

Johnson County, KS
Well: E.Gordon 13
Lease Owner: D Z

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

Commenced Spudding:
11-27-2013

WELL LOG

Thickness of Strata	Formation	Total Depth
30	soil/clay	30
18	shale	48
5	lime	53
6	shale	59*
15	lime	74
10	shale	84
8	lime	92
8	sandy shale and sand	100
18	lime	118
19	sand and sandy shale	137
19	lime	156
8	shale	164
57	lime	221
20	shale	241
8	lime	249
20	shale	269
6	lime	275
4	shale	279
*9	lime	288
35	shale	323
2	lime	325
10	shale	335
27	lime	362
7	shale	369
23	lime	392
5	shale	397
4	lime	401
4	shake	405
6	lime	411
5	shale	416
5	sand	421
11	sandy shale	432
92	shale	524
9	sand	533
5	sandy shale	538
46	shale	584
6	lime	590
12	shale	602
7	lime	609
17	shale	626

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. 13

Farm East Gordon

KS Johnson
(State) (County)

27 14 20
(Section) (Township) (Range)

For D12 Exploration
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Thickness of Strata	Formation	Total Depth	Remarks
30	soil/clay	30	
18	shale	48	
5	lime	53	
6	shale	59	
15	lime	74	
10	shale	84	
8	lime	92	
8	sandy shale + sand	100	
18	lime	118	
19	sand + sandy shale	137	
19	lime	156	
8	shale	164	
57	lime	221	
20	shale	241	
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7	shale	369	
23	lime	392	
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4	lime	401	

401			
Thickness of Strata	Formation	Total Depth	Remarks
4	shale	405	
6	Lime	411	Martha
5	shale	416	
5	sand	421	
11	sandy shale	432	grey, no oil
92	shale	524	
9	sand	533	
5	sandy shale	538	grey, no oil
46	shale	584	
6	Lime	590	
12	shale	602	
7	Lime	609	
17	shale	626	
4	Lime	630	
7	shale	637	
4	Lime	641	
3	shale	644	
2	Lime	646	
39	shale	685	red bed. 650'
20	sand	705	grey, no oil
10	sandy shale	715	
37	shale	752	
5	Broken sand	757	open, little oil
10	sandy shale	767	
21	shale	788	
8	sand	796	
5	sandy shale	801	no oil

