

21-3154E

HITTLE NO. 1  
 SW Cor. SE/4 NE/4 21-31-4E  
 Cowley County, Kansas

Farm: Corda V. Morton (Hittle) et al  
 Owner: W. M. McKnab & B. B. Blair

Commenced Rigging up 1-17-38  
 Commenced Drilling 1-21-38  
 Completed Drilling 5- 2-38

Casing Record

20"	33' 5"
15 1/2"	400'
13 3/8"	1072'
10"	1765'
U.R. from	1687-1765'
8 1/4"	2585'
6 5/8"	3251'

Water Record

H.F.W.--bottom of cellar	
HFW	375-385'
5 BW	830'
Little water	990'
1 BW	1390-1595'
HFW	1520-1530'
1 BW	1745-1750'
HFW	1940'

Drilling Record **OWLL**

Cellar	10	10	Shale blue	5	805	
Shale light	5	15	Lime	5	810	
Sandy lime	10	25	Shale dark	5	815	
Light shale	15	40	20"-33'5"	Shale light	35	850
Lime white	40	80	Lime	10	860	
Shale	10	90	Shale	45	905	
Lime white	112	202	Lime	30	935	
Shale blue	4	206	Shale	15	950	
Lime white	19	225	Lime	20	970	
Slate	5	230	Shale white	5	975	
Lime	10	240	Lime hard	15	990 Little	
Red rock	5	245	Shale white	5	995 wtr.990'	
Lime white hard	10	255	Lime white	15	1010	
Shale	5	260	Red rock	10	1020	
Lime	25	285	Slate blue	20	1040	
Lime broken	25	310	Lime	12	1052	
Shale	5	315	Light shale	5	1057 13 3/8"	
Lime	10	325	Blue shale	58	1115 @ 1072'	
Shale white	30	355	Lime	55	1170	
Lime white broken	30	385	HFW 375-	Shale blue	50	1220
Red rock	12	397	385	Lime gray	70	1290
Lime	7	404	15 1/2"-400	Shale	10	1300
Red rock	5	409	Lime	43	1343	
Slate blue	6	415	Shale pink	2	1345	
Red rock	5	420	Lime gray	45	1390 1 BW	
Lime	10	430	Lime white	55	1445 1390-95	
Shale	20	450	Shale white	20	1465	
Lime	15	465	Shale dark	5	1470	
Slate blue	5	470	Lime brown	10	1480	
Red rock	10	480	Shale blue	20	1500	
Lime	65	545	Shale blue sandy	10	1510	
Shale	15	560	Lime white	10	1520 HFW 1520	
Lime	5	565	Sand white	40	1560 -1530'	
Shale black	5	570	Lime hd sdy gray	14	1574	
Lime	5	575	Slate blue	48	1622	
Shale white	25	600	Lime brown	3	1625	
Shale blue	10	610	Lime white	5	1630	
Red rock	10	620	shale blue	2	1632	
Sandy lime	15	635	5 BW-630	Lime hard brown	5	1637
Shale blue	5	640	Slate black	5	1642	
Lime	5	645	Brown lime	2	1644	
Shale blue	30	675	Shale blue	36	1680	
Lime	22	697	Lime	1	1681	
Red rock	9	706	Sand line corr.	6	1687 U.R.8 1/2	
Shale blue	14	720	Shale blue	2	1689 1687-	
Lime	5	725	Lime white	16	1705 1765	
Shale blue	25	750	Shale	30	1735	
Sandy shale light	15	765	Lime sandy	15	1750 1 BW	
Lime white	10	775	Slate blue	100	1850 1745-50'	
Shale light	25	800	Shale light	12	1862	

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Shale blue	43	1905	10"-1765
Sand gray	95	2000	HFW 1940
Lime gray	18	2018	
Sandy lime gray	17	2035	
Shale blue	100	2135	
Sand gray	25	2160	Wtr.
Shale blue	135	2295	
Shale black	10	2305	
Shale blue	43	2358	
Lime gray	5	2363	
Lime brown sdy	15	2378	
Shale blue	3	2381	
Lime	9	2390	
Sandy gray	9	2399	
Lime	5	2404	
Shale blue	13	2417	
K.O.Lime gray hard	14	2431	
Lime white	13	2444	
Lime gray	16	2460	
Lime white	25	2485	
Sand gray	5	2490	
Lime white	13	2503	
Lime gray	8	2511	
Lime white	7	2518	
Shale dark	5	2523	
Lime white hard	55	2578	
Shale blue	7	2585	8 1/4"-2585'
Shale light	6	2591	
Lime gray	9	2600	
Shale light	5	2605	
Shale gray	15	2620	
Sandy shale	30	2650	
Shale gray	12	2662	
Lime white hard	28	2690	
Shale blue	25	2715	
Lime brown hard	35	2750	
Shale dark	8	2758	
Lime white hard	2	2760	
Lime gray hard	20	2780	
Shale blue	2	2782	
Lime gray	5	2787	
Lime white	5	2792	
Shale blue	38	2830	
Shale black	30	2860	
Lime shell	1	2861	
Shale black	2	2863	
Lime white hard	10	2873	
Shale black	2	2875	
Lime shells	53	2928	
Shale dark	29	2957	
Chat	4	2961	
Lime white	25	2986	Top Miss.
Lime brown hard	18	3004	Lime 2957
Black lime	103	3107	
Sandy lime gray	28	3135	
Lime white	10	3145	
Green shale	2	3147	
Lime green	24	3171	
Shale blue	5	3176	
Lime white hard	2	3178	
Shale green	10	3188	
Lime blue hard	17	3205	Bot. Miss.
Shale black	21	3226	Lime 3205
Shale blue	9	3235	
Shale black	43	3278	6 5/8" 3251
Siliceous Lime	2	3280	Filled 850' in 1 1/2 hrs.
Lime	1	3281	Hole full oil
Lime brown	1	3282	
Lime brown	2	3284	Oil increased

OWLE