

Johnson County, KS
Well: Meyer 29
Lease Owner: DZ Exploration

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

Commenced Spudding:
11-20-2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 12	Soil & Clay	12
8	Shale	20
5	Lime	25
8	Shale	33
16	Lime	49
8	Shale	57
10	Lime	67
7	Shale	74
26	Lime	100
7	Shale	107
28	Lime	135
15	Shale	150
15	Lime	165
15	Shale	180
29	Lime	209
15	Shale	224
9	Lime	233
22	Shale	255
7	Lime	262
3	Shale	265
8	Lime	273
35	Shale	308
1	Lime	309
11	Shale	320
25	Lime	345
11	Shale	356
22	Lime	378
3	Shale	381
3	Lime	384
6	Shale	390
7	Lime	397
176	Shale	573
5	Lime	578
12	Shale	590
9	Lime	599
15	Shale	614
3	Lime	617
123	Shale	740
5	Brown Sand	745
10	Sandy Shale	755

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. 29

Farm Meyer

Kansas 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

Thickness of Strata	Formation	Total Depth	Remarks
12	soil + clay	12	
8	shale	20	
5	lime	25	
8	shale	33	
16	lime	49	
8	shale	57	
10	lime	67	
7	shale	74	
26	lime	100	
7	shale	105 107	
28	lime	135	
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25	lime	345	
11	shale	356	
22	lime	378	

NOTES:

960 TD
 5 5/8 hole
 926.25 2 7/8
 20' 7" surface
 3 sacks cement
 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