U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

07/14/2024

Well Name: DOGIE DRAW FED COM 25 34 14 WA

Well Location: T25S / R34E / SEC 14 / NESE / 32.1303372 / -103.4359721

County or Parish/State: LEA / NM

Well Number: 18H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM122624

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547041

Operator: MARATHON OIL PERMIAN LLC

Notice of Intent

Sundry ID: 2751471

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 09/27/2023

Time Sundry Submitted: 07:26

Date proposed operation will begin: 09/15/2023

Procedure Description: Marathon Oil Permian LLC respectfully requests the below APD changes. Name Change: DOGIE DRAW FED COM 25 34 14 WA 18H to Dogie Draw E25 WC 18H SHL

NOI Attachments

Procedure Description

DOGIE_DRAW_E25_WC_18H_Sundry_Doc_9.27.2023_20230927072632.pdf

Conditions of Approval

Additional

Well Name: DOGIE DRAW FED COM 25 34 14 WA

Well Location: T25S / R34E / SEC 14 / NESE / 32.1303372 / -103.4359721

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Unit or CA Number:

US Well Number: 3002547041

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: NICOLE LEE

Signed on: SEP 27, 2023 07:26 AM

Name: MARATHON OIL PERMIAN LLC

Title: Regulatory Compliance Representative

Street Address: 990 TOWN & COUNTRY BLVD

City: HOUSTON **State:** TX

Phone: (713) 929-6600

Email address: NJLEE@MARATHONOIL.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 09/28/2023

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMNM122624

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No. DOGIE DRAW FED COM 25 34 14 \

2. Name of Operator MARATHON OIL PERMIAN LLC

9. API Well No. 3002547041

3a. Address 990 TOWN & COUNTRY BLVD, HOUSTON, TX

3b. Phone No. *(include area code)* (713) 296-2113

10. Field and Pool or Exploratory Area PITCHFORK RANCH/WOLFCAMP; SOUTH

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 14/T25S/R34E/NMP

11. Country or Parish, State LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☑ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Marathon Oil Permian LLC respectfully requests the below APD changes.

Name Change: Dogie Draw Fed Com 25 34 14 WA #18H to Dogie Draw E25 WC Fed Com #18H

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* NICOLE LEE / Ph: (713) 929-6600

Title Regulatory Compliance Representative

Signature (Electronic Submission)

Date 09/27/2023

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Title Petroleum Engineer

Date 09/28/2023

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office CARLSBAD

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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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: NESE / 2589 FSL / 1167 FEL / TWSP: 25S / RANGE: 34E / SECTION: 14 / LAT: 32.1303372 / LONG: -103.4359721 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 0 FNL / 992 FEL / TWSP: 25S / RANGE: 34E / SECTION: 23 / LAT: 32.123237 / LONG: -103.43541 (TVD: 12689 feet, MD: 14852 feet)

PPP: NESE / 2309 FSL / 993 FEL / TWSP: 25S / RANGE: 34E / SECTION: 14 / LAT: 32.129567 / LONG: -103.4354098 (TVD: 12689 feet, MD: 13028 feet)

BHL: SESE / 330 FSL / 990 FEL / TWSP: 25S / RANGE: 34E / SECTION: 23 / LAT: 32.1096285 / LONG: -103.4354182 (TVD: 12689 feet, MD: 19848 feet)

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-47041	96994	PITCHFORK RANCH; WOLFCAMP SOUTH

[4] Property Code	[5] Property Name	[6] Well Number
322257	DOGIE DRAW E25 WC FED COM	18H

[7] OGRID No.	[8] Operator Name	[9] Elevation
372098	MARATHON OIL PERMIAN LLC	3355'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	14	25S	34E		2589	SOUTH	1167	EAST	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	23	25S	34E		330	SOUTH	990	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
240.00			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16

