



AUG 28 1942

Williams #1  
SE Corner Sec. 30-24S-2W  
Harvey County, Kansas  
Atlantic Oil Corporation

Commenced: July 16th, 1942  
 Completed: August 22, 1942

Surface clay	0	12	Lime	3474	3661
Sand	12	145	Chert	3661	3667
Clay	145	148	Lime	3667	3696
Sand	148	168	Cherty lime	3696	3715
Clay	168	235	Lime	3715	3736
Sand	235	254	Lime and chert	3736	3751
Shale	254	300	Cherty lime	3751	3767
Sand	300	312	Lime and chert	3767	3778
Shale and shells	312	448	Lime	3778	3798
Anhydrite	448	485	Shale	3798	3837
Shale and anhydrite	485	530	Lime	3837	3865
Shale	530	550	Shale	3865	3897
Shale and sand	550	599	Misner Sand and pyrite iron	3897	3915
Shale and lime	599	630	Lime	3915	3940
Shale and lime shells	630	710	Dolomite, sand and chert	3940	3975
Shale and shells	710	760	Shale	3975	3977
Lime and shale	760	820	Sand, soft	3977	3986
Shale and shells	820	905	Sand, hard	3986	3990
Shale and salt	905	970	Shale and dolomite	3990	4005
Shale and lime shells	970	990	Dolomite and sand	4005	4022
Broken lime	990	1002	Sand	4022	4033
Lime and shale	1002	1135	Arbuckle Dolomite	4033	4058
Shale	1135	1200	Arbuckle Lime	4058	4091
Lime	1200	1215			
Shale	1215	1280	TOTAL DEPTH		4091
Shale and shells	1280	1654			
Shale and lime shells	1654	1835			
Lime	1835	1900			
Shale and lime	1900	1955			
Lime	1955	1975			
Broken lime and shale	1975	2045			
Lime	2045	2090			
Lime and shale	2090	2110	15-1/2" Casing set at 184' and cemented with		
Lime	2110	2260	500 sacks of cement.		
Lime and shale	2260	2440			
Shale	2440	2530	10-3/4" Casing set at 408' and cemented with		
Lime	2530	3145	250 sacks of cement.		
Lime and shale	3145	3230			
Lime	3230	3275	8-5/8" Casing set at 800' and cemented with		
Shale	3275	3311	125 sacks of cement.		
Mississippi Lime	3311	3320			
Lime and shale	3320	3345			
Shale and chert	3345	3365			
Mississippi lime	3365	3415			
Shale and lime	3415	3474			

STATE OF OKLAHOMA }  
 } ss  
 COUNTY OF TULSA }  
 )

I hereby affirm that the above and foregoing is a true and correct copy of the log of your Williams Well #1, located in the Southeast Corner of Section 30, Township 24 South, Range 2 West, Harvey County, Kansas.

HELMERICH & PAYNE, INC.,

By William C. Helmerich  
 Treasurer

Subscribed and sworn to before me, a notary public, this 28th day of August, 1942.

My commission expires  
 July 22, 1943.

Notary Public