

Johnson County, KS  
 Well: Thomas B I-7A  
 Lease Owner: ST Petroleum

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

Commenced Spudding:  
 10-9-2013

WELL LOG

Thickness of Strata	Formation	Total Depth
6	soil/clay	6
4	sandstone	10
64	shale	74
4	lime	78
3	shale	81
14	lime	95
8	shale	103
8	lime	111
6	shale	117
20	lime	137
9	shale	146
11	sand	157
7	shale	164
23	lime	187
23	sandy shale and shale	210
3	lime	213
14	shale	227
25	lime	252
15	shale	267
9	lime	276
18	shale	294
9	lime	303
4	shale	307
6	lime	313
44	shale	357
25	lime	382
7	shale	389
23	lime	412
4	shale	416
3	lime	419
5	shale	424
6	lime	430
4	shale	434
6	sandy shale	440
100	shale	540
6	sand	546
5	sandy shale	551
52	shale	603
4	lime	607
16	shale	623



# 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. 1-7A

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



Thickness of Strata	Formation	Total Depth	Remarks
6	soil/clay	6	
4	sandstone	10	
64	shale	74	
4	Lime	78	
3	shale	81	
14	Lime	95	
8	shale	103	Dunk
8	Lime	111	
6	shale	117	
20	Lime	137	
9	shale	146	
11	sand	157	gray, no oil
7	shale	164	
23	Lime	187	
23	sandy shale or shale	210	
3	Lime	213	
14	shale	227	
25	Lime	252	
15	shale	267	
9	Lime	276	
18	shale	294	
9	Lime	303	
4	shale	307	
6	Lime	313	
44	shale	357	
25	Lime	382	
7	shale	389	



Thickness of Strata	Formation	Total Depth	Remarks
23	Lime	412	
4	shale	416	
3	Lime	419	
5	shale	424	
6	Lime	430	Mertha
4	shale	434	
6	sandy shale	440	
100	shale	540	
6	sand	546	sandy, no oil
5	sandy shale	551	
52	shale	603	
4	Lime	607	
16	shale	623	
4	Lime	627	
5	sand	632	oily, ok show
3	sandy shale	635	
9	shale	644	
3	Lime	647	
2	coal	649	
3	shale	654	
9	Lime + shale	663	
2	Lime	665	
27	shale	692	red bed - 669'
2	Lime	694	
6	shale	700	
5	sand	705	sandy, no oil
4	sandy shale	709	

Thickness of Strata	Formation	70% Total Depth	Remarks
56	shale	765	
6	Broken sand	771	odor, little oil
5	sandy shale	776	
17	shale	793	
2	lime	795	
8	shale	803	
4	sand	807	
5	shale	812	
2	lime	814	
7	shale	821	
2	sand	823	no oil
1	sand	824	odor, 30%-40%, sand bleeding
1	sand	825	50% oil
4	sand	829	solid oil
2	Broken sand	831	20%-50% oil
10	shale	843	no oil
5	sand	848	grey, no oil
25	shale	873	
5	Broken sand	878	no oil
5	shale	883	
17	oil sand	900	sand bleeding + with Broken sand



**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 44689

LOCATION Hawa, 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
10/10/13	7532	Thomas B # I-7A	NE 31	14	22	JO
CUSTOMER ST Petroleum						
MAILING ADDRESS 18800 Sunflower Rd						
CITY Edgerton		STATE KS	ZIP CODE 66402			

TRUCK #	DRIVER	TRUCK #	DRIVER
481	Car Ken	✓	Safety Meeting
666	Gar Moo	✓	
548	Mik Haa	✓	
370	Jas Ric	✓	

JOB TYPE longstring HOLE SIZE 5 7/8" HOLE DEPTH 900' CASING SIZE & WEIGHT 2 7/8" EVE  
 CASING DEPTH 877' DRILL PIPE \_\_\_\_\_ TUBING baffle - 869' OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 8'  
 DISPLACEMENT 5.03 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 121 sks 50/50 Pozmix cement w/ 2 1/2 gel, + 1/4 # Floseal per sk cement to surface, flushed pump down, pumped 2 1/2" rubber plug to baffle w/ 5.03 bbls fresh water, pressured to 800 PSI, well held pressure for 30 min MIT, released pressure, shut in casing.

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	877'	casing footage		
5407	minimum	ton mileage		368.00
5502c	2 hrs	80 Vac		180.00
1124	121 sks	50/50 Pozmix cement		1391.50
1118B	403 #	Premium Gel		88.66
1107	30 #	Floseal		74.10
4402	1	2 1/2" rubber plug		29.50
			7.375%	SALES TAX 116.80
				ESTIMATED TOTAL 3459.56

Revin 3737

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.