Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021

| _ | DV NOTE | CEC | ANID | DEDODTS ON WELLS |
|---|---------|-------|------|------------------|
| | BUREAU | OF L | AND | MANAGEMENT |
| | DLIMI | TATEL | 1 01 | THE INTERIOR |

| BUR | EAU OF LAND MANAGEMENT | 5. Lease Serial No. NMNM27919 | | | | |
|---|--|---|---|--|--|--|
| Do not use this f | OTICES AND REPORTS ON Worm for proposals to drill or to Use Form 3160-3 (APD) for suc | re-enter an | 6. If Indian, Allottee | or Tribe Name | | |
| SUBMIT IN T | FRIPLICATE - Other instructions on page | e 2 | 7. If Unit of CA/Agre | eement, Name and/or No. | | |
| 1. Type of Well Oil Well Gas W | Vell Other | | 8. Well Name and No | ^{3.} Fiddle Fire Fed Com/302H | | |
| 2. Name of Operator MARATHON OI | L PERMIAN LLC | 9. API Well No. 3001549145 | | | | |
| 3a. Address 990 TOWN & COUNTR | | (include area code) | 10. Field and Pool or | | | |
| | (713) 296-21 | 13 | MALAGA/BONE : | | | |
| 4. Location of Well (Footage, Sec., T.,R SEC 23/T24S/R28E/NMP | .,M., or Survey Description) | | 11. Country or Parish EDDY/NM | n, State | | |
| 12. CHE | CK THE APPROPRIATE BOX(ES) TO INI | DICATE NATURE OF NOT | ICE, REPORT OR OT | HER DATA | | |
| TYPE OF SUBMISSION | | TYPE OF AC | TION | | | |
| Notice of Intent | | aulic Fracturing Rec | duction (Start/Resume) lamation omplete | Water Shut-Off Well Integrity Other | | |
| Subsequent Report | | = | nporarily Abandon | _ | | |
| Final Abandonment Notice | Convert to Injection Plug | Back Wat | er Disposal | | | |
| completion of the involved operation completed. Final Abandonment Notice is ready for final inspection.) Marathon Oil respectfully requive Setting Depths: Surf Csg: 546' Int 1 Csg: 6596' Prod Csg: 17710' Please see attached drill plant | | pletion or recompletion in a s, including reclamation, hav | new interval, a Form | 3160-4 must be filed once testing has been the operator has detennined that the site | | |
| 14. I hereby certify that the foregoing is TERRI STATHEM / Ph: (713) 296-2 | true and correct. Name (Printed/Typed) 2113 | Regulatory Compli | ance Manager | | | |
| Signature (Electronic Submission | n) | Date | 08/13/2 | 2024 | | |
| | THE SPACE FOR FEDI | ERAL OR STATE O | FICE USE | | | |
| Approved by | | ENGINEED | | 00/45/0004 | | |
| KEITH P IMMATTY / Ph: (575) 988 | 3-4722 / Accepted | ENGINEER Title | | 08/15/2024 Date | | |
| | ned. Approval of this notice does not warran quitable title to those rights in the subject le duct operations thereon. | | | | | |
| Title 19 II C C Section 1001 and Title 4 | LLS C Section 1212 make it a grime for an | y parson knowingly and will | Ifully to make to envio | Innortment or agency of the United States | | |

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWNW / 1731 FNL / 910 FWL / TWSP: 24S / RANGE: 28E / SECTION: 23 / LAT: 32.2059465 / LONG: -104.0640235 (TVD: 0 feet, MD: 0 feet)

PPP: SWNW / 2310 FNL / 100 FWL / TWSP: 24S / RANGE: 28E / SECTION: 23 / LAT: 32.2043905 / LONG: -104.0666093 (TVD: 7601 feet, MD: 7700 feet)

PPP: SWNW / 2294 FNL / 1326 FWL / TWSP: 24S / RANGE: 28E / SECTION: 24 / LAT: 32.2041625 / LONG: -104.0450342 (TVD: 8281 feet, MD: 14700 feet)

PPP: SWNE / 2300 FNL / 2645 FEL / TWSP: 24S / RANGE: 28E / SECTION: 24 / LAT: 32.2041167 / LONG: -104.0407461 (TVD: 8304 feet, MD: 16028 feet)

