



24 S. Gold Paola, KS 66071

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

Phone: 913-557-9083  
 Fax: 913-557-9084

**WELL LOG**

Petroleum Technologies, Inc.  
 Knabe A - #4A  
 API #15-091-24502-00-00  
 July 2, 2019-July 3, 2019

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
5	soil & clay	5
6	sandstone	11
50	shale	61
4	lime	65
3	shale	68
15	lime	83
8	shale	91
10	lime	101
6	shale	107
20	lime	127
16	shale	143
33	lime	176
10	shale	186
11	lime	197
10	shale	207
20	lime	227
24	shale	251
10	lime	261
20	shale	281
7	lime	288
4	shale	292
7	lime	299
31	shale	330
1	lime	331
11	shale	342
27	lime	369
8	shale	377
23	lime	400
3	shale	403
6	lime	409
2	shale	411
7	lime	418 Base of Kansas City/Hertha
29	shale	447
7	sand	454 Grey sand, ok oil show, some gas
136	shale	590

5	lime	595
3	shale	598
3	lime	601
8	shale	609
6	lime	615
1	shale	616
2	broken sand	618 Brown sand & shale, light bleed
1	oil sand	619 Brown sand, light bleed
11	shale	630
3	lime	633
5	shale	638
4	lime	642
7	shale	649
3	lime	652
51	shale	703 Redbud
2	lime	705
24	shale	729
1	lime	730
21	shale	751
7	broken sand	758 Brown sand & shale, light bleed, gassy
37	shale	795
5	lime	800
2	shale	802
1	silty shale	803
8	shale	811
2	sand	813 Grey, no show
5	oil sand	818 Grey sand, ok bleed
42	shale	860
2	limy sand	862
13	silty shale	875
1	limy sand	876
3	silty shale	879
1	broken sand	880
1	oil sand	881
1	limy sand	882
2	oil sand	884
2	limy sand	886
1	silty shale	887
13	shale	900

Drilled a 9 7/8" hole to 20.2'

Drilled a 5 5/8" hole to 900'

Set 20.2' of new 7" casing threaded and coupled, cemented with 5 sacks cement.

Well was plugged with 10 sacks of cement @ 900' and 10 sacks of cement @ 400', filled with cement from 250' to 0'.

Well was plugged by a KCC plugging proposal.

Dug 1 pit