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DRILLER'S LOG

W. L. HARTMAN ESTATE
No. 2 Newman-Ludeman
C S/2 NW SE
Sec 25-33S-6W
Harper Co., Ks.

Commenced: 5-9-81
Completed: 5-19-81

Surface Casing: 267' of 8-5/8"
cemented w/200 sx common

FORMATION

DEPTH

Surface Hole	0 - 269
Sand & Shale	269 - 1033
Shale & Lime	1033 - 1551
Shale	1551 - 1790
Shale & Lime	1790 - 3530
Shale & Sand	3530 - 3610
Shale & Lime	3610 - 3896
Lime	3896 - 3987
Lime & Shale	3987 - 4327
Lime	4327 - 4560 RTD

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

D N B DRILLING, INC.

James L. Donelson, Jr.
James L. Donelson, Jr.

STATE OF KANSAS: ss:

Subscribed and sworn to before me this 21st day of May, 1981.

Dorothy L. Schmidt
Dorothy L. Schmidt, Notary Public

DOROTHY L. SCHMIDT
STATE NOTARY PUBLIC
Sedgwick County, Kansas
My Appl. Exp. April 30, 1983