



24 S. Gold

Paola, KS 66071

**Oil & Gas Well Drilling  
Water Wells  
Geo-Loop Installation**

Phone: 913-557-9083

Fax: 913-557-9084

**WELL LOG**

S & B Operating LLC

Barkis #SB-3

API #15-121-31,502

December 10 - December 11, 2018

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
16	soil & clay	16
6	shale	22
5	lime	27
34	shale	61
29	lime	90
15	shale	105
11	lime	116
30	shale	146
4	lime	150
40	shale	190
9	lime	199
16	shale	215
25	lime	240
9	shale	249
20	lime	269
3	shale	272
4	lime	276
1	shale	277
12	lime	289 Base of the Kansas City
5	shale	294
1	lime	295
8	shale	303
3	broken sand	306 Badly broken, 20% sand 80% shale light oil show
107	shale	413
2	silty shale	415
5	sand	420 grey sand, no odor
64	shale	484
8	lime	492
10	shale	502
8	lime	510
18	shale	528
4	lime	532 brown, light oil show
2	shale	534
1	coal	535
5	shale	540
6	lime	546
4	shale	550
10	lime	560

29	shale	589
2	lime	591
2	shale	593
1	coal	594
27	shale	621
1	lime & shells	622
7	shale	629
1	lime & shells	630
2	silty shale	632
1	broken sand	633 50% shale 50% brown sand, ok bleeding
1	oil sand	634 brown sand, good bleeding
1	broken sand	635 80% brown sand 20% shale, good bleeding
6.5	oil sand	641.5 brown sand, good bleeding
31.5	shale	673
1	coal	674
9	shale	683
1	lime	684
11	shale	695
1	sand	696 grey hard
15	shale	711 TD

Drilled a 9 7/8" hole to 22.4'

Drilled a 5 5/8" hole to 711'

Set 22.4' of 7" surface casing threaded and coupled, cemented with 5 sacks cement.

Set 701.25' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, 1 clamp, and baffle  
Baffle set at 668.4'

	Core Times	
	<u>Minutes</u>	<u>Seconds</u>
632		46
633		35
634		28
635		31
636		34
637		54
638		35
639		39
640		45
641		36
642		41
643		40
644		40
645		39
646		43
647		36
648		34
649		33
650		33
651		31