

Plotted Texas CO *Plotted J 21:17* 17-12-15W

Munsell No. 1, M. M. Valerius O. & G. Co.,
NW cor. NE $\frac{1}{4}$, Sec. 17, T. 12 S., R. 15 W., Russell Co., Kans.,
Rig commenced-3/2/24; drilling completed-6/14/24,
Elev.-1862'

clay, soft	yellow	0-10	lime, hard	gray	1659
shale, "	brown	185	shale, soft	red	1679
slate, "	white	215	lime, hard	gray	1690
" "	red	230	shale, soft	blue	1695
shale, "	blue	255	lime, hard	gray	1705
red rock		262	shale, soft	blue	1730
sand, soft	white	274	red rock, soft		1733
red rock		279	lime, hard	gray	1762
shale, soft	blue	323	shale, soft	red	1801
red rock		331	lime, hard	white	1816
sand, soft	brown	360	slate, soft	blue	1830
" "	"	378	lime, hard	white	1837
shale, "	blue	380	slate, soft	gray	1862
" "	"	408	lime, hard	"	1867
lime, hard	gray	411	slate, soft	blue	1871
shale, soft	blue	412	lime, hard	white	1894
quicksand, soft	gray	431	sand, " sharp	"	1913
lime, broken, med.	"	434	shale, soft	red	1930
shale, soft, sandy	"	470	lime and shale	gray	1960
" "	blue	493	hard and soft		
lime, broken, med.	brown	497	lime, hard	gray	1984
slate, soft	blue	511	shale, soft	red	1995
sand, "	dark	513	lime, hard	brown	2017
pyrite iron, hard	yellow	518	slate, soft	"	2037
shale, soft	blue	551	lime, hard	gray	2055
water sand, soft	gray	558	shale, soft	blue	2065
slate, soft, sandy	light	563	slate "	gray	2075
lime, hard	gray	571	lime, hard	"	2082
red rock, soft		648	slate, soft	blue	2088
sand rock, soft	red	651	lime, hard	white	2104
shale, soft	"	746	slate, soft	light	2116
" " sandy	blue	759	shale, "	red	2142
" "	red	863	lime shell, med.	white	2143
lime, hard	brown	867	slate, soft	blue	2150
shale, soft	red	908	lime, hard	brown	2155
lime, hard	gray	955	sand, broken, med.	"	2167
red rock, hard		1070	lime, hard	white	2183
shale, soft	brown	1105	slate, soft	blue	2195
red rock, soft		1184	slate, " sandy	light	2270
shale, soft	blue	1215	lime, hard	white	2287
" "	brown	1225	slate, soft	light	2296
" "	blue	1284	lime, hard	white	2307
slate "	light	1515	slate, soft	light	2331
shale "	blue	1558	" "	dark	2370
lime, hard	white	1559	lime, hard	gray	2378
shale, soft	light	1621	slate, soft	dark	2404
lime, hard	white	1624	shale, soft	red	2410
shale, soft sandy	blue	1651	slate, "	white	2417

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NE $\frac{1}{4}$, Sec. 17, T. 12 S., R. 15 W., Russell Co., Kans.

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slate, soft	dark	2430	<u>Sand record</u>
shale "	brown	2437	
" "	dark	2456	1 $\frac{1}{2}$ B. per hr. salt water at 262'
" "	black	2485	H. F. W. 310'
lime "	white	2496	H. F. W. 351'
shale " sandy	blue	2505	Cave at 2116'
maganese iron, hard	dark	2518	Water from 2195' to 2230' 2 B.
slate, soft	blue	2524	Showing of oil from 2524' to 2528'
shale " sandy	dark	2528	1 $\frac{1}{2}$ B. W. per hr. from 2658' to 2665'
slate "	blue	2541	Showing of oil at 2715'
pyrite iron, hard	yellow	2553	show of oil at 2735'
shale, soft	blue	2658	Good show of oil at 2795'
" " sandy	light	2665	1 B. of water at 2917'
" "	blue	2712	2 B. " " at 2905'
lime shell, hard	white	2714	Good oil showing at 2917'
shale, soft, sandy	blue	2721	Showing of oil at 2966'
" "	light	2728	
sand, hard	brown	2735	
lime "	"	2749	
sand lime, soft	dark	2751	
lime, hard	white	2772	
shale, soft	blue	2780	
lime, hard	gray	2790	
" , soft, sandy	"	2795	
" hard	"	2877	
" soft, sandy	brown	2883	
" hard	"	2902	
" soft, sandy	gray	2912	
" hard	"	2917	
" soft, sandy	"	2951	
slate lime, soft	green	2962	
lime, hard	white	2977	
shale, soft	brown	2997	
top sand		2997	
bottom (T.D.)		3037	

Casing record

15 $\frac{1}{2}$ " at 412' followed to 450'
12 $\frac{1}{2}$ " at 908'
10" at 1558'
8 $\frac{1}{2}$ " at 2163'
6-5/8" at 2674'
5-3/16" at 2996'