

Company

Sec. 20 T. 13 R. 21W  
Loc.

Farm King

No. 1

Total Depth 3972

County Trego

Comm.

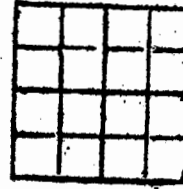
Comp.

Shot or Treated

Contractor Cent. Comm. Co

Issued

By R. Roth  
Casing



20 in.	10 in.
15 1-2	8 1-4
12 1-2	6 5-8
13 3-8	5 3-16

Elevation 2249

Production

Figures Indicate Bottom of Formation

FORMATION	TOP	BOTTOM
<u>Ft. Hays</u>		
Lime	100	120
Grey Shale	120	122
Lime	122	138
<u>Carlile Shale</u>		
Grey Shale	138	188
Lime	188	200
Grey Shale	200	210
Lime	210	213
Grey Shale	213	221
Lime	221	223
Grey Shale	223	248
Lime	248	250
Grey Shale	250	263
Lime	263	267
Grey Shale	267	288
Lime	288	300
Grey Shale	300	320
Lime	320	322
Grey Shale	322	338
Lime	338	340
Grey Shale	340	352
Lime	352	356
Grey Shale	356	372
Lime	372	375
Grey Shale	375	382
Lime	382	386
Grey Shale	386	405

FORMATION	TOP	BOTTOM
<u>Greenhorn Lime</u>		
Lime	405	408
Shale, Grey	408	411
Lime	411	417
Grey Shale	417	420
Lime	420	429
Grey Shale	429	430
Lime	430	431
Grey Shale	431	432
Lime	432	438
Grey Shale	438	442
Lime	442	445
Grey Shale	445	453
Lime	453	460
Grey Shale	460	461
Lime	461	465
Grey Shale	465	467
Lime	467	470
<u>Craneros Shale</u>		
Gray Shale	470	485
Lime	485	490
Grey Shale	490	495
Lime	495	500
Grey Shale	500	510
<u>Dakota Sand</u>		
Lime	510	511
Sand	511	515
Grey Shale	515	530
Sand	530	535

Figures Indicate Bottom of Formation

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
Dark Grey Shale	535	540	Terra Cotta Shale	782	789
Sand	540	544	Sand	789	790
Grey Shale	544	550	Grey Shale	790	792
Sand	550	555	Dark Grey Shale	792	796
Grey Shale	555	560	Brown Shale	796	800
Sand	560	568	Sand	800	810
Grey Shale	568	569	Grey Shale	810	814
Sand	569	571	Lime	814	816
Grey Shale	571	575	Brown Shale	816	820
Sand	575	620	Grey Shale	820	823
<u>Kiowa Shale</u> - 620-838			Brown Shale	823	829
Grey Shale	620	621	Sand	829	830
Brown Shale	621	635	Sandy Lime	830	834
Lime	635	639	Grey Shale	834	838
Sand	639	640	<u>Cheyenne Sand</u> - 838-992		
Lime	640	644	Shale	838	848
Sand	644	646	Grey Shale	848	853
Lime	646	650	Sand	853	868
Sand	650	651	Brown Shale	868	870
Lime	651	656	Grey Shale	870	878
Terra Cotta Shale	656	660	Sand	878	903
Lime	660	665	Lime	903	906
Terra Cotta Shale	665	670	Sand	906	918
Lime	670	673	Grey Shale	918	920
Terra Cotta Shale	673	681	Sand	920	963
Lime	681	685	Lime	963	968
Terra Cotta Shale	685	690	Sand	968	970
Sand	690	692	Terra Cotta Shale	970	978
Lime	692	695	Lime	978	980
Sand	695	705	Terra Cotta Shale	980	985
Lime	705	710	Lime	985	992
Dark Grey Shale	710	715	<u>White Horse Sand</u> 992 1451		
Sand	715	720	Sand	992	1019
Lime	720	721	Grey Shale	1019	1021
Brown Shale	721	728	Sand	1021	1023
Sand	728	730	Terra Cotta Shale	1023	1030
Brown Shale	730	733	Sand	1030	1050
Dark Grey Shale	733	734	Terra Cotta Shale	1050	1063
Sand	734	740	Sand	1053	1067
Lime	740	741	Grey Shale	1063	1120
Sand	741	746	Sand	1067	1125
Brown Shale	746	750	Terra Cotta Shale	1120	1408
Sand	750	754	Sand	1125	1410
Brown Shale	754	756	Terra Cotta Shale	1408	1419
Lime	756	760	Sand	1410	1421
Brown Shale	760	761	<u>Dog Creek Shale</u>		
Lime	761	765	Terra Cotta Shale	1441	1449
Sand	765	770	Sand	1448	1450
Brown Shale	770	772	Terra Cotta Shale	1450	1458
Sand	772	777	Sand	1458	1462
Brown Shale	777	780			
Lime	780	782			

