

DRILLER'S LOG

Amoco Production Company
Ellis #1
C SE/NE
Section 31 - T21S - R40W
Morton, County, Kansas

Commenced: 06-05-86
Completed: 06-17-86

Surface Casing: 1720' of 9-5/8"
Cmtl w/ 650 sx 65/35 Lite, 3% cc.
5/8 flo-cele, 200 sx Class B, 3% cc,
3/4 flo-cele.

FORMATION

DEPTH

Surface Hole	0 - 1725
Sand, Shale	1725 - 2035
Shale	2035 - 3750
Shale, Lime	3750 - 3900
Lime, Shale	3900 - 4275
Lime	4275 - 4435
Lime, Shale	4435 - 4547
Lime	4547 - 4609
Lime, Shale	4609 - 4915
Narrow	4915 - 5100
Lime, Shale	5100 - 5366
Lime	5366 - 5426
Lime, Shale	5426 - 5618
Lime	5618 - 5700 RTD

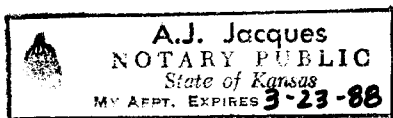
I do hereby certify that the foregoing statements are true and correct to the best of my knowledge and belief.

CHEYENNE DRILLING, INC.

Claude E. Norwood
Claude E. Norwood

STATE OF KANSAS: ss:

Subscribed and sworn to before me this 20th day of June 19 86.



A.J. Jacques
A. J. Jacques
Notary Public