



K. T. WOODMAN PETROLEUM GEOLOGIST
WICHITA 3, KANSAS

July 17, 1953

WRIGHT DONATION
1995

G.

T.

Re: Fleming & Woodman and
Mid Plains Oil Corporation
No. 1 Polzin
NW NW SW Sec. 4-16S-12W
Barton County, Kansas

Mid Plains Oil Corporation
Union National Building
Wichita 2, Kansas

Gentlemen:

I have examined samples of the subject test from 2800 feet to the rotary total depth 3330. The following tops have been corrected to derrick floor measurements.

Elevation	1878 R. B.
Anhydrite	802 (+1076)
Heebner	2954 (-1076)
Dodge	2972 (-1094)
Douglas Sand	2997 (-1119)
Brown Lime	3042 (-1164)
Lansing	3052 (-1174)
Arbuckle	3320 (-1442) 14+5
Rotary Total Depth	3330 (-1452)

3052
1878
T. H.

This test was spudded July 5, 1953 and 8 5/8-inch surface pipe was cemented at 145 feet with 75 sacks posmix. July 16, 1953 we set 3321 feet of 5 1/2-inch with 100 sacks cement.

The Douglas Sand extended from 2997 to 3016 feet and was a fine-grained sand with a good odor in the wet samples and a show of free oil. A drill stem test from 2983 to 3040 had a fair blow that gradually decreased and died in 18 minutes. The tool was open 30 minutes and recovered 30 feet drilling mud. A 15-minute bottom hole pressure showed 0 pounds. If another well is drilled in this area, it would be my recommendation to core drill this section and have it analyzed by a core laboratory for possible production. It is possible this zone could be hydra-fraced and made into commercial production if it is not too shaley.

I have called the Brown Limestone at 3042. This is a questionable top since it was hard to discern whether this is a true Brown Limestone or not. Apparently most of the wells in this area have been calling this top the true Lansing and that is the zone I am using to correlate with other tops in the immediate area.

A small amount of vugular porosity with a very small show of free oil was encountered at 3060 to 3063. Fair porosity with light staining and a good odor in the wet sample was encountered at 3084 to 3090. A drill stem test was taken from 3058 to 3100. The tool was open 1 hour with a fair blow throughout. The test recovered 65 feet oil and gas cut mud. A 15-minute bottom hole pressure showed 330 pounds, and indicated it was still going up. Upon the depletion of the Arbuckle it is my recommendation to perforate the above two zones.

In the wet samples above the Arbuckle, there were a few grains of medium-sized, clear, well-rounded sand grains. There was no evidence of any Conglomerate.

The Arbuckle, encountered at 3320, was a medium to coarse crystalline white dolomite with fair to good porosity and a show of free oil and good odor in the wet samples. A drill stem test was taken from 3321 to 3330. The test had a good blow throughout and the tool was open 20 minutes, recovering 205 feet heavily oil cut mud. A 10-minute bottom hole pressure showed 700 pounds, it was estimated it would have reached 1000 pounds in 20 to 30 minutes. The oil was good gravity, probably 40 or more. It was recommended casing be set at 3321 feet.

Attached is a condensed copy of the time log from 2800 feet to total depth. Samples have been left at the Kansas Sample Bureau.

Yours very truly,

K. T. Woodman

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KTW:ar

7-1-53
POLZIN #1

Barton County

Elev. 18150.7

4-16-12 Barton

Spudded July 4, 1953

7-8-53 - drilling 1255'

7-9-53 - drilling 1750'

7-10-53 " 2020'

Amphidrite 803' 1" 9'

Drilling 2930' 7-13-53

Heckner 2954

Comp.

Logde 2972

Raughas Sand 2997^{to}-3016

good odor

show free oil

det. 2987-3040

L 30 → fair to

drilled to working

18 min

reamed 30 ft mud-

thp 15 min

Lensing 3044⁰ = 1169

WRIGHT DONATION
1995

Drilling 3080'

LP

Formations tested were
from 3060 to 63
3084 to 90

Drill Stem Test 3058-3100

Fair blow
open 1 hour
recovered 65' oil &
gas cut mud

15 minute bhp 330.

will start drilling ahead.

7-15-53 - Drilling 3210'

3320. Arkville

3321-30 det.

good Blow

open 20 min

205' heavily oil & Gas
cut mud.

closed in 10 min
bhp 700#

POWELL #1 - Barton County, Ks.

2nd drill stem test -

to test formations from 3060 -63
3084 -90

Drill stem test 3058 to 3100

Fair blow

open 1 hour

recovered 65'

oil and gas cut mud

15 min. bottom hole pressure
330#

Will start drilling ahead.
