Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1203968

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 # 32218
Name: TDR Construction, Inc.
Address 1: PO BOX 339
Address 2:
City: LOUISBURG State: KS Zip: 66053 + 0339
Contact Person: Lance Town
Phone: (913) 837-8400
CONTRACTOR: License # 33715
Name: Town Oilfield Service
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 #:

3/27/2014	3/28/2014	3/28/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-121-29868-00-00
Spot Description:
NW NE NE NE Sec. 2 Twp. 16 S. R. 21 ☑ East ☐ West
5115 Feet from ☐ North / ☑ South Line of Section
495 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: Nuckolls Well #: 1
Field Name:
Producing Formation: Squirrel
Elevation: Ground: 996 Kelly Bushing: 0
Total Vertical Depth: 780 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 21 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: 21 w/ 5 sx cmt.

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

Chloride content: 1500 ppm Fluid volume: 80 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: 05/12/2014
☑ **Confidential Release Date:** 05/11/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 05/12/2014

[redacted] 1203968

Operator Name: TDR Construction, Inc. Lease Name: Nuckolls Well #: 1

Sec. 2 Twp. 16 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	☐ Log	Formation (Top), Depth and Datum ☐ Sample
Samples Sent to Geological Survey	☐ Yes	☑ No	Name: GammaRay	Top: Datum:
Cores Taken	☐ Yes	☑ No		
Electric Log Run	☑ Yes	☐ No		

List All E. Logs Run:

GammaRay/Neutron/CCL

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	21	Portland	6	50/50 POZ
Completion	5.6250	2.8750	8	760	Portland	118	50/50 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	663-673	2" DML RTG	10

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

Date of First, Resumed Production, SWD or ENHR. 3/28/2014

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:

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

Form	ACO1 - Well Completion
Operator	TDR Construction, Inc.
Well Name	Nuckolls 1
Doc ID	1203968

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	21	Portland	6	50/50 POZ
Completion	5.6250	2.8750	8	760	Portland	118	50/50 POZ

CONSOLIDATED
Oil Well Services, LLC

267059

TICKET NUMBER 42756
LOCATION Ottawa KS
FOREMAN Casey Kennedy

P Box 884, Chanute, KS 66720
20-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3/28/14	7841	Nuckolls #1	NE 2	16	21	MI

CUSTOMER: TDR Construction
MAILING ADDRESS: 1207 N. 1st St.
CITY: Louisburg | STATE: KS | ZIP CODE: 66053

TRUCK #	DRIVER	TRUCK #	DRIVER
729	Casken	✓	Safety Meeting
6606	CarMoo	✓	
510	SetTuc	✓	
675	KeiDet	✓	

JOB TYPE longstring | HOLE SIZE 5 5/8" | HOLE DEPTH 780' | CASING SIZE & WEIGHT 2 7/8" EUE
CASING DEPTH 760' | DRILL PIPE | TUBING baffle - 729 | OTHER
SLURRY WEIGHT | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING 31'
DISPLACEMENT 4.22 bbls | DISPLACEMENT PSI | MIX PSI | RATE 5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped ½ gal Polymer, circulated well for 1 hr to condition hole, mixed & pumped 200# Premium Gel followed by 10 bbls fresh water, mixed & pumped 118 sks 50/50 Pozmix cement w/ 2% gel per sk, cement to surface, flushed pump clean, pumped 2½ rubber plug to baffle w/ 4.22 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1085.00 ✓
5406	20 mi	MILEAGE		84.00 ✓
5402	760'	casing footage		— ✓
5407	minimum	ton mileage		368.00 ✓
5502C	2 hrs	80 Vac		200.00 ✓
1124	118 sks	50/50 Pozmix cement	13.57.00 ✓	
1118B	398 #	Premium Gel	87.56 ✓	
		materials	1444.56	
		-30%	433.37 ✓	
		subtotal		1011.19
4402	1	2½" rubber plug		29.50 ✓
1401	½ gal	Polymer		23.63 ✓
		completed	3349.27	
		7.65%	SALES TAX	81.43 ✓
			ESTIMATED TOTAL	2882.75 ✓

Ravin 3737

AUTHORIZTION No Co Rep on location 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 form

Miami County, KS
Well: Nuckolls 1
Lease Owner:TDR

Town Oilfield Service, Inc.
(913) 837-8400

Commenced Spudding:
03/27/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-5	soil/clay	5
14	lime	19
5	shale	24
11	lime	35
5	sand	40
17	lime	57
33	shale	90
21	lime	111
80	shale	191
21	lime	212
28	shale	240
5	lime	245
40	shale	285
2	lime	287
13	shale	300
11	lime	311
3	shale	314
14	lime	328
8	shale	336
23	lime	359
4	shale	363
4	lime	367
4	shale	371
6	lime	377
28	shale	405
10	laminated sand	415
70	shale	485
12	sand	497
37	shale	534
8	sand	542
3	shale	545
4	lime	549
33	shale	582
8	lime	590
15	shale	605
3	lime	608
17	shale	625
4	lime	629
24	shale	653
2	lime	655

Miami County, KS
Well: Nuckolls 1
Lease Owner:TDR

Town Oilfield Service, Inc.
(913) 837-8400

Commenced Spudding:
03/27/2014

7	shale	662
1	sand	663
2	sand	665
8	sand	673
2	sand	675
105	sandy shale	780-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 Nuckolls

KS (State) Miami (County)

2 (Section) 16 (Township) 21 (Range)

For TDR Construction (Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Nuckolls Farm: Miami County

KS State; Well No. 1

Elevation 996

Commenced Spuding March 27 20 14

Finished Drilling March 28 20 14

Driller's Name Wesley Dollard

Driller's Name

Driller's Name

Tool Dresser's Name Greg Perry

Tool Dresser's Name Stephen Scott

Tool Dresser's Name

Contractor's Name TOS

2 16 21

(Section) (Township) (Range)

Distance from S line, 5115 ft.

Distance from E line, 495 ft.

5 sacks

7 hrs

CASING AND TUBING RECORD

10" Set		10" Pulled	
8" Set		8" Pulled	
7 6¾" Set	21	6¼" Pulled	
4" Set		4" Pulled	
2" Set		2" Pulled	

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
728.	75	Baffle			
760		Float			
				2	7/8

Thickness of Strata	Formation	Total Depth	Remarks
0-5	Soil- clay	5	
14	Lime	19	
5	Shale	24	
11	Lime	35	
5	sand	40	no Oil
17	Lime	57	
33	Shale	90	redbed
21	Lime	111	
80	Shale	191	
21	Lime	212	
28	Shale	240	
5	Lime	245	
40	Shale	285	
2	Lime	287	
13	Shale	300	
11	Lime	311	
3	Shale	314	
14	Lime	328	
8	Shale	336	
23	Lime	359	
4	Shale	363	
4	Lime	367	
4	Shale	371	
6	Lime	377	Hertha
28	Shale	405	
10	laminated sand	415	Shale- no Oil
70	Shale	485	

4/55

Thickness of Strata	Formation	Total Depth	Remarks
12	Sand	497	no Oil
37	Shale	534	
8	Sand	542	no Oil
3	Shale	545	
4	Lime	549	
33	Shale	582	
8	Lime	590	
15	Shale	605	
3	Lime	608	
17	Shale	625	
4	Lime	629	
24	Shale	653	
2	Lime	655	
7	Shale	662	
1	Sand	663	odor - no show
2	Sand	665	broken - good show
8	Sand	673	solid - good saturation
2	Sand	675	broken - very little Oil
105	Sandy shale	780	TD