

Johnson County, KS  
Well: Donovan I-11  
Lease Owner: D Z

Town Oilfield Service, Inc.  
(913) 837-8400

Commenced Spudding:  
10/20/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
7	Soil-Clay	7
15	Sandstone	22
8	Shale	30
2	Lime	32
19	Shale	51
4	Lime	55
7	Grey Sand	62
14	Lime	76
9	Shale	85
9	Lime	94
9	Shale	103
18	Lime	121
16	Shale	137
19	Lime	156
8	Shale	164
57	Lime	221
20	Shale	240
8	Lime	2496
18	Shale	267
8	Lime	275
4	Shale	279
9	Lime	288
34	Shale	322
1	Lime	323
11	Shale	334
24	Lime	358
9	Shale	367
23	Lime	390
4	Shale	394
4	Lime	398
6	Shale	404
7	Lime	411
74	Shale	485
26	Sandy Shale	511
73	Shale	584
5	Lime	589
13	Shale	602
9	Lime	613
10	Shale	623
3	Lime	626





# 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-11

Farm Donovan

Ks Johnson  
(State) (County)

28 14 22  
(Section) (Township) (Range)

For D+Z Exploration  
(Well Owner)

## Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400





Thickness of Strata	Formation	Total Depth	Remarks
7	silt + clay	7	
15	sandstone	22	
8	shale	30	
2	lime	32	
19	shale	51	
4	lime	55	
7	grey sand	62	
14	lime	76	
9	shale	85	
9	lime	94	
9	shale	103	
18	lime	121	
16	shale	137	
19	lime	156	
8	shale	164	
57	lime	221	
20	shale	241	
8	lime	249	
18	shale	267	
8	lime	275	
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9	lime	288	
34	shale	322	
1	lime	323	
11	shale	334	
24	lime	358	
9	shale	367	

713-710  
7438  
Dean

367

Thickness of Strata	Formation	Total Depth	Remarks
23	lime	390	
4	shale	394	
4	lime	398	
6	shale	404	
7	lime	411	
74	shale	485	
26	sandy shale	511	
73	shale	584	
5	lime + shale	589	
13	shale	602	
9	lime + shale	613	608-612 lite odor in lime
10	shale	623	
3	lime	626	
7	shale	633	
5	lime	638	
7	shale	645	
2	lime	647	
102	shale	749	
9	broken sand	758	very lite bleed
12	sandy shale	770	
100	shale	870	
5	broken sand	875	lite bleed lite saturation
4	oil sand	879	very good bleed good saturation
4	broken sand	883	lite bleed
6	sandy shale	889	
	shale	980	TD