

31-12s-19w

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ORIGINAL

KENMARK CORPORATION

ARMBRISTER #2

SE-NW-NE
Section 31-12-19 **W**
Ellis County, Kansas

Geological Report

API # 15-051-24900

K C C

MAR 01 1995

By:

Mark Kilian
5508 Apache
Great Bend, KS 67530

September 15, 1995

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STATE CORPORATION COMMISSION

SEP 28 1995

CONSERVATION DIVISION
Wichita, Kansas

KENMARK CORPORATION
P.O. Box 572
Hays, Kansas 67601

K C C

MAR 01 1996

RE: Armbrister #2
SE-NW-NE 31-12-19
Ellis County, Kansas

Dear Mr. Norton:

The Armbrister #2 well was drilled with rotary tools commencing August 14, 1995 to a rotary depth of 3850' (-1705 Datum), drilling was completed August 19, 1995. One (1) DST was taken covering the Marmaton and one (1) foot of the Arbuckle with positive results, 5 1/2" casing was set one (1) foot off bottom at 3849'.

Operator: KENMARK Corporation
Contractor: Duke
Elevation: 2145 K.B. 2137 G.L. 8' K.B.
Geological Supervision: 3000' to R.T.D.
Drilling Time: 3100' to R.T.D.
Samples: 3100' to R.T.D.
Drill Stem Tests: One (1) Trilobite Testers
Electric Log: Mercury Wireline RAG Log, Cement Bond Log
Pipe Record: 8 5/8" @ 215' 5 1/2" @ 3849'

<u>Formation</u>	<u>Depth</u>	<u>Subsea Datum</u>
Anhydrite	1503'	+ 642'
Topeka	3182'	- 1037'
Heebner Shale	3419'	- 1274'
Toronto	3441'	- 1296'
Lansing	3460'	- 1315'
Base Kansas City	3699'	- 1554'
Marmaton	3776'	- 1631'
Arbuckle	3798'	- 1653'
R.T.D.	3850'	- 1705'

Structural Comparison

<u>KENMARK Corporation</u>	<u>Armbrister #1</u>
Anhydrite	+ 642'
Topeka	-1041'
Lansing	-1317'
Marmaton	-1643'
Arbuckle	Not Reached
T.D.	-1680'

**KENMARK CORPORATION
Armbrister #2**

Zones Of Interest

<u>Formation</u>	<u>Depth</u>	<u>Description</u>
Plattsmouth (Shawnee)	3380-3386	Limestone; white--fine crystalline, free oil in a few broken samples, slight odor; 15% porosity.
Lansing "D" Zone	3524-3528	Limestone; cream, fine crystalline, very slight show of oil, poor odor; 12% porosity.
Lansing "G"	3546-3550	Limestone; white, intercrystalline porosity, slight show dark stain, poor odor; 20% porosity.
Lansing "J" Zone	3640-3644	Limestone; cream, pin point porosity, poor show free oil, slight odor; 12% porosity.
Marmaton	3776-3790	Chert; assorted colors, yellow, green, salmon, fair show free oil, fair odor; 14% porosity. Included in DST #1.
DST #1	Marmaton 3770-3798 Arbuckle	
Times;	30" 30" 45" 60"	
Recovery;	340' gas in pipe. 496' clean gassy oil. 92' mud cut gassy oil.	
Pressures;	HP 1928-1873#, SIP 819-819#, FP 88-111#, 155-200#.	
Arbuckle	3798-3810	Dolomite; white to buff, medium crystalline porosity with a show of free oil, faint odor.
	3810-3830	Dolomite; tan, fine to medium crystalline porosity, poor stain, dead oil, poor odor.

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Summary and Recommendations

It was recommended 5 1/2" casing be set one (1) foot off bottom at 3849' with the Marmaton and the Arbuckle then perforated.

Marmaton; 3776' to 3788'
Arbuckle; 3798' to 3804' and 3806' to 3812'

After the above mentioned zones have been produced to there economical limits the following zones should be perforated and tested before abandonment of this well.

Plattsmouth 3380' to 3386'

Lansing; "D" Zone 3524' to 3528'

Lansing; "G" Zone 3546' to 3550'

Lansing; "J" Zone 3640' to 3644'

Arbuckle 3820' to 3824'

Respectfully submitted,

Mark Kilian

Mark Kilian, Geologist
5508 Apache
Great Bend, KS 67530

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