

PI

State Geological Survey
WICHITA BRANCH

20-13-19W

CONTRACTOR'S WELL LOG

OPERATOR: Graham-Michaelis Corp.
CONTRACTOR: Abercrombie Drilling, Inc.
WELL NAME: BEMIS #1-20
LOCATION: NW NW NW, Sec. 20-13S-19W
Ellis County, Kansas
SPUD DATE: 7/15/81
COMPLETION DATE: 7/23/81

0	292	Surface Clay, Sand & Shale
292	725	Shale
725	1423	Shale & Sand
1423	1459	Anhydrite
1459	2018	Shale
2018	2312	Shale & Lime
2312	2798	Shale
2798	3176	Shale & Lime
3176	3205	Lime
3205	3424	Shale & Lime
3424	3664	Lime
3664	3840	Lime & Conglomerate
	3840	Rotary Total Depth

Spud @ 1:00 p.m., 7/15/81. Drilled 344' of a 12½" hole. Ran 8 joints of 8 5/8" 23# casing set @ 342' RTD. Cemented with 225 sx. of common 3% c.c., 2% gel. Cement did circulate. Plug was down @ 5:45 p.m., 7/15/81.

3840' RTD. Ran 93 joints of 4½" 10' # casing set @ 3839'. Ran 5 sx. salt flush, cemented with 175 sx. common 10% salt. Plug was down @ 11:20 p.m., 7/23/81.

SAMPLE TOPS:

Anhydrite 1418' - 1464'

STATE OF KANSAS)
) SS
COUNTY OF SEDGWICK)

Jack L. Partridge, 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 BEMIS #1-20, NW NW NW, Section 20-13S-19W, Ellis County, Kansas.

ABERCROMBIE DRILLING, INC.

BY: Jack L. Partridge
Jack L. Partridge, Vice Pres.