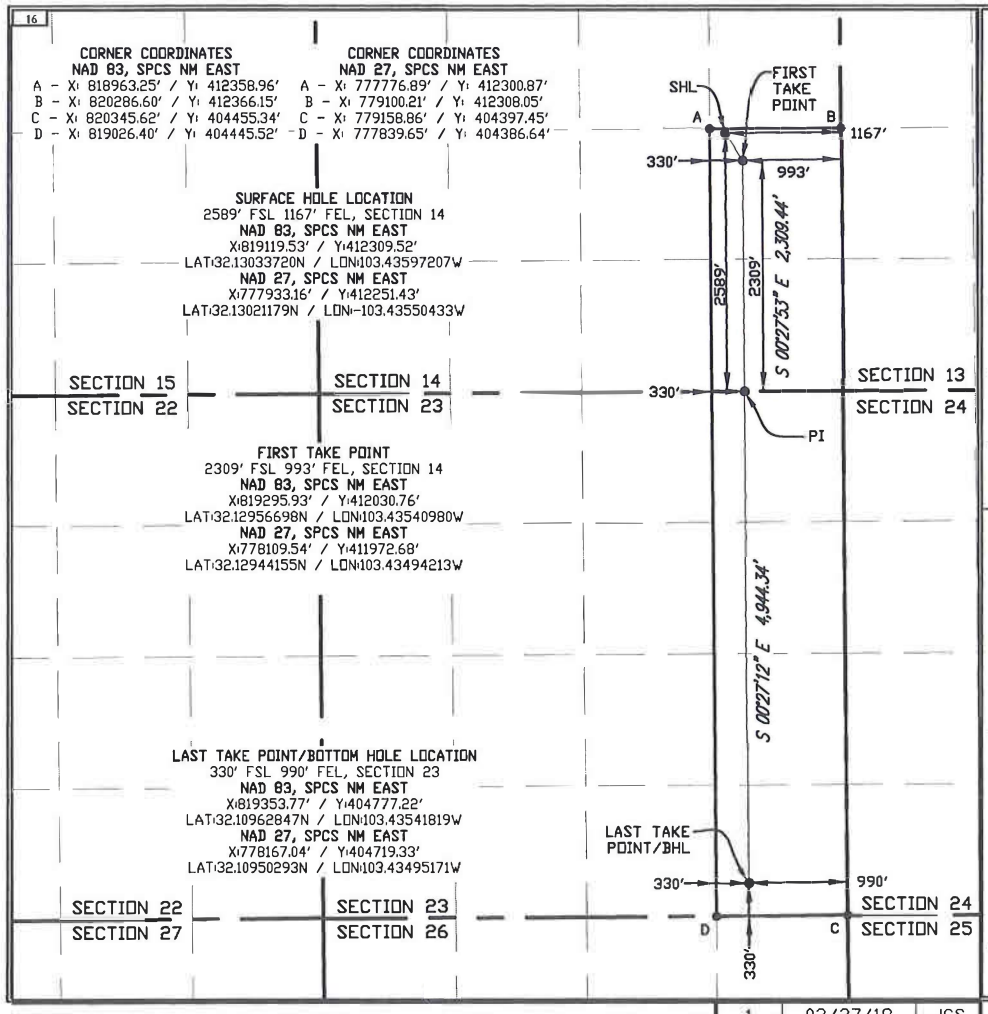
CORNER COORDINATES
NAD 83, SPCS NM EAST
A - X: 818963.25' / Y: 412358.96'
B - X: 820286.60' / Y: 412366.15'
C - X: 820345.62' / Y: 404455.34'
D - X: 819026.40' / Y: 404445.52'

CORNER COORDINATES
NAD 27, SPCS NM EAST
A - X: 777776.89' / Y: 412300.87'
B - X: 779100.21' / Y: 412308.05'
C - X: 779158.86' / Y: 404397.45'
D - X: 777839.65' / Y: 404386.64'

SURFACE HOLE LOCATION
2589' FSL 1167' FEL, SECTION 14
NAD 83, SPCS NM EAST
X:819119.53' / Y:412309.52'
LAT:32.13033720N / LON:103.43597207W
NAD 27, SPCS NM EAST
X:777933.16' / Y:412251.43'
LAT:32.13021179N / LON:-103.43550433W

FIRST TAKE POINT
2309' FSL 993' FEL, SECTION 14
NAD 83, SPCS NM EAST
X:819295.93' / Y:412030.76'
LAT:32.12956698N / LON:103.43540980W
NAD 27, SPCS NM EAST
X:778109.54' / Y:411972.68'
LAT:32.12944155N / LON:103.43494213W

LAST TAKE POINT/BOTTOM HOLE LOCATION
330' FSL 990' FEL, SECTION 23
NAD 83, SPCS NM EAST
X:819353.77' / Y:404777.22'
LAT:32.10962847N / LON:103.43541819W
NAD 27, SPCS NM EAST
X:778167.04' / Y:404719.33'
LAT:32.10950293N / LON:103.43495171W



REV.	DATE	BY
1	02/27/18	JCS

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jennifer Van Curen 7/16/18
Signature Date

Jennifer Van Curen
Printed Name

E-mail Address

[18] 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 belief.

MARCH 14, 2018
Date of Survey

Signature and Seal of Professional Surveyor:

LLOYD P. SHORT NEW MEXICO 21653 PROFESSIONAL SURVEYOR

Certificate Number LLOYD P. SHORT 21653

Well Name: DOGIE DRAW FED COM 25 34 14 WA

Well Location: T25S / R34E / SEC 14 / NESE / 32.1303372 / -103.4359721

County or Parish/State: LEA / NM

Well Number: 18H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM122624

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547041

Operator: MARATHON OIL PERMIAN LLC

Notice of Intent

Sundry ID: 2751471

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 09/27/2023

Time Sundry Submitted: 07:26

Date proposed operation will begin: 09/15/2023

Procedure Description: Marathon Oil Permian LLC respectfully requests the below APD changes. Name Change: DOGIE DRAW FED COM 25 34 14 WA 18H to Dogie Draw E25 WC 18H SHL Change: From 2589 FSL and 1167 FEL of Sec 14 to 2589' FSL and 1168' FEL Sec 14 BHL Changes: From 330' FSL and 990 FEL Sec 23 to 100' FSL and 1320' FEL Sec 23

Also, a change from a 4 string to 3 string design is requested - please see attached drill plan for specifics.

