[redacted] 1372513

Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
November 2016
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 30370
Name: Rickerson, Russell
Address 1: 4252 JOHN BROWN RD
Address 2:
City: RANTOUL State: KS Zip: 66079 + 9091
Contact Person: Russ Rickerson
Phone: (785) 869-3820
CONTRACTOR: License # 33715
Name: Town Oilfield Service
Wellsite Geologist: NA
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 #:

10/25/2017 Spud Date or Recompletion Date
10/27/2017 Date Reached TD
10/27/2017 Completion Date or Recompletion Date

API No.: 15-003-26614-00-00
Spot Description:
SW - NE - SE - NW Sec. 25 Twp. 20 S. R. 20 ☑ East ☐ West
3487 Feet from ☐ North / ☑ South Line of Section
3160 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Anderson
Lease Name: BROCK Well #: 1
Field Name:
Producing Formation: Mississippi
Elevation: Ground: 1064 Kelly Bushing: 1064
Total Vertical Depth: 1130 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 20 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: 1500 ppm Fluid volume: 20 bbls
Dewatering method used: Evaporated
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:** Karen Ritter **Date:** 11/08/2017

[redacted] 1372513

Operator Name: Rickerson, Russell Lease Name: BROCK Well #: 1

Sec. 25 Twp. 20 S. R. 20 ☑ East ☐ West County: Anderson

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 (Attach Additional Sheets)	☐ Yes	☑ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geolgist Report / Mud Logs	☐ Yes	☑ No

List All E. Logs Run:

GammaRay NeutronCCL

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Mississippi	798	GL

CASING RECORD ☑ New ☐ 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
Surface	9	7	10	20	Common	3	50/50 POZ
Production	5.625	2.875	6.4	880	Common	106	Class A 3% cc Gel

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	-			
	-			

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: 11/6/2017	Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL: Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	798	803

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
	798	803			

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Rickerson, Russell
Well Name	BROCK 1
Doc ID	1372513

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	9	7	10	20	Common	3	50/50 POZ
Production	5.625	2.875	6.4	880	Common	106	Class A 3% cc Gel

Anderson County, KS
Well:Brock # 1
Lease Owner:Rickerson

Town Oilfield Service, Inc.
(913) 294-2125

Commenced Spudding:
10/25/17

WELL LOG

Thickness of Strata	Formation	Total Depth
0-1	Soil-Clay	1
12	Lime	13
183	Shale	196
29	Lime	225
10	Shale	235
7	Shale & Lime	242
2	Lime	244
45	Shale	289
10	Lime	299
6	Shale	305
37	Lime	342
9	Shale	351
26	Lime	377
4	Shale	381
18	Lime	399
5	Shale	404
2	Lime	406
29	Shale	435
5	Sandy Shale	440
90	Shale	530
9	Sandy Shale	539
27	Shale	566
3	Lime	569
5	Shale	574
3	Lime	577
5	Shale	582
9	Lime	591
6	Shale	597
3	Sandy Shale	600
16	Sand	616
7	Shale	623
3	Sand	626
18	Shale	644
10	Lime	654
13	Shale	667
3	Lime	670
24	Shale	694
5	Lime	699
22	Shale	721
1	Lime	722

Anderson County, KS
Well:Brock # 1
Lease Owner:Rickerson

Town Oilfield Service, Inc.
(913) 294-2125

Commenced Spudding:
10/25/17

3	Shale	725
2	Lime	727
9	Shale	736
5	Lime	741
9	Shale	750
6	Sandy Shale	756
42	Shale	798
4	Sand	802
8	Shale	810
6	Sandy Shale	816
314	Shale	1130-TD

Short Cuts

TANK CAPACITY

BBLS. (42 gal.) equals D^2x.14xh
D equals diameter in feet.
h equals height in feet.

BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals BPH x PSI x .0004
BPH - barrels per hour
PSI - pounds square inch

TO FIGURE PUMP DRIVES

*** D - Diameter of Pump Sheave**
*** d - Diameter of Engine Sheave**
SPM - Strokes per minute
RPM - Engine Speed
R - Gear Box Ratio
***C - Shaft Center Distance**

D - RPMxd over SPMxR
d - SPMxRxD over RPM
SPM - RPMXD over RxD
R - RPMXD over SPMxD

BELT LENGTH - $2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$

* Need these to figure belt length

TO FIGURE AMPS: $\frac{\text{WATTS}}{\text{VOLTS}}$ = AMPS

746 WATTS equal 1 HP

Log Book

Well No. 1

Farm Brock

KS (State) Anderson (County)

25 (Section) 20 (Township) 20 (Range)

For Russ Rickerson (Well Owner)

15-003-26614

Town Oilfield Services, Inc.
1207 N. 1st East
Louisburg, KS 66053
913-710-5400

Brock Farm: Anderson County

KS State; Well No. 2

Elevation 1064

Commenced Spuding 10-25 20 17

Finished Drilling 10-27 20 17

Driller's Name Wesley Dollard

Driller's Name

Driller's Name

Tool Dresser's Name Drake Williams

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

25 20 20

(Section) (Township) (Range)

Distance from S line, 3487 ft.

