

Commenced Spudding:
9/28/14

[illegible]

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

Farm Denny

KS Johnson
(State) (County)

11 15 23
(Section) (Township) (Range)

For TDR Construction Inc
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

State; Well No. _____

Elevation 1029

Commenced Spuding Sept 28, 2014

Finished Drilling Sept 30, 2014

Driller's Name Westy Dollar

Driller's Name W/ea Perry

Driller's Name**Tool Dresser's Name**

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name 105

11	15	23
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(Section)

(Township)

{Range}

Distance from 2 line, 1225 ft

Distance from E line, 4615 ft.

7 sacks

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____

8" ^{5/8} Set 21 8" Pulled

6 1/4" Set _____ 6 1/4" Pulled _____

4" Set 4" Pulled

2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

[illegible]

Thickness of Strata	Formation	Total Depth	Remarks
0-14	Soil - clay	14	
106	Shale	120	
29	Lime	149	Shells
20	Shale	169	
3	redbed	172	
11	Shale	183	
5	Lime	188	
18	Shale	206	
2	chirp	208	
16	Shale	224	
1	Lime	225	
11	Shale	236	
24	Lime	260	
7	Shale	267	
21	Lime	288	
4	Shale	292	
3	Lime	295	
4	Shale	299	
10	Lime	309	Hertha
44	Shale	353	
18	sand & sandy shale	371	
4	sand	375	
5	sand & sandy shale	380	
22	sand	402	gas - 20 psi - will burn
1	sandy Lime	403	
25	Shale	428	
13	sandy shale	441	

[illegible]

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
9-30-14		Derry #1	11	15	23	JO
Customer		Mailing Address				
		City State Zip Code				

Job Type Long String Hole Size 6 3/4 Hole Depth 480 Casing Size & Weight 4 1/2 11.2 lb/ft
Casing Depth 467.90 Drill Pipe _____ Tubing _____ Other _____
Displacement 12.46 Displacement PSI 200 Mix PSI 300 Rate 4.6

Remarks _____

Account Code	Quantity or Units	Description of Services or Product	Unit Price	Total
	1	Pump Charge		1050
	1	Cement Truck		250
	1	Water Truck		250
	65	Cement	10	650
		Gel		
	1	Plug		45
			Sales Tax	
			Estimated Total	2245

Authorization [Signature] Title _____ Date 9-30-14

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.