



KANSAS CORPORATION COMMISSION 1104296
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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) 710-5400
CONTRACTOR: License # 33715
Name: Town Oilfield Service
Wellsite Geologist: NA
Purchaser:

API No. 15 - 15-059-26282-00-00

Spot Description:
SE SW NW NW Sec. 4 Twp. 16 S. R. 21 ☒ East ☐ West
4180 Feet from ☐ North / ☒ South Line of Section
4635 Feet from ☒ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☒ SE ☐ SW

County: Franklin

Lease Name: West Lidikay Well #: 77

Field Name: Paola-Rantoul

Producing Formation: Squirrel

Elevation: Ground: 1005 Kelly Bushing: 0

Total Depth: 880 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: 0
feet depth to: 21 w/ 3 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 #:

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
☐ Conv. to GSW

☐ Plug Back: Plug Back Total Depth

☐ Commingled Permit #:

☐ Dual Completion Permit #:

☐ SWD Permit #:

☐ ENHR Permit #:

☐ GSW Permit #:

11/20/2012 11/21/2012 11/21/2012

Spud Date or Date Reached TD Completion Date or Recompletion Date

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

- ☐ Letter of Confidentiality Received
Date:
☐ Confidential Release Date:
☒ Wireline Log Received
☐ Geologist Report Received
☐ UIC Distribution
ALT ☐ I ☒ II ☐ III Approved by: Deanna Garrison Date: 12/13/2012



1104296

Operator Name: TDR Construction, Inc. Lease Name: West Lidikay Well #: 77
 Sec. 4 Twp. 16 S. R. 21 ☒ East ☐ West County: Franklin

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☒ No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey ☐ Yes ☒ No Cores Taken ☐ Yes ☒ No Electric Log Run ☒ Yes ☐ No Electric Log Submitted Electronically ☒ Yes ☐ No <i>(If no, Submit Copy)</i> List All E. Logs Run: GammaRay/Neutron/CCL	☐ Log Formation (Top), Depth and Datum ☐ Sample Name Top Datum GammaRay
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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	3	50/50 POZ
Completion	5.6250	2.8750	8	800	Portland	116	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				

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	754.0-762.0	2" DML RTG	8

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 <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> ☐ Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Franklin County, KS
Well: W. Lidikay 77
Lease Owner: L L

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

Commenced Spudding:
11/20/2012

WELL LOG 15-059-26222-20 00

Thickness of Strata	Formation	Total Depth
27	Soil-Clay	27
5	Lime	32
2	Shale	34
16	Lime	50
7	Shale	57
12	Lime	69
3	Shale	71
1	Lime	72
3	Shale	75
5	Lime	80
7	Sandy Lime	87
6	Lime	93
44	Shale	137
18	Lime	155
6	Shale	161
9	Sandy Shale	170
61	Shale	231
20	Lime	251
4	Shale	255
10	Sandy Shale	265
14	Shale	279
7	Lime	286
20	Shale	306
2	Lime	308
35	Shale	343
7	Lime	350
3	Shale	353
12	Lime	365
9	Shale	374
23	Lime	397
4	Shale	401
5	Lime	406
3	Shale	409
5	Lime	414
5	Shale	419
6	Sand	425
4	Sandy Shale	429
12	Shale	441
4	Sand	445
4	Sandy Shale	449

Franklin County, KS
Well: W. Lidikay 77
Lease Owner: L L

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

Commenced Spudding:
11/20/2012

16	Shale	465
55	Sandy Shale	520
17	Shale	537
3	Sand	540
4	Sand	544
3	Broken Sand	547
32	Shale	579
5	Sand	584
7	Shale	591
4	Lime	595
7	Shale	602
2	Lime	604
6	Lime	610
4	Coal	614
3	Shale	617
5	Lime	622
12	Shale	634
3	Lime	637
10	Shale	647
7	Lime	654
3	Lime	657
18	Shale	675
2	Lime	677
6	Shale	683
1	Sand	684
2	Sand	686
4	Sand	690
2	Sand	692
4	Sand	696
1	Sand	697
1	Sand	698
2	Sand	700
1	Sand	701
2	Sand	703
5	Sandy Shale	708
2	Shale	710
15	Sandy Shale	725
23	Shale	748
3	Sandy Shale	751
4	Shale	755
7	Sand	762
4	Sandy Shale	766
28	Shale	794
7	Sand	801
6	Sandy Shale	807
2	Sand	809
4	Red Bed	813

Franklin County, KS
Well: W. Lidikay 77
Lease Owner: L L

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

Commenced Spudding:
11/20/2012

2	Shale	815
5	Sand	820
28	Shale	848
2	Sand	850
20	Shale	870
5	Sand	875
5	Shale	880-TD

Short Cuts

TANK CAPACITY

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

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. 77

Farm West Lodikey

KS Beauclerk
(State) (County)

14 16 21
(Section) (Township) (Range)

For TDP Construction
(Well Owner)

Town Oilfield Services, Inc.

