

Johnson County, KS
 Well: Thomas B 15
 Lease Owner: ST Petroleum

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

Commenced Spudding:
 10/1/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
6	Soil-Clay	6
14	Sandstone	20
9	Lime	29
36	Shale	65
4	Lime	69
49	Shale	118
5	Lime	123
2	Shale	125
16	Lime	141
8	Shale	149
8	Lime	157
8	Shale	165
19	Lime	184
11	Shale	195
12	Sand	207
27	Lime	234
16	Sandy Shale	250
8	Lime	258
14	Shale	272
24	Lime	296
14	Shale	310
10	Lime	320
18	Shale	338
8	Lime	346
4	Shale	350
7	Lime	357
45	Shale	402
25	Lime	427
7	Shale	434
23	Lime	457
4	Shale	461
5	Lime	466
4	Shale	470
6	Lime	476
4	Shale	480
5	Sandy Shale	485
21	Shale	506
14	Sandy Shale	520
65	Shale	585
6	Sand	591

Short Cuts

TANK CAPACITY

BBLs. (42 gal.) equals $D^2 \times 14xh$

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. 15

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 R. Farm: Johnson County

CAS

KS State; Well No. 15

Feet

Elevation 1042

Commenced Spuding 10-1, 2013

Finished Drilling 10-2, 2013

Driller's Name David Weaver

Driller's Name

Driller's Name

Tool Dresser's Name Cole Holcomb

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

31 14 22

(Section) (Township) (Range)

Distance from S line, 3710 ft.

Distance from E line, 1391 ft.

5- sacks

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____

7 7/8" Set 24.2' _____ 8" Pulled _____

6 1/4" Set _____ 6 1/4" Pulled _____

4" Set _____ 4" Pulled _____

2 7/8" Set 975.5' _____ 2" Pulled _____

903 Baffle

1000 TD



Thickness of Strata	Formation	Total Depth	Remarks
6	oil / clay	6	
14	sandstone	20	water
9	Lime	29	with some sand
36	shale	65	
4	Lime	69	
49	shale	118	
5	Lime	123	
2	shale	125	
16	Lime	141	
8	shale	149	Dark
8	Lime	157	
8	shale	165	
19	Lime	184	with some sandy lime
11	shale	195	
12	sand	207	
27	Lime	234	
16	sand shale / shale	250	
8	Lime	258	
14	shale	272	
24	Lime	296	
14	shale	310	
10	Lime	320	
18	shale	338	
8	Lime	346	
4	shale	350	
7	Lime	357	
45	shale	402	

402

Thickness of Strata	Formation	Total Depth	Remarks
25	Lime	427	
7	shale	434	
23	Lime	457	
4	shale	461	
5	lime	466	
4	shale	470	
6	Lime	476	Handker
4	shale	480	
5	sandy shale	485	
21	shale	506	
14	sandy shale & sand	520	
65	shale	585	
6	sand	591	little odor & show
62	shale	647	
5	Lime	652	
3	shale	655	
2	Lime	657	
8	shale	665	
6	Lime	671	
4	sand	675	no oil
11	shale	686	
4	Lime	690	
2	coal	692	
7	shale	699	
6	Lime & shale	705	
36	shale	741	711' - red bed
4	sand	745	odor, ok show



CONSOLIDATED
Oil Well Services, LLC

262865

TICKET NUMBER 44723
LOCATION Ottawa KS
FOREMAN Fred Mader

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
10-2-13	7532	Thomas "B" 15	NE 31	14	22	JO
CUSTOMER ST Petroleum Inc			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 18800 Sunflower Rd			712	Fred Mader		
CITY STATE ZIP CODE Edgerton KS 66021			495	Har Bee		
			570	Jas Ric		
			583	Dan Det		

JOB TYPE Long string HOLE SIZE 5 7/8 HOLE DEPTH 1000' CASING SIZE & WEIGHT 2 1/2 EUE
CASING DEPTH 975' DRILL PIPE Baffle in TUBING Ø 944 OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 3' + Plug
DISPLACEMENT 5.48 BB DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 BPM

REMARKS: Hold crew safety meeting. Establish pump rate. Mix + Pump 100' Gel Flush. Mix + Pump 50/50 Poz Mix Cement 2% Gel 1/4" Flo Seal/sk. Cement to surface. Flush pump + lines clean. Displace 2 1/2" Rubber plug to Baffle in casing. Pressure to 800' PSI. Release pressure to set float valve. Shut in casing.

TOS Drilling - Chad Weaver Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1085 ⁰⁰
5406	30 mi	MILEAGE	495	126 ⁰⁰
5402	975	Casing footage		N/C
5407	Minimum	Ten Miles		368 ⁰⁰
5502c	2 hrs	80 BBL Vac Truck		180 ⁰⁰
1124	145 SKS	50/50 Poz Mix Cement		1667 ⁵⁰
1118B	344#	Premium Gel.		75 ⁶⁸
1107	73#	Flo-Seal		180 ³¹
4402	1	2 1/2" Rubber Plug		29 ⁵⁰
			7.375%	SALES TAX
				ESTIMATED
				TOTAL
				144 ⁰⁴
				3856 ⁰³

Revin 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.