



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1156705
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: _____



1156705

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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Lawson A 10
Doc ID	1156705

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Lawson A 10
Doc ID	1156705

Tops

Name	Top	Datum
Anhydrite	2046'	(423)
Heebner	3488'	(-1019)
Toronto	3518'	(-1049)
Lansing	3531'	(-1062)
Base/KC	3709'	(-1240)
Arbuckle	3780'	(-1311)
Reagan	3790'	(-1321)
Granite	3804'	(-1335)
L.T.D.	3845'	(-1376)

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 29, 2013

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

Re: ACO1
API 15-137-20646-00-00
Lawson A 10
NW/4 Sec.36-03S-24W
Norton 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

June 19, 2013

RECEIVED JUN 20 2013

John O. Farmer, Inc.
P. O. Box 352
Russell, Kansas 67665

COPY

**RE: Exception to Alternate II Cementing Requirements
Lawson A # 10
NWSNW section 36-3-24W
Norton County, Kansas
API # 15-137-20646-00-00**

Dear Mr. Farmer,


The Kansas Corporation Commission (KCC) has received your request, dated June 12, 2013, through District 4 Supervisor for an exception to Alternate II cementing requirements for the above referenced well. From this request, the KCC understands that subject well was not cemented to surface as required by the Alternate II option. Referenced well has 299 feet of surface casing set with 170 sacks of cement circulated to surface. A Cement Bond log indicates cement was circulated to 770 feet from a port collar at 2,049 feet with 375 sacks of cement. The bottom of fresh water is reported at 220 feet with the bottom of usable water listed at 1,240 feet.

After review of this matter by technical staff it was determined that:

1. Surface casing was set deeper than fresh water source in the area with cement coverage to protect the shallow aquifers.
2. All fresh and usable water sources are adequately protected with cement coverage and any remaining intervals not covered by cement contain no fresh or useable water zones.
3. The Dakota appears to be adequately isolated with cement and any remaining intervals not cemented contain no fresh or usable water nor present any threat of contamination from the shales in the interval.

Based on this information that the fresh and usable water zones are adequately protected with cement coverage and that any remaining intervals not cemented behind the production casing contain no threat of contamination from the shales in the intervals. Therefore, an exception is granted for the Alternate II requirement.

Sincerely,


Barry Metz
Interim Director

cc: Case Morris – District 4
Steve Bond – Production Supervisor

KCC has granted exception to bring cement to surface; we have sufficient coverage where we are at.


QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6672

Date	5-10-13	Sec.	36	Twp.	3	Range	24	County	Norton	State	KS	On Location		Finish	1:15pm
Location													8 N of 283 and 9 5w, 1/2 N E 2		
Lease				Lawson				Well No.		A10		Owner			
Contractor				Surface Wwiz				To Quality Oilwell Cementing, Inc.				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job				Surface				Charge To				John O Farmer			
Hole Size				12 1/4				T.D.		300		Street			
Csg.				8 7/8				Depth		300		City			
Tbg. Size								Depth				State			
Tool								Depth				The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.				20				Shoe Joint		20		Cement Amount Ordered			
Meas Line								Displace		17 1/2		170 com 3%cc 2%gel			
EQUIPMENT										Common					
Pumptrk		5		No.		Cementer				170					
						Helper		Claton		Poz. Mix					
Bulktrk		1		No.		Driver		Chad		3					
						Driver				Gel.					
Bulktrk		PU		No.		Driver		Travis		6					
						Driver				Calcium					
JOB SERVICES & REMARKS										Hulls					
Remarks:				Cement did circulate				Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
								Handling				179			
								Mileage							
FLOAT EQUIPMENT															
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge				Surface			
								Mileage				63			
X Signature 												Tax			
												Discount			
												Total Charge			

ALLIED OIL & GAS SERVICES, LLC 060293

Federal Tax I.D. # 20-8651475

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

SERVICE POINT
Oshtemo Co.

DATE <i>5/14/13</i>	SEC. <i>36</i>	TWP. <i>3</i>	RANGE <i>24</i>	CALLED OUT	ON LOCATION	JOB START <i>9:00 AM</i>	JOB FINISH <i>10:00 PM</i>
LEASE <i>LAWSON A</i>	WELL # <i>10</i>	LOCATION <i>Norton Sta Rds 5-W-N</i>			COUNTY <i>Norton</i>	STATE <i>Ks.</i>	
OLD OR <u>NEW</u> (Circle one)			<i>Einto</i>				

CONTRACTOR *WW-12*

TYPE OF JOB *Production*

HOLE SIZE *7 7/8* T.D. *3860*

CASING SIZE *5 1/2* DEPTH *3859*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL *Port Collar* DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT *22*

CEMENT LEFT IN CSG. *22*

PERFS.

