

NEW MEXICO OIL CONSERVATION COMMISSION
EXAMINER HEARING
Wednesday, July 9, 1969

CASE 4165

Application of Sam Boren Oil Company for Special Pool Rules,
East Bagley - Pennsylvanian Pool, Lea County, New Mexico

Barbera State "A" Well No. 1

Location being designated as Unit P, 660 feet from the south line and 660 feet from the east line, Section 6, Township 12 South, Range 34 East, N.M.P.M.

PRORATION UNIT REQUEST

Sam Boren's request for 160-acre spacing and proration units and the assignment of 80-acre allowables for the captioned field is made with projected economics being the major consideration.

The drilling of Bough "B" wells in the East Bagley - Pennsylvanian Field appears, at best, a return on investment only type economic venture coupled with a lower than desired rate of return.

The ultimate recoverable reserves of Bough "B" wells in the subject field based on available performance data indicate recoveries could approach 108,000 barrels of oil per well. The estimated ultimate recovery using volumetric calculation methods is 96,000 barrels per well. The parameters used in the volumetric calculations assume 160-acre drainage area per well, a net average pay thickness of 8 feet, an average porosity of 8½ percent, a connate water saturation of 30 percent, 1.23 barrels per barrel formation volume factor and a 20 percent recovery efficiency.

The Barbera State Well was potentialized June 1, 1969 and on a 24-hour pumping test, recovered 212 barrels of oil, 75 barrels of water and 254 MCF of gas. On July 6, 1969, production was 75 barrels of oil and 50 barrels of water during a 24-hour period.

Mr. Boren respectfully requests the Commission to consider this application and establish 160-acre spacing proration units with 80-acre allowable assignment to wells in the East Bagley - Pennsylvanian Field.

A list of exhibits presented follows:

- Exhibit 1 - Land Lease Map of the East Bagley Field.
- Exhibit 2 - Structure Map on Top of the Bough "C" zone in the East Bagley Area.
- Exhibit 3 - Electrical Log Cross Section showing Sam Boren Oil Company's Barbera State "A" Well No. 1 in relation to Coastal States Gas Producing Company's Pan American State No. 1, Section 5, T-12-S, R-34-E and Tenneco Oil Company's State "W" No. 2, Section 31, T-11-S, R-34-E.