WESTERN OIL PRODUCERS, INC.

P. O. Box 2055 • Telephone (505) 623-3131 • Roswell, New Mexico 88201

UNION STATE #2 660' FSL & 1980' FEL, Sec. 29, T-16S, R-33E, Lea County, N.M.
El. GR. 4222, K.B. 4236

2/9/77 Going in hole w/bit, depth 10,850', Shale & Sand, Mud Wt. 8.6, Visc. 37, W.L. 9, F.C. 1/32, PH 9, DST #1 tested from 10,710 to 10,850, tool opened for 2 1/2 hrs., recovery 1200' of highly gas cut mud w/trace of oil, gas to surface in 1 hr. 10 min., IHP 5,031, 30 min. preflow Initial 87 final 283, 90 min. ISI 1676, 2 hr. flow initial 283, final 392, 300 min. FSI 2440, FHP 4955, bottom hole temperature 134, bottom hole sampler contained 1.15 cubic ft. of gas, 1400 cc of oil, pressure 240.

2/15/77 Depth 11,580' Lime & Shale, Mud wt. 9.1, Visc. 40, W.L. 8.5, F.C. Film, PH 9, Chloride 1600, DST #2 tested from 11,480 to 11,580, gas to surface in 51 min., recovered 590' of heavy oil & gas cut drilling mud, bottom hole sampler contained 175 psi, 1.0 cubic ft. gas, 1800 cc of liquid - 900 cc oil, 900 cc of foam & mud, 30 min. preflow Initial 152, final 217, 120 min. ISIP 1019, 120 min. flow Initial 174, Final 239, 240 min. FSI 868, Hydrostatic in 5485 Hydrostatic out 5400, temperature 150

2/19/77 Depth 12,065, Trip for DST #3, Mud Wt. 9.1, Visc. 42, W.L. 8.8, F.C. 1/32, PH 9

2/20/77 Depth 12,085, Drilling, Shale & Lime Mud Wt. 9.1, Visc. 40, W.L. 8.8 F.C. 1/32 PH 9, DST #3 tested from 12,020 to 12,065 open tool w/fair blow increasing to strong in 20 min., took 30 min. preflow, 120 min. ISI, 60 min. 2nd flow, 180 min. FSI, no gas to surface, recovered 135' of gas cut drilling fluid trace of oil, could never detect any gas pulling tool out of hole, sampler contained 50 psi, .175 cubic ft. of gas w/trace of water, IHP 5943, 30 min. preflow 46 to 69 psi, 120 min. ISI 3347 60 min. second flow 92-92, 180 min. FSI 2479

2/28/77 Depth 13,013, Trip for DST #4, Lime & Shale, Mud Wt. 9.8, Visc. 42, W.L. 8.5, F.C. 2/32, PH 9, Shloride 1200, DST #4 tested from 12,981 to 13,013, opened w/very weak blow increasing to a weak blow, recovered 50' drilling mud, 500' formation water, sampler contained 250 psi, 2000 cc water, temperature 160, IHP 6604, 30 min. preflow- Initial 44, final 110, 90 min. ISI 6025, 60 min. Final flow Initial 176, final 264, 180 min. FSI 6025, FHP 6604

3/3/77 Depth 13,055, Trip for DST #5, Mud Wt. 9.8, Visc. 51, W.L. 7.8, F.C. 2/32, DST #5 tested from 13,030 to 13,055, tool opened a total of 2 hrs., gas to surface in 1 hr. & 50 min. TSTM, recovered 9,765' salt water, preflow Initial 831, Fianl 2251, 90 min. ISI 5738, 90 min. flow Initial 2365, fianl 4305, 180 min. FSI 5443, FHP 6691, temperature 166

3/12/77 Depth 13,727, trip for DST #6, Lime & Shale, Mud Wt. 10.2, Visc. 60, W.L. 6.8, F.C. 2/32, PH 8.5, DST #6 tested from 13,638 to 13,727, tool opened w/very strong blow, gas to surface in 11 min. on 3/8" at 600 lbs., IHP 7235, 30 min. preflow Initial 1914, final 2694, 90 min. ISI 7042, 120 min. final flow Initial 1859, final 3947, 300 min. FSI 6651, final Hydrostatic 7180, recovered approximately

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