

June 3, 1971

Proposed Washdown
Graves #1 Unruh

N5. SE-NW 15-20-14W

Barren County, Kansas

The above captioned well was drilled as an Arbuckle test in July 1965. The Arbuckle was encountered at 3546 feet and the well was drilled to a depth of 3577' at which depth it was plugged and abandoned. During the drilling of the well, four drill stem tests were ~~drilled~~ ^{taken} two of which were run in the Arbuckle formation. The following results were obtained from these ~~drill stem~~ ^{Arbuckle} tests. DST 3549-62 Tool open 2 hours. GTS in 10 minutes. Gauge 145,000 CFSD in 15 min. Gauge 135,000 CFSD ^{in 25 min} stabilized. Rec. 75' GCM. 1BHP (30 min.) 1172* IFP 48* FFP 64* FBHP (30 min.) 1118*. DST 3566-77, Tool open 1 hour. Weak blow thru test. Rec 115' slightly muddy sulfur water with a slight show of dead oil. 1BHP (30 min.) 1080* IFP 51* FFP 75* FBHP (30 min.) 1003*. Gas samples taken during the ~~first~~ ^{first} testing yielded a B.T.U. value of 898.

Sub-surface data of the Arbuckle indicates that the well is located on a fairly high Arbuckle area with a chance of some higher Arbuckle to the east. Some good Arbuckle gas production has been encountered in the area with some wells yielding more than one billion cubic feet of gas per quarter section.

The subject well has a ready market as it is just a little over 1/2 mile from one of Kansas Nebraska Natural Gas Company's gas lines.

We propose to clean out the subject well to bottom, run a string of casing to bottom and by stimulation of the Arbuckle try to complete it as a gas well.