

Franklin County, KS

Town Oilfield Service, Inc.

Commenced Spudding:

Well: Duffy 33

(913) 837-8400

2-23-2015

Lease Owner: TDR Construction

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 35	Soil - Clay	35
19	Shale	54
9	Lime	63
1	Shale	64
17	Lime	81
8	Shale	89
10	Lime	99
4	Shale	103
21	Lime & Shale	124
36	Shale	160
19	Lime	179
76	Shale	255
24	Lime	279
23	Shale	302
6	Lime	308
22	Shale	330
2	Lime	332
20	Shale	352
1	Lime	353
16	Shale	369
7	Lime	376
3	Shale	379
13	Lime	392
13	Shale	405
19	Lime	424
4	Shale	428
3	Lime	431
5	Shale	436
5	Lime	441
126	Shale	567
10	Sand	577
44	Shale	621
8	Lime	629
38	Shale	667
3	Lime	670
36	Shale	706
3	Lime	709
16	Shale	725
17	Sand	742
10	Sandy Shale	752

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. 33

Farm Duffy

KS
(State) (County)

32 15 21
(Section) (Township) (Range)

For JDR construction
(Well Owner)

Town Oilfield Services, Inc.

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

Thickness of Strata	Formation	Total Depth	Remarks
0-35	soil-clay	35	
19	shale	54	
9	lime	63	
1	shale	64	
17	lime	81	
8	shale	89	
10	lime	99	
4	shale	103	
21	lime & shells	124	
36	shale	160	
19	lime	179	
76	shale	255	
24	lime	279	
23	shale	302	
6	lime	308	
22	shale	330	
2	lime	332	
20	shale	352	
1	lime	353	
16	shale	369	
7	lime	376	
3	shale	379	
13	lime	392	
13	shale	405	
19	lime	424	
4	shale	428	
3	lime	431	

Town Oilfield Service

P.O Box 339 Louisburg, Ks 66053
913-837-8400

Ticket Number _____
Location _____
Foreman _____

Field Ticket & Treatment Report Cement

Date	Customer#	Well Name & Number	Section	Township	Range	County
2-24-15		Duffy 33	32	15	21	FR
Customer		Mailing Address				
TDR Cont. Inc.						
		City	State	Zip Code		

Job Type long string Hole Size 5 5/8 Hole Depth 840 Casing Size & Weight 2 7/8
 Casing Depth 814.20 Drill Pipe _____ Tubing _____ Other _____
 Displacement 4.6 Displacement PSI 500 Mix PSI 200 Rate 5 1382 per min.

Remarks _____

Account Code	Quantity or Units	Description of Services or Product	Unit Price	Total
		Pump Charge		700
		Cement Truck		250
		Water Truck		150
	120	Cement	8	960
		Gel		
		Plug		25
			Sales Tax	
			Estimated Total	2085

Authorization [Signature] Title Owner Date 2-24-15

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.