

CONTRACTOR'S WELL LOG

OPERATOR:	Bolyard Oil & Gas, Ltd.
CONTRACTOR:	Abercrombie Drilling, Inc.
WELL NAME:	Torluemke #1
LOCATION:	C NW SW Section 35-2S-29W Decatur County, Kansas
SPUD DATE:	October 17, 1977
COMPLETION DATE:	October 23, 1977

0	260	Surface soil, sand & shale
260	800	Shale
800	2115	Shale & sand
2115	2385	Shale
2385	2420	Anhydrite
2420	3112	Shale
3112	3362	Lime & shale
3362	3580	Shale & lime
3580	3790	Lime & shale
3790	3810	Lime
3810	3866	Shale & lime
3866	3900	Shale
	3900	Rotary Total Depth

Spud hole at 5:45 p.m., October 17, 1977. Drilled 260' of 12¼" hole. Ran 7 joints of 8-5/8" casing, set at 259.84' with 200 sacks common cement, 2% gel, 3% CaCl. Cement did circulate. Plug was down at 12:01 a.m., October 18, 1977. Pipe welded and strapped.

T.D. 3900'. Set 1st plug at 1400' with 70 sacks, 2nd plug at 240' with 20 sacks, 40' solid bridge with 10 sacks. Cement by Halliburton. Cemented with 50/50 posmix, 6% gel. Plug was down at 7:00 p.m., October 23, 1977.

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 Torluemke #1, C NW SW Section 35-2S-29W, Decatur County, Kansas.

ABERCROMBIE DRILLING, INC.

By Jack L. Partridge
Jack L. Partridge
Assistant Secretary-Treasurer