30-32-3W

DRILLER'S LOG

State Geological Survey
WICHITA, BRANCH

Hummon Corporation
Hartman No. 4
150' East of NW NE NW
Sec. 30-32S-3W
Sumner Co., Kansas

Commenced: 12-16-80
Completed: 12-29-80

Surface Casing: 193' of 8-5/8"
Cemented w/ 200 sx, 3% cc, 2% gel

FORMATION	DEPTH
Surface	0 - 193
Shale & Clay	193 - 702
Shale & Sand	702 - 1052
Shale & Lime	1052 - 1359
Lime w/Shale	1359 - 1535
Shale & Sand	1535 - 1869
Lime w/Shale	1869 - 1995
Sand	1995 - 2010
Lime w/Shale	2010 - 2029
Lime & Shale	2029 - 2205
Lime & Shale	2205 - 2497
Shale & Lime	2497 - 2669
Lime & Shale	2669 - 2862
Lime w/Shale	2862 - 2992
Sand & Shale	2992 - 3030
Stalnaker Sand	3030 - 3059
Shale w/Sime	3059 - 3163
Lime w/Shale	3163 - 3236
Kansas City Lime	3236 - 3358 TD

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

R. R. A., Inc.

R. R. Abderhalden

R. R. Abderhalden

STATE OF KANSAS: ss:

Subscribed and sworn to before me this 29th day of December 1980.

Ada C. May

Ada C. May

ADA C. MAY
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 10-16-83