



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

Petroleum Technologies, Inc.
 Knabe A - #10i
 API #15-091-24506-00-00
 July 8, 2019-July 9, 2019

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
12	soil & clay	12
36	shale	48
5	lime	53
2	shale	55
15	lime	70
9	shale	79
8	lime	87
6	shale	93
19	lime	112
22	shale	134 Thin sandstone, laminations
30	lime	164
6	shale	170
16	lime	186
11	shale	197
28	lime	225
15	shale	240
9	lime	249
18	shale	267
9	lime	276
4	shale	280
7	lime	287
30	shale	317
3	lime	320
11	shale	331
11	lime	342
8	shale	350
9	lime	359
8	shale	367
21	lime	388
3	shale	391
4	lime	395
5	shale	400
6	lime	406 Base of Kansas City, Hertha
168	shale	574
11	lime	585
3	shale	588
7	lime	595
5	shale	600

3	limy sand	603	Hard white, no show
2	broken sand	605	Broken sand & shale, minimal bleed
13	shale	618	
5	lime	623	
10	shale	633	
5	lime	638	
27	shale	665	Redbed
7	lime	672	
64	shale	736	
6	broken sand	742	Brown sand & shale, light bleed
36	shale	778	
2	lime	780	
15	shale	795	
1	silty shale	796	
1	sand	797	
5	oil sand	802	
53	shale	855	
2	limy sand	857	
2	broken sand	859	
2	broken sand	861	
3	oil sand	864	
4	oil sand	868	
8	silty shale	876	
45	shale	921	
9	shale	930	Redbed
16	shale	946	TD

Drilled a 9 7/8" hole to 23'

Drilled a 5 5/8" hole to 946'

Set 23' of new 7" casing threaded and coupled, cemented with 6 sacks cement.

Set 926' of new 2 7/8" 8 round upset tubing with a baffle set at 896' ran 3 centralizers, 1 float shoe, 1 clamp.

Dug 1 pit