

Jouhnson County, KS
Well: Meyer I-13
Lease Owner:DZ Exploration

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

Commenced Spudding:
11/12/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 18	Soil & Clay	18
10	Shale	28
6	Lime	34
6	Shale	40
16	Lime	56
9	Shale	65
9	Lime	74
8	Shale	82
23	Lime	105
13	Shale	118
26	Lime	144
8	Shale	152
13	Lime	165
6	Shale	171
37	Lime	208
17	Shale	225
8	Lime	233
21	Shale	254
8	Lime	262
4	Shale	266
7	Lime	273
35	Shale	308
1	Lime	309
11	Shale	320
27	Lime	347
10	Shale	357
22	Lime	379
3	Shale	382
4	Lime	386
5	Shale	391
6	Lime	397
174	Shale	571
12	Lime	583
8	Shale	591
6	Lime	597
17	Shale	614
3	Lime	617
50	Shale	667
5	Lime	672
67	Shale	739

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 $SPM \times D$

$$\text{BELT LENGTH} = 2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$$

* Need these to figure belt length

$$\text{TO FIGURE AMPS: } \frac{\text{WATTS}}{\text{VOLTS}} = \text{AMPS}$$

746 WATTS equal 1 HP

Log Book

Well No. I-13

Farm Meyer

KS 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

ON

NO.

Thickness of Strata	Formation	Total Depth	Remarks
18	soil & clay	18	
10	shale	28	
6	lime	34	
6	shale	40	
16	lime	56	
9	shale	65	
9	lime	74	
8	shale	82	
23	lime	105	
13	shale	118	
26	lime	144	
8	shale	152	
13	lime	165	
6	shale	171	
37	lime	208	
17	shale	225	
8	lime	233	
21	shale	254	
8	lime	262	
4	shale	266	
7	lime	273	
35	shale	308	
1	lime	309	
11	shale	320	
27	lime	347	
10	shale	357	
22	lime	379	

379

Thickness of Strata	Formation	Total Depth	Remarks
3	shale	382	
4	lime	386	
5	shale	391	
6	lime	397	Hertha
174	shale	571	
12	lime	583	
8	shale	591	
6	lime	597	
17	shale	614	
3	lime	617	
50	shale	667	
5	lime	672	
67	shale	739	
7	broken sand	746	
12	sandy shale	758	
101	shale	859	
1	broken sand	860	lite bleed good saturation
3	limey sand	863	very hard no oil
1	broken sand	864	good bleed good saturation
9	oil sand	873	very good bleed great saturation
7	sandy shale	880	
80	shale	960	TD