

Submit to Appropriate
District Office
State Lease -- 6 copies
Fee Lease -- 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

| |
|---|
| API NO. (assigned by OCD on New Wells) |
| 30-025-31187 |
| 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. VB-03934 |
| 7. Lease Name or Unit Agreement Name 23495 01402 Buffalo Wallow "1" State |
| 8. Well No. 1 |
| 9. Pool name or Wildcat Wildcat 96040 |

| | | | | | |
|--|----------------|---|---|------------------------------------|-----------|
| APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK | | | | | |
| 1a. Type of Work: DRILL <input checked="" type="checkbox"/> RE-ENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> | | | 7. Lease Name or Unit Agreement Name 23495 01402 Buffalo Wallow "1" State | | |
| b. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> | | | | | |
| 2. Name of Operator Marathon Oil Company | | | 8. Well No. 1 | | |
| 3. Address of Operator P. O. Box 552, Midland, TX 79702 | | | 9. Pool name or Wildcat Wildcat 96040 | | |
| 4. Well Location Unit Letter F : 1980 Feet From The north Line and 1980 Feet From The west Line Section 1 Township 18-S Range 35-E NMPM Lea County | | | | | |
| 10. Proposed Depth 12,900' | | 11. Formation Devonian | | 12. Rotary or C.T. Rotary | |
| 13. Elevations (Show whether DF, RT, GR, etc.) 3887.5' GL | | 14. Kind & Status Plug. Bond Blanket-Current | | 15. Drilling Contractor Unknown | |
| 16. Approx. Date Work will start March 25, 1991 | | | | | |
| 17. PROPOSED CASING AND CEMENT PROGRAM | | | | | |
| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | SACKS OF CEMENT | EST. TOP |
| 26" | 20" | Line pipe | 40' | Redi-mix | Circulate |
| 17-1/2" | 13-3/8" | 54.5 | 500' | 530 | Circulate |
| 12-1/4" | 8-5/8" | 24 & 32 | 4500' | 1450' | Circulate |
| 7-7/8" | 5-1/2" | 17 & 15.5 | 12,900' | 2325' | 4000' |

Propose to drill to 12,900' and test the Siluro/Devonian at \pm 12,600' and Bone Spring at \pm 9000'.

All casing will be run and cemented in accordance with regulations and by approved methods.

BOP Requirements:

20" Conductor: Rotating Head as Diverter
13-3/8" Surface: 13-3/8" 3M Annular & 13-5/8" 3M Dual Rams
8-5/8" Intermediate: 11" 5M Annular & 11" 5M Dual Rams

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.

SIGNATURE [Signature] TITLE Drilling Superintendent DATE 2/27/91

TYPE OR PRINT NAME S. L. Atnipp TELEPHONE NO. 915/682-1

(This space for State Use)

ORIGINAL SIGNED BY JERRY CRYSTAL
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.

MAR 04 1991

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Santa Fe, New Mexico 87504-2088

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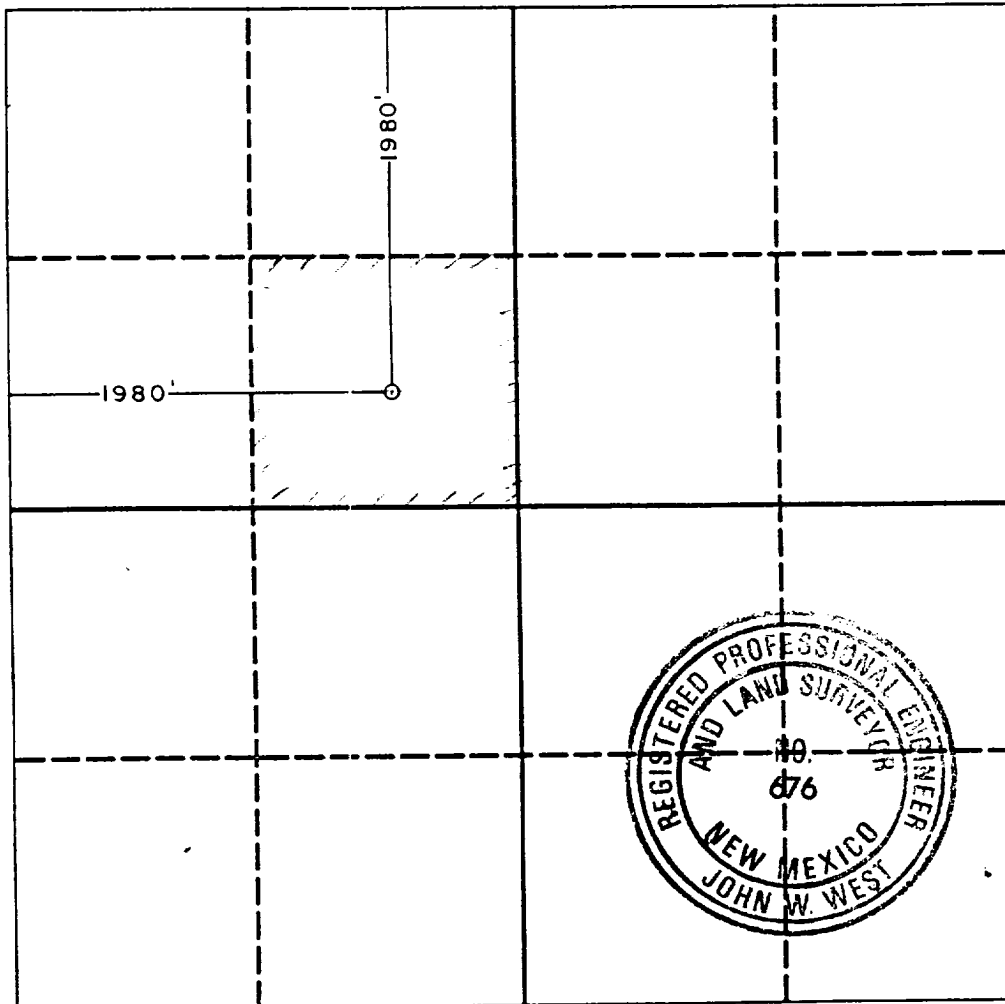
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

| | | | | | |
|--|---|----------------------|-------------------------------|-----------------------------------|---------------|
| Operator MARATHON OIL CO. | | | Lease BUFFALO WALLOW STATE | | Well No. 1 |
| Unit Letter F | Section 1 | Township 18 SOUTH | Range 35 EAST | County LEA | |
| Actual Footage Location of Well: 1980 feet from the WEST line and 1980 feet from the NORTH line | | | | | |
| Ground level Elev. 3887.5 | Producing Formation Bone Spring/Devonian | | Pool Wildcat | Dedicated Acreage: 80-40 Acres | |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. 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.

Signature *[Signature]*
Printed Name
S. L. Atnipp
Position
Drilling Superintendent
Company
Marathon Oil Company
Date
2/27/91

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
2-20-91
Signature & Seal of Professional Surveyor
[Signature]
Certificate No. JOHN W. WEST, 676
RONALD J. EIDSON, 3239

16-b-b

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1991