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JICARILLA 459 #8 OJO ALAMO COMPLETION

- 11-15-90 Move Bayless #4 to location and rig up. Rig down test separator and move off location.
- 11-16-90 Blow well down. Take off wellhead and nipple up BOP. Unset packer. Trip in hole 5 jts. to clear perfs. Lay 5 jts. back down. Rig up Western Co. Roll hole with 2% KCL water. Run rate test on Ojo Alamo. Run pump in, shut in test. Start out hole. Step rate pumped as follows:

<u>RATE, BPM</u>	<u>TOTAL BBLs</u>	<u>TUBING PRESSURE</u>
.25	-	740
.5	10	850
.75	8	930
1	6	970
1.5	9	1050
2.0	9	1120
3.0	16	1280
4.0	17	1560
5.0	9	1790
7.0	42	2410
8.8	44	3050

Pumped additional 25 bbls for total of 196 bbls. ISDP 1090 PSI.
Pumped Pump-in test at 9.3 BPM and 3300 PSI, pumped 90 bbls. 11100 PSI.

- 11-17-90 Trip out of hole with tubing. Rig up Western Company to frac on 4 1/2" casing with 70% Nitrogen foam and 12-20 sand at 15 BPM.

Pumped 8820 gal. foam pad at 2030 PSI. Shut down with turbine failure. Close Rams. Wait 65 minutes on turbine.

Restart pad at 15.8 BPM pumped 10080 gallons foam pad at 2190 PSI. Pump 1 PPG 12-20 SN in 70% foam. Pumped 10,000 gallons with 81.12-20 sand total for stage.

Pump 2 PPG 12-20 SN in 70% foam. Pumped 3,000 gallons with 58.12-20 SN. Pressure increased from 2430 to 3280 PSI and screen out. Pumped total of 13,900# sand, leaving about 4000# in casing. ISDP 3200 PSI; 5 minutes 2890 PSI; 10 minutes 2740 PSI; 15 minutes 2640 PSI. Pumped total of 13,900# SN, 31,900 gallons foam. Used 357,860 SCF Nitrogen.

Shut well in for 3 hours. Rig up flow line to burn pit with tapped bullplug in end. Flow well to pit with dry watchman overnight. Stimulation cost includes step rate and pump in test.

11-18-90 Dry watch well while blowing back.

11-19-90 Dry watch well while blowing back. shut well in.

11-20-90 Casing pressure at 930 PSI. Blow well down and kill well. Trip in hole with 96 joints of 2 3/8" tubing. Pick up 6 joints to clean out sand. Tag sand at 3136 ft. KB. Clean out to 3250 ft. KB. Lay down 6 jts. of tubing. Land well in BOP. Shut well in.

11-21-90 Begin swabbing with casing at 930 PSI, tubing at 0 PSI. Swab \pm 100 bbls. to pit. Kick well off at 2:00 p.m. Making too much water to flare. Casing pressure at 170 PSI and building.

11-23-90 Casing pressure at 1100 PSI, tubing pressure at 1100 PSI. Rig up test separator. Flow well to burn pit all day, recovering load. Shut well in overnight.