Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1206462

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 # 34592
Name: Kansas Resource Exploration & Development, LLC
Address 1: 9393 W 110TH ST, STE 500
Address 2:
City: OVERLAND PARK State: KS Zip: 66210 + __ __ __ __
Contact Person: Bradley Kramer
Phone: (913) 451-6758
CONTRACTOR: License # 33967
Name: Jackman, Gregory D. & Zachary D. Jackman
Wellsite Geologist: Bradley Kramer
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 #:

5/6/2014	5/7/2014	5/21/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-121-30150-00-00
Spot Description:
NW SW SE NE Sec. 23 Twp. 18 S. R. 21 ☑ East ☐ West
3135 Feet from ☐ North / ☑ South Line of Section
1155 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: Miami
Lease Name: Cartwright Well #: KR-29
Field Name:
Producing Formation: Squirrel
Elevation: Ground: 909 Kelly Bushing: 909
Total Vertical Depth: 580 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: 580
feet depth to: 0 w/ 91 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 0 ppm Fluid volume: 200 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**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Deanna Garrison **Date:** 05/23/2014

[redacted] 1206462

Operator Name: Kansas Resource Exploration & Development, LLC Lease Name: Cartwright Well #: KR-29

Sec. 23 Twp. 18 S. R. 21 ☑ East ☐ West County: Miami

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

List All E. Logs Run:

Gamma Ray/Neutron/CCL

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

Name	Top	Datum
Squirrel	491	-418

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	14	20	Portland	5	
Longstring	5.875	2.875	6.5	567.6	50/50 POZ	91	

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	-			
	-			

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 *(Amount and Kind of Material Used)*	Depth
3	491-499		

TUBING RECORD: Size: 1 Set At: 567.6 Packer At: Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 5/21/2014

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: ☑ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*

PRODUCTION INTERVAL: 491 – 499

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Jackman Oilfield Services
1 West Mulberry St.
Colony, KS 66015
620-852-3350

WELL LOG
Kansas Resource Exploration & Development, LLC
Cartwright KR-29

May 6, 2014

Thickness of Strata	Formation	Total
6	soil/clay	6
24	lime	30
7	shale	37
6	lime	43
7	red bed shale	50
38	shale	88
10	lime	98
13	shale	111
27	lime	138
11	shale	149
22	lime	171
6	shale	177
13	lime	190
141	shale	331
2	lime	333
18	sandy shale	351
8	lime	359
6	sandy lime	365
3	shale	368
8	grey sand	376
33	shale	409
4	coal	413
2	lime	415
17	shale	432
3	lime	435
1	coal	436
13	shale	449
7	lime	456
18	shale	474
1	lime	475
3	shale	478
6	lime	484

5	shale	489	
1	broken sand	490	little bleed
4	oil sand	494	good bleed
1	broken sand	495	good bleed
3	oil sand	498	light bleed
7	broken sand	505	light bleed
13	sandy shale	518	
16	shale	534	
1	lime	535	
45	shale	580	TD

Drilled a 9 7/8" hole to 19'7"
Drilled a 5 7/8" hole to 580'

Set 20' of 7" surface casing cemented with 5 sacks of portland cement
Set 567.60' of 2 7/8" round upset tubing. Baffle @ 535.9'

Cartwright KR-29

CONSOLIDATED
Oil Well Services, LLC

268003

TICKET NUMBER 47178
LOCATION Ottawa KS
FOREMAN Fred Mader

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5.7.14	4448	Cartwright * KR-29	NE 23	17	21	MI

CUSTOMER: Kansas Resources Expl & Dev.
MAILING ADDRESS: 9393 W 110th St.
CITY: Overland Park | STATE: KS | ZIP CODE: 66210

TRUCK #	DRIVER	TRUCK #	DRIVER
712	Fre Mad		
495	Har Bec		
370	Tas Ric		
558	Max Cac		

JOB TYPE Longstring | HOLE SIZE 5 7/8 | HOLE DEPTH 580 | CASING SIZE & WEIGHT 2 7/8 EUE
CASING DEPTH 567.70 | DRILL PIPE Baffle in | TUBING @ 538.90 | OTHER
SLURRY WEIGHT | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING 25' + Plug
DISPLACEMENT 3.14 BBL | DISPLACEMENT PSI | MIX PSI | RATE 5 BPM

REMARKS: Hold crew safety meeting. Establish circulation. Mix + Pump 100# Gel Flush. Mix + Pump 91 Sks 50/50 Por Mix Cement 2% Gel ½# Pheno Seal/sk. Cement to Surface. Flush pump + lines clean. Displace 2½" Rubber plug to baffle in casing. Pressure to 800# PSI. Release pressure to set float valve. Shut in Casing.

Jackman Drilling. Fred Mader

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT		UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495		1085.00
5406	15mi	MILEAGE			N/C
5402	567.70	Casing Footage			N/C
5407	½ Minimum	Ton Miles	503		184.00
5502C	1½ hr	80 BBL Vac Truck	370		150.00
1124	91 SKS	50/50 Por Mix Cement			1046.50
1118B	253#	Premium Gel			55.66
1107A	46#	Pheno Seal			62.10
		Material			1164.26
		Less 30%			-349.28
		Total Material			814.98
4402	1	2½" Rubber Plug			29.50
				2704.09	
			7.65%	SALES TAX	64.61
				ESTIMATED TOTAL	$2328.09

Completed

Ravin 3737

AUTHORIZTION T. Morrison by Phone TITLE DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this fo