

13-29-86  
WELL RECORD

From Frank Oyster  
Roth & Faurot  
Independence, Ks. 21, 13  
13-29-86

C. E. ROTH & COMPANY'S HANNA WELL, NO. 1, LOCATED 200' SOUTH OF NORTH LINE, 1260' EAST OF WEST LINE OF SW 1/4 OF SEC. 13-29-8, ELK COUNTY, KANSAS. DRILLING COMMENCED NOV. 23, 1923

DRILLING COMPLETED

Sand Record

TOP PORTER SAND	2058 FT.
BOTTOM " "	2088 FT.
TOP WILCOX SAND	3015 FT.
TOTAL DEPTH	3020 FT.

Casing Record

15 1/2"	Casing	36' 8"	
12 3/8"	"	915'	
10"	"	1210'	
8 1/2"	"	1735'	
6 5/8"	"	2840'	
5 3/16"	"	3000'	with 12' Disc Anchor Packer and 5' perforated Nip. with Bloom shoe on bottom. 3020' Total.

Plotted

"Formation"

Nature of Strata	From	To	Remarks
Lime Rock	0	20	
Black Slate	20	30	
Red Rock	30	40	Little surface water at 35'
Lime	40	50	
Black Slate	50	110	
Lime	110	140	Run 2 Jts. 15 1/2" pipe 36'
White Slate	140	150	
Lime	150	170	
White Slate	170	190	
Lime	190	205	
Black Slate	205	225	
Lime	225	260	
White Slate	260	290	
Lime Brown	290	330	
Grey Slate	330	345	
Lime	345	400	
Black Slate	400	410	
Black Lime	410	430	
White Slate	430	455	
Lime	455	510	
White Slate	510	525	
Lime	525	560	
Black Slate	560	580	
Lime	580	635	
White Slate	635	650	
Lime	650	705	
Sandy Slate	705	740	1/2 B. Salt Water per hr. at 790'
Lime	740	810	
Black Slate	810	815	
Lime Sandy	815	855	
Black Slate	855	865	
Lime	865	880	
Red Rock	880	890	
Lime	890	910	Hole caving bad at 900'
Black Slate	910	915	
Lime Dark	915	920	Run 12 1/2" pipe at 915'
White Slate	920	935	
Lime	935	960	
Black Slate	960	970	
White Slate	970	1050	
Lime	1050	1060	1030' Bad Cave
Blue Lime	1060	1065	
Sandy Lime	1065	1080	1075' - 10 B. W.
Black Slate	1080	1110	
Lime	1110	1115	
Dark Slate	1115	1120	
Lime	1120	1130	
Dark Slate	1130	1135	
Black Lime	1135	1155	
Blue Slate	1155	1175	

Kanna

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Red Rock	1175	1187
Red Rock	1187	1210
Blue Slate	1210	1340
Lime	1340	1345
White Slate	1345	1365
Sandy Lime	1365	1385
Light Slate	1385	1480
Lime	1480	1515
Black Slate	1515	1525
Sandy Slate	1525	1545
Lime	1545	1565
Light Slate	1565	1585
Dark Sandy Slate	1585	1620
Lime	1620	1640
Black	1640	1690
Lime	1690	1715
Sandy Slate	1715	1735
Lime	1735	1745
White Sandy Slate	1745	1810
Lime	1810	1820
White Slate	1820	1840
Lime	1840	1845
Dark Slate	1845	1875
Brown Lime	1875	1900
Lime	1900	1915
Black Slate	1915	2005
Lime Shell	2005	2008
Broken Sandy Lime	2008	2020
Lime	2020	2035
Black Shale	2035	2050
Lime	2050	2058
Porter Sand	2058	2088
Black Slate	2088	2100
White Slate	2100	2115
" Sand	2115	2120
Black Slate	2120	2130
White Slate	2130	2200
Lime	2200	2205
White Sand	2205	2230
" Slate	2230	2280
Lime	2280	2315
Dark Slate	2315	2328
Lime	2328	2345
White Slate	2345	2350
Lime	2350	2360
Dark Slate	2360	2368
Lime	2368	2375
Dark Slate	2375	2425
Lime Shell	2425	2428
Broken Sand Lime	2428	2450
White Slate	2450	2460
Dark Slate	2460	2480
Lime Shell	2480	2483
Sand	2483	2495
White Slate	2495	2505
Pink Rock	2505	2525
Grey Slate	2525	2530
Black Slate	2530	2545
Pink Rock	2545	2555
Black Slate	2555	2560
Grey Slate	2560	2620
Lime Dark Sandy	2620	2700
White Lime	2700	2800
Grey Lime	2800	2820
Dark Lime Sandy	2820	2840
Dark Lime	2840	2850
White Water Sand	2850	2880

1-B.W. at 1370'  
 Have missed all other water so far  
 on well  
 Hole caving bad by spells but think we  
 can land our 8" pipe so we wont have to  
 do any underreaming.

Note: There was 25' more of that Red rock  
 where we set 10" pipe at 1184'. Pipe  
 followed 25' through red rock.

Reduced Hole

2630  
 1420  
 1190

6-B. W. at 2830'  
 Run 6 5/8" at 2840'  
 Pip shut off water o. k.  
 Got hole full at 2865'

Pink Lime Hard	2880	2890
Brown Lime Hard	2890	2895
Gray Lime	2895	2930
Brown Lime	2930	2940
Black Slate	2940	2948
Lime Dark	2948	2953
Black Slate	2953	2970
Lime Shell	2970	2974
Black Slate	2974	3002
Brown Lime	3002	3003
Brown Lime	3003	3005
Black Lime	3005	3012
Oil Sand	3012	3018

Show of oil (Shut down for  
5 3/16" casing)