

State

Survey

WICHITA BRANCH

15-051-21698

23-13-18W

## CONTRACTOR'S WELL LOG

OPERATOR: Graham-Michaelis Corporation  
CONTRACTOR: Abercrombie Drilling, Inc.  
WELL NAME: Pfeifer #1-23  
LOCATION: C E/2 E/2 NW/4, Section 23-13-18W  
Ellis County, Kansas  
SPUD DATE: June 10, 1979  
COMPLETION DATE: June 22, 1979

0	52	Shale
52	1640	Sand and shale
1640	1991	Sand and red bed
1991	2225	Sand and shale
2225	3310	Shale and lime
3310	3455	Lime
3455	3510	Shale and lime
3510	3560	Lime
3560	3600	Shale and lime
3600	3685	Lime
	3685	Rotary Total Depth

Spud hole at 10:00 p.m., June 10, 1979. Drilled 560' of 12 $\frac{1}{4}$ " hole. Ran 17 joints of new 8-5/8" - 24# casing. Set at 556.80' with 280 sacks of common cement, 3% Ca.Cl., 2% gel. Cement did circulate. Plug was down at 12:00 noon, June 12, 1979.

T.D. 3685'. Ran 90 joints of new 4 $\frac{1}{2}$ " - 9 $\frac{1}{2}$ # casing. Set at 3684'. Cemented with 150 sacks of common cement, 10% salt with 5 sacks of flush. Circulating cement. Plug was down at 11:15 p.m., June 22, 1979.

## SAMPLE TOPS:

Anhydrite 1356'  
B/Anhydrite 1392'

STATE OF KANSAS )  
                          ) ss  
COUNTY OF SEDGWICK )

Jack L. Partridge, Assitant Secretary-Treasurer of Abercrombie Drilling, Inc., does hereby state that the above and foregoing is a true and correct copy of the log of the Pfeifer #1-23, C E/2 E/2 NW/4, Section 23-13-18W, Ellis County, Kansas.

ABERCROMBIE DRILLING, INC.