

Socony Mobil Oil Company, Inc.

State Bridges #95, Unit P
Sec. 26, T-17S, R-34E, Lea
County, New Mexico

ACIDIZING RECORD (CONTINUED)

- 9/20/62 Cardinal Chemical acidized perfs. 12,070-12,105 w/1000 gals. 15% NE acid + 15 RCN ball sealers. Break down pr. 1800#, trt. pr. 2300-3800-2000#. Rate 3.0 BPM. Swab & flowed 70 BLO + 120 BNO + 22 BAW in 11 hrs.
- 9/22/62 Cardinal Chemical acidized perfs. 11,112-11,122 w/500 gal. 15% NE acid + 5 RCN ball sealers. Brk. down pr. 6600, trt. pr. 6000-5200-5800. Rate 1.2 BPM. Swab & flow 110 BLW + 335 BNO in 40 hrs.
- 9/25/62 Cardinal Chemical acidized perfs. 11,112-11,122 w/2000 gals. 15% NE acid + 5 RCN ball sealers. Brk. down pr. 1500, trt. pr. 5300-5900-6600. Rate 1.5 BPM. Swab & flow 65 BLO + 105 BNO + 37 BAW in 16 hrs. Shut in.
- 10/1/62 Cardinal Chemical spotted 1000 gal. 15% NE acid over perf. 9814-9986. Pulled tbg. to 9808, Bkr. pkr. @ 9596. Acidized perfs. w/1000 gal. 15% NE acid. Brk. down pr. 5000#, trt. pr. 5700-4400#. Rate 1.5 BPM. ISIP 3900#. Swab 65 BLW + 34 BNO + 19 BAW in 14 hrs. Swab dry 6 hrs.
- 10/2/62 Cardinal Chemical acidized perfs. 9814-9986 w/7500 gal. gel acid Kerosene + 40 RCN ball sealers in 3 stages. Brk. down pr. 2000# trt. pr. 4800-4400#, rate 6.9 BPM. SI 6 hrs. Swab & flow 273 BNO + 65 BLW + 165 BAW in 37 hrs. 32/64" ch. TP 80#.
- 10/5/62 Cardinal Chemical acidized perfs. 9518-9743 w/1000 gals. 15% NE acid + 7500 gal. emul. acid + 38 RCN ball sealers in 3 stages. Brk. down pr. 5000#, trt. pr. 3700#, rate 6.3 BPM. SI 6 hrs. TP vac. Swab & flow 335 BNO + 81 BLW + 131 BAW in 29 hrs.
- 10/10/62 Cardinal Chemical acidized perfs. 9070-9199 w/1000 gal. 15% NE acid. TP 3900#, rate 6 BPM. ISIP 1600#, swab & flow 254 BNO + 67 BLW + 24 BAW in 20 hrs.
- 10/31/62 Cardinal Chemical acidized perfs. 12,070-12,105 w/500 gal 7½% NE acid + 5 RCN ball sealers + 7 ton CO₂. Brk. down pr. 1300#, trt. pr. 2600-2300. Rate 4.5 BPM, ISIP 500#.
- 11/4/62 Cardinal Chemical acidized perfs. 12,070-12,105 w/2000 gal. 15% NE acid + 20 RCN ball sealers + 10 ton CO₂. Break down pr. 2200#, trt. pr. 3300-2800#, rate 3 BPM, ISIP 500#.
- 11/4/62 Cardinal Chemical pumped into perfs. 11,112-11,122 10 BLO + 1/2 ton CO₂. Max. pr. 2000#.
- 11/8/62 Cardinal Chemical pumped into perfs 11,112-11,122 23 BLO w/CO₂. Max. pr. 2000#.
- 11/19/62 Cardinal Chemical acidized perfs. 12,070-12,105 w/4000 gals. acid kerosene emulsion (85% & 15%) + 15 RCN ball sealers. Trt. pr. 2900-200: Rate 8 BPM. ISIP vac. SI 6 hrs.
- 11/22/62 Cardinal Chemical acidized perfs. 11,112-11,122 w/500 gals mud acid. TP vac.
- 11/25/62 Cardinal Chemical pumped in perfs. 11,112-11,122 70 BLO treated w/10 gal. Permian Block Buster per 1000 gal. of oil. Encountered pr. 6 bbl. in formation. TP 0-6400#. Pumped 16 bbls. @ 1/4 BPM @ 6400#. SI 24 hrs. TP 800#.

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11/27/62 Cardinal Chemical pumped in perfs. 11,112-11,122 37 bbl. oil treated w/Permian Block Buster disp. into form. w/64 BLO, trt. pr. 6400#, rate 1.1 BPM.

11/29/62 Cardinal Chemical acidized perfs. 11,112-11,122 w/3000 gal. 15% LST acid. Trt. pr. 6000-6800, rate 2.1 BPM. ISIP 6600.

