

BASS ENTERPRISES PRODUCTION CO.
DIVISION PRODUCTION OFFICE
P. O. BOX 2760
MIDLAND, TEXAS 79702

May 19, 1981

800 VAUGHN BUILDING
(915) 684-5723

Re: Perry R. Bass
Bass Enterprises Production Co.
(Designated Operator)
Poker Lake Unit No. 50
B-4-25-31
Eddy County, N. M.
File: 400-WF

RECEIVED

Mr. W. A. Gressett, Supervisor
New Mexico Oil Conservation Division
District II
Drawer DD
Artesia, N. M. 88210

MAY 22 1981

OFFICE
OF THE SUPERVISOR

Dear Mr. Gressett:

As per your request, Bass respectfully submits the following summary of events covering the completion of the captioned well.

The well was drilled and cased as shown on the bore schematic (Attachment No. 1). The upper Morrow was perforated, and a packer arrangement as shown in the bore sketch (Attachment No. 2) was installed. The Morrow interval was treated with 19,000 gallons 7-1/2% HCl acid (mud and silt suspending) with 40% CO₂ by volume energizer. The Morrow CAOF was 0.644 MMCFPD plus 35 BWPD. Morrow productivity declined to 0.100 MMCFPD plus water. A profile plug was set in the Morrow packer, and the packer was capped with cement. A hearing was held in Santa Fe which resulted in a dual permit for production of the Atoka through tubing and the Wolfcamp through casing-tubing annulus. Bore sketch (Attachment No. 2) shows the mechanical arrangement for the Atoka completion. Perforation was through tubing as a drilling kick forced mud weight to 14.7 ppg for balance. Surface pressure was noticed immediately--- 500 psi building to 4300 psi. The Atoka cleaned up to the pit and tested 0.992 MMCFGPD at 520 psi FTP. A plug was set in the Atoka packer. Bore sketch (Attachment No. 4) shows the mechanical arrangement for the Wolfcamp completion. A retrievable packer with a seal extension (for the Atoka packer) was used during the Wolfcamp completion in anticipation of dual completion. The Wolfcamp was perforated through tubing and was reperforated after an aborted treatment attempt reached 9,000 psi surface pressure without breakdown. After reperforation, the Wolfcamp zone was treated with 7500 gallons 7-1/2% HCl acid (mud and silt suspension) at 7600 psi and 5 BPM. The Wolfcamp zone delivered 15 MMCFGPD on 3/4" choke at 1000 psi FTP, 8200 psi SITP.

At this point, the origin of the gas flow was questioned, and a second plug inserted in the Atoka packer without change in deliverabilities or pressures. Surveys were attempted but failed due to pressures in excess of the lubricator capacity and an obstruction in the tubing. Emergency clearance was obtained from the NMOCD to place the well on production to reduce the working wellhead pressure. The following day, pressure was noted on the casing-tubing annulus.