DISPLACEMENT *93.62*

EQUIPMENT

PUMP TRUCK CEMENTER *Darren Baette*

120 HELPER *Tyler Flipse*

BULK TRUCK

600 DRIVER *Kevin Ryan*

BULK TRUCK

DRIVER

OWNER *Same*

RECEIVED MAY 28 2013

CEMENT

AMOUNT ORDERED *175 SKs Cam 10% salt*

COMMON *175 SKs @ \$17.92 \$3132.50*

POZMIX @

GEL @

CHLORIDE @

ASC @

Salt 18 SKs @ \$26.35 \$474.30

2gal KCL water @ \$34.42 \$68.80

12 bbl WFR 2 @ \$58.70 \$704.40

HANDLING *193.34 CP x @ \$2.48 \$479.48*

MILEAGE *8.68 x 50 x @ \$2.00 \$1128.00*

TOTAL *\$5987.88*

REMARKS:

mix Super flush - 10 bbl KCL water after filling Rathole 325 SKs Cement mix 145 SKs Cement Displace with 10 bbl KCL + Rest Water Land plug 1200" Lift 600" @ Float Held

Thank You

SERVICE

DEPTH OF JOB *3859'*

PUMP TRUCK CHARGE *\$2558.25*

EXTRA FOOTAGE @

MILEAGE *50 @ \$7.20 \$360.00*

MANIFOLD *Head @ \$275.00*

LV mileage @ \$4.42 \$220.00

TOTAL *\$3438.25*

CHARGE TO: *John O Farmer*

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

5/8 Weatherford

1-AFU Float Shoe @ \$408.33

1-Latch Down Plug Assy @ \$337.99

4-Centralizers @ \$57.33 \$229.32

3-Baskets @ \$394.29 \$1182.87

1-Port Collar @ \$372.00

TOTAL *\$5186.51*

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) _____

TOTAL CHARGES *14,613.24*

DISCOUNT *3,799.44* IF PAID IN 30 DAYS

10,813.79 Net.

PRINTED NAME _____

SIGNATURE *Arvin Weathers*

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6941

Date	5-31-13	Sec.	36	Twp.	3	Range	24	County	Norton	State	KS	On Location	9:00 AM	Finish	12:45 PM
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Location Norton 6 St 5 Rd SW Minto

Lease	Lawson	Well No.	A 10	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Chetos				
Type Job	port collar				
Hole Size		T.D.		Charge To	John O Farmer Inc
Csg.	5 1/2	Depth		Street	
Tbg. Size	2 1/2	Depth		City	
Tool		Depth		State	
Cement Left in Csg.		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.	
Meas Line		Displace	10, BBL	Cement Amount Ordered	375 Qm dc

EQUIPMENT

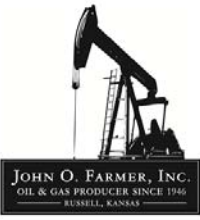
Pumptrk	S	No.	Cementer	Mate	Common	375 Qm dc
			Helper			
Bulktrk	#12	No.	Driver	Brett	Poz. Mix	
			Driver		Gel.	8 Bags
Bulktrk	pu	No.	Driver	Heath	Calcium	
			Driver			

JOB SERVICES & REMARKS

Remarks:	Lawson A-10	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	80II
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar	2049	CFL-117 or CD110 CAF 38	
Mix	8 bags of Gel	Sand	
Mixed Cement	75545	Handling	383
Lossed circulation	waited	Mileage	
15min mixed 50 SHS	waited 15min	FLOAT EQUIPMENT	
Mixed 50 SH	waited 15min	Guide Shoe	
Mixed the Rest of Cement		Centralizer	
Shut port collar	checked	Baskets	
Clean	Rigged down	AFU Inserts	
		Float Shoe	
		Latch Down	

Pumptrk Charge	port collar	Tax	
Mileage	63	Discount	
		Total Charge	

X Signature John O Farmer



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: Lawson A #10
Location: Norton County
License Number: API #15-137-20646-00-00
Spud Date: 5/10/2013
Surface Coordinates: Section 36 - Township 3 South - Range 24 West
1,800' FNL & 1,825' FSL
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above
Ground Elevation (ft): 2,061' **K.B. Elevation (ft):** 2,069'
Logged Interval (ft): 3,250' **To:** RTD **Total Depth (ft):** 3,860'
Formation: Lansing, Arbuckle, Granite
Type of Drilling Fluid: Chemical (Andy's)

Region: Kansas

Drilling Completed: 5/13/2013

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 Lawson A #10 well was drilled by WW Drilling Rig #12(Tool Pusher: Calvin Pfannenstiel).

