Franklin County, KS
Well:W. Lidikay 65
Lease Owner:TDR Construction

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

Commenced Spudding:
11-26-2013

WELL LOG

Thickness of Strata	Formation	Total Depth
0-29	soil/lime	29
6	lime	35
2	shale	37
17	lime	54
7	shale	61
10	lime	71
4	shale	75
21	lime	96
38	shale	134
20	lime	154
74	shale	228
22	lime	250
28	shale	278
8	lime	286
21	shale	307
1	lime	308
17	shale	325
2	lime	327
16	shale	343
7	lime	350
2	shale	352
136	lime	365
8	shale	373
23	lime	396
4	shale	400
5	lime	405
2	shale	407
5	lime	412
116	shale	528
11	sand	539
48	shale	587
3	lime	590
32	shale	622
5	lime	627
14	shale	641
2	lime	643
17	shale	660
1	lime	661
17	shale	678
4	lime	682

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4	shale	686
6	sand	692
12	sand	704
13	sand	716
44	shale	760
10	sand	770
30	sandy shale	800-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. 65

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 Lidikay Farm: Franklin County

KS State; Well No. 65

Elevation 1026

Commenced Spuding Nov 26 20 13

Finished Drilling Nov 27 20 13

Driller's Name Wesley Dollard

Driller's Name

Driller's Name

Tool Dresser's Name Greg Perry

Tool Dresser's Name Stephen Scott

Tool Dresser's Name

Contractor's Name TOS

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

Distance from S line, 3135 ft.

Distance from E line, 2805 ft.

2 sacks

7 hrs

CASING AND TUBING RECORD

10" Set		10" Pulled	
8" Set		8" Pulled	
7 3/4" Set	21	6¼" Pulled	
4" Set		4" Pulled	
2" Set		2" Pulled	

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
757.	45	Baffle			
789.	10	Float			
				2 7/8	

Thickness of Strata	Formation	Total Depth	Remarks
0-29	soil - clay	29	
6	Lime	35	
2	Shale	37	
17	Lime	54	
7	Shale	61	
10	Lime	71	
4	Shale	75	
21	Lime	96	shells
38	Shale	134	
20	Lime	154	
74	Shale	228	
22	Lime	250	
28	Shale	278	
8	Lime	286	
21	Shale	307	
1	Lime	308	
17	Shale	325	
2	Lime	327	
16	Shale	343	
7	Lime	350	
2	Shale	352	
13	Lime	365	
8	Shale	373	
23	Lime	396	
4	Shale	400	
5	Lime	405	
2	Shale	407	

407

Thickness of Strata	Formation	Total Depth	Remarks
5	Lime	412	Hertha
116	Shale	528	
11	Sand	539	no Oil
48	Shale	587	
3	Lime	590	
32	Shale	622	
5	Lime	627	
14	Shale	641	
2	Lime	643	
17	Shale	660	
1	Lime	661	
17	Shale	678	
4	Lime	682	
4	Shale	686	
6	Sand	692	broken - poor saturation
12	Sand	704	solid - poor saturation
13	Sand	716	solid - good saturation
44	Shale	760	
10	Sand	770	slight show
30	Sandy shale	800	TD

CONSOLIDATED
Oil Well Services, LLC

264456

TICKET NUMBER 44891
LOCATION Ottawa, KS
FOREMAN Casey Kennedy

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11/27/13	7841	W. Lidaka, # 65	NW4	16	21	FR

CUSTOMER: TDR Construction
MAILING ADDRESS: 1207 N 1st St
CITY: Louisburg | STATE: KS | ZIP CODE: 66053

TRUCK #	DRIVER	TRUCK #	DRIVER
729	CasKen	✓	Safety Meeting
6666	GarMac	✓	
558	Mat.Coc	✓	
370	KeiCar	✓	

JOB TYPE longstring HOLE SIZE 5 5/8" HOLE DEPTH 800' CASING SIZE & WEIGHT 2 7/8" EUE
CASING DEPTH 789' DRILL PIPE ~~TUBING~~ baffle - 757' OTHER
SLURRY WEIGHT SLURRY VOL WATER gal/sk CEMENT LEFT in CASING 32'
DISPLACEMENT 4.38 bbls DISPLACEMENT PSI MIX PSI RATE 4.5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 200 # Premium Gel followed by 10 bbls fresh water, mixed & pumped 122 sks 50/50 Pozmix cement w/ 2% gel per sk, cement to surface, flushed pump clean, pumped 2½" rubber plug to baffle w/ 4.38 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1085.00
5406	20 mi	MILEAGE		84.00
5402	789'	casing footage		—
5407	minimum	ton mileage		368.00
5502C	2 hrs	80 Vac		180.00
1124	122 sks	50/50 Pozmix cement		1403.00
1118B	405 #	Premium Gel		89.10
4402	1	2½" rubber plug		29.50
		7.65%	SALES TAX	116.41
			ESTIMATED TOTAL	3355.01

Ravin 3737

AUTHORIZTION 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.