

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. 2-1

Farm Zammullen

KS

(State)

Crawford

(County)

35

(Section)

28

(Township)

21

(Range)

For Town Oil Co.

(Well Owner)

**Town Oil
Company, Inc.**

16205 W. 287th St.

Paola, KS 660 1

913-294-

Zummler Farm: Crawford County

KS State; Well No. 2-1

Elevation _____

Commenced Spuding 6-26 20 18

Finished Drilling 7-6 20 18

Driller's Name Winton Town

Driller's Name _____

Driller's Name _____

Tool Dresser's Name Derrick Holstein

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name Town Oil Co.

36 ~~38~~ 28 21

(Section) (Township) (Range)

Distance from _____ line, _____ ft.

Distance from _____ line, _____ ft.

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____
 8" Set 20' 55' Pulled _____
 6 1/4" Set _____ 6 1/4" Pulled _____
 4" Set 410' Pulled _____
 2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
28	9				
29	8				
32	6				
31	6				
30	9				
30	1				
31	—				
31	6				
32	6				
31	1				
32	5				
31	3				
29	6				
31	4				
29	8	430	6		
29	7	—	20	06	
29	8	410	—		
31	2				
29	5				
30	3				
32	6				
30	5				
619	1				
60	0				
625	1				

Thickness of Strata	Formation	Total Depth	Remarks
18	soft clay	18	
1	lime	19	
20	shale	219	
1	lime sandy	22	1220
24	shale	46	
6	sandy lime	52	1220
52	shale	104	
2	shale	106	
2	shale	108	
28	lime	136	Brown very hard 120-136
3	shale	139	
24	shale	163	
8	sandy lime	171	
48	shale	219	
7	lime	226	
8	shale	234	
7	lime	241	
100	shale	341	
5	lime	346	
54	shale	400	
1	lime sandy	401	
6	shale	407	
20	lime	427	
20	shale	447	
		450	TUD



PRESSURE PUMPING LLC
 PO Box 884, Chanute, KS 66720
 820-431-9210 or 800-467-8676

JM-11090
 PO-17333
 FT-10977

TICKET NUMBER 54051
 LOCATION Ottawa, KS
 FOREMAN Casey Kennedy

**FIELD TICKET & TREATMENT REPORT
 CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7/6/18	7823	Zumwalt # 2-1	NW 36	28	21	CR
CUSTOMER <u>Town Oil Co.</u>						
MAILING ADDRESS <u>16205 W. 287. St.</u>						
CITY <u>Paola</u>		STATE <u>KS</u>	ZIP CODE <u>66071</u>			
		TRUCK #	DRIVER	TRUCK #	DRIVER	
		<u>729</u>	<u>Cas Ken</u>	<u>✓</u>	<u>Safely Macting</u>	
		<u>467</u>	<u>Kei Car</u>	<u>✓</u>		
		<u>503</u>	<u>Har Bec</u>	<u>✓</u>		

JOB TYPE long string HOLE SIZE 6 3/4" HOLE DEPTH 442' CASING SIZE & WEIGHT 4 1/2"
 CASING DEPTH 410' DRILL PIPE _____ TUBING Sand - 4 1/2' - 442' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 5'
 DISPLACEMENT 6.46 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 bpm

REMARKS: held safely macting, established circulation, mixed + pumped 100# Gel followed by 5 bbls fresh water, mixed + pumped 67 sks Pozblend 1A cement w/ 2% gel per sk, cement to surface, displaced cement w/ 6.46 bbls fresh water, shut in casing.

[Handwritten signature]

Customer supplied H₂O

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	<u>1</u>	PUMP CHARGE	<u>1500.00</u>	
CE0002	<u>_____</u>	MILEAGE	<u>_____</u>	
CE0711	<u>1/2 min</u>	<u>ten mileage</u>	<u>330.00</u>	
		<u>trucks</u>	<u>1830.00</u>	
		<u>- 30%</u>	<u>549.00</u>	
		<u>Subtotal</u>		<u>1281.00</u>
CC5840	<u>67 sks</u>	<u>Pozblend 1A cement</u>	<u>904.50</u>	
CC5965	<u>213 #</u>	<u>Gel</u>	<u>63.90</u>	
		<u>materials</u>	<u>968.40</u>	
		<u>- 30%</u>	<u>290.52</u>	
		<u>Subtotal</u>		<u>677.88</u>
SCANNED				
<u>7-9 AM</u>				
		<u>7.5%</u>	SALES TAX	<u>50.84</u>
			ESTIMATED TOTAL	<u>2009.72</u>

RAVIN 3737 AUTHORIZATION Scott Rukland TITLE Driller DATE 7-16-18

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's