

Leavenworth County, KS  
Well: Breshears I-1  
Lease Owner: Town Oil

Town Oilfield Service, Inc.  
(913) 294-2125

Commenced Spudding:  
9/7/17

WELL LOG

Thickness of Strata	Formation	Total Depth
0-10	Soil-Clay	10
16	Sand	26
37	Shale	63
7	Lime	70
7	Shale	77
16	Lime	93
5	Shale	98
7	Lime	105
15	Shale	120
34	Lime	154
5	Shale	159
30	Lime	189
2	Shale	191
39	Lime	230
19	Shale	249
5	Lime	254
3	Shale	257
2	Lime	259
11	Shale	270
16	Lime	286
16	Shale	302
20	Lime	322
1	Shale	323
32	Lime	355
6	Shale	361
25	Lime	386
3	Shale	389
6	Lime	395
2	Shale	397
10	Lime	407
6	Shale	413
11	Sand	424
91	Shale	515
14	Sand	529
22	Shale	551
3	Lime	554
17	Shale	571
6	Lime	577
4	Shale	581
4	Lime	585



# 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. I-1

Farm Breshears

KS Leavenworth  
 (State) (County)

16 12 21  
 (Section) (Township) (Range)

For Town Oil Company  
 (Well Owner)

15-103-21455

## Town Oilfield Services, Inc.

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

Broshears Farm: Leavenworth County

KS State; Well No. I-1

Elevation 874

Commenced Spuding 9-7 20 17

Finished Drilling 9-8 20 17

Driller's Name Wesley Dollard

Driller's Name Ryan Ward

Driller's Name

Tool Dresser's Name Drake Williams

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

16 12 21

(Section) (Township) (Range)

Distance from S line, 1613 ft.

Distance from E line, 767 ft.

4 sacks

9 hrs

5 7/8 borehole

2 7/8 casing

CASING AND TUBING RECORD

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_

8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_

~~7~~" Set 40 \_\_\_\_\_ 6 1/4" Pulled \_\_\_\_\_

4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_

2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
729.35		Baffle			
761.05		Float			
780 TD			2 7/8		

Thickness of Strata	Formation	Total Depth	Remarks
0-10	soil-clay	10	
16	sand	26	water
37	Shale	63	
7	Lime	70	
7	Shale	77	
16	Lime	93	
5	Shale	98	
7	Lime	105	
15	Shale	120	
34	Lime	154	
5	Shale	159	
30	Lime	189	
2	Shale	191	
39	Lime	230	
19	Shale	249	
5	Lime	254	
3	Shale	257	
2	Lime	259	
11	Shale	270	redbed
16	Lime	286	
16	Shale	302	
20	Lime	322	
1	Shale	323	
32	Lime	355	
6	Shale	361	
25	Lime	386	
3	Shale	389	

389

Thickness of Strata	Formation	Total Depth	Remarks
6	Lime	395	
2	Shale	397	
10	Lime	407	Heilthg
6	Shale	413	
11	Sand	424	no Oil
91	Shale	515	
14	Sand	529	broken - good oil show
22	Shale	551	redbed
3	Lime	554	
17	Shale	571	
6	Lime	577	
4	Shale	581	
4	Lime	585	
8	Shale	593	
9	Lime	602	
15	Shale	617	
2	Lime	619	
12	Shale	631	
3	Lime	634	
29	Shale	663	
1	Lime	664	
6	Shale	670	
15	Sand	685	broken - mostly solid - good
95	Shale	780	saturation
		TD	

# Town Oilfield Service

P.O Box 339 Louisburg, Ks 66053  
913-837-8400

Ticket Number \_\_\_\_\_  
Location \_\_\_\_\_  
Foreman \_\_\_\_\_

## Field Ticket & Treatment Report Cement

Date -	Customer#	Well Name & Number	Section	Township	Range	County
9-7-17		Breshears I-1	16	12	21	LU
Customer			Mailing Address			
			City	State	Zip Code	

Job Type Long String Hole Size 5 5/8 Hole Depth 780 Casing Size & Weight 2 7/8  
 Casing Depth 761 Drill Pipe \_\_\_\_\_ Tubing \_\_\_\_\_ Other \_\_\_\_\_  
 Displacement \_\_\_\_\_ Displacement PSI \_\_\_\_\_ Mix PSI \_\_\_\_\_ Rate \_\_\_\_\_

Remarks \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Account Code	Quantity or Units	Description of Services or Product	Unit Price	Total
		Pump Charge		700
		Cement Truck		250
		Water Truck		0
	136	Cement	10	1360
		Gel		
		Plug		45
			Sales Tax	
Estimated Total				2355

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.