2/3/63 Knox Services, Inc. acidized Abo perfs. 9070-9199 w/500 gals. 15% NE acid. Brk. down pr. 4000#, trt. pr. 4000#, rate 1/2 BPM. 5 Min. SIP 1700#.

2/4/63 Cardinal Chemical acidized perfs. 9070-9199 w/1000 gals. 15% NE acid trt. pr. 5600#, rate 1.7 BPM. 5 Min. SIP 2000#.

2/5/63 Cardinal Chemical re-acidized perfs. 9070-9199 w/3000 gals. 15% NE acid + 40 RCN ball sealers. Rate 5.1 BPM, trt. pr. 5800-6500#.

2/12/63 Cardinal Chemical acidized Wolfcamp perfs. 9518-9986 w/500 gal. 15% NE acid. Brk. down pr. 4000#, trt. pr. 5000#, rate 2 BPM.

PERFORATIONS

<u>Zone</u>	<u>Depth</u>	<u>No.</u>	<u>Size</u>	<u>Kind</u>
McKee	13,698-700 (squeezed)	2	1/2"	Jet
McKee	13,703-710 (squeezed)	7	1/2"	Jet
McKee	13,714-718 (squeezed)	4	1/2"	Jet
McKee	13,722-726 (squeezed)	4	1/2"	Jet
McKee	13,728-731 (squeezed)	3	1/2"	Jet
McKee	13,742-750 (squeezed)	8	1/2"	Jet
Devonian	12,162-12,164 (squeezed)	2	1/2"	Jet
Devonian	12,070-12,090	20	1/2"	Jet
Devonian	12,100-12,105	5	1/2"	Jet
Penn.	11,112-11,122 (squeezed)	10	1/2"	Jet
Wolfcamp	9,814	1	1/2"	Jet
Wolfcamp	9,816	1	1/2"	Jet
Wolfcamp	9,818	1	1/2"	Jet
Wolfcamp	9,820	1	1/2"	Jet
Wolfcamp	9,822	1	1/2"	Jet
Wolfcamp	9,824	1	1/2"	Jet
Wolfcamp	9,826	1	1/2"	Jet
Wolfcamp	9,828	1	1/2"	Jet
Wolfcamp	9,830	1	1/2"	Jet
Wolfcamp	9,832	1	1/2"	Jet
Wolfcamp	9,834	1	1/2"	Jet
Wolfcamp	9,836	1	1/2"	Jet
Wolfcamp	9,858	1	1/2"	Jet
Wolfcamp	9,860	1	1/2"	Jet
Wolfcamp	9,862	1	1/2"	Jet
Wolfcamp	9,864	1	1/2"	Jet
Wolfcamp	9,866	1	1/2"	Jet
Wolfcamp	9,868	1	1/2"	Jet
Wolfcamp	9,870	1	1/2"	Jet
Wolfcamp	9,872	1	1/2"	Jet

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<u>Zone</u>	<u>Depth</u>	<u>No.</u>	<u>Size</u>	<u>Kind</u>
Wolfcamp	9,874	1	1/2"	Jet
Wolfcamp	9,876	1	1/2"	Jet
Wolfcamp	9,878	1	1/2"	Jet
Wolfcamp	9,880	1	1/2"	Jet
Wolfcamp	9,882	1	1/2"	Jet
Wolfcamp	9,884	1	1/2"	Jet
Wolfcamp	9,886	1	1/2"	Jet
Wolfcamp	9,888	1	1/2"	Jet
Wolfcamp	9,890	1	1/2"	Jet
Wolfcamp	9,892	1	1/2"	Jet
Wolfcamp	9,894	1	1/2"	Jet
Wolfcamp	9,896	1	1/2"	Jet
Wolfcamp	9,898	1	1/2"	Jet
Wolfcamp	9,900	1	1/2"	Jet
Wolfcamp	9,902	1	1/2"	Jet
Wolfcamp	9,904	1	1/2"	Jet
Wolfcamp	9,906	1	1/2"	Jet
Wolfcamp	9,950	1	1/2"	Jet
Wolfcamp	9,952	1	1/2"	Jet
Wolfcamp	9,954	1	1/2"	Jet
Wolfcamp	9,956	1	1/2"	Jet
Wolfcamp	9,958	1	1/2"	Jet
Wolfcamp	9,960	1	1/2"	Jet
Wolfcamp	9,962	1	1/2"	Jet
Wolfcamp	9,964	1	1/2"	Jet
Wolfcamp	9,966	1	1/2"	Jet
Wolfcamp	9,968	1	1/2"	Jet
Wolfcamp	9,970	1	1/2"	Jet
Wolfcamp	9,972	1	1/2"	Jet
Wolfcamp	9,974	1	1/2"	Jet
Wolfcamp	9,976	1	1/2"	Jet
Wolfcamp	9,978	1	1/2"	Jet
Wolfcamp	9,980	1	1/2"	Jet
Wolfcamp	9,982	1	1/2"	Jet
Wolfcamp	9,984	1	1/2"	Jet
Wolfcamp	9,986	1	1/2"	Jet
Wolfcamp	9,518	1	1/2"	Jet
Wolfcamp	9,520	1	1/2"	Jet
Wolfcamp	9,522	1	1/2"	Jet
Wolfcamp	9,524	1	1/2"	Jet
Wolfcamp	9,526	1	1/2"	Jet
Wolfcamp	9,528	1	1/2"	Jet
Wolfcamp	9,530	1	1/2"	Jet
Wolfcamp	9,532	1	1/2"	Jet
Wolfcamp	9,534	1	1/2"	Jet
Wolfcamp	9,536	1	1/2"	Jet
Wolfcamp	9,538	1	1/2"	Jet
Wolfcamp	9,540	1	1/2"	Jet
Wolfcamp	9,575	1	1/2"	Jet
Wolfcamp	9,577	1	1/2"	Jet
Wolfcamp	9,579	1	1/2"	Jet
Wolfcamp	9,581	1	1/2"	Jet
Wolfcamp	9,583	1	1/2"	Jet
Wolfcamp	9,585	1	1/2"	Jet
Wolfcamp	9,587	1	1/2"	Jet
Wolfcamp	9,589	1	1/2"	Jet
Wolfcamp	9,591	1	1/2"	Jet
Wolfcamp	9,593	1	1/2"	Jet
Wolfcamp	9,595	1	1/2"	Jet
Wolfcamp	9,597	1	1/2"	Jet
Wolfcamp	9,599	1	1/2"	Jet
Wolfcamp	9,601	1	1/2"	Jet

