

Johnson County, KS
Well: Thomas C 4-2
Lease Owner: ST Petroleum

Town Oilfield Service, Inc.
(913) 294-2125

Commenced Spudding:
4/24/2018

WELL LOG

Thickness of Strata	Formation	Total Depth
0-15	Soil-Clay	15
30	Lime	45
6	Shale	51
9	Lime	60
9	Shale	69
15	Lime	84
19	Shale	103
75	Lime	178
29	Shale	207
8	Lime	215
21	Shale	236
7	Lime	243
2	Shale	245
9	Lime	254
34	Shale	288
1	Lime	289
9	Shale	298
28	Lime	326
5	Shale	330
24	Lime	365
4	Shale	358
1	Lime	359
8	Shale	367
7	Lime	374
172	Shale	546
5	Lime	551
3	Shale	554
3	Lime	557
5	Shale	562
6	Lime	568
18	Shale	586
5	Lime	591
3	Shale	594
11	Lime	605
137	Shale	742
2	Lime	744
89	Shale	833
9	Sand	842
2	Sandy Shale	844
96	Shale	940-TD

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. 4-2

Farm Thomas C

KS Johnson
 (State) (County)

14 14 22
 (Section) (Township) (Range)

For ST Petroleum
 (Well Owner)

15-021-24487

Town Oilfield Services, Inc.

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

Thickness of Strata	Formation	Total Depth	Remarks
0-15	soil-clay	15	
30	Lime	45	
6	Shale	51	
9	Lime	60	
9	Shale	69	
15	Lime	84	
19	Shale	103	red bed
75	Lime	178	
29	Shale	207	
8	Lime	215	
21	Shale	236	
7	Lime	243	
2	Shale	245	
9	Lime	254	
34	Shale	288	
1	Lime	289	
9	Shale	298	
28	Lime	326	
5	Shale	330	
24	Lime	354	
4	Shale	358	
1	Lime	359	
8	Shale	367	
7	Lime	374	Hertha
172	Shale	546	
5	Lime	551	
3	Shale	554	



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

10575
 10/14/13

TICKET NUMBER 53986

LOCATION Ottawa, KS

FOREMAN Casey Kennedy

FIELD TICKET & TREATMENT REPORT
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4/30/18	7532	Thomas C # 4-2	SW 14	14	22	JO
CUSTOMER ST Petroleum Inc.						
MAILING ADDRESS 18800 Sunflower Rd						
CITY Edgerton		STATE KS	ZIP CODE 666021			
		TRUCK #	DRIVER	TRUCK #	DRIVER	
		729	Casken	✓ Safety	Maeting	
		495	HarBec	✓		
		558	AlaMad	✓		
		675	KeiDet	✓		

JOB TYPE longstring HOLE SIZE 5 5/8" HOLE DEPTH 940' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 935' DRILL PIPE _____ TUBING battle - 903' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 32'
 DISPLACEMENT 5.23 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 bpm

REMARKS: held safety maeting, established circulation, mixed + pumped 100# gel followed by 5 bbls fresh water, mixed + pumped 117 stks Pozblend 1A cement w/ 2% gel + 1/4 # Floseal per stk, cement to surface, pushed pump clean, pumped 2 1/2" rubber plug to battle w/ 5.23 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

Handwritten signature/initials

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
CE0002	30 mi	MILEAGE	214.50	
CE0711	min	you mileage	660.00	
WE0853	2 hrs	80 Vac	200.00	
		trucks	2574.50	
		- 30%	772.35	
		subtotal		1802.15
CC5840	117 stks	Pozblend 1A cement	1579.50	
CC5965	297 #	Gel	89.10	
CC6075	29 #	Floseal	58.00	
CP8176	1	2 1/2" rubber plug	45.00	
		materials	1771.60	
		- 30%	531.48	
		subtotal		1240.12
		7.975%		98.90
		SALES TAX		98.90
		ESTIMATED TOTAL		3141.17
		TOTAL		3141.17

Flavin 3737
 AUTHORIZATION [Signature] 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.