

Hank Lense
4-23-4
Well No. 4.
Butler County Kansas

Soil		
Red Rock		05
Lime	05	15
Lime	15	20
Slate	20	40
Lime	40	55
Lime	55	100
Slate	100	130
Lime	130	135
Slate	135	150
Lime	150	155
Slate	155	180
Lime	180	185
Slate	185	200
Lime	200	205
Slate	205	245
Lime	245	260
Lime	260	275
Shale	275	295
Lime	295	320
Shale	320	345
Lime	345	375
Slate	375	435
Red Rock	435	470
Lime	470	480
Slate	480	500
Lime	500	510
Lime	510	540
Slate	540	650
Lime	650	570
Slate	570	600
Lime	600	620
Slate	620	630
Lime	630	635
Lime	635	640
Mud Slate	640	655
Lime	655	700
Slate Mud	700	710
Lime	710	740
Slate Mud	740	755
Slate Mud	755	785
Sh ell	785	800
Slate Mud	800	805
Slate Hard	805	835
Slate Soft	835	845
Lime	845	860
Slate	860	864
Slate	864	900
Lime	900	920
Li me	920	935
Shale	935	1010
Slate	1010	1020
Slate	1020	1050
Shell	1050	1075
Slate	1075	1080
Shale	1080	1100
Li me	1100	1120
Shale	1120	1125
Lime	1125	1145
Shale	1145	1160
Lime	1160	1180
Slate	1180	1200
Shale	1200	1210
Slate	1210	1220
Lime	1220	1240
Lime	1240	1250
Brake	1250	1275
Lime	1275	1280
Lime	1280	1295
Lime	1295	1300
Slate	1300	1310
	1310	1318

Hawk Lease
4-23-4
Butler County Kansas

Li me	1318	1330
Lime	1330	1385
Black Shale	1385	1395
Slate	1395	1400
Lime	1400	1415
Shale	1415	1425
Lime	1425	1430
Shale	1430	1435
Li me	1435	1440
Lime	1440	1455
Slate	1455	1460
Lime	1460	1485
Shale	1485	1508
Lime	1508	1555
Shale	1555	1560
Lime	1560	1580
Slate & Shell	1580	1595
Lime	1595	1630
Slate	1630	1640
Slate, Li me, Shell	1640	1720
Lime	1720	1735
Slate	1735	1740
Shale	1740	1750
Lime	1750	1765
Shale	1765	1775
Slate	1775	1800
Slate	1800	1830
Lime	1830	1835
Limem	1835	1885
Slate	1885	1895
Lime	1895	1920
Shale	1920	1931
Lime	1931	1955
Shale	1955	2000
Li me	2000	2015
Lime	2015	2020
Lime	2020	2040
Lime	2040	2050
Lime	2050	2060
Sandy Shale	2060	2075
Slate	2075	2080
Lime	2080	2095
Lime Hard	2095	2130
Lime	2130	2137
Sandy Lime	2137	2145
Slate	2145	2155
Lime	2155	2160
Lime	2160	2200
Shale	2200	2220
Shale	2220	2250
Lime	2250	2265
Slate	2265	2275
Slate	2275	2280
Lime	2280	2285
Slate	2285	2295
Lime	2295	2320
Lime	2320	2370
Slate	2370	2390
Red Rock	2390	2395
Slate	2395	2405

Casing Record

116'-7"	15 $\frac{1}{2}$
860'	12 $\frac{1}{2}$
1310'	10
2021'	8 $\frac{1}{2}$
2170'	6 5/8
	5 3/16

2405 Top of sand
2408 Drilled in