

# 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. I-3-3

Farm Thomas C

KS Johnson  
(State) (County)

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

For ST Petroleum inc  
(Well Owner)

15-091-24474

## Town Oilfield Services, Inc.

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

Thomas C Farm: Johnson County  
 KS State; Well No. I-3-3  
 Elevation 1043  
 Commenced Spudding 11-16 20 18  
 Finished Drilling 11-19 20 18  
 Driller's Name Wesley Dollard  
 Driller's Name Ryan Ward  
 Driller's Name  
 Tool Dresser's Name  
 Tool Dresser's Name  
 Tool Dresser's Name  
 Contractor's Name TOS  
 14 14 22

(Section) (Township) (Range)  
 Distance from S line, 1880 ft.  
 Distance from E line, 3710 ft.

4 sacks  
 10 hrs  
 5 5/8 borehole  
 2 7/8 casing

### CASING AND TUBING RECORD

Bill out surface & casing  
 10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_  
 8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_  
 6 1/4" Set 20 6 1/4" Pulled \_\_\_\_\_  
 4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_  
 2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

### CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
890		Baffle		27	18
921		Float			
940		TJD			

Thickness of Strata	Formation	Total Depth	Remarks
0-20	soil-clay	20	
31	Lime	51	
7	Shale	58	
9	Lime	67	
8	Shale	75	
14	Lime	89	
15	shale	104	red bed
4	sand	108	no oil
74	Lime	182	
30	Shale	212	
9	Lime	221	
20	Shale	241	
6	Lime	247	
3	Shale	250	
10	Lime	260	
33	Shale	293	
1	Lime	294	
9	Shale	303	
28	Lime	331	
5	Shale	336	
24	Lime	360	
3	Shale	363	
3	Lime	366	
7	Shale	373	
7	Lime	380	Martha
173	Shale	553	
8	Lime	561	

561

Thickness of Strata	Formation	Total Depth	Remarks
5	Shale	566	
5	Lime	571	
19	Shale	590	
3	Lime	593	
5	Shale	598	
10	Lime	608	
95	Shale	703	
1	Lime	704	
40	Shale	744	
2	Lime	746	
89	Shale	835	
2	limey sand	837	good oil show
8	sand	845	broken - good oil show
95	Shale	940	TD



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

12044  
 11948

TICKET NUMBER 55485  
 LOCATION Oswawa, KS  
 FOREMAN Jim Green

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-19-18	7532	Thomas C # I-3-3	SW 14	14	22	JO
CUSTOMER ST Petroleum INC			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS 18800 Sunflower Rd.			669 Jim Lee			
CITY STATE ZIP CODE Edgerton KS 66021			495 Ken Pol			
			625 Ken Pol			
			558 Cas Ken			

JOB TYPE Longstring HOLE SIZE 5 5/8" HOLE DEPTH 940' CASING SIZE & WEIGHT 2 7/8"  
 CASING DEPTH 920' DRILL PIPE Baffle 890' TUBING OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Held safety meeting. Establish circulation. Mix and pump 200# gel to flush hole. MIX and pump 129 sk Poz-Blend IA w/2% gel + 1/4" F10-seal. Circulated cement to surface. Pump 2 7/8" rubber plug to 890' at baffle. Pressure casing up to 800' PSI. Well held 800' PSI for 30 min MIT. Set float.

QES Ran a 30 min MIT at 800' PSI  
Well Held Good.  
Jim Green

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE045U	1	PUMP CHARGE	1500 <sup>00</sup>	
CE0002	30	MILEAGE Cement Pump	214.50	
CE 0711	1	Ton Mileage	660 <sup>00</sup>	
WED853	2 HRS	VAC TR	200 <sup>00</sup>	
			sub Total	2574.50
			- Less - 40%	1029.80
			Total	1544.70
CE5840	129 sk	Poz-Blend IA	1741.50	
CC 5965	417 #	Gel	125.10	
CC 6075	32"	F10-seal	64 <sup>00</sup>	
CP8176	1	2 7/8" Rubber Plug	45 <sup>00</sup>	
			sub Total	1975.60
			- Less - 40%	790.24
			Total	1185.36
			9,975%	
			SALES TAX	94.53
			ESTIMATED TOTAL *	2824.59
				(4707.65)

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.