KOLAR Document ID: 1463176

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 # 3728
Name: RJ Energy, LLC
Address 1: 22082 NE NEOSHO RD
Address 2:
City: GARNETT State: KS Zip: 66032 + 1918
Contact Person: Jason Kent
Phone: (785) 448-4101
CONTRACTOR: License # 3728
Name: RJ Energy, LLC
Wellsite Geologist: n/a
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 #:

2/27/2019 Spud Date or Recompletion Date
3/1/2019 Date Reached TD
3/1/2019 Completion Date or Recompletion Date

API No.: 15-207-29718-00-00
Spot Description:
SE - NW - SW - NW Sec. 24 Twp. 23 S. R. 16 ☑ East ☐ West
3328 Feet from ☐ North / ☑ South Line of Section
4836 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: Woodson
Lease Name: MURRAY TWINS Well #: 20-A
Field Name:
Producing Formation: Squirrel
Elevation: Ground: 982 Kelly Bushing: 982
Total Vertical Depth: 1020 Plug Back Total Depth: 1005
Amount of Surface Pipe Set and Cemented at: 40 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from: 0
feet depth to: 1005 w/ 125 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:** Karen Ritter **Date:** 06/14/2019

Operator Name: RJ Energy, LLC Lease Name: MURRAY TWINS Well #: 20-A

Sec. 24 Twp. 23 S. R. 16 ☑ East ☐ West County: Woodson

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☐ Yes ☑ No

Geologist Report / Mud Logs ☐ Yes ☑ No

List All E. Logs Run:

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

Name Top Datum

see log

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	9.875	7	17	40	portland	5	
Production	5.875	2.875	6.5	1005	portland	125	

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:	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:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top Bottom

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)*

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	RJ Energy, LLC
Well Name	MURRAY TWINS 20-A
Doc ID	1463176

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	9.875	7	17	40	portland	5	
Production	5.875	2.875	6.5	1005	portland	125	

HAMMERSON CORPORATION

PO BOX 189
Gas, KS 66742

Invoice

Date	Invoice #
3/3/2019	14273

Bill To

R.J. ENERGY LLC
22082 NE NEOSHO RD
GARNETT, KS 66032

P.O. No.	Terms	Project
	Due on receipt	

Quantity	Description	Rate	Amount
125	WELL MUD ($8.00 PER SACK) Well Murray 19A Ticket # 14273-14274	8.00	1,000.00T
2	TRUCKING ($50 PER HOUR)	50.00	100.00T
125	WELL MUD ($8.00 PER SACK) Well-Dennis Crotts Ticket # 14276-14277	8.00	1,000.00T
1.5	TRUCKING ($50 PER HOUR)	50.00	75.00T
125	WELL MUD ($8.00 PER SACK) Well-Murray 19I Ticket # 14278-14279	8.00	1,000.00T
1.5	TRUCKING ($50 PER HOUR)	50.00	75.00T
130	WELL MUD ($8.00 PER SACK) Well-Dennis Crotts 31 Ticket # 14280-14281	8.00	1,040.00T
1	TRUCKING ($50 PER HOUR)	50.00	50.00T
125	WELL MUD ($8.00 PER SACK) Well-Murray Twins 20A Ticket # 14282-14283	8.00	1,000.00T
1	TRUCKING ($50 PER HOUR)	50.00	50.00T
	SALES TAX	6.50%	350.35

Thank you for your business.

Total $5,740.35

RJ Energy

22082 NE Neosho Rd Garnett, Kansas 66032

Murray Twins 20-A

Start 2-27-19
Finish 3-1-19

4	soil	4	
25	clay/gravel	29	
72	shale	101	
68	lime	169	
98	shale	267	
113	lime	380	
52	shale	432	
75	lime	507	Set 40' of 7" w/5sxs
4	shale	511	Ran 1005.9' of 2 ⅞
53	lime	564	cemented to surface 125sxs
169	shale	733	
32	lime	765	
50	shale	815	
48	lime	863	
9	shale	872	
10	lime	882	
18	shale	900	
8	lime	908	
8	shale	916	
4	lime	920	
32	shale	952	
4	Sandy shale	956	
10	bkn sand	966	
3	dk sand	969	
51	shale	1020	T.D.