

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

	FORM APPROVED Budget Bureau No. 1004-0135
Para	Expires: March 31, 1993
067 73	5. Lease Designation and Serial No.
300	ပ် _{ဥ႒} LC 029409-B

Do not use this form for proposals to d	rill or to deepen or reentry to a different re	6 If Indian Mottee or Tribe Name
Use "APPLICATION FOR PERMIT—" for such proposals SUBMIT IN TRIPLICATE		7 If Unit or CA. Agreement Designation
Type or Well Oil Well Well Other		8. Well Name and No.
A Well Well Other Name of Operator		Love "3" Federal No.
Marathon Oil Company		9 API Weil No.
Address and Telephone No		30-025-31038
P.O. Box 552, Midland, TX 79702 (915) 687-8329 Location of Well (Footage, Sec., T., R., M., or Survey Description)		10. Field and Pool, or Exploratory Area Young, North (B.S.)
		11. County or Parish, State
Unit Letter E, 2310' FNL & 330' FWL Section 3, T18S, R32E		Lea County, New Mexico
CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE.	REPORT. OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
₩.	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
Final Abandonment Notice	Casing Repair Altering Casing	Water Shut-Off Conversion to Injection
	X Other <u>Acidize existi</u>	1g perfs Dispose Water
	add new perfs, acidize	e & test Completion or Recompletion Report and Log form.)
	ill pertinent details, and give pertinent dates, including estimated da call depths for all markers and zones pertinent to this work.)*	te of starting any proposed work. If well is directionally drilled
Marathon Oil Company on 8/29, to perforate new zones, acid	/91 initiated operations to acidi: ize and test.	ze existing perforation and
and sheared 26K shear to steel rock leaving 1-7/8 ND wellhead & NU bench t & pulled 70 jts of 2 3/8	Could not unseat pump. Pulled ool. POOH w/154-1" FG rods, 115-3" rod, 1-2" x 7/8" pony & a 2" x tested (3000 psig on pipe & blind B", 4.7#/ft N-80 EUE tbg (top of RD swab. POOH w/74 jts of 2 3,	-7/8"-25' Norris Grade 90 K 1 1/2" x 26' RHBC pump. d rams) BOP. Released TAC fluid). RU swab & pulled
7/8" steel rod & insert	tbg, TAC, 19 jts of 2 3/8" tbg pump. Laid down 10 jts of tbg of 1/2" RBP, RH, 5 1/2" RTTS tool,	due to external wear & rod
		Ad
	(See Attachment I)	
14. I bereby certify that the foregoing is true and correct ignated A AWCLORL A. Bagy	vell _{Tide} Engineering Technician	Date 10/16/91
(This space for Federal or State office use)		
Approved by	Tide	Date

ATTACHMENT I

- 2. 2 3/8" tbg to 8270'. Set RBP. PU 13' & set RTTS @ 8257' KB. Loaded tbg w/32 bbls of fresh wtr. Pressure tested tbg, pkr & plug to 4500 psig. Held OK. Opened bypass & equalized tbg & backside for 15 mins. Released RTTS tool. POOH w/6 jts & set RTTS @ 8063' KB. Loaded backside w/fresh wtr. RU swab. RIH w/swab to SN. No fluid encountered. SD for 1 hr. RIH w/swab. Had 100' of fluid in hole. Secured well. SDFN.
- 3. SITP = 325 psi. Bled tbg to frac tank. RU swab. Had 800' of fluid above SN @ 8055' KB. Recov'd less than 1 bbl of oil & water. RU Western Co. Press csg to 1000 psi. Acidized Bone Spring perf 8125' to 8221' w/10,000 gals of 20% gelled acid w/additives down the tbg. Flushing w/125 bbls of 2% slick KCL water. Min tbg press 3200 psi, max 4225 psi. Avg press 3800 psi. AIR 7.2 BPM. ISIP 2200 psi, 5 min SIP 2025, 10 min SIP 1900 psi & 15 min SIP 1775 psi. (Note: Western's rate meter failed as acid hit formation, used rate meter on Frac pump to finish job). SWI for 30 min. Opened well to frac tank, flowed for 1 hr recovering 6 BW. RU swab. Starting fluid level at surface. Made 25 swab runs in 8 1/2 hrs recovering 23 BO and 51 BW. Swab well dry, pulling 3 runs per hr. Secured well. SDFN.
- 4. SITP = 260 psi, bled well to frac tank. RU swab. Starting swab level @ 4500'. Swab well dry in 5 1/2 hrs. Made total of 12 runs recovering 23 BO and 5 BW. Well making good show of gas. Last two swab runs 90% oil. Secured well. SDFN.
- 5. SITP = 325 psi. Shut down for holiday.
- 6. Shut down for holiday.
- 7. SITP = 340 psig. Bled pressure to frac tank. RU swab. Starting FL @ 3500' FS. Made one run, recov'd 6 BO. Well kicked off & flowed 16 BO in 1 hr. Equalized backside w/tbg, killing well. Released RTTS & RIH to retrieve RBP. PCOH w/tbg, pkr & RBC. RU wireline unit. Installed full lubricator. Tested to 1C00 psig. RIH w/4" csg gun w/safety sub to 8650'. Safety sub malfunctioned, P00H w/gun, inspection indicated 0-ring failed in safety sub. Replaced safety-sub & RIH w/gun. Pulled Gamma-ray-CCL strip from 8250-7700'for correlation. Perf'd from 8055-8070', 2 JSPF for 24 holes. P00H w/gun, all shots fired. RIH w/2nd 4" gun. Got on depth. Perf'd from 8033' to 8046', 2 JSPF for 16 holes. P00H w/gun, all shots fired. RIH w/3rd 4" tandem gun. Perf'd from 7935-38' & 8004-8008'-2 JSPF for 18 holes. P00H w/gun, all shots fired. RD full lubricator & wireline unit. PU 5 1/2" RBP, RH, 5 1/2" RTTS tool, 2 3/8" WN & RIH on 250 jts of 2 3/8" tbg. Left pkr swinging. Secured well. SDFN.
- 8. SITP = 500 psig. SICP = 300 psig. Flowed csg to frac tank for 1 hr recovering 16 BO. Pumped 10 BW down tbg to kill well. RIH w/RBP to 8136' KB & set RBP. PU pkr 5' & set. Pressure tested tbg pkr & plug to 4500 psig. Well kicked up backside. Pumped 30 BW down backside to kill well. Released RTTS & PU to 7809' KB & set RTTS tool. Loaded backside w/69 BW and pressured up backside to 1000

