

JOHNS AND MAGATHAN
CONSULTING GEOLOGISTS

WENDELL S. JOHNS
WILLIS JACK MAGATHAN

501 BITTING BUILDING

WICHITA 2, KANSAS

August 18, 1955

FOREST 3-1540

Mr. W. H. Amis
c/o H. L. Moore
311 National Bank of Tulsa Building
Tulsa, Oklahoma

Geological Report: W. H. Amis Jr. #2 Gobin "A"
NW NW SW, 23-26S-13W
Pratt County, Kansas
Elevation 1934 Kelly bushing
1931 Derrick floor
1927 Ground
Contractor: Peel Bros. Drlg.

FLOWLL

Dear Sir:

The #2 Gobin "A" was spudded 7-17-55 and was drilled from the surface to the total depth of 4492 with rotary tools. Samples were saved and a time log was kept from 3500 to total depth.

No electric log was run so all depths are drilling measurements. The drill pipe was strapped in the derrick at 3794, where a three foot error was found, (i.e. 3794 = 3797). All depths have been corrected up to 3750.

The following is a list of formation tops and other data of interest. Unless otherwise noted, all information is from my sample log which has been corrected for sample lag by use of the time log. All measurements are from the top of the kelly bushing and the kelly bushing elevation has been used to compute all distances from sea level.

<u>Formation Name</u>	<u>Depth Below Surface</u>	<u>Distance From Sea Level</u>	<u>Remarks</u>
8 5/8" Surface casing	803		450 sacks cement - last 200 sacks ½% calcium chloride. Cement circulated
Heebner	3592 - 98	-1658 to -1664	
Leavenworth	3598 - 3602	-1664 to -1668	
Snyderville	3602 - 10	-1668 to -1676	
Toronto	3610 - 23	-1676 to -1689	
Douglas	3623 - 3763	-1689 to -1829	
Sand	3663 - 3703		
Top Brown Lansing	3763	-1829	

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<u>Formation Name</u>	<u>Depth Below Surface</u>	<u>Distance From Sea Level</u>	<u>Remarks</u>
Top Lansing	3784	-1850	
(1) Porous zone	3815 - 27		Slight stain no odor or free oil
(2) Porous zone	3838 - 56		No show
(3) Porous zone	3895 - 3908		No show
(4) Porous zone	3931 - 37		Trace dead stain
(5) Porous zone	3949 - 51		Fair spotted stain
			Slight odor. Some free oil. Looks like water
(6) Porous zone	3954 - 56		Show as above
(7) Porous zone	3963 - 68		Possible trace stain.
			No free oil or odor
(8) Porous zone	3979 - 88		Show as above
(9) Porous zone	3994 - 4003		Some brown stain.
			Possible trace free oil no odor
(10) Porous zone	4015 - 19		Trace spotted stain no odor or free oil
(11) Porous zone	4030 - 33		Show as above
(12) Porous zone	4067 - 69		Trace spotted stain No odor or free oil
Base Kansas City	4114	-2180	
Marmaton	4114 - 4270	-2180 to -2336	No show
Mississippi	4270 - 91	-2336 to -2357	Chert - no show
			much black gilsonite
Kinderhook	4291 - 4306	-2357 to -2372	
Viola	4306 - 89	-2372 to -2455	
Chert	4306 - 20		Free oil - no odor appears to carry water D.S.T. 4298-4320
Limestone and dolomite	4320 - 4389		
Simpson	4389 - 4481	-2455 to -2547	
Sand and shale	4391 - 98		No show
Sand	4398 - 4406		No show
Dolomite	4406 - 18		Some dead stain, no odor or free oil
Sand	4420 - 26		No show
Sand	4432 - 38		No show
			D.S.T. 4384-4450
Top Arbuckle	4481	-2547	Some vugular porosity
			No show
Total depth	4492	-2558	Dry & abandoned 8-2-55

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Drill Stem Tests:

The following drill stem tests were run on the #2 Gobin "A".

- (1) 4298-4320, Viola, 7-31-55 - Double packer
Open 1 hour, very small blow for 27 minutes
Recovered 10' mud - no oil, gas, or water
Initial flow pressure 12 P.S.I.
Final flow pressure 12 P.S.I.
Bottom hole pressure 25 P.S.I. (20 minutes)
- (2) 4384-4450, Simpson, 8-2-55, Double packer.
Open 1 hour, weak blow for 29 minutes
Recovered 30' mud, no oil, gas, or water
Initial flow pressure 32 P.S.I.
Final flow pressure 47 P.S.I.
Bottom hole pressure 1445 P.S.I. (30 minutes)

Structural Position:

On top of the Lansing the #2 Gobin "A" was 38' lower than the H. L. Moore #1 Gobin Arbuckle producer one half mile southeast in the SW SE SW, 23-26S-13W. It was 32 feet lower than the H. L. Moore #1 Gobin "A", a salt water disposal well in the SE SW SW, 23-26S-13W, less than $\frac{1}{2}$ mile southeast. The #2 Gobin "A" is 13 feet higher than the A. G. Hill #1 Dodson, Simpson producer, $1 \frac{3}{4}$ miles west in the SW SE NW 21-26S-13W and 4 feet higher than the A. G. Hill #1 Repp, dry hole slightly more than $\frac{1}{2}$ mile southwest in the NE NE NW, 27-26S-13W.

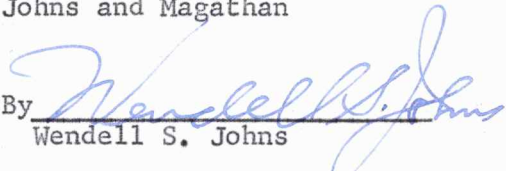
On the top of the Arbuckle. the #2 Gobin "A" was 145 feet lower than the Moore #1 Gobin, 96 feet lower than the Moore #1 Gobin "A", 56 feet lower than the Hill #1 Repp, and 20 feet higher than the Hill #1 Dodson.

General Discussion:

The only zones in this well which carried any actual show of live oil were Lansing zone #5 (3949-51), zone #6 (3954-56) and zone #9 (3994-4003), and the chert section in the Viola. All of these sections appeared to carry definite water in the samples and the shows were all very small.

In view of the low structural position of the well and the lack of prospective shows we felt that our only choice was to abandon this test.

Very truly yours,
Johns and Magathan

By 
Wendell S. Johns