

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

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

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs 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 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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 1724

Date	10-9-19	Sec.	15	Twp.	10	Range	20	County	Rooks	State	Ks	On Location		Finish	12:00 AM		
Lease								Brueggeman		Well No.		1-15					
Contractor								Murfin		#8		Owner S + W to well					
Type Job								Surface		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.		240'		Charge To Patterson Energy							
Csg.				8 5/8"		Depth		240'		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.				15'		Shoe Joint		15'		Cement Amount Ordered 150 80/20 3% cc 2% gel							
Meas Line				Displace		14 1/4 BLS											
EQUIPMENT												Common				120	
Pumptrk		5	No.	Cementer		Tom		Helper				Poz. Mix		30			
Bulktrk		1	No.	Driver		Mike		Driver				Gel.		3			
Bulktrk		P.U.	No.	Driver		Rick		Driver				Calcium		6			
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		159									
						Mileage											
FLOAT EQUIPMENT												Guide Shoe					
						Centralizer											
						Baskets											
						AFU Inserts											
						Float Shoe											
						Latch Down											
						Pumptrk Charge		Surface									
						Mileage		37									
X Signature												Tax					
												Discount					
												Total Charge					

Thanks

James Doherty

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 1804

Date	10-14-19	Sec.	15	Twp.	10	Range	20	County	Rooks	State	KS	On Location		Finish	5:00pm
								Location							
								Palco 45 AWD 1 1/2 E Sinto							

Lease	Brueggeman	Well No.	1-15	Owner	To Quality Oilwell Cementing, Inc.
Contractor	Martin #8		Bottom Stage	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	DV Job			Charge To	Patterson Energy
Hole Size	7 7/8	T.D.	3805	Street	
Csg.	5 1/2 17#	Depth	3803	City	
Tbg. Size		Depth		State	
Tool	DV Tool #52	Depth	1635	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	43.50	Shoe Joint	43.50	Cement Amount Ordered 150 lbm 10% salt	
Meas Line		Displace	87 1/4 BBL	5% Gilsontite 500 gal mud clear & 200 BBL KCL	

EQUIPMENT

Pumptrk	18	No.	Cementor		Common	150
			Helper		Poz. Mix	
Bulktrk	9	No.	Driver		Gel.	
			Driver		Calcium	KCL 2 gal
Bulktrk	21	No.	Driver		Hulls	
			Driver		Salt	13

JOB SERVICES & REMARKS

Remarks:		Salt	13
Rat Hole		Flowseal	
Mouse Hole		Kol-Seal	750A
Centralizers		Mud CLR 48	500 gal
Baskets		CFL-117 or CD110 CAF 38	
D/V or Port Collar		Sand	
	5 1/2 set @ 3803 Baffle @ 3759.50	Handling	170
	Bst. Circulation - Pump 500 gal mud clear	Mileage	
	+ 10 BBL KCL. Mix 1500 gal + Displace Plug.		
	Displace with 30 BBL water 38 BBL		
	Mud + 6 BBL water to land plug.		
	12 1/2 10 BBL KCL. Plug landed @ 1500#.		
	Leak pressure test.		

FLOAT EQUIPMENT

		Guide Shoe	
		Centralizer	7
		Baskets	3
		AFU Inserts	DV Tool
		Float Shoe	1
		Latch Down	1

Drop Darts Open DV Tool.

Thanks

Bottom Stage

		Pumptrk Charge	prod string
		Mileage	
		Tax	
		Discount	
		Total Charge	

X Signature *Ann Weaverlong*

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 1805

Date	10-14-19	Sec.	15	Twp.	10	Range	20	County	Rooks	State	KS	On Location		Finish	6:45 AM
Lease								Well No.		Owner					
Brueggeman								1-15		To Quality Oilwell Cementing, Inc.					
Contractor								Top Stage		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Muntin #8										Charge To					
Type Job										Patterson Energy					
DU Job															
Hole Size								T.D.		Charge To					
7 7/8								3805		Patterson Energy					
Csg.								Depth		Street					
5 1/2 17#								3803							
Tbg. Size								Depth		City					
										State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
D/T Tool								11035							
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered					
										350 @ 20 QMDC 1/4 #					
Meas Line								Displace							
								38 BCL							
EQUIPMENT															
Pumptrk								No.		Common					
18										350 @ 20 QMDC					
Cementer								Helper		Poz. Mix					
Craig								Daw							
Bulktrk								No.		Gel.					
9															
Driver								Driver		Calcium					
Michael								Lance							
JOB SERVICES & REMARKS															
Remarks:										Hulls					
Rat Hole										Salt					
30%K										Flowseal 87 #					
Mouse Hole										Kol-Seal					
15%K										Mud CLR 48					
Centralizers										CFL-117 or CD110 CAF 38					
Baskets										Sand					
D/V or Port Collar										Handling 350					
Plug Ruthok & Masebok										Mileage					
Cement 5 1/2 with 3255K										FLOAT EQUIPMENT					
Displace Plug										Guide Shoe					
Cement (circulated)										Centralizer					
Plug landed @ 1400#										Baskets					
										AFU Inserts					
										Float Shoe					
										Latch Down					
										Pumptrk Charge					
										prod string					
										Mileage 37					
										Tax					
										Discount					
										Total Charge					
Signature															

X

Signature

[Handwritten Signature]

Marc A. Downing		Geologic Report	
Consulting Petroleum Geologist		Drilling Time and Sample Log	
Operator Patterson Energy		Elevation	
Lease Brueggeman No. 1-15		KB 2185	
API # 15-163-24401-0000		DF 2184	
Field Marcotte		GL 2180	
Location 1605' FNL & 1800' FWL		Casing Record	
Sec. 15 Twp. 10s Rge. 20w		Surface 8 5/8" @ 240'	
County Rooks State Kansas		Production 5 1/2" @ 3804'	
Formation Sample tops Log Tops Datum Struct Comp		Electrical Surveys	
Top Anhydrite 1629 +556 +9		CNDL, DIL	
Base Anhydrite 1668 +517 +8		MEL	
Topeka 3202 3198 -1013 -1			
Heebner 3406 3402 -1217 FL			
Toronto 3430 3426 -1241 -2			
LKC 3443 3440 -1255 +2			
BKC 3658 3654 -1469 +4			
Arbuckle 3721 3717 -1532 +2			
Total Depth 3805 3805 -1620			
Reference Well For Structural Comparison Champlin Petroleum Co. Brueggeman #9, NE SW NW, Sec. 15-10s-20w			

Drilling Contractor Murfin #8	Commenced 10-8-19	Completed 10-13-19
Samples Saved From 3200	To RTD	
Drilling Time Kept From 3100	To RTD	
Samples Examined From 3200	To RTD	
Geological Supervision From 3200	To RTD	

Summary and Recommendations

Due to structural position, sample evaluation, and log evaluation, it was decided to set 5 1/2" production casing for completion.

Recommended perforations:
 Arbuckle: 3725-28 (First, squeeze if wet)
 3718-21
 LKC K: 3631-34
 J: 3615-19
 I: 3598-3601

Respectfully Submitted,

Marc A. Downing

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