KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1098039

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: Lnace Town
Phone: (913) 710-5400
CONTRACTOR: License # 32218
Name: TDR Construction, Inc.
Wellsite Geologist: NA
Purchaser:

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [x] 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 #:

10/11/2012	10/12/2012	10/19/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-059-26219-00-00
Spot Description:
NE - SW - SE - NW Sec. 4 Twp. 16 S. R. 21 [x] East [ ] West
3135 Feet from [ ] North / [x] South Line of Section
3465 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [ ] NW [x] SE [ ] SW
County: Franklin
Lease Name: West Lidikay Well #: 62
Field Name: Paola-Rantoul
Producing Formation: Squirrel
Elevation: Ground: 1014 Kelly Bushing: 0
Total Depth: 780 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 20 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] 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: 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

- [ ] **Letter of Confidentiality Received**
  Date:
- [ ] **Confidential Release Date:**
- [x] **Wireline Log Received**
- [ ] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [ ] I [x] II [ ] III **Approved by:** Deanna Garrison **Date:** 05/08/2013

Side Two

[redacted]

1098039

Operator Name: TDR Construction, Inc. Lease Name: West Lidikay Well #: 62

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
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No
Electric Log Run ☑ Yes ☐ No
Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

GammaRay/Neutron/CCL

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

Name	Top	Datum
GammaRay		

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	20	Portland	2	50/50 POZ
Completion	5.6250	2.8750	8	765	Portland	120	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

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

Franklin County, KS
Well:West Lidikay 62
Lease Owner: TDR

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

Commenced Spudding:
10/11/2012

15-059-24219-00-00

WELL LOG

Thickness of Strata	Formation	Total Depth
17	Soil-Clay	17
19	Shale	19
7	Lime	26
3	Shale	29
16	Lime	45
7	Shale	52
13	Lime	65
3	Shale	68
20	Lime	88
37	Shale	125
19	Lime	144
76	Shale	220
22	Lime	242
27	Shale	269
7	Lime	276
23	Shale	299
2	Lime	301
16	Shale	317
1	Lime	318
17	Shale	335
21	Lime	356
9	Shale	365
22	Lime	387
4	Shale	391
5	Lime	396
3	Shale	399
6	Lime	405
37	Shale	442
4	Broken Sand	446
4	Sandy Shale	450
70	Shale	520
4	Sand	524
6	Sand	530
26	Shale	556
3	Lime	559
13	Shale	572
9	Lime	581
14	Shale	595
6	Lime	601
10	Shale	611

Franklin County, KS
Well:West Lidikay 62
Lease Owner: TDR

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

Commenced Spudding:
10/11/2012

9	Lime	620
11	Shale	631
3	Lime	634
10	Shale	644
3	Lime	647
4	Shale	651
2	Lime	653
27	Shale	680
2	Sand	682
2	Sand	684
3	Sand	687
2	Sand	689
2	Sand	691
3	Sand	694
4	Sandy Shale	698
82	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. 62

Farm West Lidikay

KS (State) Franklin (County)

04 (Section) 16 (Township) 21 (Range)

For TDR Construction (Well Owner)

Town Oilfield Services, Inc.
1207 N. 1st East
Louisburg, KS 66053
913-710-5400

West Udike Farm: Franklin County

KS State; Well No. 62

Elevation 1014

Commenced Spuding 10 - 11, 20 12

Finished Drilling 10 - 12, 20 12

Driller's Name Chad Weaver

Driller's Name

Driller's Name

Tool Dresser's Name Brandon Steve

Tool Dresser's Name Cole Helcow

Tool Dresser's Name

Contractor's Name TDS

04	16	21
(Section)	(Township)	(Range)

Distance from S line, 3135 ft.

Distance from E line, 3465 ft.

0488 - 0445 - 7hrs

2 - sacks

CASING AND TUBING RECORD

10" Set		10" Pulled	
6 5/8 Set	20'	8" Pulled	
6¼" Set		6¼" Pulled	
4" Set		4" Pulled	
2" Set	7?? 75	2" Pulled	

734 35 Baffle

780 TD

Thickness of Strata	Formation	Total Depth	Remarks
17	soil/clay	17	
19	shale	19	
7	Lime	26	
3	shale	29	
16	Lime	45	
7	shale	52	
13	Lime	65	
3	shale	68	
20	Lime	88	
37	shale	125	red bed 95'-97'
19	Lime	144	
76	shale	220	with some lime seams
22	Lime	242	
27	shale	269	
7	Lime	276	
23	shale	299	
2	Lime	301	
16	shale	317	
1	Lime	318	
17	shale	335	
21	Lime	356	
9	shale	365	
22	Lime	387	
4	shale	391	
5	Lime	396	
3	shale	399	
6	Lime	405	Herthe

WOS

Thickness of Strata	Formation	Total Depth	Remarks
37	Shale	1142	
4	Broken sand	446	no oil
4	sandy shale	1450	
70	shale	520	
4	sand	524	no oil
6	sand	530	odor, little oil, slight bleed
26	shale	556	
3	Lime	559	
13	shale	572	
9	Lime	581	
14	shale	595	
6	Lime	601	
10	shale	611	
9	Lime	620	
11	shale	631	
3	Lime	634	
10	shale	644	
3	Lime	647	
4	shale	651	
2	Lime	653	
27	shale	680	
2	sand	682	no oil, shows of odor
2	sand	684	20% no bleed
3	sand	687	2%
2	sand	689	50% slight bleed
2	sand	691	5%
3	sand	694	no oil

6614

Thickness of Strata	Formation	Total Depth	Remarks
4	Sand, shale	698	no oil
82	Shale	780	TD

CONSOLIDATED
Oil Well Services, LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 35040
LOCATION Ottawa KS
FOREMAN Fred Mader

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10/12/12	7841	W. Liddicoat # 62	NW 4	16	21	FR

CUSTOMER: TDR Construction
MAILING ADDRESS: P. O. Box
CITY: Louisburg | STATE: KS | ZIP CODE: 66053

TRUCK #	DRIVER	TRUCK #	DRIVER
506	Fre Mad	Safety	Mike
495	Kei Kar	JC	
503	Dan Det	DD	

JOB TYPE Long String HOLE SIZE 5 7/8 HOLE DEPTH 780 CASING SIZE & WEIGHT 2 7/8 EUE
CASING DEPTH 765 DRILL PIPE Baffle in TUBING @ 734 OTHER
SLURRY WEIGHT SLURRY VOL WATER gal/sk CEMENT LEFT in CASING 2½" Plug + 31'
DISPLACEMENT 4.27 BBL DISPLACEMENT PSI MIX PSI RATE 5 BPM

REMARKS: Establish pump rate. Mix + Pump 100# Gel Flush. Mix + Pump 120.5 sks 50/50 Poz Mix Cement 2% Gel Cement to Surface. Flush pump + lines clean. Displace 2½" Rubber plug to casing TD. Pressure to 800# PSI. Release pressure to set float valve. Shut in Casing

Customer Supplied Water
TDS Drilling

Fred Mader

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE 495		1030.00
5406	20 mi	MILEAGE		80.00
5402	765'	Casing Footage		N/C
5407	Minimum	Ton Miles 503		350.00
1124	120 sks	50/50 Poz Mix Cement		1314.00
1118B	302#	Premium Gel		63.42
4402	1	2½" Rubber Plug		28.00
		7.8%	SALES TAX	109.62
			ESTIMATED TOTAL	2975.04

Ravin 3737

AUTHORIZTION Stephen Scott 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.

253701