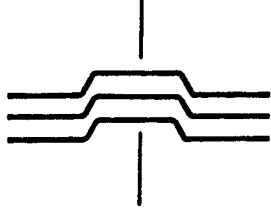


PI

36-15-26W

# SPARTAN DRILLING CORPORATION



SEP 30 1980  
State Geological Survey  
WICHITA, BRANCH

July 29, 1980

## DRILLERS LOG

RE: Thornburg "E" #1  
SW/NE/SW  
Sec. 36 T15-R26W  
Gove County, Kansas

OPERATOR: Kansas Oil Corporation  
CONTRACTOR: Spartan Drilling Corporation  
COMMENCED: 7-1-80  
COMPLETED: 7-9-80

Surface Pipe 339 ft. 12½" w/185 sx common 3% cc 2% gel

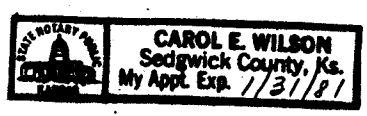
0	340	Shale & Sand
340	615	Shale
615	1715	Sand & Shale
1715	1928	Shale
1928	1965	Anhydrite
1965	3323	Shale & Lime
3323	4327	Lime & Shale
4327	4480	Lime

We certify that the above and foregoing is a true and correct copy of the log on the Thornburg "E" #1 in Gove County, Kansas.

Spartan Drilling Corporation

*Floyd C. Wilson*  
\_\_\_\_\_  
Floyd C. Wilson  
President

Subscribed and sworn to before me this 29th day of July, 1980.



*Carol E. Wilson*  
\_\_\_\_\_  
Carol E. Wilson, Notary Public

STATE OF KANSAS  
RECORDED