

DRILLERS LOG

J.M HUBER CORPORATION
ARNOLD #12-1
SECTION 12-T29S-R41W
STANTON COUNTY, KANSAS

COMMENCED: 08-10-93
COMPLETED: 08-23-93

SURFACE CASING: 1672' OF 8 5/8"
OMTD W/550 SX LT "C", 2% C.C.,
1/4#/SX FLO-CELE; TAILED IN W/
150 SX "C", 2% C.C.

FORMATION

DEPTH

CONDUCTOR HOLE	0- 40	
SURFACE HOLE	40-1716	
SHALE	1716-3450	
LIME & SHALE	3450-4000	
SHALE & LIME	4000-4254	
LIME & SHALE	4254-4502	
SHALE & LIME	4502-4595	
LIME & SHALE	4595-4933	
SHALE & LIME	4933-5065	
MORROW	5065-5151	
MORROW, LIME & SHALE	5151-5233	
MORROW, SHALE & LIME	5233-5338	
SHALE & LIME	5338-5345	
LIME & SHALE	5345-5463	
SHALE & LIME	5463-5580	
LIME & SHALE	5580-5840	
SHALE & LIME	5840-6040	RTD

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

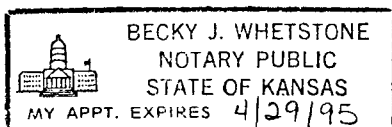
CHEYENNE DRILLING, INC.

A.J. Jacques

A.J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 25TH DAY OF AUGUST, 1993.



Becky J. Whetstone

BECKY J. WHETSTONE, NOTARY PUBLIC