

Franklin County, KS
Well: McCoy 4WA
Lease Owner: TDR

TDR Construction, INC.
(913) 710-5400

Commenced Spudding:
9/16/2019

WELL LOG

Thickness of Strata	Formation	Total Depth
0-45	soil-clay	45
35	shale	80
24	lime	104
7	shale	111
10	lime	121
5	shale	126
21	lime	147
37	shale	184
20	lime	204
74	shale	278
23	lime	301
23	shale	324
1	lime	325
1	shale	326
5	lime	331
42	shale	373 redbed
2	lime	375
14	shale	389
9	lime	398
2	shale	400
13	lime	413
9	shale	422
23	lime	445
4	shale	449
4	lime	453
3	shale	456
6	lime	462 hertha
127	shale	589
7	sand	596 odor-no show
44	shale	640
7	lime	647
8	shale	655
4	lime	659
8	shale	667 coal
6	lime	673
14	shale	687
3	lime	690
13	shale	703
5	lime	708
22	shale	730

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[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. 4WA

Farm McLoy

KS Franklin
(State) (County)

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

For TDR construction
(Well Owner)

TDR CONSTRUCTION, INC.

PO Box 339

Louisburg, KS 66053

913-710-5400

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4	Lime	453	
3	Shale	456	
6	Lime	462	Hertling

462

Thickness of Strata	Formation	Total Depth	Remarks
127	Shale	589	
7	sand	596	odor - no show
44	shale	640	
7	Lime	647	
8	Shale	655	
4	Lime	659	
8	Shale	667	coal
6	Lime	673	
14	Shale	687	
3	Lime	690	
13	Shale	703	
5	Lime	708	
22	Shale	730	
2	Lime	732	
5	Shale	737	
2	sand	739	no oil
1	sandy Lime	740	no oil
13	sand	753	mostly solid - good saturation
67	sandy shale	820	TD

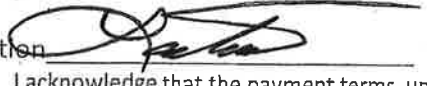
Field Ticket & Treatment Report
Cement

Date	Customer#	Well Name & Number	Section	Township	Range	County
9-19-19		McCoy 4WA	32	15	21	FR
Customer			Mailing Address			
City			State		Zip Code	

Job Type long string Hole Size 5 9/8 Hole Depth 820 Casing Size & Weight 2 7/8
Casing Depth 811 Drill Pipe _____ Tubing _____ Other _____
Displacement _____ Displacement PSI _____ Mix PSI _____ Rate _____

Remarks Rig-up, Circulate well, pump class A cement to top & pump plug.

Account Code	Quantity or Units	Description of Services or Product	Unit Price	Total
		Pump Charge		1000
		Cement Truck		500
		Water Truck		500
	137	Cement	16	2192
		Gel		
		Plug		45
			Sales Tax	
			Estimated Total	4237

Authorization  Title _____ Date _____

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.