

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 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 $SPM \times d$

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-3-1

Farm Thomas C

KS Johnson
(State) (County)

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

For ST Petroleum inc
(Well Owner)

15-091-24472

Town Oilfield Services, Inc.

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

Thomas C. Farm: Johnson County

KS State; Well No. I-3-1

Elevation 1031

Commenced Spuding 11-20 20 18

Finished Drilling 11-21 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, 4830 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 21 _____ 6 1/4" Pulled _____
- 4" Set _____ 4" Pulled _____
- 2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
891- Baffle					
				2 7/8	
923- Float					
940 TD					

Thickness of Strata	Formation	Total Depth	Remarks
0-10	soil-clay	10	
10	Shale	20	
16	Lime	36	
7	Shale	43	
9	Lime	52	
8	Shale	60	
14	Lime	74	
13	Shale	87	
8	sand	95	redbed no oil
76	Lime	171	
30	Shale	201	
8	Lime	209	
19	Shale	228	
7	Lime	235	
4	Shale	239	
9	Lime	248	
34	Shale	282	
1	Lime	283	
9	Shale	292	
29	Lime	321	
5	Shale	326	
24	Lime	350	
3	Shale	353	
5	Lime	358	
4	Shale	362	
7	Lime	369	Herthy
171	Shale	540	

540

Thickness of Strata	Formation	Total Depth	Remarks
5	Lime	545	
5	Shale	550	
2	Lime	552	
6	Shale	558	
8	Lime	566	
16	Shale	582	
5	Lime	587	
8	Shale	595	
11	Lime	606	
25	Shale	631	
3	Lime	634	
76	Shale	710	
1	Lime	711	
26	Shale	737	
3	Lime	740	
89	Shale	829	
3	limy sand	832	broken - good oil show
8	sand	840	mostly solid - great saturation
100	Shale	940	TD



PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-457-8676

12068
11952

TICKET NUMBER 55538
LOCATION Orrawa, KS
FOREMAN Jim Green

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-21-18	2532	Thomas C #1-3-1	SW 14	14	22	JO
CUSTOMER <u>ST Petroleum</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>18800 Sunflower Rd.</u>			<u>669</u>	<u>Jim Gre</u>		
CITY <u>Edgerton</u>			<u>495</u>	<u>HW Bd</u>		
STATE <u>KS</u>			<u>675</u>	<u>Ken Per</u>		
ZIP CODE <u>66021</u>			<u>538</u>	<u>Wla mad</u>		
JOB TYPE <u>Log run 49</u>	HOLE SIZE <u>5 5/8"</u>	HOLE DEPTH <u>940'</u>	CASING SIZE & WEIGHT <u>2 7/8"</u>			
CASING DEPTH <u>921'</u>	DRILL PIPE <u>890' BxH</u>	RUBING	OTHER			
SLURRY WEIGHT	SLURRY VOL.	WATER gal/hk	CEMENT LEFT in CASING			
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE			

REMARKS: Held safety meeting. Mix and pump 100' Gel so flush hole. Mix and pump 113 cu Poz-Blend IA cement with 28 gal 5/8" F10-seal. Circulated cement to surface. Flush pump clean. Pump 2 7/8" rubber plug to total depth of casing. Pressure well up to 800* PSI Ran 30 min mtz. Well held set float.

QES Ran 30 min MTZ at 800* PSI well held good

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
CE0002	30	MILEAGE Cement Pump	214.50	
CE074	1	Cement Ton Mileage	660.00	
WE083	2 HRS	WEL TK	280.00	
		Sub Total	2574.50	
		- Less - 40%	1029.80	
		Total		1544.70
18755 CE5840	113	Poz-Blend IA	1525.80	
CL5965	290	Gel	87.00	
CL6075	28	F10-Seal	56.00	
CP8176	1	2 7/8" Rubber Plug	45.00	
		Sub Total	1773.80	
		- Less - 40%	685.48	
		Total		1028.32
		7,975.40	SALES TAX	81.92
			ESTIMATED TOTAL	2654.72
				4423.94

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.