BHL: SENE / 2310 FNL / 100 FEL / TWSP: 24S / RANGE: 28E / SECTION: 24 / LAT: 32.2040285 / LONG: -104.0325187 (TVD: 8348 feet, MD: 18573 feet)

Sundry Print Report
08/26/2024

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BUREAU OF LAND MANAGEMENT

Well Name: Fiddle Fire Fed Com Well Location: T24S / R28E / SEC 23 /

SWNW / 32.2059465 / -104.0640235

County or Parish/State: EDDY /

NM

Well Number: 302H Type of Well: CONVENTIONAL GAS

WELL

Allottee or Tribe Name:

Lease Number: NMNM27919

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001549145

Operator: MARATHON OIL PERMIAN

LLC

Notice of Intent

Sundry ID: 2806757

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 08/13/2024

Time Sundry Submitted: 04:20

Date proposed operation will begin: 05/07/2023

Procedure Description: Marathon Oil respectfully requests approval to change the casing design and cement design for the Fiddle Fire Fed Com #302H. Setting Depths: Surf Csg: 546' Int 1 Csg: 6596' Prod Csg: 17710' Please see attached drill plan for additional details.

NOI Attachments

Procedure Description

Fiddle_Fire_302H_Drill_Plan_20240813161952.pdf

Received by OCD: Wandald: # Kidle File Add Com

Well Location: T24S / R28E / SEC 23 / SWNW / 32.2059465 / -104.0640235

County or Parish/State: EDDY /

Well Number: 302H

Type of Well: CONVENTIONAL GAS

Allottee or Tribe Name:

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Lease Number: NMNM27919

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001549145

Operator: MARATHON OIL PERMIAN

LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: TERRI STATHEM Signed on: AUG 13, 2024 04:15 PM

Name: MARATHON OIL PERMIAN LLC Title: Regulatory Compliance Manager

Street Address: 990 TOWN & COUNTRY BLVD City: HOUSTON State: TX

Phone: (713) 296-2113

Email address: TSTATHEM@MARATHONOIL.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KEITH P IMMATTY BLM POC Title: ENGINEER

BLM POC Phone: 5759884722 BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition: Accepted Disposition Date: 08/15/2024

Signature: Keith Immatty

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MARATHON OIL PERMIAN, LLC. DRILLING AND OPERATIONS PLAN



WELL NAME & NUMBER:

Fiddle Fire Fed Com 302H

LOCATION: SECTION 23 & 24 TOWNSHIP 24S RANGE 28E

Eddy COUNTY, NEW MEXICO

Section 1:

GEOLOGICAL FORMATIONS

Name of Surface Formation:PermianElevation:2992 feet

Estimated Tops of Important Geological Markers:

| TVD (ft) | MD (ft) | Elevation (ft SS) | Lithologies | Mineral Resources | Producing Formation? |
|----------|---|--|--|---|---|
| | | | | | |
| 497 | 520.6 | 2495 | Salt/Anhydrite | Brine | No |
| 1052 | 1075.6 | 1940 | Salt/Anhydrite | Brine | No |
| 2558 | 2581.6 | 434 | Salt/Anhydrite | Brine | No |
| 2558 | 2581.6 | 434 | Sandstone/Shale | None | No |
| 2590 | 2613.6 | 402 | Sandstone | Oil | No |
| 3446 | 3469.6 | -454 | Sandstone | Oil | No |
| 4715 | 4738.6 | -1723 | Sandstone | Oil | No |
| 6214 | 6237.6 | -3222 | Limestone | None | No |
| 7157 | 7180.6 | -4165 | Sandstone | Oil | Yes |
| 7976 | 7999.6 | -4984 | Sandstone | Oil | Yes |
| 9063 | 9086.6 | -6071 | Sandstone | Oil | Yes |
| 9410 | 9433.6 | -6418 | Sandstone/Shale/Carbonates | Natural Gas / Oil | Yes |
| | | | | | |
| | | | | | |
| | | | | | |
| | 497 1052 2558 2558 2590 3446 4715 6214 7157 7976 | 497 520.6 1052 1075.6 2558 2581.6 2558 2581.6 2590 2613.6 3446 3469.6 4715 4738.6 6214 6237.6 7157 7180.6 7976 7999.6 | 497 520.6 2495 1052 1075.6 1940 2558 2581.6 434 2558 2581.6 434 2590 2613.6 402 3446 3469.6 -454 4715 4738.6 -1723 6214 6237.6 -3222 7157 7180.6 -4165 7976 7999.6 -4984 | 497 520.6 2495 Salt/Anhydrite 1052 1075.6 1940 Salt/Anhydrite 2558 2581.6 434 Salt/Anhydrite 2558 2581.6 434 Sandstone/Shale 2590 2613.6 402 Sandstone 3446 3469.6 -454 Sandstone 4715 4738.6 -1723 Sandstone 6214 6237.6 -3222 Limestone 7157 7180.6 -4165 Sandstone 7976 7999.6 -4984 Sandstone 9063 9086.6 -6071 Sandstone | A97 520.6 2495 Salt/Anhydrite Brine |

