

Franklin County, KS
 Well: W. Lidikay 72
 Lease Owner: TDR

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

Commenced Spudding:
 12-4-2013

WELL LOG

Thickness of Strata	Formation	Total Depth
0-22	soil-clay	22
4	lime	26
4	shale	30
16	lime	46
7	shale	53
10	lime	63
5	shale	68/
21	lime	89
37	shale	126
18	lime	144
78	shale	222
17	lime	239
1	shale	240
3	lime	243
28	shale	271
7	lime	278
22	shale	300
1	lime	301
17	shale	318
1	lime	319
16	shale	335
8	lime	343
3	shale	346
12	lkime	358
8	shale	366
23	lime	389
4	shale	393
5	lime	398
3	shale	401
5	lime	406
118	shale	524
2	sandy lime	526
8	sand	534
48	shale	582
5	lime	587
44	shale	631
3	lime	6347
8	shale	642
12	shale and lime	654
17	shale	671

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. 72

Farm West Lidikay

KS
(State)

Franklin
(County)

4
(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 Odessa Farm: Franklin County

KS State; Well No. 72

Elevation 1017

Commenced Spuding Dec 4 2013

Finished Drilling _____ 20

Driller's Name Wesley Dollard

Driller's Name _____

Driller's Name _____

Tool Dresser's Name Greg Perry

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name TOS

4 16 21

(Section) (Township) (Range)

Distance from S line, 3465 ft.

Distance from E line, 3135 ft.

4 sacks

8 hrs

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____
8" Set _____ 8" Pulled _____
7 1/2" Set 21 6 1/2" Pulled _____
4" Set _____ 4" Pulled _____
2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Table with 6 columns: Feet, In., Feet, In., Feet, In. Handwritten entries include 757.40, 789.05, Float, and 2 7/8.

Thickness of Strata	Formation	Total Depth	Remarks
0-22	soil-clay	22	
4	lime	26	
4	shale	30	
16	lime	46	
7	shale	53	
10	lime	63	
5	shale	68	
21	lime	89	
37	shale	126	shells
18	lime	144	
78	shale	222	
17	lime	239	
1	shale	240	
3	lime	243	
28	shale	271	
7	lime	278	
22	shale	300	
1	lime	301	
17	shale	318	
1	lime	319	
16	shale	335	
8	lime	343	
3	shale	346	
12	lime	358	
8	shale	366	
23	lime	389	
4	shale	393	

393

Thickness of Strata	Formation	Total Depth	Remarks
5	Lime	398	
3	Shale	401	
5	Lime	406	
118	Shale	524	Heathy
2	sandy Lime	526	
8	sand	534	
48	Shale	582	Slight show
5	Lime	587	
44	Shale	631	
3	Lime	634	
8	Shale	642	
12	Shale & Lime	654	
17	Shale	671	
3	Lime	674	
5	Shale	679	
21	Sand	700	brown - no show
20	Sand	720	mostly solid - good saturation
100	Shale	820	±D

Town Oilfield Service

P.O Box 339 Louisburg, Ks 66053
913-837-8400

Ticket Number _____
Location _____
Foreman _____

Field Ticket & Treatment Report Cement

Date	Customer#	Well Name & Number	Section	Township	Range	County			
1-3-14		West Lid. Kay 72	4	16	21	Franklin			
Customer L & L Energy		Truck#		Driver		Truck#		Driver	
Mailing Address									
City	State	Zip Code							

Job Type long string Hole Size 5 5/8 Hole Depth 890 Casing Size & Weight 2 7/8
 Casing Depth 789 Drill Pipe _____ Tubing _____ Other Baffle 757
 Slurry Weight _____ Slurry Vol. _____ Water gal/sk _____ Cement Left in Casing _____
 Displacement 4.6 Displacement PSI 800 Mix PSI 225 Rate 4 BPM

Remarks Bigged up Extubulated back down casing, mixed & pumped 120 lbs Gel Filled 13y 100% cement Control Center Filled pump & pump plug

Account Code	Quantity or Units	Description of Services or Product	Unit Price	Total
		Pump charge		700
		Cement Truck		250
		Water Truck		150
	124	Cement	8.5	1054
	2	Gel	15	30
		plug		25
Sales Tax				
Estimated Total				2009

Authorization  Title Pro Date 1-3-14

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.