

DRILLERS LOG

SANTA FE MINERALS, INC.
THELMA STEPHENS #2
SECTION 33-T34S-R34W
SEWARD COUNTY, KANSAS

COMMENCED: 11-29-88
COMPLETED: 12-02-88

SURFACE CASING: 752' OF 8 5/8"
CMTD. W/250 SX LITE "C", 2% C.C.
1/4#/SX FLOCEL, TAILED IN W/150
SX "C", 2% C.C., 1/4#/SX FLOCEL

FORMATION	DEPTH
SURFACE HOLE	0- 752
RED BED, SAND, & CLAY	752-1125
GLORIETTA SAND	1125-1290
RED BED & ANHYDRITE	1290-1452
SHALE	1452-2505
LIME & SHALE	2505-2870 RTD

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

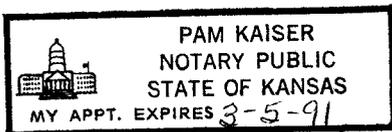
CHEYENNE DRILLING, INC.



A. J. JACQUES

STATE OF KANSAS :SS:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 5TH DAY OF DECEMBER, 1988.



PAM KAISER, NOTARY PUBLIC