

Johnson County, KS
Well: Donovan I-51
Lease Owner: D Z

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

Commenced Spudding:
10/30/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
4	Soil-Clay	4
3	Shale	7
18	Sandstone	25
35	Shale	60
7	Lime	67
4	Shale	71
18	Lime	89
6	Shale	95
15	Lime	110
3	Shale	113
17	Lime	130
18	Shale	148
17	Lime	165
10	Shale	175
57	Lime	232
20	Shale	252
9	Lime	261
21	Shale	282
6	Lime	288
3	Shale	291
14	Lime	305
29	Shale	334
1	Lime	335
9	Shale	344
30	Lime	374
6	Shale	380
22	Lime	402
4	Shale	406
4	Lime	410
5	Shale	415
8	Lime	423
171	Shale	594
6	Lime	602
11	Shale	611
5	Lime	616
19	Shale	635
3	Lime	638
9	Shale	647
4	Lime	651
3	Shale	654

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-51

Farm Donavan

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

402

Thickness of Strata	Formation	Total Depth	Remarks
4	shale	406	
4	lime	410	
5	shale	415	
8	lime	423	HP, the
171	shale	594	
6	lime	600	
11	shale	611	
5	lime	616	
19	shale	635	
3	lime	638	
9	shale	647	
4	lime	651	
3	shale	654	
2	lime	656	
104	shale	760	
2	grey sand	762	
2	broken sand	764	lite bleed good saturation
6	grey sand	770	
112	shale	882	
4	broken sand	886	lite bleed good saturation
8	oil sand	894	very good bleed great saturation
4	sandy shale	898	
82	shale	980	TD