NOI Attachments

Procedure Description

DOGIE_DRAW_E25_WC_18H_Sundry_Doc_9.27.2023_20230927072632.pdf

Conditions of Approval

Additional

Master_Surface_Use_COA_s_Dogie_Draw_Fed_Com_25_34_14_WXY_14H__TB_17H__WA_18H__WXY_21H_20230928160016.pdf

Well Name: DOGIE DRAW FED COM 25 34 14 WA

Well Location: T25S / R34E / SEC 14 / NESE / 32.1303372 / -103.4359721

County or Parish/State: LEA / NM

Well Number: 18H

Type of Well: OIL WELL

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Lease Number: NMNM122624

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547041

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Operator

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Operator Electronic Signature: NICOLE LEE

Signed on: SEP 27, 2023 07:26 AM

Name: MARATHON OIL PERMIAN LLC

Title: Regulatory Compliance Representative

Street Address: 990 TOWN & COUNTRY BLVD

City: HOUSTON **State:** TX

Phone: (713) 929-6600

Email address: NJLEE@MARATHONOIL.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 09/28/2023

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMNM122624

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No. DOGIE DRAW FED COM 25 34 14 \

2. Name of Operator MARATHON OIL PERMIAN LLC

9. API Well No. 3002547041

3a. Address 990 TOWN & COUNTRY BLVD, HOUSTON, TX

3b. Phone No. *(include area code)* (713) 296-2113

10. Field and Pool or Exploratory Area PITCHFORK RANCH/WOLFCAMP; SOUTH

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 14/T25S/R34E/NMP

11. Country or Parish, State LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
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Resubmittal of ID: 270413

Marathon Oil Permian LLC respectfully requests the below APD changes.

Name Change: DOGIE DRAW FED COM 25 34 14 WA 18H to Dogie Draw E25 WC 18H
SHL Change: From 2589 FSL and 1167 FEL of Sec 14 to 2589' FSL and 1168' FEL Sec 14
BHL Changes: From 330' FSL and 990 FEL Sec 23 to 100' FSL and 1320' FEL Sec 23
Also, a change from a 4 string to 3 string design is requested - please see attached drill plan for specifics.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* NICOLE LEE / Ph: (713) 929-6600

Title Regulatory Compliance Representative

Signature (Electronic Submission)

Date 09/27/2023

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

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Date 09/28/2023

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Additional Information

Location of Well

0. SHL: NESE / 2589 FSL / 1167 FEL / TWSP: 25S / RANGE: 34E / SECTION: 14 / LAT: 32.1303372 / LONG: -103.4359721 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 0 FNL / 992 FEL / TWSP: 25S / RANGE: 34E / SECTION: 23 / LAT: 32.123237 / LONG: -103.43541 (TVD: 12689 feet, MD: 14852 feet)

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102 Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-47041	96994	PITCHFORK RANCH; WOLFCAMP (SOUTH)

[4] Property Code	[5] Property Name	[6] Well Number
322257	DOGIE DRAW E25 WC	18H

[7] OGRID No.	[8] Operator Name	[9] Elevation
372098	MARATHON OIL PERMIAN LLC	3355'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	14	25S	34E		2589'	SOUTH	1168'	EAST	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	23	25S	34E		100'	SOUTH	1320'	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
480.00			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

[16]

SHL
FSL 2589' FEL 1168', SECTION 14
NAD 83, SPCS NM EAST
X:819119.53' / Y:412309.52'
LAT:32.13033721 / LON:-103.43597207
NAD 27, SPCS NM EAST
X:777933.14' / Y:412251.46'
LAT:32.13021180 / LON:-103.43550433

