Franklin County, KS
Well: McCoy #23
Lease Owner: TDR

TDR Construction, INC.
(913) 710-5400

Commenced Spudding:10/8/2019

WELL LOG

Thickness of Strata	Formation	Total Depth
0-55	soil-clay	55
9	shale	64
25	lime	89
7	shale	96
10	lime	106
6	shale	112
18	lime	130
40	shale	170
20	lime	190
76	shale	266
23	lime	289
22	shale	311
7	lime	318
44	shale	362
1	lime	363
16	shale	379
8	lime	387
2	shale	389
13	lime	402
12	shale	414
20	lime	434
3	shale	437
5	lime	442
4	shale	446
6	lime	452 Hertha
126	shale	578
10	sand	588 no oil
53	shale	641
2	lime	643
9	shale	652
2	lime	654
6	shale	660
4	lime	664
14	shale	678
4	lime	682
15	shale	697
4	lime	701
20	shale	721
2	lime	723
4	shale	727
2	sand	729 no oil

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3	sandy lime	732 no oil
11	sand	743 solid-great saturation
6	sand	749 broken-good oil show
91	shale	840 TD

Short Cuts

TANK CAPACITY

BBLS. (42 gal.) equals D^2x.14xh
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

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

* Need these to figure belt length

TO FIGURE AMPS: $\frac{\text{WATTS}}{\text{VOLTS}}$ = AMPS

746 WATTS equal 1 HP

Log Book

Well No. 23

Farm McCoy

KS (State) Franklin (County)

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

For TDR Construction (Well Owner)

15-059-27221

Town Oilfield Services, Inc.
1207 N. 1st East
Louisburg, KS 66053
913-710-5400

McCoy Farm: _____ County

_____ State; Well No. 23

Elevation 1034

Commenced Spuding 10-8 20 19

Finished Drilling 10-9 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, 2852 ft.

Distance from E line, 1712 ft.

5 sacks
9 hrs
5 5/8 borehole
2 7/8 casing

CASING AND TUBING RECORD

10" Set		10" Pulled	
8" Set		8" Pulled	
6¼" Set	32	6¼" Pulled	
4" Set		4" Pulled	
2" Set		2" Pulled	

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
781		Baffle			
806		Float		27/8	
840		TD			

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12	Shale	414	
20	Lime	434	
3	Shale	437	
5	Lime	442	
4	Shale	446	
6	Lime	452	Martha
126	Shale	578	
10	Sand	588	no Oil

588

Thickness of Strata	Formation	Total Depth	Remarks
53	Shale	641	
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20	Shale	721	
2	Lime	723	
4	Shale	727	
2	Sand	729	no Oil
3	Sandy Lime	732	no Oil
11	Sand	743	solid - great saturation
6	Sand	749	broken - good oil Show
91	Shale	840	TD

CEMENT TREATMENT REPORT

Customer:	TDR Construction	Well:	McCoy #23	Ticket:	ICT2558
City, State:	Louisburg, KS	County:	FR KS	Date:	10/9/2019
Field Rep:	Lance Town	S-T-R:	NE 32-15-21	Service:	longstring

Downhole Information	
Hole Size:	5 5/8 in
Hole Depth:	840 ft
Casing Size:	2 7/8 in
Casing Depth:	806 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	baffle
Depth:	781 ft
Displacement:	4.5 bbls

Calculated Slurry	
Weight:	# / sx
Water / Sx:	gal / sx
Yield:	ft^3 / sx
Bbls / Ft.:	
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	#DIV/0! sx

Product	% / #	#
Class A	50%	4935
Poz	50%	3885
Gel	2%	176
CaCl		
Gypsum		
Metso		
Kol Seal		
Flo Seal		
Salt (bww)		
	Total	8,996

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 105 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/ 4.52 bbls fresh water
				pressured to 800 PSI
				released pressure to set float valve
				washed up equipment

	CREW	UNIT
Cementer:	Casey Kennedy	89
Pump Operator:	Harold Bechtle	239
Bulk #1:	Alan Mader	247
Bulk #2:	Keith Detwiler	124

SUMMARY		
Average Rate	Average Pressure	Total Fluid
3.4 bpm	#DIV/0! psi	- bbls

Hurricane Services, Inc.
250 N. Water
Wichita, KS 67202