

Mathews #1
NW/4 of Section 14-24S-14W
Stafford County, Kansas.
Lion Oil Refining Company

Commenced: November 9, 1944
 Completed: December 12, 1944

Shale and shells	0	1665	:
Shale	1665	1765	
Anhydrite	1765	1790	
Anhydrite and streaks of shale	1790	1860	
Anhydrite	1860	1980	
Sand, hard	1980	2016	
Lime, hard	2016	2040	
Lime	2040	2650	
Lime and shale	2650	2700	
Lime	2700	2795	
Lime and shale	2795	2848	
Lime	2848	2893	
Lime and shale	2893	3095	
Lime	3095	3159	
Lime and shale	3159	3275	
Lime	3275	3360	
Lime and shale	3360	3532	
Lime	3532	3576	
Lime and shale	3576	3622	
Shale	3622	3655	
Lime	3655	3708	
K. C. Lime	3708	3735	
Lime, hard	3735	3750	
Cherty lime	3750	3760	
Lime	3760	3948	
Cherty lime	3948	3955	
Lime	3955	4010	
Conglomerate	4010	4021	
Cherty Viola	4021	4068	
Lime, hard	4068	4080	
Lime	4080	4095	
Shale	4095	4122	
Shale and lime	4122	4147	
Chert	4147	4161	
Cherty shale	4161	4174	
Chert, shale and sand	4174	4198	
Lime and shale	4198	4210	
Shale and sand	4210	4236	
Arbuckle	4236	4280	
TOTAL DEPTH	4280		

CASING RECORD

8 5/8" casing set at 530' and cemented with 300 sacks cement.

STATE OF OKLAHOMA)
)
 COUNTY OF TULSA)

I hereby affirm that the above and foregoing is a true and correct copy of the log of your Mathews #1 Well, located in the Northwest Quarter of Section 14, Township 24 South, Range 14 West, Stafford County, Kansas.

HELMERICH & PAYNE, INC.

By Lillian Broadhurst
 Treasurer

Subscribed and sworn to before me, a Notary Public, this 15th day of December, 1944.

Chas. Griffin
 Notary Public

My commission expires July 22, 1947.

14 24 140
 143 7

12-19-44