Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1306716

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 # 35100
Name: R & D Oil, LLC
Address 1: 36 KINGS ARMS RD
Address 2:
City: LITTLE ROCK State: AR Zip: 72227 + __ __ __ __
Contact Person: Denney Gillet
Phone: (501) 951-7433
CONTRACTOR: License # 34223
Name: Utah Oil LLC
Wellsite Geologist: NA
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 #:

4/20/2016	4/21/2016	4/22/2016
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-059-27104-00-00
Spot Description:
NW SE NW NW Sec. 8 Twp. 18 S. R. 21 ☑ East ☐ West
4456 Feet from ☐ North / ☑ South Line of Section
4456 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: Franklin
Lease Name: Roberson Well #: 4
Field Name:
Producing Formation: Squirrel
Elevation: Ground: 1019 Kelly Bushing: 0
Total Vertical Depth: 682 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 23 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: 0 ppm Fluid volume: 0 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:** Karen Ritter **Date:** 05/16/2016

[redacted] 1306716

Operator Name: R & D Oil, LLC Lease Name: Roberson Well #: 4

Sec. 8 Twp. 18 S. R. 21 ☑ East ☐ West County: Franklin

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

List All E. Logs Run:

GammaRay/Neutron/CCL

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

Name	Top	Datum
GammaRay	20	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	23	Portland	5	60/40 POZ
Production	5.625	2.875	8	667	Portland	104	60/40 POZ

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	627-643	2" DML RTG	16

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

Date of First, Resumed Production, SWD or ENHR. 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:

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

Form	ACO1 - Well Completion
Operator	R & D Oil, LLC
Well Name	Roberson 4
Doc ID	1306716

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	23	Portland	5	60/40 POZ
Production	5.625	2.875	8	667	Portland	104	60/40 POZ

SPUD DATE:	9-20-11
FINISH DATE:	9-21-11
LEASE:	Roberson
LEASE OPERATOR:	K & B O.I
WELL:	4
API:	15-059-27104
SEC: 8	TWP: 15 RNG: 21
COUNTY:	Fr.
DRILLERS NAME:	Brad Leach
RIG #:	

UTAH OIL

2394 UTAH ROAD
RANTOUL, KS 66079

SURFACE: SIZE BIT 9 7/8 LENGTH 22.9 SIZE 7" CEMENT 5 sacks

DRILL BIT SIZE 5 7/8 LENGTH 667.15 SIZE 2 7/8 BAFFLE —

TD 682 CORED

FORMATIONS	THICKNESS	FROM	TO	FORMATION	THICKNESS	FROM	TO
Soil		0	1	Lime		595	606
Lime		1	12	Shale		606	610
Shale		12	39	Lime some oil		610	618
Lime		39	58	Lime bleeding		618	621
Sand		58	73	Shale		621	624
Shale		73	149	Shaley Lime		624	626
Lime		149	169	Sand good bleed		626	629
Shale		169	190	broken bleeding		629	630
Lime		190	193	80% sand good bleed		630	634
Shale		193	230	broken bleeding		634	635
Lime Shale		230	237	Sand good bleed		635	638
Lime		237	253	broken 60% bleed		638	639
Shale		253	262	Lolly Broken to Wet		639	642
Lime		262	275	Shale		642	682
Red Shale		275	279				
Lime		279	295	TD 682			
Shale		295	299				
Lime		299	319				
Shale		319	325				
Lime Streaks		325	338				
Shale		338	485				
Shale Lime		485	492				
Shale		492	496				
Lime		496	498				
Lime Shale		498	501				
Lime		501	513				
Sand Lime		513	525				
Sand		525	530				
Shale		530	551				
Lime		551	595				
Shale		595	595				

250 N. Water, Ste 200 - Wichita, Ks 67202

HURRICANE SERVICES INC

104 Prairie Plaza Parkway - Garnett, Ks 66032

Customer:	R and D Oil	Customer Name:	Danny Gillette	Ticket No.:	50762
Address:		AFE No.:		Date:	4/22/2016
City, State, Zip:		Job type:	cement longstring (new well)		
Service District:	Garnett, Kansas	Well Details:	5 7/8 hole 682 .. 2 7/8 casing @ 667		
Well name & No.	Roberson #4	Well Location:	Lane, KS	County: Franklin	State: KS

