

Johnson County, KS
Well: Sugar Ridge N-4
Lease Owner: D Z

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

Commenced Spudding:
11/11/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
8	Soil-Clay	8
20	Shale	28
5	Lime	33
3	Shale	36
17	Lime	53
10	Shale	63
9	Lime	72
6	Shale	78
20	Lime	98
20	Shale	118
22	Lime	140
6	Shale	146
54	Lime	200
19	Shale	219
9	Lime	228
18	Shale	246
6	Lime	252
8	Shale	260
8	Lime	268
32	Shale	300
1	Lime	301
11	Shale	312
20	Lime	332
12	Shale	344
25	Lime	369
2	Shale	371
4	Lime	375
5	Shale	380
7	Lime	387
170	Shale	557
6	Lime	563
11	Shale	574
5	Lime	579
17	Shale	596
4	Lime	600
38	Shale	638
5	Lime	641
82	Shale	723
8	Sandy Shale	731
9	Broken Sand	740

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 $BPH \times PSI \times .0004$

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. N.4

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	
20	shale	28	
5	lime	33	
3	shale	36	
17	lime	53	
10	shale	63	
9	lime	72	
6	shale	78	
20	lime	98	
20	shale	118	
22	lime	140	
6	shale	146	
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11	shale	312	
20	lime	332	
12	shale	344	
25	lime	369	
2	shale	371	
4	lime	375	

375			
Thickness of Strata	Formation	Total Depth	Remarks
5	shale	380	
7	lime	387	Hertha
170	shale	557	
6	lime	563	
11	shale	574	
5	lime	579	
17	shale	596	
4	lime	600	
38	shale	638	
3	lime	641	
82	shale	723	
8	sandy shale	731	
9	broken sand	740	lite bleed good color
10	sandy shale	750	
75	shale	825	
2	grey sand	827	no oil
10	shale	837	
2	grey sand	839	no oil
4	broken sand	843	good bleed good saturation
8	oil sand	851	very good bleed great saturation
1	broken sand	852	lite bleed ok saturation
5	sandy shale	857	
83	shale	940	TD