

GEOLOGICAL REPORT


Thunderbird Drilling, Inc.

Boor No. 1

SW SE NE Sec. 9-17S-12W

Barton County, Kansas

By: Charles R. Mayfield



MAYFIELD PETROLEUM CO.

1407 No. Armour  
WICHITA, KANSAS 67202

February 1, 1967

Thunderbird Drilling, Inc.  
Woodlawn Central Building  
Wichita, Kansas

Re: Thunderbird Drilling, Inc.  
Boor No. 1  
SW SE NE  
Section 9-17S-12W  
Barton County, Kansas

Gentlemen:

Following is the sample description and geological report on the above referenced well. Samples were examined from 2800 feet to total depth and the writer was present from 2900 feet to total depth.

FORMATION TOPS

Elevation: 1874' K.B.

Heebner	2968'	(-1094)
Douglas	2996'	(-1122)
Brown Lime	3058'	(-1184)
Lansing	3077'	(-1203)
Arbuckle	3325'	(-1451)
Total Depth	3333'	(-1459)

FORMATION DESCRIPTION

Lansing-Kansas City	3077 - 3082	White, fine, crystalline limestone, trace inter-crystalline porosity and vugular porosity. Show free oil and slight odor in Drill Stem Test No. 1.
	3103 - 3108	Tan, fossiliferous limestone, free oil, fair odor, tested in Drill Stem Test No. 2.
	3159 - 3184	White to tan oolitic limestone, excellent porosity, no shows.
	3208 - 3213	White, chalky limestone, no shows.

	3239 - 3246	White, fine, crystalline to vugular limestone, trace free oil, fleeting odor.
Arbuckle	3325 - 3329	White, sucrosic to medium crystalline dolomite, no shows.
	3329 - 3333	White, medium crystalline dolomite, good odor, good show free oil tested in Drill Stem Test No. 4.

DRILL STEM TESTS

Drill Stem Test No. 1	3062 - 3090'	
	Open one hour. Fair blow throughout.	
	Recovered 180' gas in drill pipe, 20' oil cut mud, 60' slightly oil cut mud.	
	Initial flow pressure.....	47 psi.
	Final flow pressure.....	52 psi.
	Initial bottom hole pressure in 30 minutes.....	1090 psi.
	Final bottom hole pressure in 30 minutes.....	1003 psi.
Drill Stem Test No. 2	3091 - 3114'	
	Open one hour. Weak blow throughout.	
	Recovered 180' gas in drill pipe, 50' slightly oil cut mud.	
	Initial flow pressure.....	44 psi.
	Final flow pressure.....	44 psi.
	Initial bottom hole pressure in 30 minutes.....	306 psi.
	Final bottom hole pressure in 30 minutes.....	68 psi.
Drill Stem Test No. 3	3220 - 3250'	
	Open one hour. Weak blow throughout.	
	Recovered 15' mud.	
	Initial flow pressure.....	35 psi.
	Final flow pressure.....	35 psi.
	Initial bottom hole pressure in 30 minutes.....	136 psi.
	Final bottom hole pressure in 30 minutes.....	59 psi.
Drill Stem Test No. 4	3310 - 3333	
	Open one hour. Weak blow throughout.	
	Recovered 50' heavily oil cut mud.	
	Initial flow pressure.....	23 psi.
	Final flow pressure.....	35 psi.
	Initial bottom hole pressure in 30 minutes.....	1071 psi.
	Final bottom hole pressure in 30 minutes.....	1062 psi.

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CONCLUSION

It was decided by the operator, due to apparent structural position, that this well would be commercial. Pipe was set five feet off bottom.

Respectfully submitted,

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Charles R. Mayfield

CRM:fm