Equipment #	Driver	Equipment #	Driver	Equipment #	Hours			
231	Tom					TRUCK CALLED	AM/PM	8:30am
241	Amos					ARRIVED AT JOB	AM/PM	9:00am
110	Billy					START OPERATION	AM/PM	10:00am
31	Kevin					FINISH OPERATION	AM/PM	10:45am
						RELEASED	AM/PM	11:00am
						MILES FROM STATION TO WELL		15

Treatment Summary

Product/Service Code	Description	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
P01603	60/40 Pozmix Cement	sack	104.00	$12.00	$1,248.00		$698.88
P01607	Bentonite Gel	lb	179.00	$0.30	$53.70		$30.07
P01607	Bentonite Gel	lb	200.00	$0.30	$60.00		$33.60
P02000	H2O	gal	2,100.00	$0.01	$27.30		$15.29
P01631	Rubber Plug 2 7/8	ea	1.00	$30.00	$30.00		$16.80
C00102	Light Equip. One Way	mi	15.00	$1.50	$22.50		$12.60
C23103	Cement Pump	ea	1.00	$675.00	$675.00		$378.00
C00101	Heavy Equip. One Way	mi	15.00	$3.25	$48.75		$27.30
C24101	Cement Bulk Truck - Minimum	ea	1.00	$300.00	$300.00		$168.00
C11000	Vacuum Truck 80 bbl	ea	2.00	$84.00	$168.00		$94.08

TERMS: Cash in advance unless Hurricane Services Inc has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts may pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws if such laws limit interest to a lesser amount. In the event it is necessary to employ an agency and/or attorney to affect the collection of said account, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any and all discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount will become immediately due and owing and subject to collection.

X_____
CUSTOMER AUTHORIZED AGENT

	Gross:	$ 2,633.25	Net: $ 1,474.62
Total Taxable	$ 745.75	Tax Rate:	7.650%
Frac and Acid service treatments designed with intent to increase production on newly drilled or existing wells are not taxable.		Sale Tax:	$ 57.05
		Total:	$ 1,531.67

Date of Service:	4/19/2016
HSI Representative:	Tom Goodner
Customer Representative:	

Customer Comments or Concerns:

Hurricane Services appreciates any Comments, Concerns or Criticism's from our valuable customers as Safety and Customer Satisfaction are our Number 1 goal. All Comments are confidential and will be used in a constructive manner to improve our Safety and Job Performance.

TREATMENT REPORT

HURRICANE SERVICES INC

Customer:	R and D Oil	Date:	4/22/2016	SO#:	1288
Representative:					
Address:					
City, State:					
County, Zip:	Franklin				

Field Order No.:	50762	Open Hole:	5 7/8
Well Name:	Robertson #4	Casing Depth:	
Location:	Lane, KS	Casing Size:	
Formation:		Tubing Depth:	667
Type of Service:	Longstring	Tubing Size:	2 7/8
Well Type:		Liner Depth:	
Age of Well:	NEW	Liner Size:	
Packer Type:		Liner Top:	
Packer Depth:		Liner Bottom:	
Treatment Via:		Total Depth:	682

Perf Depths (ft)		Perfs
	Total Perfs	0

TIME	INJECTION RATE FLUID	INJECTION RATE N2/CO2	PRESSURE STP	PRESSURE ANNULUS	REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
9:00am					Called Out			
					Leave Shop			
9:30am					On location with casting in the hole			
					Safty Meeting			
					Spot in trucks			
10:00am					Rig up to 2 7/8 casting 6.4#			
10:17am	3.0		50.0		Started pumping 5bbl ahead			5.00
10:21am	3.0		50.0		Start pump down gel			8.00
10:23am	3.0		100.0		Start down with water to bring gel to surface			4.00
10:25am	3.0		100.0		Start down with 6bbl of dye water			6.00
					Start mixing 60/40 2% 100sx @ 14.4ppg			
10:27am	3.0		100.0		Cement up to weight started lt down behind dye			23.00
10:36am					Flush pump and lines			
10:39am	2.0		200.0		Pump down plug			4.00
10:41am			900.0		Plug landed			
10:43am					Clean up truck and flush out lines			
					4 bbl of good cement to surface			
					TOTAL:	-	-	50.00

SUMMARY

Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
3.0	1.5 bpm	900.0	750.0

PRODUCTS USED

104sx 60/40 2%gel 200#gell

Treater: Tom Goodner

Customer: R and D Oil