

Leavenworth County, KS  
Well: Breshears I-2  
Lease Owner: TOC

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

Commenced Spudding:  
1/19/2018

WELL LOG

Thickness of Strata	Formation	Total Depth
0-18	Soil-Clay	18
25	Shale	43
30	Lime	73
6	Shale	79
7	Lime	86
16	Shale	102
33	Lime	135
8	Sand	143
25	Lime	168
3	Shale	171
38	Lime	209
20	Shale	229
4	Lime	233
4	Shale	237
2	Lime	239
13	Shale	252
14	Lime	266
16	Shale	282
15	Lime	297
8	Shale	305
7	Lime	312
3	Shale	315
20	Lime	335
7	Shale	342
23	Lime	365
4	Shale	369
6	Lime	375
3	Shale	378
10	Lime	388
7	Shale	395
12	Sand	407
20	Sandy Shale	427
10	Sand	437
23	Sandy Shale	460
31	Shale	491
17	Sand	508
21	Shale	529
4	Lime	533
3	Sandy Shale	536
13	Shale	549



# 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 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-2

Farm Breshers

KS  
(State)

Leavenworth  
(County)

16  
(Section)

12  
(Township)

21  
(Range)

For Town Oil Company  
(Well Owner)

## Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400



Thickness of Strata	Formation	Total Depth	Remarks
0-15	soil - clay	15	sandy
25	shale	43	
30	lime	73	
6	shale	79	
7	lime	86	
16	shale	102	
33	lime	135	shells grey
8	sand	143	
25	lime	168	
3	shale	171	
38	lime	209	
20	shale	229	
4	lime	233	
4	shale	237	
2	lime	239	
13	shale	252	red bed
14	lime	266	
16	shale	282	
15	lime	297	
8	shale	305	shells
7	lime	312	
3	shale	315	
20	lime	335	
7	shale	342	
23	lime	365	
4	shale	369	
6	lime	375	

375

Thickness of Strata	Formation	Total Depth	Remarks
3	Shale	378	
10	Lime	388	Heather
7	Shale	395	
12	sand	407	grey - no oil
20	sandy shale	427	
10	sand	437	grey - no oil
23	sandy shale	460	
31	Shale	491	
17	sand	508	broken - slight slaw
21	shale	529	redbed
4	Lime	533	
3	sandy shale	536	
13	Shale	549	
5	Lime	554	
5	Shale	559	
3	Lime	562	
8	Shale	570	
8	Lime	578	
16	Shale	594	
2	Lime	596	
10	Shale	606	
5	Lime	611	
22	Shale	633	
6	Lime	639	
7	Shale	646	
1	sand	647	broken - good saturation
8	sand	655	solid - good saturation



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

9954  
9847

TICKET NUMBER 53935  
LOCATION Ottawa, KS  
FOREMAN Casey Kennedy

FIELD TICKET & TREATMENT REPORT  
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1/30/18	7823	Breshears # I-2	SE 16	12	21	LV
CUSTOMER <u>Town Oil Company</u>						
MAILING ADDRESS <u>10205 W 287th St</u>						
CITY <u>Paola</u>		STATE <u>KS</u>	ZIP CODE <u>66071</u>			
			TRUCK #	DRIVER	TRUCK #	DRIVER
			<u>729</u>	<u>CarKen</u>	<input checked="" type="checkbox"/>	<u>Sokol, Mooking</u>
			<u>467</u>	<u>Kei Car</u>	<input checked="" type="checkbox"/>	
			<u>804</u>	<u>Mickhan</u>	<input checked="" type="checkbox"/>	
			<u>675</u>	<u>KRiDot</u>	<input checked="" type="checkbox"/>	

JOB TYPE long string HOLE SIZE 5 5/8" HOLE DEPTH 710' CASING SIZE & WEIGHT 2 7/8" EUE  
CASING DEPTH 734' DRILL PIPE \_\_\_\_\_ TUBING baffle - 703' OTHER \_\_\_\_\_  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 31'  
DISPLACEMENT 4.07 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS: held safety machine, established circulation, mixed + pumped 200 # Gel followed by 5 bbls fresh water, mixed + pumped 106 lbs Portland IA cement w/ 2% gel per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 4.07 bbls fresh water, pressured to 800 PSI, well held pressure for 30 min MIT, released pressure, shut in casing.

*Handwritten signature*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
CE0002	40 mi	MILEAGE	286.00	
CE0711	1/2 min	ton mileage	330.00	
WE0853	2 hrs	80 Vac	200.00	
		trucks	2316.00	
		- 40%	926.40	
		Subtotal		1389.60
15419 GG5840	106 lbs	Portland IA cement	1431.00	
CC5965	378 #	Gel	113.40	
CP8176	1	2 1/2 rubber plug	45.00	
		materials	1589.40	
		- 40%	635.76	
		Subtotal		983.64
		7.5%	SALES TAX	71.52
			ESTIMATED TOTAL	2414.76
				(4029.61)

Revin 3737

AUTHORIZATION No Co Rep 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.