

Johnson County, KS  
Well: Thomas B #14  
Lease Owner: ST Petro

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

Commenced Spudding:  
03/04/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
7	soil/clay	7
19	sandstone	26
84	shale	110
20	lime	120
8	shale	138
8	lime	146
8	shale	154
19	lime	173
14	sandstone	187
3	lime	190
10	sandstone	200
25	lime	225
16	sandy shale and shale	241
11	lime	252
15	shale	267
23	lime	290
15	shale	305
9	lime	314
19	shale	333
8	lime	341
5	shale	346
6	lime	352
45	shale	397
24	lime	421
9	shale	430
24	lime	454
4	shale	458
3	lime	461
5	shale	466
6	lime	472
6	shale	478
26	sandy shale	504
13	sand and sandy shale	517
7	sandy shale	524
56	shale	580
11	sandy shale	591
58	shale	649
4	lime	653
3	shale	656
2	lime	658



# 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. \* 14

Farm Thomas B

KS Johnson  
 (State) (County)

31 14 22  
 (Section) (Township) (Range)

For ST Petroleum  
 (Well Owner)

## Town Oilfield Services, Inc.

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

Thomas B Farm: Johnson County

KS State; Well No. # 14

Elevation 1053 Feet

Commenced Spuding 3-14, 2014

Finished Drilling 3-6, 2014

Driller's Name Chad Weaver

Driller's Name \_\_\_\_\_

Driller's Name \_\_\_\_\_

Tool Dresser's Name Cole Helmer

Tool Dresser's Name \_\_\_\_\_

Tool Dresser's Name \_\_\_\_\_

Contractor's Name JOS

31 (Section) 14 (Township) 23 (Range)

Distance from S line, 3710 ft.

Distance from E line, 1951 ft.

3 - sticks

**CASING AND TUBING RECORD**

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_

~~8"~~ 8" Set 207 8" Pulled \_\_\_\_\_

6 1/4" Set \_\_\_\_\_ 6 1/4" Pulled \_\_\_\_\_

4" Set 994.5 4" Pulled \_\_\_\_\_

2 1/2" Set 959.5 2 1/2" Pulled \_\_\_\_\_

1040 TD

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Thickness of Strata	Formation	Total Depth	Remarks
7	soil / clay	7	
19	sandstone	26	
84	shale	110	
20	lime	130	
8	shale	138	
8	lime	146	Dark
8	shale	154	
19	lime	173	
14	sand	187	
3	lime	190	very little oil
10	sand	200	
25	lime	225	very little oil
16	sandy shale / shale	241	
11	lime	252	
15	shale	267	
23	lime	290	
15	shale	305	
9	lime	314	
19	shale	333	
8	lime	341	
5	shale	346	
6	lime	352	
45	shale	397	
24	lime	421	
9	shale	430	
24	lime	454	
4	shale	458	

Thickness of Strata	Formation	Total Depth	Remarks
3	Lime	461	
5	shale	466	
6	Lime	472	
6	shale	478	limestone
26	conglomerate	504	
13	sand & congl.	517	
7	conglomerate	524	no oil, gas, sand
56	shale	580	
11	congl. shale	591	
58	shale	649	
4	Lime	653	
3	shale	656	
2	Lime	658	
10	shale	668	
7	Lime	675	
5	sand	680	
3	congl. shale	683	very little oil
7	shale	690	
3	Lime	693	
5	shale	698	
11	limestone	709	
3	Lime	712	
27	shale	739	
2	Lime	741	red head - 715
4	shale	745	
10	sand	755	
3	congl. shale	758	gray, no oil

Thickness of Strata	Formation	Total Depth	Remarks
55	shale	512	
5	sand	518	no oil, Brown sand
6	sandy shale	524	
29	shale	553	
5	sand	558	no oil
16	shale	574	
5	sand	579	gray, no oil
2	sandy shale	581	
8	shale	589	
5	sand	594	no oil
2	sandy shale	596	
40	shale	936	
4	lime	940	
1	sandy lime	941	
2	Broken sand	943	no oil
5	sandy shale	948	
2	sand	950	Black sand (Dead) no oil
7	sand	957	gray, no oil
3	Broken sand	960	no oil
4	shale	964	
6	sand	970	gray, no oil
10	sandy shale	980	
34	shale	1014	
14	sandy shale	1028	
12	shale	1040	710



**CONSOLIDATED**  
Oil Well Services, LLC

266344

TICKET NUMBER 42555

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
3/6/14	7532	Thomas R # 14	NE 31	14	22	JO
CUSTOMER ST. Petroleum			TRUCK #			
MAILING ADDRESS 18800 Sunflower Rd			DRIVER			
CITY Edgerton			TRUCK #			
STATE KS			DRIVER			
ZIP CODE 66021			TRUCK #			
			DRIVER			

JOB TYPE overstring HOLE SIZE 5 5/8" HOLE DEPTH 1040' CASING SIZE & WEIGHT 2 7/8" EUE  
 CASING DEPTH 994' DRILL PIPE TUBING baffle - 989' OTHER  
 SLURRY WEIGHT SLURRY VOL WATER gal/sk CEMENT LEFT in CASING 5'  
 DISPLACEMENT 5.7 bbls DISPLACEMENT PSI MIX PSI RATE 5 bpm

REMARKS: held safety meeting, established circulation, mixed + pumped 300 # Premium Gel, mixed + pumped 140 sks 5/50 Pozmix cement w/ 2% gel, + 1/4 # Floreal per sk, cement to surface, flushed pump down, pumped 2 1/2" rubber plug to baffle w/ 5.7 bbls fresh water, pressured to 800 PSI, well held pressure for 30 min MIT, released pressure, shut in casing.

*PKH*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1085.00
5406	30 mi	MILEAGE		126.00
5402	994'	casing footage		
5407	minimum	ten mileage		368.00
5502C	3.5 hrs	80 Vac		350.00
1124	140 sks	5/50 Pozmix cement		1610.00
1118B	535 #	Premium Gel		117.70
1107	35 #	Floreal		86.45
4402	1	2 1/2" rubber plug		29.50
		-30% on materials		3772.65
				-544.25
				3228.40
		7.375%	SALES TAX	95.84
			ESTIMATED	
			TOTAL	3324.24

**completed**

Rev'n 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.