

*duplicate*

**GEOLOGICAL DEPARTMENT  
SOUTHWESTERN GAS COMPANY**

INDEPENDENCE, KANSAS

**LOG OF WELL**

Company.....Shamrock Cushing.....Farm.....Hysell.....Well No.....  
 State.....Kansas.....County.....Ellsworth.....S. 4.....T. 17.....R. 8-W.....  
 Commenced Drilling.....Completed.....Elev.....  
 Shot.....Qts. from.....to.....I. P.....R. P.....  
 Casing:.....Casing:.....Casing:.....  
 Casing:.....Casing:.....Casing:.....  
 Tubing.....Caged at.....Packer at.....  
 Contractor.....

soil	5	shale	1705
sand	10	sandy shale	1725
water	15	shale	1735
12 $\frac{1}{2}$ " wood con.	17	lime	1745
sand & shell	25	shale	1760
blue mud	100	lime	1765
blue & B. Shale	160	shale	1785
water sand	175-water	lime	1800
blue mud	260	shale	1830
sandy lime	270-water	lime	1835
red rock	285	shale	1900
shale	680	lime	1905
salt	935	shale	2000
shale	950	lime	2005
salt	965	shale	2010
shale	1065	sand	2030-water
lime	1070	shale	2070
shale	1115	lime	2105
lime	1125	shale	2120
shale	1130	lime	2150
lime	1370	shale	2165
red shale	1385	lime	2270
lime	1425	shale	2300
shale	1440	lime	2340
sharp sand	1458	salt sand	2360
red shale	1470	sandy lime	2380
lime	1490	white shale	2386
shale	1513	lime	2400
brown lime	1520	lime	2415
shale	1540	sandy lime	2430
lime	1570	sand	2440
shale	1585	shale	2445
red shale	1615	lime	2465
lime	1650	sand	2475
shale	1660	lime	2485
lime	1675	white sand	2485
shale	1690	drilled at	2505-same sand
lime	1695		

**LOCATION**

					..... Ft. from North Line of qr. sec.
					..... Ft. from South Line of qr. sec.
W				E	..... Ft. from East Line of qr. sec.
					..... Ft. from West Line of qr. sec.
				S	

**TEST**

Through	Pitot Tube Test of ..... 192.....			..... 192.....
	Used	Mercury	Water	Open Gauge Test Shows
In. Tubing	Reading			
In. Casing	Vol. Cu. Ft.			..... Lbs.