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August 21, 1969

GEOLOGICAL REPORT

DNB DRILLING, INC. and  
KATHOL PETROLEUM, INC.  
Canon 'A' #1  
C SW NE, Sec. 13-21S-19W  
Pawnee County, Kansas

Elevation: 2122 K.B.  
2120 D.F.  
2117 G.L.

A Gamma Ray-Neutron-Guard Log was run on the well. Sample Tops are corrected and called from the electric log measurements. Perforators Incorporated did the logging.

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
Anhydrite	1246	+876
Heebner	3651	-1529
Lansing	3718	-1596
Muncie Creek	3864	-1742
Drum	3874	-1752
Base Kansas	4052	-1930
Marmaton Pawnee	4126	-2004
Lower Lime above Cherokee Sand	4194	-2072
Cherokee Sand & Chert Zone	4204	-2082

Cherokee section was mostly various colored cherts - some large rounded quartz grains and red conglomeratic shale - washed red. Three cherty sections which drilled soft were encountered from:

- 4204-4208      Circulated 1½ hrs at 4211, no oil shows.
- 4214-4219      Circulated 1½ hrs at 4222, no oil shows.
- 4226-4230      Both zones washed red and consisted mostly of variegated cherts.
- 4256-4260      White fine grained sand. No show.

Mississippi Chert	4286	-2164
Total Depth (Rotary)	4310	-2188
Total Depth (Log)	4305	-2183

The following porous zones were picked by drilling time, samples and electric log with porosity and water percentages calculated by Perforators Incorporated:

LANSING ZONES

3738-3744	Granular soft lime, no stain.	15	57
3792-3796	Granular soft lime, no stain.	12	56
3804-3810	Chalky soft lime, no stain.	11	52-85
3820-3830	Decidedly oolitic porous, no stain.	15	27-48
3876-3884	Decidedly oolitic porous, no stain.	2	58
3908-3914	Decidedly oolitic porous, no stain.	2	58
3930-3946	Decidedly oolitic porous, no stain.	11-16	32-66
4010-4017	Granular textured lime, no stain.	10	65-73

CHEROKEE

4204-4208	Vari-colored chert and rounded sand grains, drilled soft, no stain.	16	65
4214-4219	" " " " " " " " " " " " " " " " " "	13	85
4226-4230	Vari-colored chert and various sized free sand grains, no stain.	15	86
4256-4260	White fine grained sand, no stain.	17	70

MISSISSIPPI

4288-4295	White chert, no stain.	17	60-68
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The Canon 'A' #1 well ran structurally from 10 to 14 feet lower on all the lower formations than the Thunderbird #2 Schneider well drilled in the NW corner of same section. No oil shows were encountered in any of the formations. Electric log interpretations indicated no horizons worthy of testing. The hole was abandoned as a dry hole on August 20, 1969.

*M. F. Bear*  
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