

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 MARATHON OIL COMPANY

3. ADDRESS OF OPERATOR
 PO BOX 552 MIDLAND, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface UNIT LETTER H 1980' FNL & 990' FEL
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 14.6 MILES SW MONUMENT, NM

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
 2213.7

16. NO. OF ACRES IN LEASE
 2560

17. NO. OF ACRES ASSIGNED TO THIS WELL
 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 1650

19. PROPOSED DEPTH
 14,215

20. ROTARY OR CABLE TOOLS
 N/A

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 KB: 3661.7 GL: 3693.6

22. APPROX. DATE WORK WILL START*
 UPON APPROVAL

5. LEASE DESIGNATION AND SERIAL NO.
 NM-06531 653434

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 LEA UNIT

8. FARM OR LEASE NAME
 LEA UNIT

9. WELL NO.
 12

10. FIELD AND POOL, OR WILDCAT
 LEA PENN
~~SEED (MORROW)~~

11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA
 S13-T20-S; R34-E

12. COUNTY OR PARISH
 LEA

13. STATE
 NM

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
	13-3/8"	48#	900.5	800
	9-5/8"	40#/36#	5423	4100
	7-5/8"	29.7# . 33.7#	14341	1500
	5-1/2"	20# 39#	14033-16553	160

MARATHON OIL COMPANY REQUESTS PERMISSION TO RECOMPLETE FROM THE DEVONIAN TO THE MORROW FORMATION. THE PURPOSE PROCEDURE IS ATTACHED.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Thomas Price TITLE ADVANCED ENGINEERING TECH DATE 10/13/92

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE 10/27/92
 CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

RECOMPLETION PROCEDURE

LEA UNIT NO. 12
(API NO. 30-025-26365)

1980' FNL & 990' FEL
SECTION 13, T-20-S, R-34-E
LEA COUNTY, NEW MEXICO
AFE NO. 44690

Date: September 22, 1992

Purpose: Recomplete Lea Unit No. 12 from the Devonian to the Morrow Formation.

Status: Shut-in

TD: 16,553' PBTD: 14,388' KB: 3661.7' GL: 3693.6'

Surface Casing: 13-3/8", 48#, H-40, set at 900.5'. Cemented with 500 sxs of Halliburton lite with additives. Tailed with 300 sxs of class "C". Circulated 135 sx to the pit.

Intermediate Casing: 9-5/8", 40#/36#, N-80/K-55, set at 5,423'. Cement with 4100 sxs. DV tool at 3,154'

Production Casing: 7-5/8", 29.7#/33.7#/39#, P-110/AR-95/S-95, set at 14,341. Cemented with 1200 sx of Halliburton Lite with additives. Tailed with 300 sxs Class "H" with additives. Displaced with 665 BBLs. drilling mud. Over displaced with 21 BBLs. Full returns while cementing. TOC at 5450'.

Liner: 5-1/2", 20#, P-110, set from 14,033' to 16,553'. Cemented with 160 sxs of Class "H" cement.

Tubing: 2-7/8", 6.5#, N-80

Present Completions: (14,421'-14,424', 14,428, 14,531'-
(Devonian) 14,434', 14,345'- 14,351' 2 JSPF).
CIBP at 14,400 w/ 12' of cement.

Pressure Information: Estimated Bottomhole Pressure - 6,700 psig.
(Morrow) Estimated SI Surface Pressure - 4,800 psig

1. Test safety anchors to 22,500 lbs. Move in and rig up Pulling Unit.
2. Nipple down wellhead. Nipple up double valved riser spool and 1500 series hydraulic BOPs with 2-7/8" pipe rams.
3. Rig up wireline company. Run in the hole with a 5-1/2" CIBP to 14,250'. Set CIBP and run in the hole with GR/CCL and log from 12,700' to 13,200'. Run in the hole and dump 35' of " class "C" cement on top of the CIBP.
4. Run in the hole with a 7-5/8" CIBP to 13,950'. Set CIBP and pull out of the hole. Run in the hole and dump 35' of class "C" cement on top of the CIBP. Pull out of the hole and rig down wireline company.
5. Pick up 2-3/8", 4.7#, N-80 tubing and run in the hole to 13,100' hydro-testing to 7,000 psi.
6. Load hole, close pipe rams and shut-in backside. Pressure test CIBP to 500 psi and hold for 30 minutes. Record pressure test using a chart recorder so results can be filed with the state.

