

DRILLERS LOG

SANTA FE MINERALS, INC.
 O.F. DOWDY #7
 SECTION 31-T34S-R34W
 SEWARD COUNTY, KANSAS

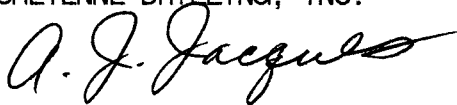
COMMENCED: 11-25-88
 COMPLETED: 11-28-88

SURFACE CASING: 750' OF 8 5/8"
 OMTD. W/250 SX LITE "C", 2% C.C.
 1/4#/SX FLOCEL, TAILED IN W/150
 SX C1 "H", 2% C.C., 1/4#/SX FLOCEL

FORMATION	DEPTH
SURFACE HOLE	0- 750
RED BED, CLAY, & SAND	750-1130
GLORIETTA SAND	1130-1440
SHALE	1440-2456
LIME & SHALE	2456-2870 RTD

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

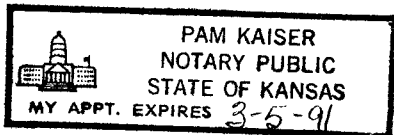
CHEYENNE DRILLING, INC.



A. J. JACQUES

STATE OF KANSAS :SS:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 30TH DAY OF NOVEMBER, 1988.



Pam Kaiser
 PAM KAISER, NOTARY PUBLIC