

Franklin County, KS
Well:McCoy 1W
Lease Owner: TDR

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

Commenced Spudding:
05/21/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-48	soil-clay	48
27	slate	75
5	lime	80
2	shale	82
17	lime	99
7	shale	106
10	lime	116
6	shale	722
16	lime	138
42	shale	180
21	lime	201
74	shale	275
22	lime	297
24	shale	321
7	lime	328
42	shale	370
1	lime	321
15	shale	386
9	lime	395
3	shale	398
13	lime	411
11	shale	422
20	lime	442
4	shale	446
4	lime	450
4	shale	454
5	lime	459
28	shale	487
6	sand and sandy shale	493
14	shale	507
17	sand	524
59	shale	583
7	sand	590
48	shale	638
7	lime	645
7	shale	652
6	lime	658
9	shale	667
4	lime	671
15	shale	686

Short Cuts

TANK CAPACITY

BBL.S. (42 gal.) equals $D^2 \times .14xh$

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. 1W

Farm McCoy

(State) KS (County) Franklin

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

For TDR (Well Owner)

Town Oilfield Services, Inc.

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

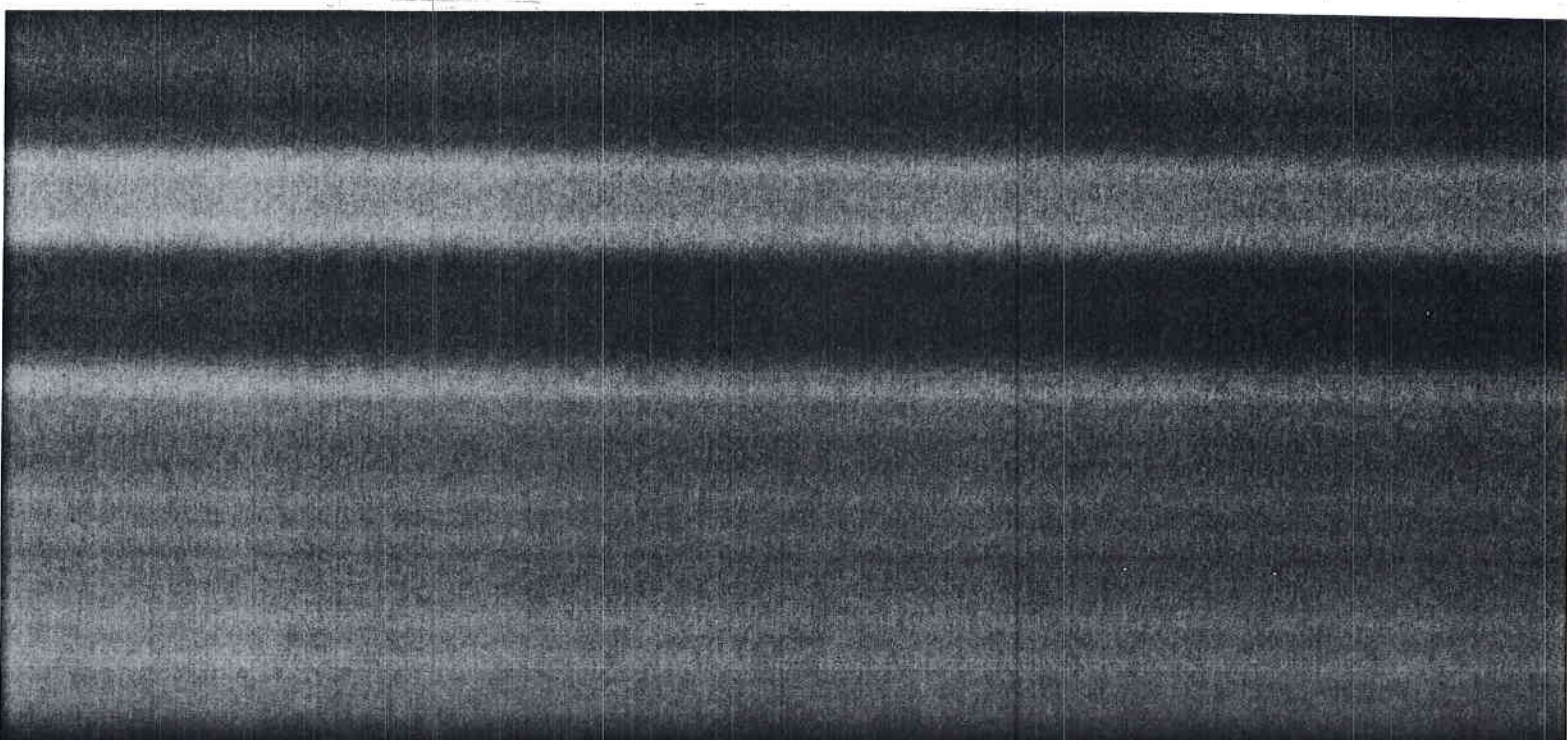
Thickness of Strata	Formation	Total Depth
0-43	Soil-Clay	48
27	Shale	75
5	Lime	80
2	Shale	82
17	Lime	99
7	Shale	106
10	Lime	116
6	Shale	122
16	Lime	138
42	Shale	180
21	Lime	201
74	Shale	275
22	Lime	297
24	Shale	321
7	Lime	328
42	Shale	370
15	Lime	321
9	Shale	386
3	Lime	395
3	Shale	398
13	Lime	411
11	Shale	422
20	Lime	442
4	Shale	446
4	Lime	450
4	Shale	454
5	Lime	459

Remarks

Months

Thickness of Strata	Formation	Total Depth	Remarks
28	Shale	497	
6	Sand & Sandy Shale	493	
14	Shale	507	No O.I.
17	Sand	524	No O.I.
59	Shale	583	
7	Sand	590	No O.I.
48	Shale	638	
7	Lime	645	
7	Shale	652	
6	Lime	658	
9	Shale	667	
13	Lime	671	
13	Shale	686	
4	Lime	690	
1	Shale	703	
1	Lime	704	
4	Shale	705	
1	Lime	709	
26	Shale	735	
1	Sand	736	No O.I.
1	Sand	737	Broken - Good Saturation
1	Lime	739	
8	Sand	746	Solid - Good
3	Sand	749	Broken
6	Sandy Shale	755	
85	Shale	840	TD 840

439



Town Oilfield Service

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

Ticket Number _____
Location _____
Foreman Lance Town

Field Ticket & Treatment Report Cement

Date	Customer#	Well Name & Number	Section	Township	Range	County
5-22-14		McBoj 1w	32	15	21	Franklin
Customer <u>TOR Cont Inc</u>		Mailing Address				
		City	State	Zip Code		

Job Type long string Hole Size 5 5/8 Hole Depth 840 Casing Size & Weight _____
Casing Depth 805 Drill Pipe _____ Tubing _____ Other _____
Displacement 4.6 Displacement PSI 300 Mix PSI 100 Rate 4 BPM

Remarks Rigged up, Established Rate down casing, mixed & pumped
120# gel followed by 100% cement circulated cement flush
pump & pumped plug

Account Code	Quantity or Units	Description of Services or Product	Unit Price	Total
		Pump Charge		700
		Cement Truck		250
		Water Truck		150
	130	Cement	8.5	1105
	2	Gel	15	30
	1	Plug	25	25
			Sales Tax	
Estimated Total				2240

Authorization [Signature] Title _____ Date 5-22-14

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.