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- 8. psig. RU Western Co. Established inj rate of 1 BPM @ 2700 psig w/2% kCL wtr. Acidized perfs 7935-8070' w/5800 gals of 20% gelled acid w/additives dropping 118 BS spaced evenly throughout job. No ball action. Flushed w/3050 gals of 2% KCL wtr w/additives. Min treating press = 2600 psig. Max treating press = 3400 psig. Avg treating press = 2900 psig. AIR = 4.8 BPM. ISDP = 26C0 psig, 5 min SIP 2450 psig. 10 min SIP = 2400 psig. 15 min SIP = 2300 psig. SWI for total of 60 mins. Flowed well for 1 hr recovering 28 BW w/show of oil. RU swab. Swab well to SN @ 7808' in 10 runs, waiting 30 mins between runs for gas pressure to bleed off. Recov'd 53 BO & 35 BW while swabbing. Secured well. SDFN.
- 9. SITP = 830 psig. SICP = 500 psig. Opened csg to frac tank and bled off 11 BF. Opened tbg to frac tank & flowed 27 BF. RU swab & made 10 swab runs in 7 hrs, pulling from SN w/scattered fluid. Shut well in. SDFN. Total recovery for day 69 BO & 3 BW.
- 10. SITP = 680 psig. SICP = 50 psig. Opened well to frac tank, flowed 26 BO & died. RU swab. Made 7 runs in 3 hrs recovering 13 BO. Pulled swab from SN w/scattered fluid. Opened bypass & equalized backside w/tbg. Released RTTS tool RIH to RBP. Retrieved RBP & POOH w/tbg, pkr & plug. PU mud anchor, SN, 19 jts of 2 3/8" tbg, 2 3/8" x 5 1/2" TAC & RIH on 261 jts of 2 3/8" tbg, 4.7#/ft, 8rd, N-80, EUE tbg. RU kill truck. Pumped 20 BW down tbg & 20 BW down csg. ND BOP. Set TAC w/12,000# tension @ 8166' KB w/SN @ 8753' KB. NU wellhead. PU 2" x 1 1/2" x 28' RHBC pump w/1" x 10' gas anchor, 7/8" x 2' sub, 7/8" x 25' steel rod, 26-K shear tool, 115-7/8" x 25' steel rods, 154-0.98" x 37.5' Fiberflex fiberglass rods, 0.98" x 8' FG sub. Seated & spaced out pump. Loaded hole w/13 BW & pressured tbg to 500 psig. Held OK. Checked pump action. Started well pumping to frac tank @ 7:00 pm MST.
- 11. Well pumped 64 BO & 90 BW in 13 hrs.
- 12. Well pumped & flowed 145 BO, 41 BW in 24 hrs with an estimated 320 MCFC gas rate. Well pumping 10 SPM, 144" stroke. CP = 55 psiq. TP = 25 psiq.
- 13. Well pumped 121 BO & 24 BW in 24 hrs. CP & TP = 20 psiq.
- 14. Well pumped 120 BO, 0 BW & 209 MCF in 20 hrs (down 4 hrs to repair dump valves on HT). Well is periodically flowing up the casing.
- 15. Well pumped 134 BO, 0 BW & 287 MCF in 24 hrs.
- 16. Well pumped 104 BO, 0 BW & 251 MCF in 24 hrs.
- 17. Well pumped 112 BO, 0 BW & 252 MCFG in 24 hrs. FL 1491' FAP.
- 18. Well pumped 103 BO, 0 BW & 269 MCFG in 24 hrs.

(Continued on Page Four)

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- 19. Well pumped 102 BO, 0 BW & 269 MCFG in 24 hrs.
- 20. Well pumped 103 BO, 0 BW & 273 MCF in 24 hrs.
- 21. Well pumped 89 BO, 10 BW & 270 MCF in 24 hrs. FL 1194' FAP.
- 22. Well pumped 93 BO, 0 BW & 268 MCF in 24 hrs.
- 23. Well pumped 100 BO, 0 BW & 258 MCF in 24 hrs.
- 24. Well pumped 100 BO, 0 BW & 256 MCF in 24 hrs. FL 1129' FAP.
- 25. Well pumped 95 BO, 3 BW & 254 MCF in 24 hrs.
- 26. Well pumped 92 BO, 6 BW & 255 MCF in 24 hrs. Prior to adding perfs & stimulation treatment, well pumped 70 BOPD, 0 BWPD & 188 MCFGPD.

FINAL REPORT.