

WHITE & ELLIS DRILLING, INC.,

Box 448

El Dorado, Kansas

December 18, 1957

RE: White & Ellis
 Borns No. 1
 SW SW NE
 Sec. 29-20-5E
 Marion County, Kansas

Gentlemen:

Herein is a geological report on the above captioned well.

The well was under the geological supervision of the writer from 1850 feet to a rotary total depth of 2580 feet.

Samples were examined from 1400 feet to the total depth. The following formation tops were determined from the sample analysis and are measured from rotary bushing.

ELEVATION: 1347.9 Ground (Marion County Engineer)
 1353 Rotary bushing

<u>FORMATION</u>	<u>DEPTH</u>	<u>SUB-SEA</u>
Lansing	1674	-321
E/Kansas City	2021	-668
Cherokee Sand	2059	-706
Mississippi	2208	-855
Kinderhook	2285	-932
Misener	2449	-1096
Hinton	2452	-1099
Viola	2473	-1120
Simpson Sand	2556	-1203
Total Depth	2580	-1227

LANSING SECTION

1674-1700 Cream to buff fine crystalline partly oolitic, and white chalky lime.

CHEROKEE SAND SECTION

2069-2078 Grey fine grained slightly micaceous shaley sand.
 2078-2090 Grey to grey-green slightly micaceous sandy shale.
 2090-2098 Clusters of fine grained sub-angular, micaceous and glauconitic sand. Shaley in part. No shows.

MISSISSIPPI

2208-2243 White to grey tripolitic chert, traces of sharp yellow to orange fresh chert.
 2243-2261 White opaque to translucent fresh sharp chert.
 2261-2285 White to light grey fine to medium crystalline lime partly cherty.

MISENER SAND SECTION

2449-2452 Grey fine grained sub-rounded pyritic sand. No odor, very slight show of free oil and slight fluorescence.

HUNTON

2452-2464 Buff very sandy dolomite, poor porosity. No odor. Slight show of free oil. No fluorescence.

D.S.T. No. 1

2451-2457 Open 1:30 hours, closed 23 minutes. Weak increasing to fair blow, recovered 170⁰ fluid; 70 feet muddy water, 100⁰ salt water.

I.F.P.=0 F.F.P.=85% B.H.P.=865#

VIOLA

2473-2489 White to light grey medium crystalline dolomitic lime, poor porosity. No show.

2489-2498 Light tan fine to coarse crystalline dolomitic lime poor intercrystalline porosity.

2498-2518 Light tan to grey medium to coarse crystalline dolomite good intercrystalline porosity, traces of vugular porosity, partly rhombic crystalline.

2518-2536 Grey medium to coarse rhombic crystalline dolomite.

2536-2550 Tan fine to medium rhombic crystalline dolomite, some vugular porosity.

SIMPSON SAND

2556-2562 Clusters of clear fine to coarse grained sub-rounded sand, No show.

2562-2569 Grey fine rhombic crystalline dolomite fair intercrystalline porosity. No show.

2569-2580 Grey very fine grained sand. No show.

Structurally the No. 1 Berns was high on all potential producing horizons below the base of the Mississippian.

The Hunton was encountered ten feet higher than the Waner No. 1 located in the NE NW NE of Section 5-21-5E, approximately one and one half miles to the South. In other wells in the immediate area, the Hunton was absent. Some free oil was observed in this horizon which necessitated a drill stem test. As noted above this test recovered salt water and condemned this section.

The Viola was encountered thirty-seven feet higher than the above mentioned Warner well, and six feet higher than the highest Viola test on this structure, located in section 20-20-5E, approximately one mile Northwest of the test. Adequate porosity in this section was not encountered until the Viola had been penetrated approximately twenty feet.

Since this test was running structurally high, it was decided to drill into the Simpson sand section. Again this zone was found at least ten feet higher than the other tests in the area, with no shows.

Since no shows of commercial value were found in this test, it was recommended that the well be abandoned at 2580 feet, a penetration of 2 1/2 feet into the Simpson sand.

Yours very truly,

WHITE & ELLIS DRILLING, INC.,

Harlan B. Dixon

Harlan B. Dixon, Geologist

HBD:k

Casing Record

8 5/8 210° Cemented
W/11 1/4 sacks

T. D. 2580'

Location:

SW SW NE

Sec. 29-20-5E

Marion County, Kansas

Farm:

Berns Well No. 1

Well Owner:

White & Ellis Drilling, Inc.,

Contractor:

White & Ellis Drilling, Inc.,

Started:

Spudded 12/2/57

Undersurface 12/12/57

Kelly Bushing Measurements 5' above ground Completed:

12/17/57

FORMATIONDEPTH - Figures indicate bottom of formation

Soil	0-2	Lime & shale	2197
Lime	75	Chat	2202
Shale	90	Shale & lime	2208
Red rock	95		
Lime	105	Top Of Mississippi	
Shale & shell	150	Lime	2248
Lime	175	Chat &	2285
Shale	195		
Lyme	204	Top of Kinderhook	
Shale & shell	285		
Shale & lime strks.	340	Shale	2449
Shale & shell	365		
Shale & lime strks.	380	Top of Meisner	
Shale & shell	406		
Shale & lime strks.	512	Sand	2452
Lime	520		
Shale & lime strks.	704	Top of Hanton	
Lime	707		
Shale & lime strks.	810	Brown sandy lime	2457
Lime Hd. Strks.	827	Lime	2465
Lime & shale strks.	1035	Shale	2473
Shale & shell	1095		
Lime & shale	1170	Top of Viola	
Lime	1200		
Lime & shale	1270	Dolomite	2550
Lime	1415	Lime & green shale	2556
Shale & shell	1427		
Lime & shale strks.	1442	Top of Simpson	
Sdy. shale	1503		
Sand	1546	Sand	2580
Shale	1585		
Shale & lime strks.	1616	Dry hole, plug and abandon	
Lime	1624		
Shale & shell	1651		
Lime	1657		
Shale	1674		

Top of Lansing

Lime & shale strks.	1689
Lime Hd. strks.	1787
Lime	1803
Lime & shale	1814

Top of Kansas City

Lime	2021
Shale & shell	2075
Lime & shale strks.	2091
Sandy shale strks.	2095
Shale & shell	2151