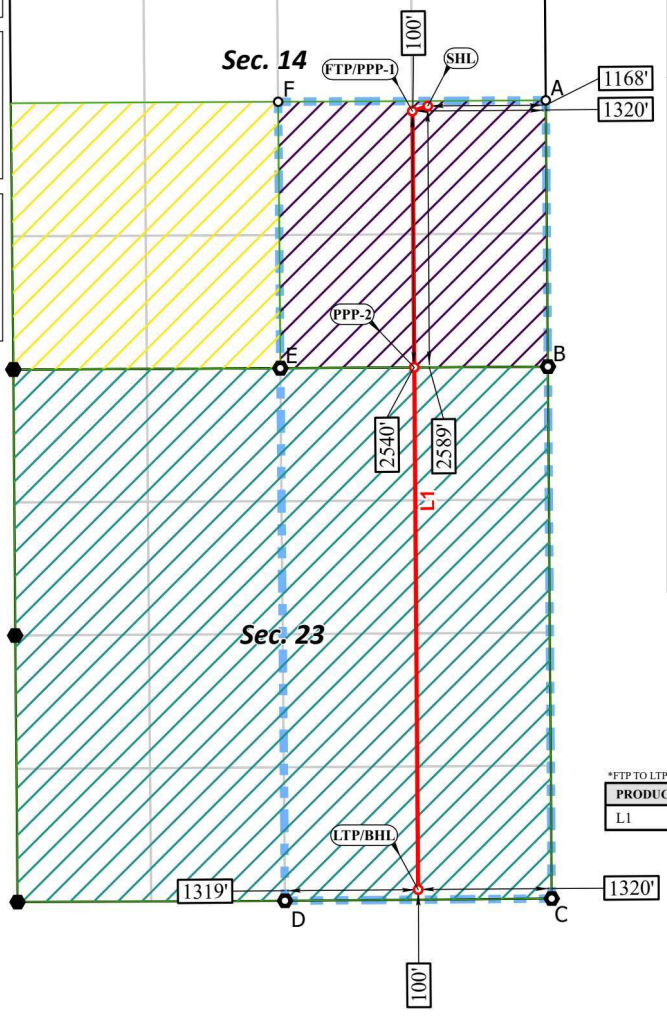
FTP/PPP-1
FSL 2540' FEL 1320', SECTION 14
NAD 83, SPCS NM EAST
X:818967.45' / Y:412259.05'
LAT:32.13020197 / LON:-103.43646468
NAD 27, SPCS NM EAST
X:777781.05' / Y:412200.99'
LAT:32.13007656 / LON:-103.43599693

PPP-2
FSL 0' FEL 1321', SECTION 14
NAD 83, SPCS NM EAST
X:818986.39' / Y:409719.45'
LAT:32.12322117 / LON:-103.43647178
NAD 27, SPCS NM EAST
X:777799.88' / Y:409661.46'
LAT:32.12309572 / LON:-103.43600445

LTP/BHL
FSL 100' FEL 1320', SECTION 23
NAD 83, SPCS NM EAST
X:819024.99' / Y:404544.52'
LAT:32.10899638 / LON:-103.43648620
NAD 27, SPCS NM EAST
X:777838.24' / Y:404486.66'
LAT:32.10887085 / LON:-103.43601972

CORNER COORDINATES NAD 83, SPCS NM EAST
A - X: 820286.68' / Y: 412366.14'
B - X: 820307.70' / Y: 409727.30'
C - X: 820345.67' / Y: 404455.33'
D - X: 817707.22' / Y: 404433.69'
E - X: 817661.79' / Y: 409711.59'
F - X: 817639.96' / Y: 412351.75'

CORNER COORDINATES NAD 27, SPCS NM EAST
A - X: 779100.29' / Y: 412308.04'
B - X: 779121.29' / Y: 409669.27'
C - X: 779158.91' / Y: 404397.44'
D - X: 776520.50' / Y: 404375.82'
E - X: 776475.32' / Y: 409653.58'
F - X: 776453.61' / Y: 412293.67'



*FTP TO LTP LINE BEARINGS

PRODUCTION LINE	BEARING/LENGTH
L1	S00°25'39"E ~ 7714.75'

[17] ***OPERATOR CERTIFICATION***
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Nicole Lee 9/27/2023
Signature Date

Nicole Lee
Printed Name

njlee@marathonoil.com
E-mail Address

[18] ***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 belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by Delta Field Services