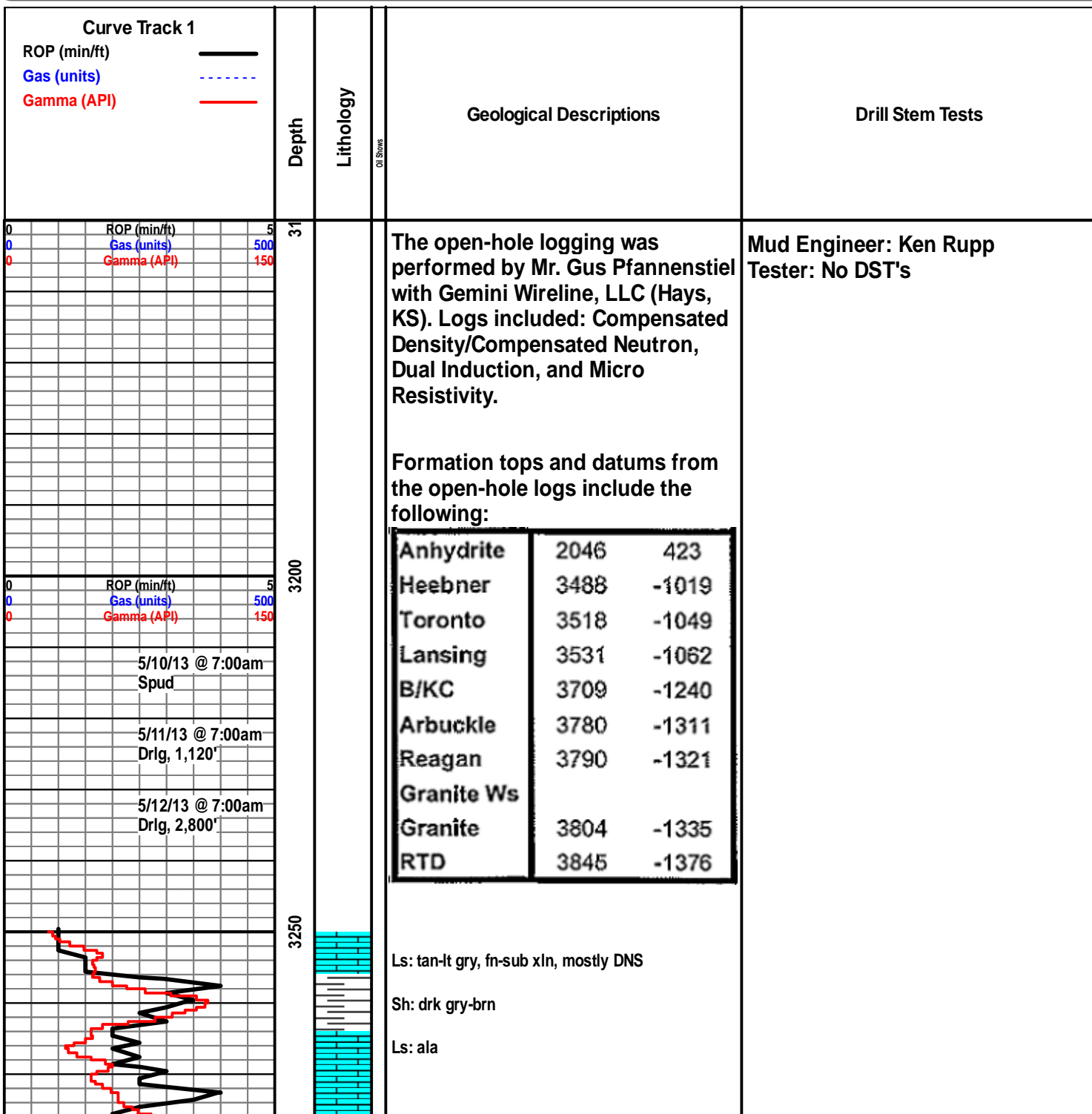
The location for the Lawson A #10 well was found via 3-D seismic survey. Based on the samples and wireline logs that were evaluated, the decision was made to run 5 1/2" production casing to further evaluate the Lawson A #10 well on 5/14/2013.

