

Johnson County, KS
Well:Donovan I-12
Lease Owner:D Z

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

Commenced Spudding:
01/17/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
7	soil/clay	7
11	sandstone	18
21	shale	39
2	lime	41
19	shale	60
5	lime	65
5	shale	70
15	lime	85
8	shale	93
8	lime	101
96	shale	110
18	lime	128
17	shale	145
21	lime	166
7	shale	173
57	lime	230
20	shale	250
9	lime	259
17	shale	276
8	lime	284
5	shale	289
9	lime	298
33	shale	331
1	lime	332
12	shale	344
24	lime	368
8	shale	376
24	lime	400
4	shale	404
5	lime	409
4	shale	413
6	lime	419
114	shale	533
7	sand	540
4	sandy shale	544
49	shale	593
11	lime	604
7	shale	611
6	lime	617
16	shale	633

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 $SPM \times d$

$$\text{BELT LENGTH} = 2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$$

* Need these to figure belt length

$$\text{TO FIGURE AMPS: } \frac{\text{WATTS}}{\text{VOLTS}} = \text{AMPS}$$

746 WATTS equal 1 HP

Log Book

Well No. [#] 1-12

Farm Donovan

KS
(State)

Johnson
(County)

28
(Section)

14
(Township)

22
(Range)

For D+Z Exploration
(Well Owner)

Town Oilfield Services, Inc.

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

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7	soil/clay	7	
11	sandstone	18	
21	shale	39	
2	Lime	41	
19	shale	60	
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376

Thickness of Strata	Formation	Total Depth	Remarks
24	Lime	400	
4	shale	404	
5	Lime	409	
4	shale	413	
6	Lime	419	
114	shale	533	Harder
7	sand	540	
4	sandy shale	544	gray, no oil
49	shale	593	
11	Lime	604	
7	shale	611	
6	Lime	617	
16	shale	633	
3	Lime	636	
7	shale	643	
6	Lime	649	
53	shale	702	red bed - 156'
7	sand	709	
4	sandy shale	713	
46	shale	759	
8	Broken sand	767	very little about oil
4	sandy shale	771	
31	shale	802	
5	sand	807	gray, no oil
71	shale	878	
1	sandy lime	879	
3	Broken sand	882	odor, 25% oil, ok bleeding no oil