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

West Kidder Farm: Crawford County

KS State; Well No. 77

Elevation 1005

Commenced Spuding 11-20 2012

Finished Drilling 11-21 2012

Driller's Name And Weir

Driller's Name _____

Driller's Name _____

Tool Dresser's Name Brandon Stone

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name TOS

4 16 21

(Section)	(Township)	(Range)
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Distance from S line, 4180 ft.

Distance from E line, 463.5 ft.

0692-5700-8hrs

2. Seals

**CASING AND TUBING
RECORD**

10'' Set _____ **10'' Pulled** _____

6 3/4" Set 21' 8" Pulled

6 1/4" Set _____ 6 1/4" Pulled _____

4" Set 1 1/2 4" Pulled 1 1/2

ZK Ser 7844 Dr. G. G. G. Pulled

819 TD

CASING AND TUBING MEASUREMENTS

[illegible]

Thickness of Strata	Formation	Total Depth	Remarks
27	soil clay	27	
5	lime	32	
2	shale	34	
16	lime	50	
7	shale	57	Dark
12	lime	69	
3	shale	71	
1	lime	72	
3	shale	75	
5	lime	80	
7	sandy lime	87	
6	lime	93	
44	shale	137	
18	lime	155	
6	shale	161	
9	sandy shale	170	
61	shale	231	
20	lime	251	
4	shale	255	
10	sandy shale	265	
14	shale	279	
7	lime	286	
20	shale	306	
2	lime	308	
25	shale	343	
7	lime	350	
3	shale	353	

Thickness of Strata	Formation	353 Total Depth	Remarks
12	lime	365	
9	shale	374	
23	lime	397	
4	shale	401	
5	lime	406	
3	shale	409	
5	lime	414	Harder
5	shale	419	
6	sand	425	no oil
4	sandy shale	429	
12	shale	441	
4	sand	445	no oil
4	sandy shale	449	
16	shale	465	
55	sandy shale	520	
17	shale	537	
3	sand	540	no oil
4	sand	544	odor, very little oil + bleeding
3	broken sand	547	no oil
32	shale	579	
5	sand	584	no oil
7	shale	591	
4	lime	595	
7	shale	602	
2	lime	604	
6	lime + shale	610	
4	oil	614	

4

5

614			
Thickness of Strata	Formation	Total Depth	Remarks
3	shale	617	
5	lime	622	
12	shale	634	
3	lime	637	
10	shale	647	
7	lime & shale	654	
3	lime	657	
18	shale	675	
2	lime	677	
6	shale	683	
1	sand	684	Broken sand, no o.i.
2	sand	686	10% - 15% o.i., odor
4	sand	690	no o.i.
2	sand	692	10% - 25% o.i.
4	sand	696	no o.i.
1	sand	697	10%
1	sand	698	no
2	sand	700	10%
1	sand	701	no o.i.
2	sand	703	15% - 20%
5	sandy shale	708	no o.i.
2	shale	710	
15	sandy shale	725	
23	shale	748	
3	sandy shale	751	
4	shale	755	
7	sand	762	oil sand, grey mud



**FIELD TICKET & TREATMENT REPORT
CEMENT**

TICKET NUMBER 38936
LOCATION Ottawa, KS
FOREMAN Casper Kennedy

DATE		CUSTOMER #	WELL NAME & NUMBER		SECTION	TOWNSHIP	RANGE	COUNTY
11/21/12			West Lid: Kay # 77		NW 4	16	21	FR
CUSTOMER L+L Energy					TRUCK #			
MAILING ADDRESS 120 Shoreline Dr					DRIVER			
CITY Louisburg		STATE KS	ZIP CODE 66053		481	Cashen	✓	Safety Meeting
					660	Ber Moo	✓	
					558	BreMan	✓	

JOB TYPE <u>10m string</u>	HOLE SIZE <u>5 5/8"</u>	HOLE DEPTH <u>819'</u>	CASING SIZE & WEIGHT <u>5 7/8" EUE</u>
CASING DEPTH <u>8000</u>	DRILL PIPE	TUBING <u>battle - 784'</u>	OTHER
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING <u>16'</u>
DISPLACEMENT <u>4.54 bbls</u>	DISPLACEMENT PSI	MIX PSI	RATE <u>4.5 bpm</u>

REMARKS: held, safety meeting, established circulation, mixed & pumped 100 # Premium Gel followed by 10 bbls fresh water, mixed & pumped 11 @ 50/50 Pozumix cement w/ 2% gel per st, cement to surface, finished pump down, pumped 2 1/2" rubber plug to ~~annular~~ bottle w/ 4.54 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

[illegible]

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 form.

254924