Date of Survey: SEPTEMBER 14, 2023
Signature and Seal of Professional Surveyor

LLOYD P. SHORT NEW MEXICO 21653 PROFESSIONAL SURVEYOR

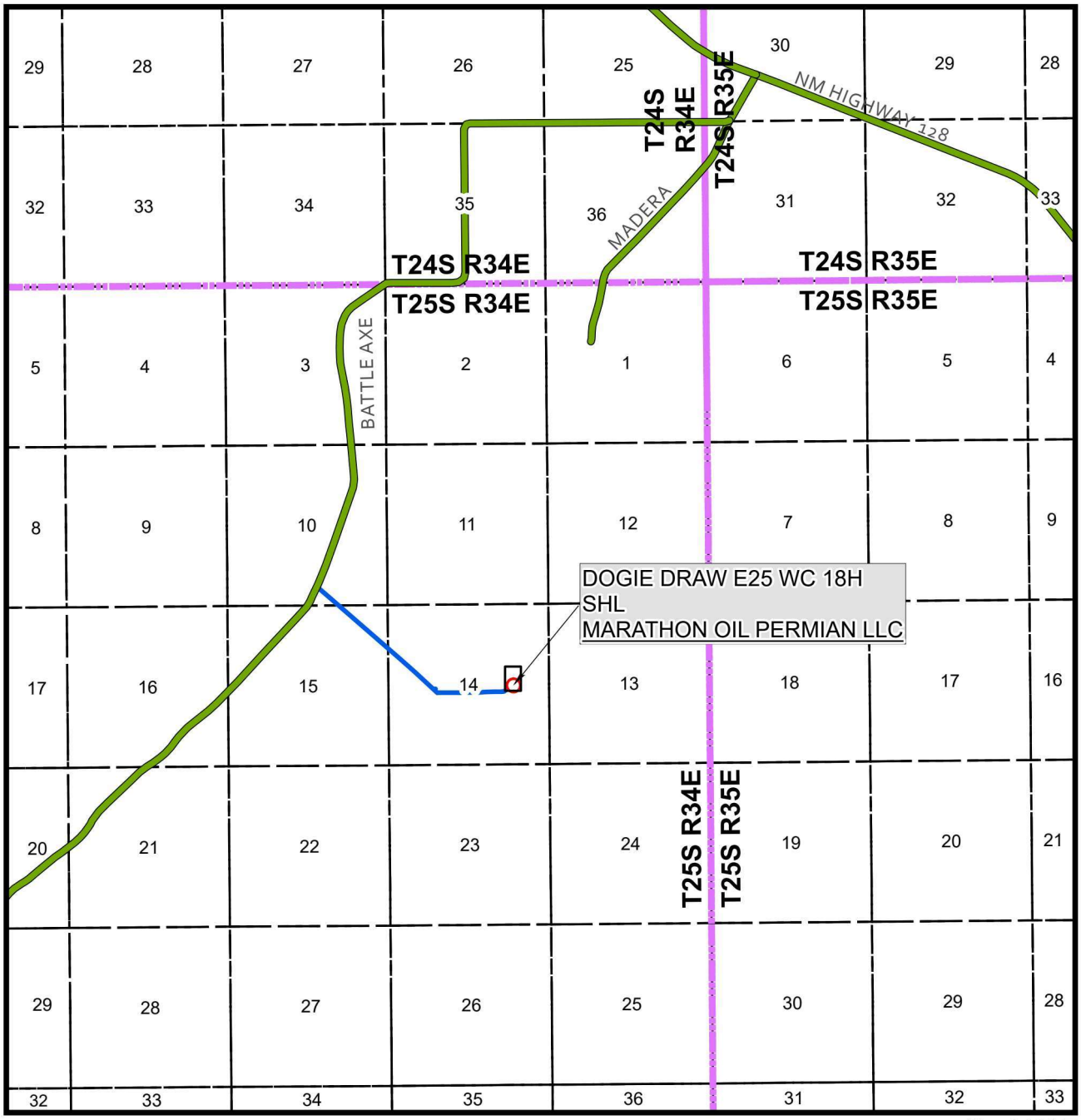
Drill Line Events ● Section Corners ▬ Drill Line ◄► Dimension Lines Federal Leases NMLSO HSU ○ HSU Corners

All bearings and coordinates refer to New Mexico State Plane coordinate system, East Zone, U.S. Survey Feet.

SHEET 1 OF 2
JOB No. R3755_013
REV 3 GM 9/13/2023

Distances and coordinates shown are grid measurements. Combined Scale Factor: 0.99999746 and a Convergence Angle: 00°28'38.15090"

VICINITY MAP



SEC. 14 TWP. 25S RGE. 34E
SURVEY: N.M.P.M.
COUNTY: LEA
OPERATOR: MARATHON OIL PERMIAN LLC
DESCRIPTION: 2589' FSL & 1168' FEL
ELEVATION: 3355'
LEASE: DOGIE DRAW E25 WC
U.S.G.S. TOPOGRAPHIC MAP: WOODLEY FLAT, NM.

FROM THE INTERSECTION OF NM HIGHWAY 31 AND NM HIGHWAY 128, HEAD SOUTH ON NM HIGHWAY 128 FOR 39 MILES TO BATTLE AXE ROAD (CR-2). TURN RIGHT ON BATTLE AXE ROAD, HEADING SOUTH FOR 5.5 MILES TO AN EXISTING LEASE ROAD, TURN LEFT ON THE EXISTING LEASE ROAD HEADING SOUTHEAST FOR 1.0 MILES TO THE PROPOSED LEASE ROAD FOR THE ENDER WIGGINS 14 FC/DOGIE DRAW 14 FED COM WELL PAD LOCATION. TURN LEFT, HEADING EAST FOR 0.4 MILES ENTERING THE SOUTHWEST CORNER OF HE DOGIE DRAW 14 FED COM & ENDER WIGGINS 14 FC WELL PAD LOCATION

DELTA FIELD SERVICES

SHEET 2 OF 2

PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON STREET, WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. R3755_013

MARATHON OIL PERMIAN, LLC.

