

Johnson County, KS  
Well: Sugar Ridge N-2  
Lease Owner: D Z

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

Commenced Spudding:  
10/23/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
5	Soil-Clay	5
53	Shale	58
5	Lime	63
3	Shale	66
16	Lime	82
10	Shale	92
9	Lime	101
8	Shale	109
20	Lime	129
14	Shale	143
24	Lime	167
5	Shale	172
54	Lime	226
19	Shale	245
8	Lime	253
21	Shale	274
20	Lime	294
33	Shale	327
5	Lime	332
7	Shale	339
25	Lime	364
8	Shale	371
23	Lime	395
5	Shale	400
5	Lime	405
3	Shale	408
7	Lime	415
68	Shale	483
29	Sandy Shale	512
76	Shale	588
4	Lime	592
2	Shale	594
1	Lime	595
5	Shale	603
5	Lime	608
19	Shale	627
4	Lime	631
126	Shale	757
7	Broken Sand	764
5	Grey Sand	769



# 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. NZ

Farm Sugar Ridge

KS Johnson  
(State) (County)

29 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
5	soil & clay	5	
53	shale	58	
5	lime	63	
3	shale	66	
16	lime	82	
10	shale	92	
9	lime	101	
8	shale	109	
20	lime	129	
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Herms

