

Franklin County, KS  
 Well: McCoy #22  
 Lease Owner:TDR Construction

TDR Construction, INC. Commenced Spudding:10/4/2019  
 (913) 710-5400

WELL LOG

Thickness of Strata	Formation	Total Depth
0-46	soil-clay	46
22	shale	68
24	lime	92
8	shale	100
11	lime	111
4	shale	115
19	lime	134
40	shale	174
19	lime	193
75	shale	268
22	lime	290
22	shale	312
10	lime	322
58	shale	380
9	lime	389
2	shale	391
14	lime	405
7	shale	412
23	lime	435
4	shale	439
4	lime	443
4	shale	447
6	lime	453 Hertha
127	shale	580
6	sand	586 grey-no oil
45	shale	631
6	lime	637
12	shale	649
2	lime	651
6	shale	657
6	lime	663
15	shale	678
3	lime	681
18	shale	698
3	lime	701
29	shale	730
1	sandy shale	731
12	sand	743 mostly solid-good saturation
97	shale	840 TD

# Short Cuts

## TANK CAPACITY

BBLS. (42 gal.) equals  $D^2 \times h$

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 - RPMxd over SPMxR

d - SPMxRxD over RPM

SPM - RPMXD over RxD

R - RPMXD over SPMxD

$$\text{BELT LENGTH} = 2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$$

\* Need these to figure belt length

WATTS = AMPS

TO FIGURE AMPS: VOLTS

746 WATTS equal 1 HP

# Log Book

Well No. 22

Farm McCoy

KS Franklin  
(State) (County)

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

For TDR Construction  
(Well Owner)

15-059-27220

## Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Mcloy Farm: Franklin County  
 KS State: Well No. 22  
 Elevation 1037  
 Commenced Spuding 10-4 20 19  
 Finished Drilling 10-8 20 19  
 Driller's Name Wesley Dollard  
 Driller's Name \_\_\_\_\_  
 Driller's Name \_\_\_\_\_  
 Tool Dresser's Name Jacob Sloan  
 Tool Dresser's Name \_\_\_\_\_  
 Tool Dresser's Name \_\_\_\_\_  
 Contractor's Name TDR  
 32 15 21

(Section) (Township) (Range)  
 Distance from S line, 3175 ft.  
 Distance from E line, 1570 ft.  
 4 sacks  
 9 hrs  
 5 3/8 barehole  
 2 7/8 casing

### CASING AND TUBING RECORD

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_  
 8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_  
 7 1/2" Set 71' 6 1/2" Pulled \_\_\_\_\_  
 4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_  
 2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

### CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.
796	-	3 1/2	1/8
828	-	Foot	
840	TD		

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4	lime	443	
4	shale	447	
6	lime	453	Heather
127	shale	580	
6	sand	586	grey - no oil
45	shale	631	
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637

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97	shale	840	mostly solid - good saturation TD



**CEMENT TREATMENT REPORT**

<b>Customer:</b>	<b>TDR Construction</b>	<b>Well:</b>	<b>McCoy #22</b>	<b>Ticket:</b>	<b>ICT2545</b>
<b>City, State:</b>	<b>Louisburg, KS</b>	<b>County:</b>	<b>FR KS</b>	<b>Date:</b>	<b>10/8/2019</b>
<b>Field Rep:</b>	<b>Lance Town</b>	<b>S-T-R:</b>	<b>NE 32-15-21</b>	<b>Service:</b>	<b>longstring</b>

**Downhole Information**

Hole Size:	5 5/8 in
Hole Depth:	840 ft
Casing Size:	2 7/8 in
Casing Depth:	827 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	baffle
Depth:	796 ft
Displacement:	4.6 bbls

**Calculated Slurry**

Weight:	# / sx
Water / Sx:	gal / sx
Yield:	ft <sup>3</sup> / sx
Bbls / Ft.:	
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	sx

Product	% / #	#
<b>Class A</b>	50%	5076
<b>Poz</b>	50%	3996
<b>Gel</b>	2%	181
<b>CaCl</b>		
<b>Gypsum</b>		
<b>Metso</b>		
<b>Kol Seal</b>		
<b>Flo Seal</b>		
<b>Salt (bww)</b>		
<b>Total</b>		<b>9,253</b>

TIME	RATE	PSI	BBLs	REMARKS
	4.0			established circulation
	4.0			mixed and pumped 200# Bentonite followed by 5 bbls fresh water
	4.0			mixed and pumped 108 sks 50/50 Pozmix cement w/ 2% Bentonite per sk
	4.0			cement to surface, flushed pump clean
	1.0			pumped 2 1/2" rubber plug to baffle w/ 4.61 bbls fresh water
				pressured to 800 PSI
				released pressure to set float valve
	4.0			washed up equipment

CREW	UNIT	SUMMARY			
Cementer:	Casey Kennedy	89	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Harold Bechtle	239	3.5 bpm	#DIV/01 psi	- bbls
Bulk #1:	Alan Mader	247			
Bulk #2:	Keith Detwiler	124			