

KANSAS CORPORATION COMMISSION 1094101
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

OPERATOR: License # 34708
Name: Lowe's Arena, LLC
Address 1: 34474 JINGO RD
Address 2: _____
City: PAOLA State: KS Zip: 66071 +
Contact Person: James Lowe
Phone: (913) 244-4203
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
☐ Conv. to GSW

☐ Plug Back: _____ Plug Back Total Depth _____
☐ Commingled Permit #: _____
☐ Dual Completion Permit #: _____
☐ SWD Permit #: _____
☐ ENHR Permit #: _____
☐ GSW Permit #: _____

8/28/2012	8/29/2012	8/30/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-059-26157-00-00
Spot Description: _____
NW SE NW SW Sec. 17 Twp. 16 S. R. 21 ☒ East ☐ West
1795 Feet from ☐ North / ☒ South Line of Section
4490 Feet from ☒ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☒ SE ☐ SW

County: Franklin

Lease Name: Lowe Well #: 3

Field Name: _____

Producing Formation: Bartlesville

Elevation: Ground: 973 Kelly Bushing: 0

Total Depth: 819 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: _____
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 Garrison Date: 12/19/2012

1094101

Operator Name: Lowe's Arena, LLCLease Name: LoweWell #: 3Sec. 17 Twp. 16 S. R. 21 ☒ East ☐ WestCounty: 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:

☐ 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	3	50/50 POZ
Completion	5.6250	2.8750	8	790	Portland	115	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	664.0-670.0	2" DML RTG	6

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: ☐ Yes ☐ No
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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
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DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease (If vented, Submit ACO-18.)	☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled (Submit ACO-5) (Submit ACO-4)	
	☐ Other (Specify) _____	

Franklin County, KS
Well: Lowe # 3
Lease Owner: Lowe Arena

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

Commenced Spudding:
8/28/2012

WELL LOG

Thickness of Strata	Formation	Total Depth
11	Soil-Clay	11
5	Lime	16
2	Shale	18
18	Lime	36
7	Shale	43
10	Lime	53
5	Shale	58
19	Lime	77
40	Shale	117
21	Lime	138
72	Shale	210
21	Lime	231
27	Shale	258
5	Lime	263
26	Shale	289
5	Lime	294
29	Shale	323
22	Lime	345
8	Shale	353
24	Lime	377
4	Shale	381
13	Lime	394
44	Shale	438
12	Sand	450
54	Shale	504
4	Sand	508
4	Sand	512
3	Sandy Shale	515
36	Shale	551
6	Lime	557
57	Shale	614
3	Lime	617
23	Shale	640
10	Lime	650
5	Shale	655
7	Lime	662
1	Sand	663
1	Sand	664
1	Sand	665
1	Sand	666

Franklin County, KS

Well: Lowe # 3

Lease Owner: Lowe Arena

Town Oilfield Service, Inc.

(913) 837-8400

Commenced Spudding:

8/28/2012

[illegible]

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. 3

Farm Louis

KS Franklin
(State) (County)

17 16 21
(Section) (Township) (Range)

For Louis's Avenue
(Well Owner)

20 ft. ah Surface
6'1/4 @ \$8.00

Town Oilfield Services, Inc.

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

Lower Farm: Cumtlin County
KS State; Well No. 3

Elevation 950

Commenced Spuding 5-28 2012

Finished Drilling 8-29, 2012

Driller's Name Chad Weaver

Driller's Name _____

Driller's Name _____

Tool Dresser's Name Bender Stone

Tool Dresser's Name C. L. Holcom

Tool Dresser's Name _____

Contractor's Name TOS

17	16	21
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(Section)	(Township)	(Range)
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Distance from 5 line, 1775 ft.

Distance from E line, 4800 ft.

0030 - 0240 - 104.8

3 sacks

CASING AND TUBING RECORD

10" Set 10" Pulled

874 Set 20 8" Pulled

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

4" Set 4" Pulled

2" Set 79045 2" Pulled

2" Set $\frac{790.5}{819.70}$

CASING AND TUBING MEASUREMENTS

[illegible]

Thickness of Strata	Formation	Total Depth	Remarks
11	soil/clay	11	
5	lime	16	
2	shale	18	
18	lime	36	
7	shale	43	
10	lime	53	
5	shale	58	
19	lime	77	
40	shale	117	
21	lime	138	
72	shale	210	
21	lime	231	
27	shale	258	
5	lime	263	
26	shale	289	
5	lime	294	
29	shale	323	
22	lime	345	
8	shale	353	
24	lime	377	
4	shale	381	
13	lime	394	Harder
44	shale	438	
12	sand	450	no oil
54	shale	504	
4	sand	508	no oil
4	sand	512	odor, some oil 10%-20%

Thickness of Strata	Formation	Total Depth	Remarks
		512	
3	sandy shale	515	no o.i.
36	shale	551	
6	lime	557	
57	shale	614	
3	lime	617	
23	shale	640	
10	lime	650	
5	shale	655	
7	lime	662	
1	sand	663	2% water, very slight bleed
1	sand	664	15% - 20%
1	sand	665	40%
1	sand	666	75%
1	sand	667	40%
1	sand	668	25%
2	sand	670	10% - 15%
3	sand	673	no o.i.
6	sandy shale	679	679
34	shale	713	
10	sandy shale	723	
7	shale	730	
7	sand	737	solid, no bleed
64	shale	801	
10	sand	811	no oil water
3	sandy shale	814	TO



FIELD TICKET & TREATMENT REPORT

TICKET NUMBER 39617
LOCATION Ottawa KS
FOREMAN Fred Mader

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6/20/12	7984	Lowe #3	SW 20	16	20	FR
CUSTOMER Frost Town Oil Field Service			PROPERTY			
MAILING ADDRESS P.O. Box 339			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			STATE	ZIP CODE		
Louisburg			Ks	64553		
			506	Frost	Safety	MA
			495	Har	HB	
			558	Brown	BM	

JOB TYPE <u>Long string</u>	HOLE SIZE <u>5 7/8</u>	HOLE DEPTH <u>219</u>	CASING SIZE & WEIGHT <u>2 7/8 EUE</u>
CASING DEPTH <u>790</u>	DRILL PIPE <u>Buttfile</u>	TUBING @ <u>759</u>	OTHER _____
SLURRY WEIGHT _____	SLURRY VOL _____	WATER gal/wk _____	CEMENT LEFT in CASING <u>2 1/2' plug + 31'</u>
DISPLACEMENT <u>4.41</u>	DISPLACEMENT PSI _____	MIX PSI _____	RATE <u>SBPM</u>

REMARKS: Establish pump rate. Mix Pump 100" Cyl Flush. Meter Pump 115 sls 50/50 Por Mix Cement 22" Cyl Cement to Surface. Flush pump & lines clean. Displace 2 3/4" Rubber plug to baffle in casing. Pressure to 800 PSI. Release pressure to set float valve. Shut in casing.

Driller Supplied Water
Tos Drilling

Y
Fred Mader

[illegible]

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AUTHORIZATION

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.

252506