

Johnson County, KS  
Well: Sugar Ridge NW  
Lease Owner: DZExploration

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

Commenced Spudding:  
11/07/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 8	Soil & Clay	8
18	Shale	26
4	Lime	30
5	Shale	35
17	Lime	52
10	Shale	62
8	Lime	70
7	Shale	77
20	Lime	97
18	Shale	115
23	Lime	138
6	Shale	144
53	Lime	197
19	Shale	216
9	Lime	225
18	Shale	243
7	Lime	250
6	Shale	256
9	Lime	265
31	Shale	296
1	Lime	297
11	Shale	308
28	Lime	336
8	Shale	344
21	Lime	365
4	Shale	369
2	Lime	371
7	Shale	378
6	Lime	384
171	Shale	555
5	Lime	560
32	Shale	592
3	Lime	595
7	Shale	602
3	Lime	605
3	Shale	608
2	Lime	610
105	Shale	715
2	Grey Sand	717
4	Broken Sand	721



# 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. NW

Farm Sugar Ridge

KS  
(State)

Johnson  
(County)

29  
(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



Thickness of Strata	Formation	Total Depth	Remarks
8	soil & clay	8	
18	shale	26	
4	lime	30	
5	shale	35	
17	lime	52	
10	shale	62	
8	lime	70	
7	shale	77	
20	lime	97	
18	shale	115	
23	lime	138	
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