DRILLING AND OPERATIONS PLAN

WELL NAME & NUMBER: **DOGIE DRAW E25 WC 18H**

LOCATION: SECTION **14** TOWNSHIP **25S** RANGE **34E**

LEA COUNTY, **NEW MEXICO**

Section 1: GEOLOGICAL FORMATIONS

Name of Surface Formation: Permian

Elevation: 3355 *feet*

Estimated Tops of Important Geological Markers:

Formation	TVD (ft)	MD (ft)	Elevation (ft SS)	Lithologies	Mineral Resources	Producing Formation?
Rustler	857	857	2498	Anhydrite	Brine	No
Salado	1363	1363	1992	Salt/Anhydrite	Brine	No
Castile	3562	3562	-207	Salt/Anhydrite	Brine	No
Base of Salt (BX)	5370	5370	-2015	Salt/Anhydrite	Brine	No
Lamar	5370	5370	-2015	Sandstone/Shale	None	No
Bell Canyon	5402	5402	-2047	Sandstone	Oil	No
Cherry Canyon	6710	6710	-3355	Sandstone	Oil	No
Brushy Canyon	8013	8013	-4658	Sandstone	Oil	No
Bone Spring Lime	9296	9296	-5941	Limestone	None	No
Upper Avalon Shale	9296	9296	-5941	Shale	Oil	Yes
1st Bone Spring Sand	10346	10346	-6991	Sandstone	Oil	Yes
2nd Bone Spring Carbonate	10346	10346	-6991	Limestone/Shale	None	No
2nd Bone Spring Sand	10925	10925	-7570	Sandstone	Oil	Yes
3rd Bone Spring Carbonate	11966	11966	-8611	Limestone	Oil	No
3rd Bone Spring Sand	11966	11966	-8611	Sandstone	Oil	Yes
Wolfcamp	12422	12422	-9067	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp A	12565	12565	-9210	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp B	12918	12918	-9563	Sandstone/Shale/Carbonates	Natural Gas / Oil	No
Wolfcamp C	13020	13020	-9665	Sandstone/Shale/Carbonates	Natural Gas / Oil	No
Wolfcamp D	13352	13352	-9997	Sandstone/Shale/Carbonates	Natural Gas / Oil	No

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, 10,000psi for the BOP Stacking 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 to 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: CASING PROGRAM

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	882	0	882	3355	2473	54.5	J55	BTC	5.22	1.81	BUOY	4.52	BUOY	4.52
Intermediate	12.25	9.625	0	12041	0	12022	3355	-8667	40	P110HC	BTC	1.20	1.42	BUOY	2.44	BUOY	2.44
Production	8.75	5.5	0	20606	0	12600	3355	-9245	23	P110HC	TLW	2.53	1.26	BUOY	2.22	BUOY	2.22
All casing strings will be tested in accordance with 43 CFR 3172.												Safety Factors will Meet or Exceed					

Casing Condition: New
Casing Standard: API
Tapered String? No

	Yes or No
Is casing new? If used, attach certification as required in 43 CFR 3171.	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?	
If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	No
If yes, are there three strings cemented to surface?	

Section 4: CEMENT PROGRAM

String Type	Lead/Tail	Top MD	Bottom MD	Quantity (sks)	Yield (ft^3/sks)	Density (ppg)	Slurry Volume (ft^3)	Excess (%)	Cement Type	Additives
Surface	Lead	0	732	323	2.12	12.5	684	25	Class C	Extender,Accelerator,LCM
Surface	Tail	732	882	99	1.32	14.8	130	25	Class C	Accelerator
Intermediate	Lead	0	11541	2098	2.18	12.4	4573	25	Class C	Extender,Accelerator,LCM
Intermediate	Tail	11541	12041	147	1.33	14.8	196	25	Class C	Retarder
Production	Tail	11741	20606	1707	1.68	13	2867	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
Pilot Hole Depth: N/A
KOP Depth: N/A
Plugging Procedure for Pilot Hole: N/A

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

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	882	Water Based Mud	8.4	8.8
882	12041	Brine or Oil Based Mud	9.2	10.2
12041	20606	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: **8190** 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 43 CFR 3176. 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.

Marathon Oil Corporation

Company: Marathon Oil
Well: Dogie Draw E25 WC 18H
County: Lea County, New Mexico (NAD 27)
Rig: TBD
Wellbore: Wellbore #1
Design: Design #1
Date: 11:56, September 25 2023

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: Dogie Draw E25 WC 18H

+N/-S	+E/-W	GL @ 3355.00 Northing	WELL @ 3378.50usft (TBD) Easting	Latitude	Longitude
0.00	0.00	412251.46	777933.14	32° 7' 48.763 N	103° 26' 7.816 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP/PPP-1_D.D. E25 WC 18H	12600.00	-50.47	-152.09	412200.99	777781.05	32° 7' 48.276 N	103° 26' 9.589 W
LTP/PBHL_D.D. E25 WC 18H	12600.00	-7764.80	-94.90	404486.66	777838.24	32° 6' 31.935 N	103° 26' 9.671 W
PPP-2_D.D. E25 WC 18H	12600.00	-2590.00	-133.26	409661.46	777799.		