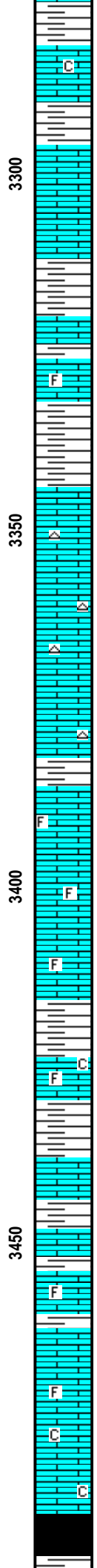
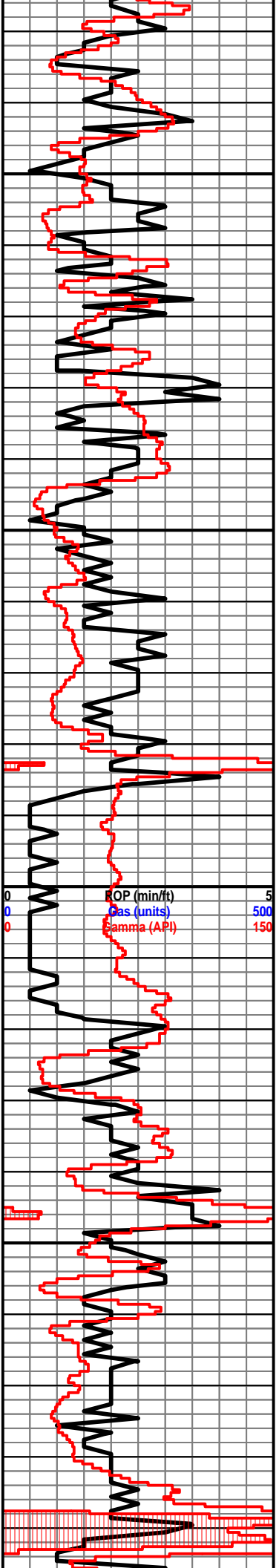
ROCK TYPES

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

OTHER SYMBOLS

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





Sh: gry-brn-rd, soft

Ls: tan-gry, fn xln, poor int xln & pp vuggy porosity, NSFO, no odor, chalky

Ls: ala

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

Sh: gry-brn-grn

Ls: off wh, fn xln, ool, poor pp vuggy porosity, NSFO, no odor, fossil

Sh: gry-brn-red

Ls: off wh-lt gry, fn-sub xln, mostly DNS, chert-off wh

Ls: ala

Sh: drk gry-red, soft

Ls: tan-gry, fn xln, ool, mostly DNS, NSFO, no odor, fossil

Ls: ala

Sh: brn-red

Ls: tan-lt gry, fn-sub xln, ool, mostly DNS, sl fossil, sl chalky

Sh: drk gry-blk

Ls: off wh-tan, fn-sub xln, ool, sl fossil

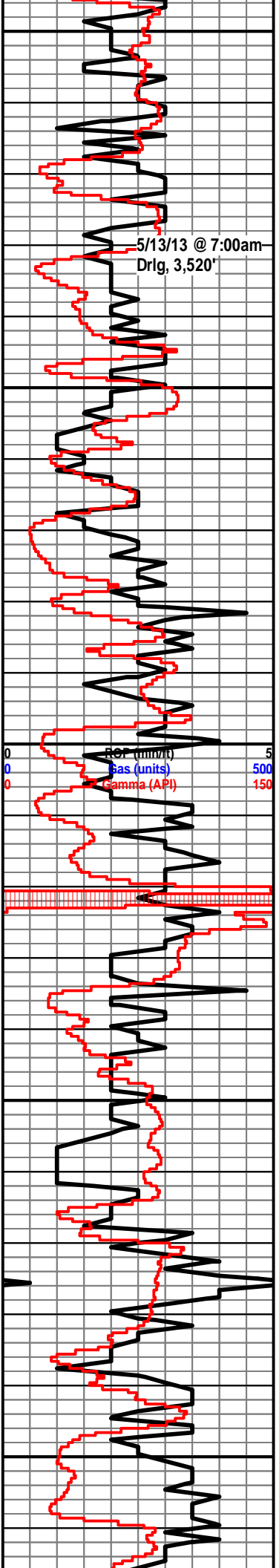
Ls: ala

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

Heebner 3490' (-1021)

Sh: drk gry-blk, carb, fissile

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



3500
3550
3600
3650
3700

Sh: gry-brn-grn

Toronto 3520' (-1051)