Figures Indicate Bottom of Formation

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
Terra Cotta Shale	1462	1468	Terra Cotta Shale	1817	1821
Sand	1468	1472	Grey Shale	1821	1826
Terra Cotta Shale	1472	1479	Terra Cotta Shale	1826	1830
Sand	1479	1489	Sand	1830	1833
Terra Cotta Shale	1489	1491	Terra Cotta Shale	1833	1850
Sand	1491	1500	Gypsum	1850	1854
	1500	1600	Terra Cotta Shale	1854	1866
Sand	1600	1605	Grey Shale	1866	1870
Terra Cotta Shale	1605	1615	Terra Cotta Shale	1870	1879
Sand	1615	1620	Sand	1879	1881
Terra Cotta Shale	1620	1628	Terra Cotta Shale	1881	1884
Sand	1628	1632	Grey Shale	1884	1888
Gypsum (Shimer Gyp.)	1632	1637	Terra Cotta Shale	1888	1891
Terra Cotta Shale	1637	1640	Grey Shale	1891	1896
(Jenkins Shale)			Terra Cotta Shale	1896	1900
Gypsum	1640	1643	Sand	1900	1902
Terra Cotta Shale	1643	1648	Terra Cotta Shale	1902	1905
Gypsum	1648	1670	Gypsum	1905	1910
(Medicine Lodge GYP)			Grey Shale	1910	1919
<u>Enid</u>	1670 - 1792		Gypsum	1919	1931
Lime	1670	1673	Grey Shale	1931	1935
Terra Cotta Shale	1673	1678	Gypsum	1935	1940
Gypsum	1678	1680	Terra Cotta Shale	1940	1943
Terra Cotta Shale	1680	1685	Grey Shale	1943	1947
Gypsum	1685	1690	Gypsum	1947	1950
Terra Cotta Shale	1690	1695	Grey Shale	1950	1954
Gypsum	1695	1698	Gypsum	1954	1968
Sand	1698	1700	Grey Shale	1968	1970
Terra Cotta Shale	1700	1708	Terra Cotta Shale	1970	1977
Sand	1708	1710	Sand	1977	1981
Terra Cotta Shale	1710	1720	Grey Shale	1981	1987
Lime	1720	1723	Gypsum	1987	1990
Terra Cotta Shale	1723	1729	Grey Shale	1990	1998
Grey Shale	1729	1730	Gypsum	1998	2000
Gypsum	1730	1735	Grey Shale	2000	2009
Terra Cotta Shale	1735	1741	Gypsum	2009	2019
Sand	1741	1746	Grey Shale	2019	2020
Terra Cotta Shale	1746	1780	Gypsum	2020	2028
Gypsum	1780	1783	Grey Shale	2028	2030
Terra Cotta Shale	1783	1785	Gypsum	2030	2045
Gypsum	1785	1790	Grey Shale	2045	2050
Sand	1790	1792	Gypsum	2050	2055
<u>Wellington Sand</u>	1792 - 2316		Grey Shale	2055	2059
Gypsum	1792	1798	Gypsum	2059	2070
Grey Shale	1798	1802	Terra Cotta Shale	2070	2076
Gypsum	1802	1808	Grey Shale	2076	2078
Grey Shale	1808	1810	Terra Cotta Shale	2078	2080
Gypsum	1810	1815	Salt	2080	2100
Grey Shale	1815	1817	Grey Shale	2100	2102