SECTION DETAILS

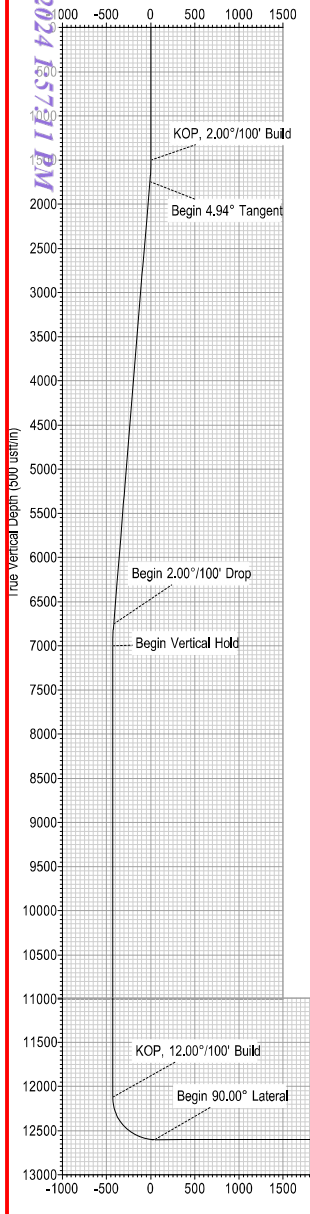
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.000	0.00	KOP, 2.00°/100' Build
1747.25	4.94	339.97	1746.94	10.02	-3.65	2.00	339.974	-10.04	Begin 4.94° Tangent
6772.07	4.94	339.97	6753.06	416.96	-151.98	0.00	0.000	-418.06	Begin 2.00°/100' Drop
7019.32	0.00	0.00	7000.00	426.98	-155.63	2.00	180.000	-428.11	Begin Vertical Hold
12141.85	0.00	0.00	12122.54	426.98	-155.63	0.00	0.000	-428.11	KOP, 12.00°/100' Build
12891.85	90.00	179.58	12600.00	-50.47	-152.09	12.00	179.575	49.36	Begin 90.00° Lateral
20606.39	90.00	179.58	12600.00	-7764.80	-94.90	0.00	0.000	7763.90	PBHL

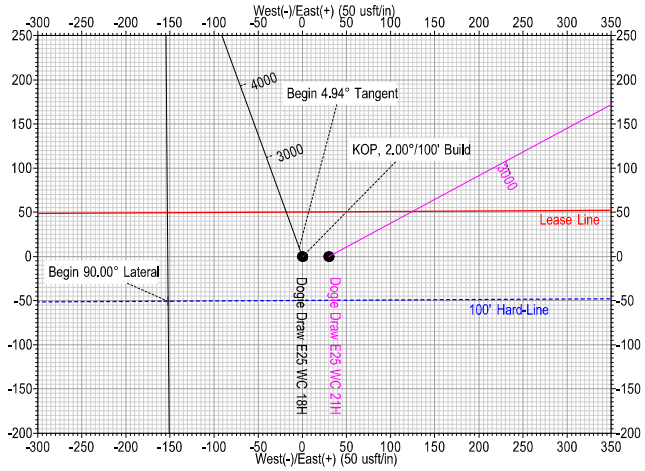
Depth From 0.00 | Depth To 20606.39 | Survey/Plan Design #1 (Wellbore #1) | Tool MWD+IFR1+FDIR

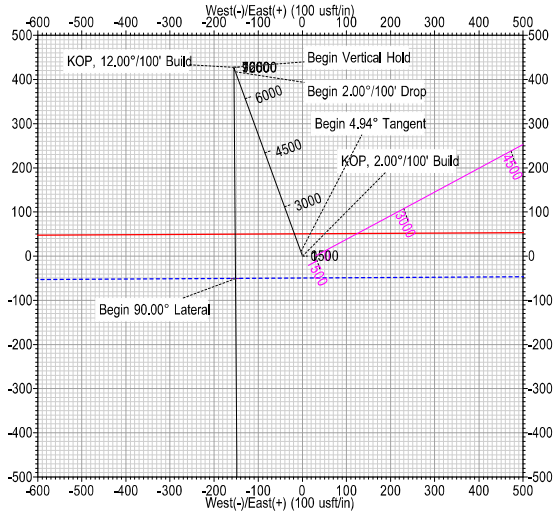
Azimuths to Grid North
True North: -0.48°
Magnetic North: 5.71°