Distance from E line, 3160 ft.

3 sacks

1 20' joint 7" surface pipe

12 hrs

5 5/8 borehole

2 7/8 casing

CASING AND TUBING RECORD

10" Set		10" Pulled	
8" Set		8" Pulled	
7 [redacted]" Set	20	6¼" Pulled	
4" Set		4" Pulled	
2" Set		2" Pulled	

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
847.	6	Bottle		2	7/8
880.	2	Float			
1130	TD				

Thickness of Strata	Formation	Total Depth	Remarks
0-1	soil-clay	1	
12	Lime	13	
183	Shale	196	
29	Lime	225	
10	Shale	235	
7	shale & Lime	242	
2	Lime	244	
45	Shale	289	
10	Lime	299	
6	Shale	305	
37	Lime	342	
9	Shale	351	
26	Lime	377	
4	Shale	381	
18	Lime	399	Heitha
5	Shale	404	
2	Lime	406	
29	Shale	435	
5	sandy shale	440	
90	Shale	530	
9	Sandy Shale	539	
27	Shale	566	
3	Lime	569	
5	Shale	574	
3	Lime	577	
5	Shale	582	
9	Lime	591	

591

Thickness of Strata	Formation	Total Depth	Remarks
6	Shale	597	
3	sandy shale	600	
16	Sand	616	gas odor - slight Oil Show
7	Shale	623	
3	Sand	626	grey - no Show
18	Shale	644	
10	Lime	654	
13	Shale	667	
3	Lime	670	
24	Shale	694	
5	Lime	699	
22	Shale	721	
1	Lime	722	
3	Shale	725	
2	Lime	727	
9	Shale	736	
5	Lime	741	
9	Shale	750	
6	sandy shale	756	
42	Shale	798	
4	Sand	802	broken - good Oil Show
8	Shale	810	
6	sandy shale	816	
314	Shale	1130	TD - Mississippi Lime

CEMENTING LOG

Company	Rickerson Oil	**Lease**		**Well Name/No.**	Brock #1
Type Job	Longstring	**Type & Amt Material**	Class A 3% CC 2% Gel .5lb sk Phenoseal		
Field		**Ticket Number**	50171		

CASING DATA							
Size	2.875	Type		Weight	6.4	Collar	
Casing Depths:	Top	0	Bottom	880.2			
Drill Pipe:	Size		Weight		Collars		
Open Hole:	Size	5.875	T.D. (ft)	900	P.B. to (ft)		

CAPACITY FACTORS			
Casing	Bbls/Lin. ft.	0.00579	Lin. ft./Bbl
Open Holes	Bbls/Lin. ft.		Lin. ft./Bbl
Drill Pipes	Bbls/Lin. ft.		Lin. ft./Bbl
Annulus	Bbls/Lin. ft.	0.0255	Lin. ft./Bbl
	Bbls/Lin. ft.		Lin. ft./Bbl
Perforations	From (ft)	To	Amount

CEMENT DATA					
Spacer Type	12 BBL Gelled water				
Amt.	12 Sks Yield		$ft^3/_{sk}$ Density (PPG)		

LEAD					
Pump Time (hrs)			Type	Excess	
Amt.	Sks Yield		$ft^3/_{sk}$ Density (PPG)		

TAIL					
Pump Time (hrs)			Type Class A 3% cc 2% Gel .5 PS	Excess	20%
Amt.	106 Sks Yield	1.41	$ft^3/_{sk}$ Density (PPG)		14.8

WATER						
Lead	gals/sk	Tail	6.85	gals/sk	Total (Bbls.)	17.28
Pump Trucks Used						230
Bulk Equipment						
						241
Float Equipment: Manufacturer						
Shoe: Type					Depth	
Float: Type					Depth	
Centralizers: Quantity		Plugs: Top	TRP		Bottom	
Stage Collars						
Special Equipment						
Disp. Fluid Type	Freshwater	Amt. (Bbls.)		4.95	Weight (PPG)	
Mud Type					Weight (PPG)	

COMPANY REPRESENTATIVE Russ Rickerson **CEMENTER** Jake Heard

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED/ TIME PERIOD	RATE (BBLS MIN.)	
						On loaction safety meeting
						Spot in and rig up
						Hook up to tubing
	200		5		3	Break Circulation
	200		12		3	Mix and pump gelled water
	200		3		3	Pump freshwater
	200		5		3	Pump dyed water
	180		26.61		3	Mix and pump cement
						Stop
						Wash pump and lines
						Drop plug
	300		4.95		3	Displace
	1100					Bump plug
						Release pressure
						Shut in well
						Didn't circulate to surface