Figures Indicate Bottom of Formation

Cont. from page three

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
Salt	2102	2118	Dark Gray Shale	2540	2545
Terra Cotta Shale	2118	2120	Lime	2545	2550
Grey Shale	2120	2125	Chert	2550	2555
Brown Shale	2125	2130	Lime	2555	2566
Grey Shale	2130	2133	<u>Matfield</u>		
Salt	2133	2195	Terra Cotta Shale	2566	2579
Grey Shale	2195	2200	Lime	2579	2580
page four-----			Terra Cotta Shale	2580	2585
Gypsum	2200	2262	Lime	2585	2590
<u>Sea Level</u>	2250		Terra Cotta Shale	2590	2594
Grey Shale	2262	2275	Lime	2594	2596
Terra Cotta Shale	2275	2280	Terra Cotta Shale	2595	2603
Gypsum	2280	2299	Lime	2603	2606
Terra Cotta Shale	2299	2300	Terra Cotta Shale	2606	2611
Gypsum	2300	2305	Grey Shale	2611	2615
Grey Shale	2305	2309	Terra Cotta Shale	2615	2620
Gypsum	2309	2313	Grey Shale	2620	2625
Sand	2313	2316	<u>Wreford</u>		
<u>Pearl</u>			Chert	2625	2630
Lime	2316	2320	Lime	2630	2638
Grey Shale	2320	2335	Chert	2638	2641
Terra Cotta Shale	2335	2340	Lime	2641	2643
Lime	2340	2350	Dark Gray Shale	2643	2648
Sand	2350	2353	Chert	2648	2651
Lime	2353	2368	<u>Cottonwood-Garrison</u>		
Grey Shale	2368	2370	Lime	2651	2655
Terra Cotta Shale	2370	2373	Terra Cotta Shale	2655	2660
Grey Shale	2373	2376	Gypsum	2660	2662
Terra Cotta Shale	2376	2384	Terra Cotta Shale	2662	2668
Lime	2384	2389	Grey Shale	2668	2671
Grey Shale	2389	2395	Sand	2671	2676
Terra Cotta Shale	2395	2400	Lime	2676	2682
<u>Herington Lime</u>			Terra Cotta Shale	2682	2690
Lime	2400	2430	Lime	2690	2692
Terra Cotta Shale	2430	2436	Terra Cotta Shale	2692	2705
Gypsum	2436	2440	Lime	2705	2708
Lime	2440	2442	Chert	2708	2711
Terra Cotta Shale	2442	2457	Lime	2711	2720
(Enterprise Shale)			Terra Cotta Shale	2720	2728
Sand	2457	2460	Grey Shale	2728	2730
Terra Cotta Shale	2460	2462	Terra Cotta Shale	2730	2734
Gypsum	2462	2470	Lime	2734	2762
Chert	2470	2475	Gypsum	2762	2764
Lime	2475	2485	Grey Shale	2764	2766
Sand ( <u>Luta Lime</u> )	2485	2490	Lime	2766	2800
<u>Doyle</u>			Terra Cotta Shale	2800	2820
Gypsum	2490	2496	<u>Nova</u>		
Ft. Riley-Florence Flint	2496	2506	Lime	2820	2840
Lime	2496	2535	Chert	2840	2845
Chert	2535	2539	Lime	2845	2851
Lime	2539		Dark Grey Shale	2851	2856

Figures Indicate Bottom of Formation

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
Lime	2856	2168	Dark Gray Shale	3145	3165
Gypsum	2861	2865	Lime	3165	3168
Lime	2865	2874	Dark Gray Shale	3168	3170
<u>Kindale</u>	2874 - 2938		<u>Shawnee</u>	3170 - 3288	
Green Grey Shale	2874	2905	Lime	3170	3190
Lime	2905	2910	Dark Gray Shale	3190	3200
Green Grey Shale	2910	2917	Lime	3200	3204
Dark Grey Shale	2917	2920	Green Gray Shale	3204	3210
Green Grey Shale	2920	2925	Lime	3210	3220
Lime	2925	2930	Grey Shale	3220	3230
Green Grey Shale	2930	2938	Lime	3230	3232
<u>Americua</u>	2938 - 3005		Grey Shale	3232	3235
Lime	2938	2940	Gypsum	3235	3240
Chert	2940	2944	Grey Shale	3240	3242
Lime	2944	2946	Lime	3242	3251
Grey Shale	2946	2950	Terra Cotta Shale	3251	3258
Lime	2950	2953	Gypsum	3258	3261
Chert	2953	2957	Terra Cotta Shale	3261	3265
Lime	2957	2960	Grey Shale	3265	3270
Dark Grey Shale	2960	2963	Terra Cotta Shale	3270	3271
Lime	2963	2965	Lime	3271	3274
Chert	2965	2968	Terra Cotta Shale	3274	3284
Lime	2968	2977	Grey Shale	3284	3288
Dark Gray Shale	2977	2980	<u>Douglas</u>	3288 - 3392	
Lime	2980	2990	Lime	3288	3292
Dark Grey Shale	2990	2994	Grey Shale	3292	3301
Lime	2994	2998	Sand	3301	3309
Grey Shale	2998	3000	Grey Shale	3309	3330
Lime	3000	3005	Lime	3330	3332
<u>Webannsee</u>	3005 - 3170		Grey Shale	3332	3338
Grey Green Shale	3005	3015	Lime	3338	3344
Terra Cotta Shale	3015	3020	Dark Gray Shale	3344	3347
Grey Green Shale	3020	3023	Lime	3347	3350
Lime	3023	3026	Dark Grey Shale	3350	3354
Grey, Green Shale	3026	3030	Lime	3354	3358
Dark Gray Shale	3030	3040	Dark Gray Shale	3358	3370
Lime	3040	3043	Lime	3370	3373
Gypsum	3043	3050	Dark Grey Shale	3373	3381
Dark Gray Shale	3050	3056	Lime	3381	3389
Lime	3056	3060	Dark Grey Shale	3389	3392
Dark Gray Shale	3060	3070	<u>Lansing</u>	3392 - 3575	
Lime	3070	3073	Lime	3392	3417
Dark Gray Shale	3073	3080	Chert	3417	3420
Lime	3080	3100	Dark Gray Shale	3420	3423
Black Shale	3100	3105	Lime	3423	3450
Dark Gray Shale	3105	3108	Grey Shale	3450	3452
Lime	3108	3114	Lime	3452	3478
Green Grey Shale	3114	3120	Chert	3478	3480
Lime	3120	3123	Lime	3480	3505
Grey Shale	3123	3125	Grey Shale	3505	3510
Lime	3125	3135	Lime	3510	3513
Dark Grey Shale	3135	3140	Grey Shale	3513	3515
Sand	3140				

