

E. Bitter Creek Prospect**GEOLOGICAL REPORT**

Joan #1
NW/4 NW/4 SW/4
Sec. 10-35S-2E
Sumner County, KS

2310 FSL 330 FWL

GL 1140'
KB 1149'
Total Depth: 3800' in Arbuckle

Geological Summary:

Structure: Structurally the Joan #1 was basically flat to the Horton #2 in the SE/4, Sec 9-35S-2E from surface to the Big Lime. The Mississippi interval came in as expected; however the porous Mississippi was 19' low to the McLaughlin (SE SW NW of Sec. 10), the show well, and porosity development was only about 25%, not sufficient at low resistivity to be productive. The porosity top was also low to the Horton #2. The 4' of sand in the Simpson interval was 26' low to the Horton well and had very low porosity.

Sample Description: A complete sample description can be found on the mud log. Note that our zone of interest, the Mississippi Chat, was chert rather than weathered chat. The Mississippi section had no shows of any consequence and would produce only saltwater.

Pay Zones: All zones were wet.

The Joan #1 was plugged and abandoned.

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Geologist

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ELECTRIC LOG TOPS

JOAN #1

Neva	788' (361')
Severy Sand	1527' (-378')
Hoover Zone	2025' (-876')
Iatan	2288' (-1139')
Stalnaker Sand	2343' (-1194')
Layton Sand	2758' (-1609')
Kansas City	2958' (-1809')
Cleveland Zone	3084' (-1935')
Big Lime	3146' (-1997')
Oswego	3160' (-2011')
Cherokee Shale	3263' (-2114')
Mississippi Chert	3400' (-2251')
Mississippi Chert porosity	3456' (-2307')
Woodford	3560' (-2411')
Simpson	3650' (-2501')
Arbuckle	3748' (-2599')
TD	3800' (-2651')

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