



24 S. Gold

Paola, KS 66071

Oil & Gas Well Drilling
Water Wells
Geo-Loop Installation

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WELL LOG

S & B Operating LLC

Barkis #SB-9

API #15-121-31,567

December 11 - December 12, 2018

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
6	soil & clay	6
8	shale	14
10	lime	24
58	shale	82
15	lime	97
1	shale	98
12	lime	110
13	shale	123
11	lime	134 making little water
8	shale	142
2	lime	144
21	shale	165 redbed
4	lime	169
13	shale	182
1	lime	183
25	shale	208
9	lime	217
17	shale	234
25	lime	259 oil show
7	shale	266
21	lime	287
2	shale	289
17	lime	306 base of the Kansas City
3	shale	309
2	lime	311
8	silty shale	319
4	broken sand	323 grey sand & shale/light oil show
106	shale	429
7	sand	436 hard grey sand, no odor, no show
62	shale	498
7	lime	505
2	shale	507
5	lime	512
7	shale	519
7	lime	526
18	shale	544
4	lime	548
2	shale	550
1	coal	551

4	shale	555
5	lime	560
5	shale	565
2	lime	567
2	shale	569
6	lime	575
9	shale	584
1	lime	585
5	shale	590
1	lime	591
14	shale	605
1	coal	606
32	shale	638
1	lime & shells	639
8	shale	647
1	silty shale	648
2	broken sand	650 25% brown sand, 75% shale, light bleeding gassy
5	oil sand	655 soft course gravel, brown sand, good bleeding
2.5	silty shale	657.5
0.5	broken sand	658 25% brown sand, 75% shale, light bleeding gassy
4	silty shale	662
36	shale	698
1	lime	699
27	shale	726 TD

Drilled a 9 7/8" hole to 21.5'
 Drilled a 5 5/8" hole to 726'

Set 21.5' of 7" surface casing threaded and coupled, cemented with 6 sacks cement.

Set 716' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, 1 clamp, and baffle
 Baffle set at 683.25'

	Core Times	
	<u>Minutes</u>	<u>Seconds</u>
648		45
649		33
650		44
651		43
652		45
653		45
654		40
655		32
656		36
657		39
658		40
659		38
660		40
661		39
662		38
663		34
664		39
665		36
666		37
667		39