

1203978

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> 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 <i>(Amount and Kind of Material Used)</i>	Depth

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: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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CONSOLIDATED
Oil Well Services, LLC

267020

TICKET NUMBER 42759

LOCATION Atawa, KS

FOREMAN Casa, Kennedy

PO Box 884, Chanute, KS 66720
131-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3/31/14	7841	Nuckolls # I-1	NE 2	116	21	MI
CUSTOMER TDR Construction			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS 1207 N. 1st St			729	Cas Ken	✓ Safety Meeting	
CITY STATE ZIP CODE Louisburg KS 66653			666	Gar Moo	✓	
			548	Mik Haas	✓	

JOB TYPE longstring HOLE SIZE 5 5/8" HOLE DEPTH 780' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 762' DRILL PIPE _____ TUBING baffle - 731' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 31'
 DISPLACEMENT 4.23 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 200 # Premium Gel followed by 10 bbls fresh water, mixed & pumped 122 sks 50/50 Pozmix cement w/ 2% gelpac sk cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 4.23 bbls fresh water, pressured to 800 PSI, well held pressure for 30 min MIT, released pressure, shut in casing.

~~TO S~~ TOS supplied water

(Handwritten signature)

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1085.00 ✓
5406	20 mi	MILEAGE		84.00 ✓
5402	762'	casing footage		
5407	minimum	low mileage		368.00 ✓
5408				
1124	122 sks	50/50 Pozmix cement	1403.00 ✓	
118B	405 #	Premium Gel	89.10 ✓	
		materials	1492.10 ✓	
		-30%	447.63 ✓	
		sub total		1044.47 ✓
4402	1	2 1/2" rubber plug		29.50 ✓
		completed		
			3175.01	
		4.65%	SALES TAX	82.17 ✓
			ESTIMATED TOTAL	2693.14 ✓

AUTHORIZATION 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 for

Miami County, KS
Well: Nuckells I1
Lease Owner: TDR

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

Commenced Spudding:
03/28/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-7	soil/clay	7
18	lime	25
7	shale	32
10	lime	42
5	shale	47
17	lime	64
18	shale	82
7	sand	89
7	shale	96
20	lime	116
82	shale	198
21	lime	219
30	shale	249
5	lime	254
41	shale	295
2	lime	297
8	shale	305
12	lime	317
2	shale	319
14	lime	333
10	shale	343
22	lime	365
4	shale	369
4	lime	373
4	shale	377
6	lime	383
27	shale	410
10	sandy shale	420
70	shale	490
13	sand and sandy shale	503
34	shale	538
10	sandy shale	548
7	lime	555
32	shale	587
8	lime	595
13	shale	608
4	lime	612
10	shale	622
11	lime	633
22	shale	655

Short Cuts

TANK CAPACITY

BBL.S. (42 gal.) equals $D^2 \times h \times 14$

D equals diameter in feet.

h equals height in feet.

BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals $BPH \times PSI \times .0004$

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 - $RPM \times d$ over $SPM \times R$

d - $SPM \times R \times D$ over RPM

SPM - $RPM \times D$ over $R \times d$

R - $RPM \times D$ over $SPM \times d$

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

* Need these to figure belt length

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

746 WATTS equal 1 HP

Log Book

Well No. I 1

Farm Nackolls

KS
(State)

Miami
(County)

2
(Section)

16
(Township)

21
(Range)

For TDR
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East
Louisburg, KS 66053
913-710-5400

Thickness of Strata	Formation	Total Depth	Remarks
0-7	soil-clay	7	
18	Lime	25	
7	Shale	32	
10	Lime	42	
5	Shale	47	
17	Lime	64	
18	Shale	82	
7	Sand	89	No Oil
7	Lime Shale	96	
20	Lime	116	
82	Shale	198	
21	Lime	219	
30	Shale	249	
5	Lime	254	
41	Shale	295	
2	Lime	297	
8	Shale	305	
12	Lime	317	
2	Shale	319	
14	Lime	333	
10	Shale	343	
22	Lime	365	
4	Shale	369	
4	Lime	373	
4	Shale	377	
6	Lime	383	Hertha
27	Shale	410	

410

Thickness of Strata	Formation	Total Depth	Remarks
10	Sandy shale	420	No Oil
70	Shale	490	
13	Sand, Sandy shale	503	No Oil
34	Shale	537	
10	Sandy shale	548	No Oil
7	Lime	555	
32	Shale	587	
8	Lime	595	
13	Shale	608	
4	Lime	612	
10	Shale	622	
11	Lime	633	
22	Shale	655	
1	Lime	656	
2	Shale	658	
2	Lime	660	
6	Shale	666	
4	Sand	670	No Oil
2	Sand	672	Broken
5	Sand	677	Solid
5	Sand	682	Broken
14	Sandy shale	696	
84	Shale	780	TD