

OPERATOR:	Patton Oil Company
CONTRACTOR:	Abercrombie Drilling, Inc.
WELL NAME:	BERTRAND #1
LOCATION:	NE NW Section 23-11S-33W Logan County, Kansas
SPUD DATE:	January 10, 1976
COMPLETION DATE:	January 26, 1976

0	258	Clay, sand & shale
258	1670	Shale & sand
1670	2380	Shale
2380	2633	Shale & sand
2633	2658	Anhydrite
2658	3082	Shale
3082	4070	Shale & lime
4070	4142	Lime & shale
4142	4193	Shale & sand
4193	4257	Lime & shale
4257	4611	Lime
	4611	Rotary Total Depth

Drilled 259' of 12 1/4" hole. Ran 6 jts. of 8 5/8" casing. Tallied 245.11'. Set @ 253'. Cemented with 175 sx. Quick-Set cement. Plug was down @ 2:45 p.m. January 10, 1976.

Drugged and Abandoned: 1st Plug was Set @ 1250' with 70 sx. cement; 2nd Plug was Set @ 250' with 20 sx. cement; 3rd Plug was Set @ 40' with 10 sx. cement. State Plugger: Gilbert Balthazor Plug was down @ 6:30 p.m. January 26, 1976

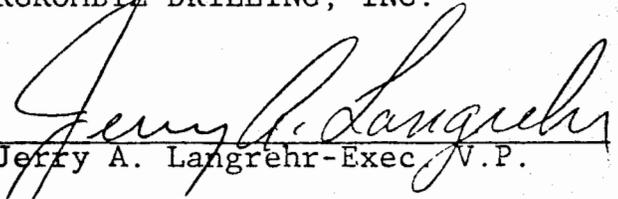
SAMPLE TOPS:

Anhydrite 2633'

STATE OF KANSAS )  
                          ) SS  
COUNTY OF SEDGWICK )

Jerry A. Langrehr, Executive Vice President of Abercrombie Drilling, Inc., does hereby state that the above and foregoing is a true and correct copy of the log of the BERTRAND #1 NE NW Section 23-11S-33W Logan County, Kansas.

ABERCROMBIE DRILLING, INC.

By:   
Jerry A. Langrehr-Exec V.P.