

Johnson County, KS
Well: Thomas B 17
Lease Owner: ST Petroleum

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

Commenced Spudding:
10/4/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
6	Soil-Clay	6
4	Sandstone	10
2	Shale	12
9	Sandstone	21
19	Shale	40
3	Lime	43
62	Shale	105
2	Lime	107
3	Shale	110
16	Lime	126
8	Shale	134
9	Lime	143
6	Shale	149
19	Lime	169
6	Shale	175
13	Sand	188
34	Lime	222
17	Sandy Shale	239
11	Lime	250
14	Shale	264
23	Lime	287
14	Shale	301
9	Lime	310
20	Shale	330
7	Lime	337
6	Shale	343
6	Lime	349
45	Shale	394
25	Lime	419
7	Shale	426
24	Lime	450
4	Shale	454
3	Lime	457
5	Shale	462
6	Lime	468
7	Shale	475
8	Sandy Shale	483
93	Shale	576
9	Sand	585
6	Sandy Shale	591

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50	Shale	641
5	Lime	646
5	Shale	651
2	Lime	653
7	Shale	660
6	Lime	666
7	Sand	673
6	Sandy Shale	679
3	Shale	682
3	Lime	685
2	Coal	687
4	Shale	691
9	Lime	700
3	Lime	703
21	Shale	724
2	Lime	726
3	Shale	729
2	Lime	731
9	Shale	740
6	Sand	746
4	Sandy Shale	750
54	Shale	804
7	Sand	811
5	Sandy Shale	816
29	Shale	845
5	Sand	850
15	Shale	865
4	Sand	869
2	Sandy Shale	871
3	Lime	874
11	Shale	885
5	Sand	890
24	Shale	914
11	Broken Sand	925
1	Broken Sand	926
2	Sandy Lime	928
2	Sand	930
1	Sand	931
1	Broken Sand	932
2	Sandy Shale	934
10	Broken Sand	944
56	Shale	1000-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 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 $SPM \times D$

$$\text{BELT LENGTH} = 2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$$

* Need these to figure belt length

$$\text{TO FIGURE AMPS: } \frac{\text{WATTS}}{\text{VOLTS}} = \text{AMPS}$$

746 WATTS equal 1 HP

Log Book

Well No. 17

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. 17

Elevation 1055

In.

Commenced Spuding 10-4, 20 13

Finished Drilling 10-8, 20 13

Driller's Name Chad Weaver

Driller's Name _____

Driller's Name _____

Tool Dresser's Name Cole Holcomb

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name DS

31 14 22

(Section) (Township) (Range)

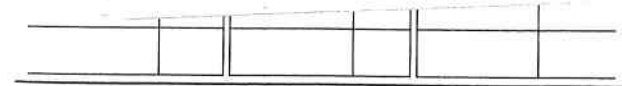
Distance from S line, 2430 ft.

Distance from E line, 1671 ft.

2-sacks

CASING AND TUBING RECORD

10" Set _____	10" Pulled _____
8" Set <u>22.5'</u>	8" Pulled _____
6 1/4" Set _____	6 1/4" Pulled _____
4" Set _____	4" Pulled _____
2" Set <u>979.40</u>	2" Pulled _____
<u>971.40</u> Baffle	
<u>1000710</u>	



Thickness of Strata	Formation	Total Depth	Remarks
6	oil / clay	6	
4	sandstone	10	
2	shale	12	
9	sandstone	21	water
19	shale	40	
3	Lime	43	
62	shale	105	
2	Lime	107	
3	shale	110	
16	Lime	126	
8	shale	134	Dark
9	Lime	143	
6	shale	149	
19	Lime	169	
6	shale	175	
13	sand	188	gray, no oil
34	Lime	222	
17	shaly shale + shale	239	
11	Lime	250	
14	shale	264	
23	Lime	287	
14	shale	301	
9	Lime	310	
20	shale	330	
7	Lime	337	
6	shale	343	
6	Lime	349	

Thickness of Strata	Formation	Total Depth	Remarks
		349	
45	shale	394	
25	Lime	419	412 - water
7	shale	426	
24	Lime	450	
4	shale	454	
3	Lime	457	
5	shale	462	
6	Lime	468	Hardly
7	shale	475	
8	sandy shale	483	
93	shale	576	
9	sand	585	no oil
6	sandy shale	591	
30	shale	621	
5	Lime	626	
5	shale	631	
2	Lime	633	
7	shale	640	
6	Lime	646	
7	sand	653	only, little show
6	sandy shale	659	
3	shale	662	
3	Lime	665	
2	oocal	667	
4	shale	671	
9	Limed shale	700	
3	Lime	703	

Thickness of Strata	Formation	Total Depth	Remarks
		703	
21	shale	724	710' red bed
2	Lime	726	
3	shale	729	
2	Lime	731	
9	shale	740	
6	sand	746	odour, 1.4% oil
4	sandy shale	750	
54	shale	804	
7	sand	811	no oil, Brown sand
5	sandy shale	816	
29	shale	845	
5	sand	850	no oil
15	shale	865	
4	sand	869	1.4% odoury oil
2	sandy shale	871	
3	Lime	874	
11	shale	885	
5	sand	890	no oil
24	shale	914	
11	Broken sand	925	no oil
1	Broken sand	926	odour, 25%
2	sandy Lime	928	15% - 20%
2	sand	930	70% - 80%, slight bleeding
1	sand	931	50% - 60%
1	Broken sand	932	25% - 35%
2	sandy shale	934	no oil
10	Broken sand	944	no oil



CONSOLIDATED
Oil Well Services, LLC

263049

TICKET NUMBER 42372

LOCATION Ottawa, KS

FOREMAN Cory 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
10/8/13	7532	Thomas B # 17	NE 31	14	22	JO
CUSTOMER St Petroleum			TRUCK #			
MAILING ADDRESS 18500 Sunflower Rd			DRIVER			
CITY Edgerton			TRUCK #			
STATE KS			DRIVER			
ZIP CODE 66021			TRUCK #			
			DRIVER			

JOB TYPE long string HOLE SIZE 5 7/8" HOLE DEPTH 1000' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 977' DRILL PIPE _____ TUBING baffle - 971' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 8'
 DISPLACEMENT 5.62 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 136 lbs 50/50 Pozmix cement w/ 2# gel & 14# Flo Seal per sk, cement to surface, pushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 5.62 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

[Handwritten signature]

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	977'	casing footage		
5407	minimum	van mileage		368.00
5502C	2 hrs	80 Vac		180.00
1124	136 lbs	50/50 Pozmix cement		1564.00
1118B	428 #	Premium Gel		94.16
1107	34 #	Flo Seal		83.98
4402	1	2 1/2" rubber plug		29.50
			7.375%	SALES TAX
				ESTIMATED TOTAL
				3461.30

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.