Section 2:

BLOWOUT PREVENTER TESTING PROCEDURE

Pressure Rating (PSI): 10M Rating Depth: 10000

Equipment: 13 5/8 BOP Annular (5,000 psi WP) and BOP Stack (10,000 psi WP) will be installed and tested before drilling all holes.

Requesting Variance? Yes

Variance Request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

Testing Procedure:

BOP/BOPE will be tested to 250 psi low and a high of 100% WP for the Annular and 5,000psi for the BOP Stack before drilling the intermediate hole, and 5,000psi for the BOP Stack before drilling the production hole. Testing will be conducted by an independent service company per 43 CFR 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the Equipment Description above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams and Blind rams will be operationally checked on each trip out of the hole, but not too exceed more than once per day. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock, full opening safety valve / inside BOP and choke lines and choke manifold. See attached schematics.

Formation integrity test will be performed per 43 CFR 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR 3172. A multibowl wellhead is being used. The BOP will be tested per 43 CFR 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. See attached schematic.

Section 3:

Yes or No

No

Marathon Oil Permian LLC. Drilling & Operations Plan - Page 2 of 3 CASING PROGRAM

| 5000.011 51 | | | | | | | G, 1011 | | | | | | | | | | |
|--------------|--|-------------|---------------|------------------|----------------|-------------------|----------------|-------------------|-----------------|--------|------------|-------------|----------|---------------|----------|--------------|---------|
| | | | | | | | | | | | | | | | | | |
| String Type | Hole Size | Casing Size | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Weight (lbs/ft) | Grade | Joint Type | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
| Surface | 17.5 | 13.375 | 0 | 546 | 0 | 522 | 2992 | 2470 | 54.5 | J55 | втс | 1.00 | 1.15 | BUOY | 1.30 | BUOY | 1.30 |
| Intermediate | 12.25 | 9.625 | 0 | 6596 | 0 | 6596 | 2992 | -3604 | 40 | P110HC | втс | 1.00 | 1.15 | BUOY | 1.30 | BUOY | 1.30 |
| Production | 8.75 | 5.5 | 0 | 17710 | 0 | 7485 | 2992 | -4493 | 23 | P110EC | TC | 1.00 | 1.15 | BUOY | 1.30 | BUOY | 1.30 |
| | All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h Safety Factors will Meet or Exceed | | | | | | | | | | | | | | | | |

Casing Condition: New ΔΡΙ **Casing Standard: Tapered String?** No

Is well located in critical Cave/Karst?

If yes, is there a contingency casing if lost circulation occurs?

If yes, are there three strings cemented to surface?

Is casing new? If used, attach certification as required in Onshore Order #1. Yes Does casing meet API specifications? If no, attach casing specification sheet. Yes Is premium or uncommon casing planned? If yes attach casing specification sheet. No Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria). Yes Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing? Yes Is well located within Capitan Reef? No If yes, does production casing cement tie back a minimum of 50' above the Reef? Is proposed well within the designated four string boundary? Is well located in R-111-P and SOPA? No If yes, are the first three strings cemented to surface? Is the second string set 100' to 600' below the base of salt? Is well located in SOPA but not in R-111-P? No If yes, are the first 2 strings cemented to surface and third string cement tied back 500' into previous casing? Is well located in high Cave/Karst? No If yes, are there two strings cemented to surface?

