

Johnson County, KS
 Well: E. Gordon I-4
 Lease Owner: D and Z

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

Commenced Spudding:
 03/20/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
5	soil/clay	5
12	sandstone	17
26	shale	43
6	lime	49
5	shale	54
15	lime	69
9	shale	78
8	lime	86
9	sandy shale and sand	95
20	lime	115
15	shale	120
20	lime	150
8	shale	158
56	lime	214
21	shale	235
8	lime	243
21	shale	264
7	lime	271
4	shale	275
9	lime	284
35	shale	319
1	lime	3220
11	shale	331
24	lime	355
7	shale	362
24	lime	386
5	shale	391
4	lime	395
5	shale	400
5	lime	405
5	shale	410
17	sandy shale	427
87	shale	514
7	sand	521
6	sandy shale	527
53	shale	580
4	lime	584
2	shale	586
1	lime	587
10	shale	597

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. # 1-4

Farm East Garden

KS Johnson
(State) (County)

27 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
5	sol/clay	5	
12	sandstone	17	
26	shale	43	
6	lime	49	
5	shale	54	
15	lime	69	
9	shale	78	
8	lime	86	
9	sandstone	95	
20	lime	115	
15	shale	130	
20	lime	150	
8	shale	158	
56	lime	214	
21	shale	235	
8	lime	243	
21	shale	264	
7	lime	271	
4	shale	275	
9	lime	284	
35	shale	319	
1	lime	320	
11	shale	331	
24	lime	355	
7	shale	362	
24	lime	386	
5	shale	391	

391

Thickness of Strata	Formation	Total Depth	Remarks
4	Lime	395	
5	shale	400	
5	Lime	405	
5	shale	410	
17	sandy shale	427	
87	shale	514	
7	sand	521	gray, no oil
6	sandy shale	527	
53	shale	580	
4	Lime	584	
2	shale	586	
1	Lime	587	
10	shale	597	
6	Lime	603	
19	shale	622	
4	Lime	626	
8	shale	634	
1	Lime	635	
4	shale	639	
3	Lime	642	
34	shale	676	red bed - 647'
15	sand	691	gray, no oil
15	sandy shale	706	
39	shale	745	
6	Broken sand	751	odor, very little show
5	sandy shale	756	
30	shale	786	