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<u>Zone</u>	<u>Depth</u>	<u>No.</u>	<u>Size</u>	<u>Kind</u>
Wolfcamp	9,650	1	1/2"	Jet
Wolfcamp	9,652	1	1/2"	Jet
Wolfcamp	9,654	1	1/2"	Jet
Wolfcamp	9,656	1	1/2"	Jet
Wolfcamp	9,658	1	1/2"	Jet
Wolfcamp	9,660	1	1/2"	Jet
Wolfcamp	9,662	1	1/2"	Jet
Wolfcamp	9,664	1	1/2"	Jet
Wolfcamp	9,666	1	1/2"	Jet
Wolfcamp	9,706	1	1/2"	Jet
Wolfcamp	9,708	1	1/2"	Jet
Wolfcamp	9,710	1	1/2"	Jet
Wolfcamp	9,717	1	1/2"	Jet
Wolfcamp	9,719	1	1/2"	Jet
Wolfcamp	9,721	1	1/2"	Jet
Wolfcamp	9,723	1	1/2"	Jet
Wolfcamp	9,735	1	1/2"	Jet
Wolfcamp	9,737	1	1/2"	Jet
Wolfcamp	9,739	1	1/2"	Jet
Wolfcamp	9,741	1	1/2"	Jet
Wolfcamp	9,743	1	1/2"	Jet
Abo	9,070	1	1/2"	Jet
Abo	9,072	1	1/2"	Jet
Abo	9,074	1	1/2"	Jet
Abo	9,080	1	1/2"	Jet
Abo	9,082	1	1/2"	Jet
Abo	9,084	1	1/2"	Jet
Abo	9,086	1	1/2"	Jet
Abo	9,092	1	1/2"	Jet
Abo	9,094	1	1/2"	Jet
Abo	9,096	1	1/2"	Jet
Abo	9,098	1	1/2"	Jet
Abo	9,100	1	1/2"	Jet
Abo	9,102	1	1/2"	Jet
Abo	9,104	1	1/2"	Jet
Abo	9,106	1	1/2"	Jet
Abo	9,108	1	1/2"	Jet
Abo	9,110	1	1/2"	Jet
Abo	9,112	1	1/2"	Jet
Abo	9,114	1	1/2"	Jet
Abo	9,116	1	1/2"	Jet
Abo	9,118	1	1/2"	Jet
Abo	9,120	1	1/2"	Jet
Abo	9,137	1	1/2"	Jet
Abo	9,139	1	1/2"	Jet
Abo	9,141	1	1/2"	Jet
Abo	9,143	1	1/2"	Jet
Abo	9,145	1	1/2"	Jet
Abo	9,147	1	1/2"	Jet
Abo	9,149	1	1/2"	Jet
Abo	9,165	1	1/2"	Jet
Abo	9,167	1	1/2"	Jet
Abo	9,169	1	1/2"	Jet
Abo	9,177	1	1/2"	Jet
Abo	9,179	1	1/2"	Jet
Abo	9,181	1	1/2"	Jet
Abo	9,183	1	1/2"	Jet