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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-4-65

5A. Indicate Type of Lease	
STATE ☐	FEE ☒
5. State Oil & Gas Lease No.	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

12. Type of Work				7. Unit Agreement Name	
b. Type of Well OIL WELL ☒ GAS WELL ☐ OTHER ☐				8. Farm or Lease Name W. S. Marshall "B"	
2. Name of Operator Marathon Oil Company				9. Well No. 4	
3. Address of Operator P. O. Box 552, Midland, Texas 79702				10. Field and Pool, or Wildcat Blinebry-Drinkard	
4. Location of Well UNIT LETTER <u>L</u> LOCATED <u>1980</u> FEET FROM THE <u>South</u> LINE AND <u>660</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>27</u> TWP. <u>21-S</u> RGE. <u>37-E</u> NUPM				12. County Lea	
19. Proposed Depth				19A. Formation Paddock	
21. Elevations (Show whether DT, RT, etc.) GR: 3415' KB: 3428'				22. Approx. Date Work will start April 27, 1987	
21A. Kind & Status Plug. Bond Blanket				21B. Drilling Contractor	

23. Existing ~~PROPOSED~~ CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17"	13-3/8"	48	299'	250	Surface
11"	8-5/8"	32	2800'	1500	Surface
8"	5-1/2"	17	6520'	500	4600' calc.

Marathon Oil Company proposes to plug back the W. S. Marshall "B" Well No. 4 from the Blinebry-Drinkard and recompleate in the Paddock. The proposed workover procedure and a wellbore schematic is attached.

Permit Expires 6 Months From Approval
Date Unless ~~Drilling~~ *Workover* Underway.

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Eric M. Pungle Title Engineer Date 4-21-87

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT 1 SUPERVISOR

APPROVED BY _____ TITLE _____ DATE APR 24 1987

CONDITIONS OF APPROVAL, IF ANY:

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DEPARTMENT

WORKING PROCEEDINGS

1. Marshall "B" No. 1

1. RUN IN. Tapered LOP.
2. Release Baker Model A-1 Lok-set Packer by applying an upstrain of 2000 to 4000 pounds then rotate the tubing to the right eight to ten turns at the tool until the tool moves up the hole.
3. POOH with 2 3/8" production tubing assembly.
4. Pick up 4 1/2" drill bit and 5 1/2" casing scraper on 2 7/8" workstring and clean out wellbore to 6950'.
5. Run up wireline company and set two cast iron bridge plugs. Dump 10' of cement on top of each. Set one plug at 6900' and the other at 6450'. Pressure test casing to 500w.
6. Perforate the Paddock formation with 1 JSIF at: 5130-39', 5150-10', 5163-95', 5217-25', 5240-45', 5254-58' and 5265-70' for a total of 53 holes.¹³ 4 5 6 53
7. Pick up treating packer for 5 1/2" 17# casing on 2 7/8" workstring and RIH.
8. Spot acid across perforated interval and set packer at 5050'. Acidize interval with 2500 G. 15% HCl. Swab back load and swab test.
9. POOH with workstring assembly.
10. Pick up 2 3/8" production tubing with seating nipple, perforated sub and tubing anchor and RIH. Set tubing anchor at 5205'.
11. Run in hole with 1 1/2" insert pump on combination 7/8" (top 345) and 3/4" (bottom 665) rod string.
12. Set Lufkin M160-173-74 unit with 20 hp motor. Adjust for 8 spm. 14" stroke.
13. Start well to test. Theoretical production is 125 BPD.

GMH/19/dah

6350-6492' (selected intervals) Upper Drinkard

PREPARED BY: G. M. Harris
GMH/18/Jah

DATE 3/27/87

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