



24 S. Gold

Paola, KS 66071

Allen's Holdings & Investments
Oil & Gas Well Drilling
Water Wells
Geo-Loop Installation

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WELL LOG

Midstates Energy Operating, LLC

Thrasher #1-4

API #15-045-22291-00-00

September 26,2019-September 27,2019

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
3	soil & clay	3
13	sandstone	16
17	shale	33
1	lime	34
33	shale	67
4	sandstone	71
8	lime	79
41	shale	120 Few thin sandstone seams
24	lime	144
6	shale	150
7	lime	157
15	shale	172
22	lime	194
29	shale	223
16	lime	239
5	shale	244
26	lime	270
34	shale	304
12	lime	316
1	shale	317
10	lime	327
13	shale	340
11	lime	351
15	shale	366
12	lime	378
10	shale	388
12	lime	400
4	shale	404
16	lime	420
7	shale	427
23	lime	450
6	shale	456
4	lime	460
3	shale	463
7	lime	470 Base of Kansas City/Hertha
168	shale	638
5	lime	643
4	shale	647
7	lime	654

6	shale	660
3	lime	663
17	shale	680
5	lime	685
2	shale	687
11	lime	698
24	shale	722
1	lime	723
6	shale	729
2	silty shale	731 CP
4	oil sand	735 Brown sand, gassy, good bleed
2	broken sand	737 70% brown sand 30% laminated shale, ok bleed
2	broken sand	739 20% brown sand 80% shale, light bleed
10	silty shale	749
33	shale	782
1	lime & shells	783 TD

Drilled a 9 7/8" hole to 43.3'

Drilled a 5 5/8" hole to 783'

Set 43.3' of new 7" casing threaded and coupled with 11 sacks of cement.

Set 768' of new 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe, 1 clamp.

Cored 731'-750'

<u>Feet</u>	<u>Core Times</u>		
	<u>Minutes</u>	<u>Seconds</u>	
731		52	no show
732		41	good bleed
733		42	good bleed
734		44	good bleed
735		39	good bleed
736		45	shaley
737		37	shale
738		32	shale
739		40	shale
740		38	shale
741		42	shale
742		40	shale
743		39	shale
744		42	shale
745		39	shale
746		35	shale
747		41	shale
748		40	shale
749		38	shale
750		44	shale

