl chalky

Sh: drk gry-blk

Ls: off wh, fn xln, mostly DNS, sl chalky, sl fossil

Ls: ala

Sh: drk gry, blk

Ls: tan-lt gry, fn xln, poor int xln porosity, NSFO, fossil, sl chalky

Vis: 52
Wt: 9.1
LCM: 1 1/2#

rossi, sl chalky

BKC 3741' (-1491)

Sh,Slst: gry-brn-grn, soft

Sh,Slst: ala

Sh: drk gry-brn-grn

Ls: tan-brn-lt gry, fn-sub xln, mostly DNS

Sh: drk gry-brn

Sh,Slst: drk gry-brn-blk

Sh: grn, waxy

Arbuckle 3810' (-1560)

Dolo: off wh-tan, fn grn, fairly well rounded, poorly sorted, poorly cemented, poor int grn porosity, SSFO, sl odor Qtz: off wh-clr, vry fn grn, loose grains

Sh: grn, waxy

Dolo: off wh-tan-brn, fn-md xln, poor-fair int xln and vuggy porosity, FSFO, fair odor

Dolo: off wh-brn, fn-md sucrosic xln, fair int xln porosity, F-GSFO, good odor, fair yel fluor

Dolo: tan-brn, fn-md xln, mostly DNS, tight

Dolo: off wh-tan-brn, fn-md xln, poor int xln porosity, mostly tight, FSFO, good odor

Dolo: off wh-brn, md xln, poor int xln porosity, mostly barren, sl chert-off wh

Dolo: ala

Dolo: brn, md-crs xln, poor int xln porosity, mostly DNS, tight, scat dead oil st, vry light odor, chert-off wh

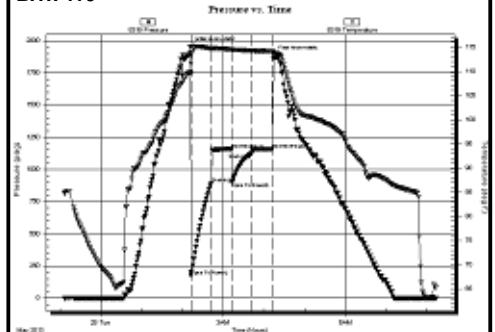
Dolo: ala

Dolo: off wh, md xln, poor int xln porosity, vry DNS, NSFO, hvy chert-off wh, sl chalky

Vis: 53
Wt: 9.2
LCM: 1 1/2#

DST #1 3,826'-3,839' (Arbuckle 3rd Break)
30"-30"-30"-30"

IF: BOB in 1", no blow back
FF: BOB in 1", no blow back
Rec: 250' SMCOCW (10% M, 30% O, 60% W)
450' OCW (20% O, 80% W)
510' SCOW (10% O, 90% W)
1,180' VSOCW (5% O, 95% W)
370' SW (40k Chl)
FP: 174-893#, 898-1124#
SIP: 1,158-1,159#
HP: 1,954-1,890#
BHT: 115



Pipe Strap: none; inclement weather
Deviation: 3/4 degree