Figures Indicate Bottom of Formation

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
Lime	3515	3545			
Grey Shale	3545	3547			
Lime	3547	3575			
<u>Marmaton</u>	3575-3850				
Black Shale	3575	3580			
Lime	3580	3583			
Dark Gray Shale	3583	3589			
Grey Shale	3589	3590			
Green Gray Shale	3590	3598			
Lime	3598	3600			
Green Grey Shale	3600	3604			
Lime	3604	3610			
Gypsum	3610	3612			
Terra Cotta Shale	3612	3617			
Grey Shale	3617	3620			
Terra Cotta Shale	3620	3625			
Grey Shale	3625	3634			
Terra Cotta Shale	3634	3636			
Lime	3636	3640			
Grey Shale	3640	3645			
Terra Cotta Shale	3645	3648			
Lime	3648	3658			
Terra Cotta Shale	3658	3661			
Lime	3661	3678			
Terra Cotta Shale	3678	3681			
Lime	3681	3683			
Terra Cotta Shale	3683	3689			
Lime	3689	3691			
Dark Brown Shale	3691	3695			
Lime	3695	3706			
Chert	3706	3709			
Lime	3709	3710			
Terra Cotta Shale	3710	3712			
Lime	3712	3726			
Grey Shale	3726	3720			
Lime	3730	2732			
Green Grey Shale	3732	3738			
Lime	3738	3842			
Green Grey Shale	3742	3750			
Chert	3750	3752			
Lime	3752	3760			
Terra Cotta Shale	3760	3766			
Lime	3766	3772			
Terra Cotta Shale	3772	2776			
Lime	3776	3780			
Grey Shale	3780	3782			
Lime	3782	3785			
Terra Cotta Shale	3785	3790			
Lime	3790	3792			
Terra Cotta Shale	3792	3794			
Lime	3794	3850			
			<u>Cherokee</u>	3850-3972	
			Terra Cotta Shale	3850	3855
			Lime	3855	3860
			Terra Cotta Shale	3860	3870
			Lime	3870	3873
			Terra Cotta Shale	3873	3892
			Green Grey Shale	3892	3900
			Terra Cotta Shale	3900	3908
			Lime	3908	3910
			Terra Cotta Shale	3910	3915
			Lime	3915	3918
			Terra Cotta Shale	3918	3929
			Lime	3929	3931
			Terra Cotta Shale	3931	3940
			Lime	3940	3942
			Terra Cotta Shale	3942	3956
			Chert	3956	3960
			Lime	3960	3972
			T.D.	3955-4004	3972
			<u>Mississippian</u>		
			3955-3960	Weathered red chert, very porous.	
			3960-3970	Granular brown dolomite lime, and translucent chert.	
			3970-3977	Fine gray granular dolomitic lime. This resembles the upper Kindenhook portion of the Mississippi lime.	
			3977-4004	Fissile green gray shale with fibrous calcite. Much weathered chert. This is probably all cave, as they are drilling in lower Mississippi line.	