



KANSAS CORPORATION COMMISSION 1103142
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: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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 #: _____

<u>11/23/2012</u>	<u>11/26/2012</u>	<u>11/26/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-059-26283-00-00

Spot Description: _____
NW SW NW NW Sec. 4 Twp. 16 S. R. 21 East West

4540 Feet from North / South Line of Section

5115 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 #: 78

Field Name: _____

Producing Formation: Squirrel

Elevation: Ground: 1011 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 No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: 0
feet depth to: 20 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 #: _____

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 Garriso Date: 12/13/2012



1103142

Operator Name: TDR Construction, Inc. Lease Name: West Lidikay Well #: 78
 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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: GammaRay/Neutron/CCL	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum GammaRay
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CASING RECORD <input checked="" 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
Surface	9	7	10	20	Portland	3	50/50 POZ
Completion	5.6250	2.8750	8	754	Portland	111	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 <i>(Amount and Kind of Material Used)</i>	Depth
3	700-720	2" DML RTG	20

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Franklin County, KS
 Well: W. Lidikay 78
 Lease Owner: L L

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

Commenced Spudding:
 11/23/2012

WELL LOG

15-059-26283 00-00

Thickness of Strata	Formation	Total Depth
0-33	Soil-Clay	33
5	Lime	38
3	Shale	41
15	Lime	56
7	Shale	63
10	Lime	73
8	Shale	81
16	Lime	97
51	Shale	148
17	Lime	165
75	Shale	240
22	Lime	262
26	Shale	288
7	Lime	295
21	Shale	316
1	Lime	317
19	Shale	336
1	Lime	337
14	Shale	351
7	Lime	358
3	Shale	361
12	Lime	373
9	Shale	382
22	Lime	404
5	Shale	409
4	Lime	413
4	Shale	417
5	Lime	422
118	Shale	540
2	Sandy Shale	542
3	Sand	545
4	Sand	549
3	Sand	552
48	Sandy Shale	600
7	Lime	607
8	Shale	615
3	Lime	618
10	Shale	628
5	Lime	633
15	Shale	648

Short Cuts

TANK CAPACITY

BBLs. (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 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 - $RPM \times d$ 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. 78

Farm West L. L. Key

KS Franklin
 (State) (County)

4 16 21
 (Section) (Township) (Range)

For TDK construction
 (Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Thickness of Strata	Formation	Total Depth	Remarks
0-33	so. l - clay	33	
5	Lime	38	
3	Shale	41	
15	Lime	56	
7	Shale	63	
10	Lime	73	
8	Shale	81	
16	Lime - shells	97	
51	shale	148	
17	Lime	165	
75	Shale	240	
22	Lime	262	
26	Shale	288	
7	Lime	295	
21	shale	316	
1	Lime	317	
19	Shale	336	
1	Lime	337	
14	Shale	351	
7	Lime	358	
3	Shale	361	
12	Lime	373	
9	Shale	382	
22	Lime	404	
5	Shale	409	
4	Lime	413	
4	Shale	417	

417

Thickness of Strata	Formation	Total Depth	Remarks
5	Lime	422	Hertha
118	shale	540	
2	Sandy shale	542	
3	sand	545	no oil
4	sand	549	good show
3	sand & sandy shale	552	no oil
48	sandy shale	600	
7	Lime	607	
8	shale	615	
3	Lime	618	
10	shale	628	
5	Lime	633	
15	shale	648	
3	Lime	651	
4	shale	660	
4	Lime	664	
3	shale	667	
5	Lime	672	
16	shale	688	
3	Lime	691	
6	shale	697	
6	sandy shale	703	
3	sand & lime	706	
1	sand	707	broken - 50% oil
1	sand	708	solid oil
2	sand	710	broken 10% oil
6	sand	716	solid oil

