

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1356816
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: _____

1356816

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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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. 019

Date	4/18/17	Sec.	6	Twp.	9	Range	18	County	Rooks	State	Ks	On Location	Finish
Lease	Thompson			Well No.	9			Location	Placerville 3W to 14RP 4 1/2 N 4 1/2 W				
Contractor	Royal Drily			Type Job	Surface 230			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.					
Hole Size	12 1/4			T.D.	229			Charge To	Empire Energy				
Csg.	8 5/8			Depth				Street					
Tbg. Size				Depth				City	State				
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.	10-13			Shoe Joint	13 1/2 BBL			Cement Amount Orders	150 % 3% CE 2% gel				
Meas Line				Displace									

EQUIPMENT					
Pumptrk	15	No.	Cementor	Common	120
			Helper	Poz. Mix	30
Bulktrk	14	No.	Driver	Gel.	3
			Driver	Calcium	06
Bulktrk		No.	Driver		
			Driver		

JOB SERVICES & REMARKS					
Remarks:	Ran 5 JTS to top			Hulls	
Rat Hole	@ 230 est circulation			Salt	
Mouse Hole	mixed 150 sk			Flowseal	
Centralizers				Koi-Seal	
Baskets				Mud CLR 48	
D/V or Port Collar				CFL-117 or CD110 CAF 38	
	Lead cement @ 14 IP			Sand	
	followed @ 14.8 lb			Handling	
	Yield 1.30 CF			Mileage	
	@ 6.4 gal per sk				
	Cement Circulated to pit app 40 sk			FLOAT EQUIPMENT	
				Guide Shoe	
				Centralizer	
				Baskets	
				AFU Inserts	
				Float Shoe	
				Latch Down	
				Pumptrk Charge	
				Mileage	

Signature	Tax	
Wray Burns	Discount	
	Total Charge	

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. 1698

Date	4-23-17	Sec.	6	Twp.	9	Range	18	County	Pooks	State	KS	On Location	Finish
													3:30 AM

Location Plainville - 3w, 4 1/2 N, W/3

Lease Thompson	Well No. 9	Owner	
Contractor Royal I		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 Bottom stage		Charge To Empire Energy	
Hole Size 7 7/8"	T.D. 3546'	Street	
Csg. 5 1/2" New 15.500	Depth 3534.61'	City	
Tbg. Size	Depth	State	
Tool DU Tool	Depth #47 1461.52	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg. 44.10'	Shoe Joint 44.10'	Cement Amount Ordered 180 Corn 10% salt 5% Gilsent	
Meas Line	Displace 83 8CS	1/4# Fib-seal 500 gal mud Clear 48	

EQUIPMENT

Pumptrk	5	No.	Cementor	Craig	Helper	Rick	Common	180
Bulktrk	9	No.	Driver	David			Poz. Mix	
Bulktrk	19	No.	Driver	Brett			Gel.	
			Driver				Calcium	

JOB SERVICES & REMARKS

Remarks:	Salt 17
Rat Hole	Flowseal 50#
Mouse Hole	Kol-Seal 900#
Centralizers 5, 3, 5, 7, 9, 11, 13, 15, 17, 48	Mud CLR 48 4000 gal
Baskets 47	CFL-117 or CD110 CAF 38
DI or Port Collar 47, 1461, 52'	Sand
pipe on bottom NO Circulation	Handling 206
pump 500 gal mud Clear 48	Mileage
plug bottom of mix 180 SK	FLOAT EQUIPMENT
Cement. shut down wash	Guide Shoe Packer shoe
pump + lines Displaced w/ 83BS	Centralizer 10
of water Released + held.	Baskets 1
Lift pressure 100 #	AFU inserts DU Tool
Land plug to 1500#	Float Shoe
open DU Tool w/ 1300#	Latch Down
	Pumptrk Charge prod string Bottom stage
	Mileage 30

X Signature Randy Wenzel

Tax	
Discount	
Total Charge	

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. 1699

Date	4-23-17	Sec.	6	Twp.	9	Range	18	County	Rooks	State	Ks	On Location		Finish	5:00 AM
Location Plainville - 3w, 4 1/2 N, w/s															

Lease	Thompson		Well No.	9	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	Royal 1				Charge To	Empire Energy									
Type Job	Top stage				Street										
Hole Size	5 1/2" New 15.50"		T.D.	3546'	City	State									
Csg.	5 1/2" New 15.50"		Depth	3534.61'	The above was done to satisfaction and supervision of owner agent or contractor.										
Tbg. Size			Depth		Cement Amount Ordered 380 80/20 QMDC 1/4# Fluxed										
Tool	DU Tool		Depth	147 1461.52'											
Cement Left in Csg.			Shoe Joint												
Meas Line			Displace	34 3/4 BLS											

EQUIPMENT				Common
Pumptrk	5	No.	Cement Helper Craig Rick	380 80/20 QMDC
Bulktrk	19	No.	Driver Brett	Poz. Mix
Bulktrk	9	No.	Driver David	Gel.
				Calcium

JOB SERVICES & REMARKS				
Remarks:				Hulls
Rat Hole				Salt
Mouse Hole				Flowseal 100#
Centralizers	NO Circulation to start			Kol-Seal
Baskets				Mud CLR 48
D/V or Port Collar	#47 1461.52'			CFL-117 or CD110 CAF 38
Pump	80 BLS mud Plug			Sand
Rathole	w/ 30 2" plug Manville			Handling 380
w/ 15 5/8" pump	335 5x Cement			Mileage
down 5 1/2"	Displaced plug			FLOAT EQUIPMENT
w/ 34 3/4 BLS	Released + held			Guide Shoe
Lift pressure	200 #			Centralizer
Closed tool	1500 #			Baskets
Cement did NOT Circulate.				AFU inserts
Water did Circulate				Float Shoe
				Latch Down
				Pumptrk Charge
				Mileage 30
				Tax
				Discount
				Total Charge

X Signature *Randy O'Neil*

prod string Top stage

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. 158

Date	5-8-17	Sec.	Twp.	Range	County	State	On Location	Finish
					Rooks	Ks		4:15 PM

Location Plainville - 3W, 4 1/2 N, W/S

Lease	Thompson	Well No.	9	Owner	To Quality Oilwell Cementing, Inc.
Contractor	Chito's well service	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	1" Backside	Charge To <u>Empire Energy</u>			
Hole Size		T.D.		Street	
Csg.		Depth		City	State
Tbg. Size	1"	Depth	662'	The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	110 60/40 4% gel
Cement Left in Csg.		Shoe Joint			
Meas Line		Displace			

EQUIPMENT

Pumptrk	18	No.	Cementier	Rick	Common	65
			Helper		Poz. Mix	45
Bulktrk	19	No.	Driver	Doug	Gel.	4
Bulktrk		No.	Driver		Calcium	

JOB SERVICES & REMARKS

Remarks:	1" @ 662' mix - 110 sk
Rat Hole	60/40 4% gel
Mouse Hole	
Centralizers	Cement did Circulate
Baskets	
D/V or Port Collar	
	Handling 114
	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Top off Backside
Mileage	30

Signature	Tax
<i>Randy Wurst</i>	Discount
	Total Charge