

CONTRACTOR'S WELL LOG

OPERATOR: F & M Oil Company
CONTRACTOR: Abercrombie Drilling, Inc.
WELL NAME: Kline #1
LOCATION: C NW NW, Section 21-6-25 W
Graham County, Kansas
SPUD DATE: August 23, 1979
COMPLETION DATE: August 29, 1979

0	97	Shale and surface clay
97	302	Sand and shale
302	365	Shale
365	1958	Shale and sand
1958	2170	Shale
2170	2204	Anhydrite
2204	2836	Shale
2836	3050	Shale and lime
3050	3625	Lime and shale
3625	3915	Lime
	3915	Rotary Total Depth

Spud hole at 2:00 p.m., August 23, 1979. Drilled 232' of 12 $\frac{1}{4}$ " hole. Ran 11 joints of 8-5/8" - 28# used casing. Set at 230' RTD with 270 sacks of common cement, 3% Ca.Cl., 2% gel. Cement did circulate. Plug was down at 8:30 p.m., August 23, 1979.

T.D. 3915'. Set 1st plug at 1200' with 70 sacks, 2nd plug at 300' with 20 sacks, 3rd plug at 40' solid bridge with 10 sacks, rathole with 5 sacks. Cemented with 50/50 posmix, 6% gel. Plug was down at 2:30 a.m., August 29, 1979.

SAMPLE TOPS:

Anhydrite 2170'
B/Anhydrite 2204'

STATE OF KANSAS)
) ss
COUNTY OF SEDGWICK)

Jack L. Partridge, Assistant 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 Kline #1, C NW NW, Section 21-6-25, Graham County, Kansas.

ABERCROMBIE DRILLING, INC.