

Franklin County, KS
 Well: N. Moldenhauer #23A
 Lease Owner: TDR

TDR Construction, INC
 (913) 710-5400

Commenced Spudding: 10/18/19

WELL LOG

Thickness of Strata	Formation	Total Depth
21	soil & clay	21
49	shale	70
4	lime	74
5	shale	79
16	lime	95
8	shale	103
10	lime	113
4	shale	117
20	lime	137
38	shale	175
21	lime	196
81	shale	277
40	lime	317
20	shale	337
1	lime	338
20	shale	358
3	lime	361
14	shale	375
10	lime	385
1	shale	386
13	lime	399
10	shale	409
22	lime	431
4	shale	435
2	lime	437
5	shale	442
6	lime	448 Hertha
119	shale	567
10	sand	577 very little odor & show
35	shale	612
5	sand	617 no oil
4	shale	619
11	lime	630
19	shale	649
2	lime	651
29	shale	670
5	lime	675
11	shale	686
3	lime	689
2	shale	691
4	lime	695

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Thickness of Strata	Formation	Total Depth
13	shale	708
2	lime	710
11	shale	721
2	sandy shale	723
2	sand	725 broken
7	sand	732 solid-good saturation & bleed
6	sand	738 broken - good saturation
4	sand	742 mostly solid
2	sand	744 broken
14	sandy shale	758
62	shale	820 TD

Log Book

Well No. 23 A

Farm N. Moldenhauer

KS Franklin
(State) (County)

29 15 21 E
(Section) (Township) (Range)

For TDR Construction
(Well Owner)

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

N. Molbenhaus Farm: Franklin County

KS State: Well No. 23A

Elevation 1010' 10/18 20/19

Commenced Spuding 10/23 20/19

Finished Drilling Ryan Ward

Driller's Name

Driller's Name

Tool Dresser's Name Seab Shown

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TDR

Contractor's Name 29 15 21 E

(Section) (Township) (Range)

Distance from S line, 207 ft.

Distance from E line, 4888 ft.

3 SA

5-5/8" bore hole

2-7/8" casing

CASING AND TUBING RECORD

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
773'	to	136ft			
804'	Total Dip			2-7/8"	
820'	TD				

- 10" Set 10" Pulled
- 8" Set 8" Pulled
- 6 1/2" Set 21' 6 1/2" Pulled
- 4" Set 4" Pulled
- 2" Set 2" Pulled

Thickness of Strata	Formation	Total Depth	Remarks
21	Soft Clay	21	
49	Shale	70	
4	Lime	74	
5	Shale	79	
16	Lime	95	
8	Shale	103	
10	Lime	113	
4	Shale	117	
20	Lime	137	
38	Shale	175	
21	Lime	196	
81	Shale	277	
40	Lime	317	
20	Shale	337	
1	Lime	338	
20	Shale	358	
3	Lime	361	
14	Shale	375	
10	Lime	385	
1	Shale	386	
13	Lime	399	
10	Shale	409	
22	Lime	431	
4	Shale	435	
2	Lime	437	
5	Shale	442	
6	Lime	448	

Hertha

448

Thickness of Strata	Formation	Total Depth	Remarks
19	Shale	567	
10	Sand	577	
35	Shale	612	very little odor + snow
5	Sand	617	
4	Shale	619	No oil
11	Lime	630	
19	Shale	649	
2	Lime	651	
29	Shale	680 670	
5	Lime	675	
11	Shale	686	
3	Lime	689	
2	Shale	691	
4	Lime	695	
13	Shale	708	
2	Lime	710	
11	Shale	721	
2	Sandy Shale	723 723	
2	Sand	725 725	Broken
7	Sand	732	Solid - Good Substraction + Good
6	Sand	738	Broken - Good Substraction
4	Sand	742	Mostly Solid
2	Sand	744	Broken
14	Sandy Shale	758 758	
	Shale	820	T.D.



CEMENT TREATMENT REPORT

Customer:	TDR Construction	Well:	North Moldenhauer #23A	Ticket:	ICT2646
City, State:	Louisburg, KS	County:	FR, KS	Date:	10/24/2019
Field Rep:	Lance Town	S-T-R:	SW 29-15-21	Service:	longstring

Downhole Information	
Hole Size:	5 5/8 in
Hole Depth:	820 ft
Casing Size:	2 7/8 in
Casing Depth:	804 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	baffle
Depth:	773 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	50.00	4794
Poz	50.00	3774
Gel	2.00	171
CaCl		
Gypsum		
Metso		
Kol Seal		
Flo Seal		
Salt (bww)		

Total **8,739**

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 102 sks 50/50 Pozmix cement w/ 2% Bentonite per sk
4.0				cement to surface, flushed pump clean
2.0				pumped 2 1/2" rubber plug to baffle w/ 4.47 bbls fresh water
				pressured to 800 PSI, released pressure to set float valve
4.0				washed up equipment

	CREW	UNIT	SUMMARY		
	Average Rate	Average Pressure	Total Fluid		
Cementer:	Casey Kennedy	239	3.66667 bpm	#DIV/0! psi	- bbls
Pump Operator:	Alan Mader	246			
Bulk #1:					
Bulk #2:					