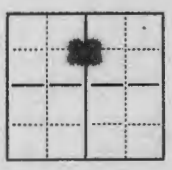


Plotted LN  
22-23-12E

WELL LOG BUREAU, KANSAS GEOLOGICAL SOCIETY  
719-720 Union National Bank Bldg., Wichita, Kansas

CASING RECORD      LOCATION <sup>7</sup> ~~22 23~~      SEC 22      T 23      R 12 E  
 10" 940      FARM Knoll      COUNTY Greenwood  
 8 1-4 1605      COMPANY Empire-Haskell et al.      NO. 1  
 18 1-2      6 5-8      CONTRACTOR  
 12 1-2 640      8 3-16 2142      COMMENCED      COMPLETED



TOTAL DEPTH      SHOT      QUARTS BETWEEN  
 CORRESPONDENCE REGARDING THIS WELL SHOULD BE REFERRED TO

FIGURES INDICATE BOTTOM OF FORMATIONS      ELEVATION Dry  
 REMARKS      INITIAL PRODUCTION

Formation	Depth	Formation	Depth	Formation	Depth
lime	15	shale	585	slate	1615
shale	20	sand      HW	615	red rock	1625
lime	25	shale	670	slate	1745
shale	30	lime	680	lime	1760
lime	35	shale	695	sand	1765
red rock	100	lime	910	lime	1775
lime	105	sand      HW	945	sand	1785
shale	145	red rock	980	(HW show oil casing)	
lime	165	shale	990	sandy lime	1800
shale	195	lime	1020	lime HW casing)	1880
lime	205	slate	1080	lime	2110
shale	225	lime	1080	slate	2180
lime	235	slate	1085	oil & water sand	2195
shale	250	lime	1100		
lime	260	slate	1130	TOTAL DEPTH	2195'
shale	305	broken lime	1180		
lime	310	slate	1250		
shale	320	lime	1270		
lime	340	slate	1340		
red rock	360	lime	1365		
lime	365	sand	1375		
shale	370	slate	1400		
lime	380	lime	1410		
shale	450	slate	1450		
lime	500	lime	1455		
shale	507	slate	1470		
lime	575	slate	1500		
		lime	1510		

22 23-12 E  
SE NE

22 - 23 - 12

Empire - Hazlett, et al.  
Noll Well No. 1.  
Greenwood County, Kansas

Knoll ?

D & H

lime	15
lime	20 - 25
lime	80 - 85
red rock	85 - 100
lime	100 - 105
lime	155 - 165
lime	195 - 205
lime	225 - 235
lime	250 - 260
lime	305 - 310
lime	320 - 340
red rock	340 - 360
lime	360 - 365
lime	370 - 380
lime	550 - 560
lime	565 - 575
sand H.F.W.	585 - 615
lime	670 - 860
lime	865 - 910
sand H.F.W.	910 - 930
lime	930 - 940
red rock	945 - 950
lime	980 - 1020
lime	1030 - 1080
lime	1085 - 1100
lime	1110 - 1130
lime	1250 - 1270
lime	1360 - 1365
sand	1365 - 1375
lime	1500 - 1510
red rock	1615 - 1625
lime	1740 - 1760
sand	1760 - 1765
lime	1765 - 1775
sand OIL show	1775 - 1785
sand lime HFW	1785 - 1800
lime	1800 - 2070
lime	2090 - 2110
sand whow OIL	2180 - 2196 )

Empire

Casing Record:

12 1/2"	640'
10"	950'
8 1/4"	1605'
5 3/16"	2142'

W. L. Stryker Est.  
W. L. Stryker Est.

223450