

Johnson County, KS
Well: Cattle Track 6
Lease Owner: D Z

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

Commenced Spudding:
11/26/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
12	Soil-Clay	12
7	Shale	19
6	Lime	25
4	Shale	29
17	Lime	46
9	Shale	55
9	Lime	64
8	Shale	72
23	Lime	95
15	Shale	110
23	Lime	133
10	Shale	143
18	Lime	161
27	Shale	189
16	Lime	205
12	Shale	217
9	Lime	226
21	Shale	247
7	Lime	254
3	Shale	257
10	Lime	267
34	Shale	301
4	Lime	305
8	Shale	313
27	Lime	340
8	Shale	348
23	Lime	371
3	Shale	374
2	Lime	376
7	HS	383
7	Lime	390
175	Shale	565
6	Lime	571
14	Shale	585
5	Lime	590
17	Shale	607
3	Lime	610
123	Shale	733
5	Brown Sand	738
4	Grey Sand	742

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. 6

Farm Cattle Trach.

KS Johnson
(State) (County)

33 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
12	soil & clay	12	
7	shale	19	
6	lime	25	
4	shale	29	
17	lime	46	
9	shale	55	
9	lime	64	
8	shale	72	
23	lime	95	
15	shale	110	
23	lime	133	
10	shale	143	
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23	lime	371	

NOTES:

940 TD

5 5/8 hole

20' 7"

3 sacks cement

914.20' 2 7/8 pipe

Bonus Well

Rules of Thumb

CEMENTING ANNULUS

2" ID - 6 1/4"	- 1 Sack	5.8'
2" ID - 8"	- 1 Sack	3.1'
3" ID - 8"	- 1 Sack	3.5'
4" ID - 8"	- 1 Sack	4.0'

CAPACITY

2"	- 1 BBL.	equals.....	256'
2 1/2"	- 1 BBL.	equals.....	164'
3"	- 1 BBL.	equals.....	115'
4"	- 1 BBL.	equals.....	64'
4 7/8"	- 1 BBL.	equals.....	43'
6 1/4"	- 1 BBL.	equals.....	26'
8"	- 1 BBL.	equals.....	16'

WATER - CEMENT RATIO

5.5 gals. to 1 sack - 2 1/2 hours
to thicken slurry

7.7 gals. to 1 sack - 2 hours
to thicken slurry