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May 7, 1958

Mr. Thomas H. Allan
925 Union Center Building
Wichita, Kansas

Re: Geology of Mississippian
in area of Twp. 29S - Rge. 7W
Kingman County, Kansas

Dear Mr. Allan:

At your suggestion I have made a further study of the Mississippian formation in the area of the Trenton Pool of Kingman County, Kansas.

In a previous report I discussed the southeast, east, and northern extremeties of the pool but did not discuss the west side of the pool as I shall do now. First, I will give the well data on the two wells located furthest west:

Cities Service #1 Sloan "B", NE NE SE Sec. 28-29s-7w

Top of Mississippian	4140 (-2599)
4140 to 4148'	Clean, fairly porous chert.
4148 to 4154'	Shale
4154 to 4162'	Clean, porous chert with slight shows.
4162 to 4212'	Lime; with a few thin zones of broken porosity and slight shows.
4212 to 4223'	Cherty lime with fair porosity and fair shows of oil.
4223 to 4229'	Cherty lime with good porosity and good show of oil

Set 5½" casing at 4221'.
Cleaned out to 4229'. Well filled up with approximately 2703' of gassy oil in 4 hours. Flowed 46 barrels oil, no water, in 12 hours thru casing. Ran tubing; flowed 150 bbls oil plus 3 bbls water in 21 hours.

Drillers Production #4 Campbell, SW SW SW Sec. 27-29s-7w

Top of Mississippian	4142 (-2613)
4142 to 4150'	Clean, fairly porous chert.
4150 to 4152'	Dense limestone
4152 to 4159½	Cherty, dolomitic, lime with good porosity and good show of oil.

Set 5½" casing at 4152'.
Cleaned out to 4157'. Bailed 16 GOPH plus 3 GWPH.
Drilled deeper to 4159½. Bailed 31 GOPH and 6 GWPH.
Fractured with 10,000 gals acid Petrofrac and 10,000 lbs sand
After load was back, well flowed 15 BOPH plus some water.
As of April 15, well was making lots of fluid, 36% water.

The three wells of Suttons in the NW/4 of Section 34 were all completed differently and in a rather haphazard manner; however, it is my understanding that the #1 and #2 wells are pretty good producers but the south well (#3) is used as a salt water disposal well and as a producing oil well at the same time. This well, I do not believe, is a very good well.

The Sloan well of Cities Service Oil Company is producing at a very low datum but is producing natural and making very little water. The #4 Campbell of Drillers Production apparently found porosity right near the top and is producing much higher than all of the surrounding wells. This porous zone apparently is connected to the rest of the field however as the behavior of the well is about like that of the other wells in the field.

The dry hole in the SE/corner of Section 33 had mostly limestone with some chert and dolomite, rather poor porosity and very light shows. It is evident that the reservoir conditions are pretty well absent at this point. Somewhere between the SW/corner of Section 27 and the SE/corner of Section 33 the better reservoir conditions are lost. It is my thinking that this critical change takes place approximately along the center of Section 33.

Due to the absence of sufficient electric logs it is not practical to attempt a Mississippian profile or cross section as too much of the data would be doubtful and control very spotted. I hope this answers your questions, and if I can be of any further assistance, please advise.

Very truly yours,

Lee Poulsen

LP:mab