| Section 4: CEMENT PROGRAM | | | | | | | | | | |
|---------------------------|-----------|--------|-----------|----------------|-----------------|---------------|---------------------|------------|-------------|--|
| String Type | Lead/Tail | Top MD | Bottom MD | Quantity (sks) | Yield (ft³/sks) | Density (ppg) | Slurry Volume (ft³) | Excess (%) | Cement Type | Additives |
| Surface | Lead | 0 | 246 | 124 | 2.12 | 12.5 | 262 | 25 | Class C | Extender, Accelerator, LCM |
| Surface | Tail | 246 | 546 | 197 | 1.32 | 14.8 | 260 | 25 | Class C | Accelerator |
| Intermediate | Lead | 0 | 6096 | 1110 | 2.18 | 12.4 | 2420 | 25 | Class C | Extender, Accelerator, LCM |
| Intermediate | Tail | 6096 | 6596 | 147 | 1.33 | 14.8 | 196 | 25 | Class C | Retarder |
| Production | Tail | 6296 | 17710 | 2186 | 1.68 | 13 | 3672 | 25 | Class H | Retarder, Extender, Fluid Loss, Suspension Agent |

Stage tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Stage tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Pilot Hole? No Plugging Procedure for Pilot Hole: N/A

Pilot Hole Depth: N/A **KOP Depth:** N/A

| Plug Top | Plug Bottom | Excess (%) | Quantity (sx) | Density (ppg) | Yield (ft3/sks) | Water gal/sk | Slurry Description and Cement Type |
|----------|-------------|------------|---------------|---------------|-----------------|--------------|------------------------------------|
| | | | | | | | |
| | | | | | | | |

Marathon Oil Permian LLC.

Drilling & Operations Plan - Page 3 of 3

Section 5: CIRCULATING MEDIUM

Mud System Type: Closed
Will an air or gas system be used? No

Describe what will be on location to control well or mitigate other conditions:

The necessary mud products for additional weight and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized:

Losses or gains in the mud system will be monitored visually/manually as well as with an electronic PVT.

Circulating Medium Table:

| Top Depth | Bottom Depth | Mud Type | Min. Weight (ppg) | Max Weight (ppg) |
|-----------|--------------|-------------------------|----------------------|---------------------|
| 0 | 545.6 | Water Based Mud | 8.4 | 8.8 |
| 545.6 | 6596 | Brine or Oil Based Mud | 9.2 | 10.2 |
| 6596 | 17710 | Brtine or Oil Based Mud | 10.5 | 12.5 |

Section 6:

TESTING, LOGGING, CORING

List of production tests including testing procedures, equipment and safety measures:

GR from TD to surface (horizontal well - vertical portion of hole).

List of open and cased hole logs run in the well:

GR while drilling from Intermediate casing shoe to TD.

Coring operation description for the well:

Run gamma-ray (GR) and corrected neutron log (CNL) or analogous to surface for future development of the area, one per shared well pad not to exceed 200' radial distance.

| Section 7: | ANTICIPATED PRESSURE |
|--------------------------------------|----------------------|
| Anticipated Bottom Hole Pressure: | 4865 PSI |
| Anticipated Bottom Hole Temperature: | 195 °F |
| Anticipated Abnormal Pressure? | No |
| Anticipated Abnormal Temperature? | No |

Potential Hazards:

H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. See attached H2S Contingency Plan.

Section 8: OTHER INFORMATION

Auxiliary Well Control and Monitoring Equipment:

A Kelly cock will be in the drill string at all times. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.

Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached. If Hydrogen Sulfide is encountered, measured amounts and formations will be reported to the BLM.

Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 30 days.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 **Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

State of New Mexico

CONDITIONS

Action 377596

CONDITIONS

| Operator: | OGRID: |
|--------------------------|--------------------------------------|
| MARATHON OIL PERMIAN LLC | 372098 |
| 990 Town & Country Blvd. | Action Number: |
| Houston, TX 77024 | 377596 |
| | Action Type: |
| | [C-103] NOI Change of Plans (C-103A) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|----------------------------------|-------------------|
| ward.rika | a All original COA's still apply | 11/3/2024 |