Ls: off wh-tan, fn xln, poor-fair int xln & pp vuggy porosity, sl dead oil st in porosity, NSFO, no odor

Lansing 3533' (-1064)

Ls: off wh, fn xln, ool, poor-fair ool & vuggy porosity, SSFO, sl odor, fair yel fluor

Sh: drk gry-brn

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

Sh: drk gry-brn-red

Ls: off wh-tan, fn xln, ool, fair ool & int xln porosity, SSFO, sl odor, chalky

Sh: gry-brn

Ls: off wh, fn-sub xln, mostly DNS, NSFO, chert-off wh

Ls: off wh, fn xln, ool, poor ool porosity, NSFO, sl chert-off wh, chalky

Sh: drk gry-brn-red

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

Ls: ala

Sh: gry-brn

Sh: drk gry-brn-red

Ls: off wh, fn xln, ool, poor ool & pp vuggy porosity, lt oil st, VSSFO, sl odor, chert-off wh

Sh: drk gry-brn-red, soft

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

Ls: off wh, fn xln, ool, poor ool & vuggy porosity, dead oil stn, VSSFO, sl odor, sl chalky

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

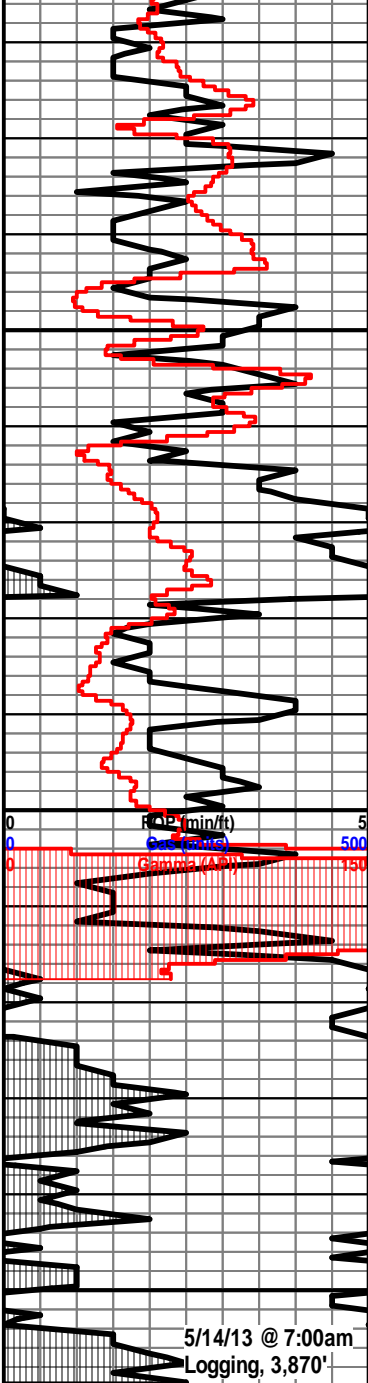
Sh: gry-brn-red

Ls: tan-gry, fn-sub xln, ool, mostly DNS, NSFO, sl chalky

Sh: gry-brn-red

BKC 3718' (-1249)

Vis: 54
Wt: 9.2
LCM: 2#



Sh: lt gry-brn-red, vry soft

Ls: off wh-lt gry, fn-sub xln, mostly DNS, NSFO

Sh: gry-brn, vry soft

Ls: tan-lt gry, fn-sub xln, DNS, NSFO, interclastic

Sh: drk gry-red, clay

Ss: qtz, fn-vry fn grn, calc, well rounded, well cemented, fair sorting, NSFO, Sh: brn-red

Ss: ala, few pcs glauc, DNS, NSFO

Arbuckle 3786' (-1317)
 Dolo: tan, fn sucrosic xln, poor-fair sucrosic xln porosity, glauc, FSFO, good odor, good yel fluor

Reagan 3795' (-1326)
 Ss: off wh, fn-vry fn grn, fairly well rounded, fair-good sorting, poorly cemented, FSFO, good odor, good yel fluor

Granite 3804' (-1335)
 Qtz: off wh-pink, fn grn, sub rounded, well cemented, poorly sorted, vry DNS, NSFO, no odor

Qtz: lt pink, sub rounded-angular, vry DNS,

Qtz: ala

Sh: gry-brn

Qtz: clr-pink, angular, vry DNS, feldspar

Sh: drk brn

Sh: ala, soft

Vis: 54
 Wt: 9.2
 LCM: 2#

5/14/13 @ 7:00am
 Logging, 3,870'