

Johnson County, KS  
Well: Meyer I-23  
Lease Owner:DZ Exploracion

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

Commenced Spudding:  
11-12-2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 14	Soil & Clay	14
13	Shale	27
5	Lime	32
5	Shale	37
17	Lime	54
9	Shale	63
8	Lime	71
8	Shale	79
75	Lime	104
15	Shale	119
18	Lime	137
15	Shale	152
54	Lime	206
18	Shale	224
8	Lime	232
22	Shale	254
18	Lime	272
35	Shale	307
1	Lime	308
12	Shale	320
23	Lime	343
10	Shale	353
27	Lime	375
4	Shale	379
4	Lime	383
5	Shale	388
5	Lime	393
176	Shale	569
7	Lime	576
11	Shale	587
4	Lime	591
17	Shale	608
4	Lime	612
171	Shale	733
1	Lime	734
10	Shale	744
11	Sandy Shale	755
10	Shale	765
6	Sandy Shale	771
82	Shale	853



# 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. I-23

Farm Meyer

KS Johnson  
(State) (County)

28 14 22  
(Section) (Township) (Range)

For Dr 2 Exploration  
(Well Owner)

## Town Oilfield Services, Inc.

1207 N. 1st East  
Louisburg, KS 66053  
913-710-5400



Thickness of Strata	Formation	Total Depth	Remarks
14	Soil only	14	
13	Shale	29	
5	Lime	32	
5	Slate	37	
17	Lime	54	
9	Slate	63	
2	Lime	71	
3	Slate	79	
75	Lime	104	
15	Slate	119	
18	Lime	137	
15	Slate	152	
59	Lime	200	
18	Slight	224	
3	Lime	232	
22	Slate	254	
13	Lime	272	
35	Slate	307	
1	Lime	308	
12	Slate	320	
23	Lime	343	
10	Slate	353	
27	Lime	375	
4	Slate	379	
4	Lime	383	
5	Slate	388	
5	Lime	393	He. 4th &

-2-

-3-



NOTES:

960' TD  
 929.75' pipe  
 3 sacks cement  
 20.7' surface  
 5 5/8" hole  
 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