RECOMPLETION PROCEDURE

LEA UNIT NO. 12

AFE NO. 44690

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7. Rig up service company. Pickle 2-3/8" tubing with 750 gallons of 15 % HCl double inhibited acid. Displace the acid with 49 BBLs KCl down tubing. Reverse circulate hole with 600 BBLs of 4% KCl water with clay stabilizer. Rig down service company.
8. Pull out of the hole with 2-3/8" tubing. Nipple down BOPs. Change 5K wellhead assembly to 10K wellhead assembly. Use tubing head adapter for tubing hanger with back pressure valve profile. Install Safety Relief valve on 2-3/8" and 7-5/8" annulus. Nipple up BOPs and close blind rams to test BOP stack.
9. Pick up 4-5/8" Vanngun assembly with 6 JSPF 32 gram RDX charges (60 Degree Phasing). Run in the hole with Vannguns, production packer, SN, on/off tool and 2-3/8" tubing. Fill 1st 9-10 stands with 4% KCl water. Position the bottomhole assembly to ±12,975' by the tubing tally.
10. Rig up wireline company. Run in the hole with a thru-tubing GR/CCL and correlate the radioactive tubing tag to position the Vanngun assembly. Pull out of the hole and rig down wireline company.
11. Adjust the tubing with 2-3/8" tubing subs to get Vanngun on depth. Set the packer with 15,000# minimum compression.
12. Nipple down BOPs and nipple up wellhead.
13. Drop Bar Pressure Vent tube and open ports below the packer. Monitor annulus and tubing for packer failure.
14. Rig up flow lines to frac tank, tie in test separator, flair lines and flair. Close adjustable choke. Pressure test wellhead.
15. (Drop detonating bar and perforate the Morrow at 13,003' to 13,007' and 13,028' to 13,048 with 6 JSPF.
16. If Morrow flow tests less than 1,000 MCFPD, evaluate for acid stimulation.
16. Flow back well and test. Allow well to stabilize for 5 to 7 days. Shut-in well and run a build-up test. Conduct a Four Point test for the state.
17. Install meter run, tie into sales line and place well on production.

Submit to Appropriate District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION
P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

7000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

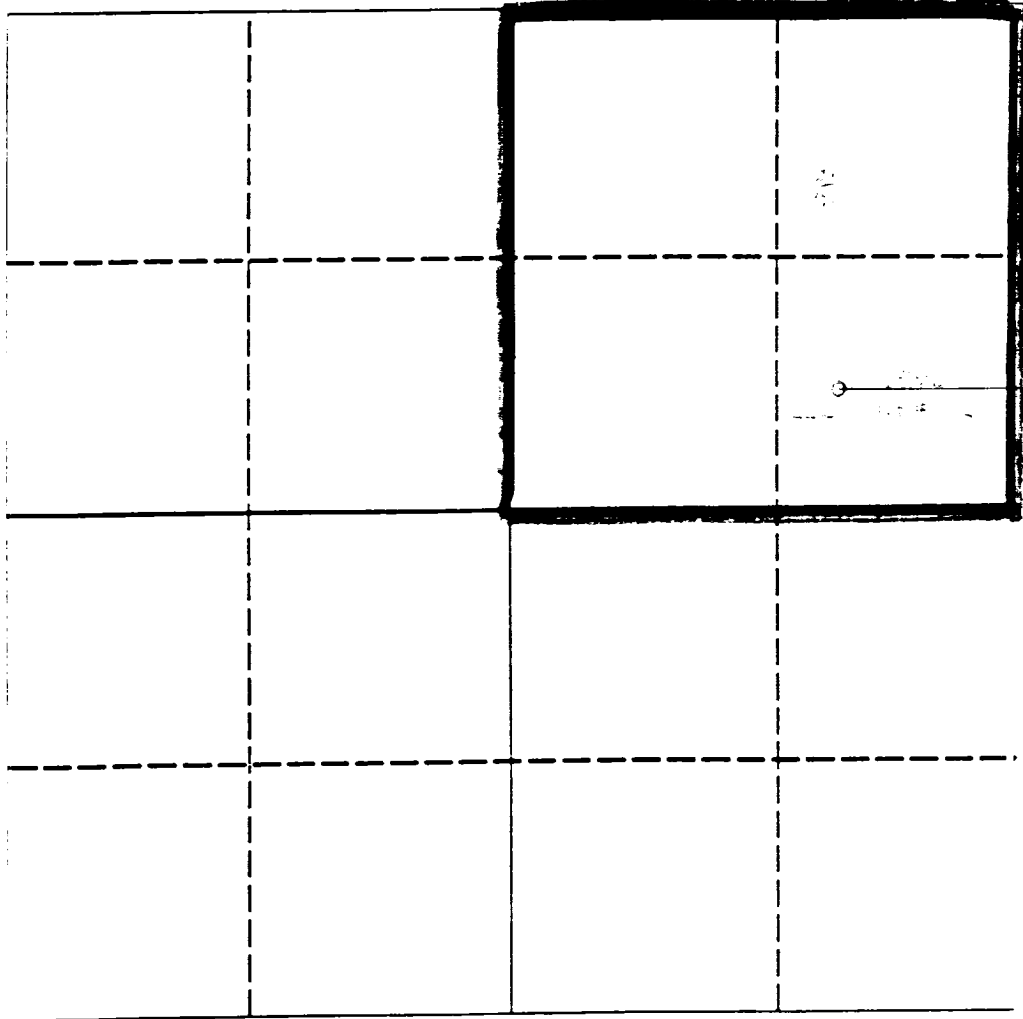
Operator Marathon Oil Company			Lease Lea Unit		Well No. 12
Unit Letter H	Section 1980 13	Township 20-S	Range 34-E	County NMPM Lea	
Actual Footage Location of Well: 1980 feet from the North line and 990 feet from the East line					
Ground level Elev. 3693.6	Producing Formation Bend (Morrow)	Pool Lea (Penn)	Dedicated Acreage: 160 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

 Yes No If answer is "yes" type of consolidation _____

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Thomas M Price
Signature

Printed Name
Thomas M. Price

Position
Advanced Eng. Tech

Company
Marathon Oil Company

Date
10/2/92

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Signature & Seal of Professional Surveyor

Certificate No.