

JUL 19 1969

WELL LOG

COMPANY:
CONTRACTOR:
FARM:
LOCATION:

COMMENCED:
COMPLETED:
ELEVATION:

KATHOL PETROLEUM, INC.
BOWERS DRILLING COMPANY, INC.
Bolles #1
SW/4 SE/4 Sec. 10-31S-7W
Harper County, Kansas
10-18-68
10-27-68

Dry

0 - 90	Sand	8-5/8" casing set at 249' w/200 sacks cement
90 - 250	Red shells	
250 - 1450	Shale	
1450 - 1690	Shale and shells	
1690 - 3960	Lime and shale	
3960 - 4072	Lime	
4072 - 4115	Lime and shale	
4115 - 4260	Lime	
4260 - 4382	Lime and shale	
4382 - 4390	Sand	
4390	T. D.	5 1/2" casing set at 4384' w/100 sacks cement

LOG TOPS:

Heebner	3312'	(-1716)
Douglas	3406'	(-1810)
Stalnaker Sand	3589'	(-1993)
Kansas City	3853'	(-2257)
Base/K.C.	4098'	(-2502)
Cherokee	4251'	(-2655)
Mississippi	4382'	(-2786)
T.D.	4390'	(-2794)

STATE OF KANSAS)
) SS
COUNTY OF SEDGWICK)

I, Emil E. Bowers, do hereby certify that the above and foregoing is a true and correct copy of the log of the Bolles #1 located SW SE Section 10-31S-7W, Harper County, Kansas, as reflected by the files of Bowers Drilling Company, Inc.

Emil E. Bowers
Emil E. Bowers

Subscribed and sworn to before me, a Notary Public, in and for the State of Kansas, this 4th day of November, 1968.