

CONTRACTOR'S WELL LOG

OPERATOR: Graham-Michaelis Corporation
CONTRACTOR: Abercrombie Drilling, Inc.
WELL NAME: Locke #6-19
LOCATION: C N/2 NW NE, Section 19-10-15W
Osborne County, Kansas
SPUD DATE: May 19, 1979
COMPLETION DATE: May 29, 1979

0	41	Shale and rock
41	324	Shale
324	1304	Shale and sand
1304	1538	Shale
1538	1991	Shale and lime
1991	2187	Sand and shale
2187	2375	Lime and shale
2375	2863	Lime
2863	3145	Lime and shale
3145	3570	Lime
3570	3640	Lime and shale
	3640	Rotary Total Depth

Spud hole at 10:00 p.m., May 19, 1979. Drilled 324' of 12 $\frac{1}{4}$ " hole. Ran 11 joints of 8-5/8" new 20# casing. Set at 323' with 240 sacks of common cement, 3% Ca.Cl., 2% gel. Cement did circulate. Plug was down at 7:30 a.m., May 20, 1979.

T.D. 3640'. Ran 90 joints of 4 $\frac{1}{2}$ " - 10 $\frac{1}{2}$ # casing. Set at 3639' with 5 sacks of salt flush, 150 sacks of common cement, 10% salt. Plug was down at 3:30 p.m., May 29, 1979.

SAMPLE TOPS:

Anhydrite 1198'
B/Anhydrite 1238'

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 Locke #6-19, C N/2 NW NE, Section 19-10-15W, Osborne County, Kansas.

ABERCROMBIE DRILLING, INC.