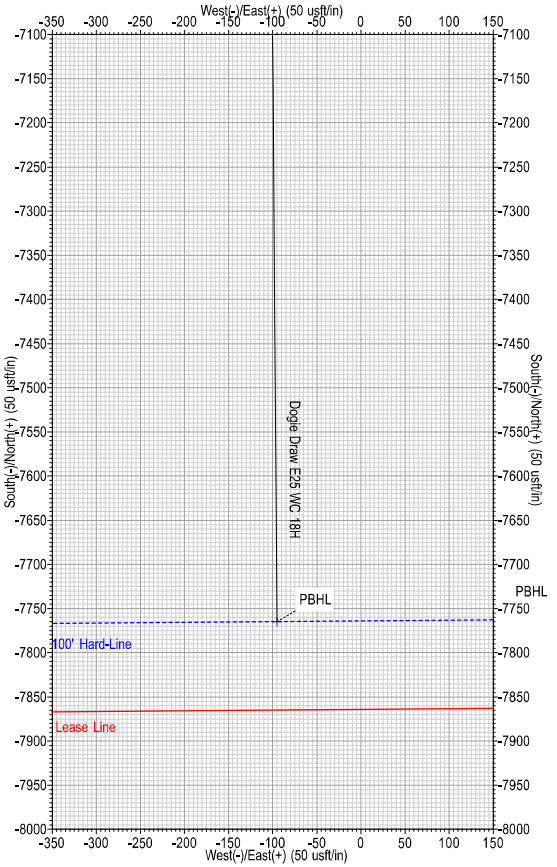
Magnetic Field
Strength: 47293.0nT
Dip Angle: 59.62°
Date: 9/25/2023
Model: HDGM2023

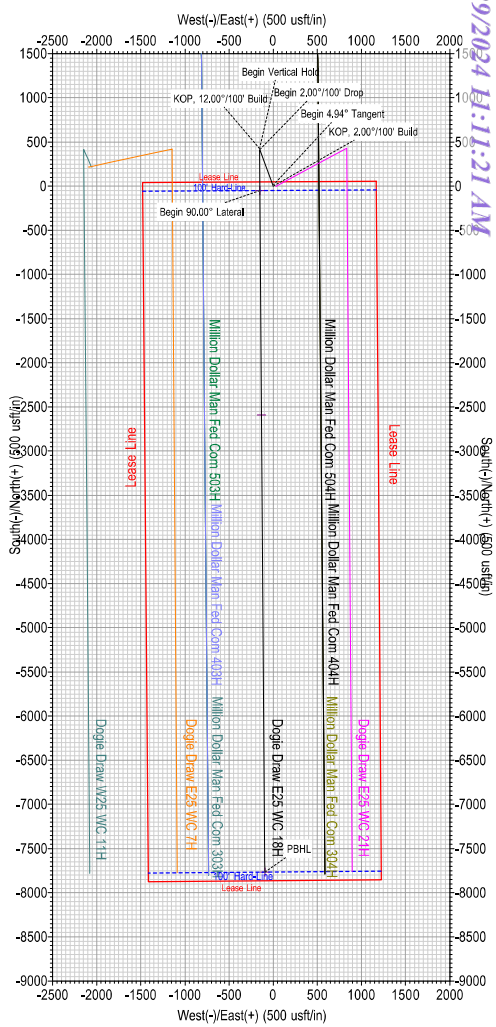
To convert a Magnetic Direction to a Grid Direction, Add 5.706°
To convert a Magnetic Direction to a True Direction, Add 6.183° East
To convert a True Direction to a Grid Direction, Subtract 0.478°











COMPANY: Marathon Oil
PROJECT: Lea County, New Mexico (NAD 27)
SITE: Dogie Draw W25 WC 11H / WC (7H, 18H, 21H)
WELL: Dogie Draw E25 WC 18H
MAP SYSTE US State Plane 1927 (Exact solution)
MAP ZONE New Mexico East 3001
NORTH REF Grid
KB-MSL: 3378.5
GLE: 3355

WELLBORE Wellbore #1
DESIGN: Design #1
VS AZI: 179.58

SURVEY TOOL PROGRAM:
H 0.00 - 20606.39 DESIGN #1 : MWD+IFR1+FDIR

MD	INC	AZI	Course Length	TVD	Subsea Depth	Local N/S	Local E/W	Map Northing
0	0	0	0	0	3378.5	0	0	412251.5
100	0	0	100	100	3278.5	0	0	412251.5
200	0	0	100	200	3178.5	0	0	412251.5
300	0	0	100	300	3078.5	0	0	412251.5
400	0	0	100	400	2978.5	0	0	412251.5
500	0	0	100	500	2878.5	0	0	412251.5
600	0	0	100	600	2778.5	0	0	412251.5
700	0	0	100	700	2678.5	0	0	412251.5
800	0	0	100	800	2578.5	0	0	412251.5
900	0	0	100	900	2478.5	0	0	412251.5
1000	0	0	100	1000	2378.5	0	0	412251.5
1100	0	0	100	1100	2278.5	0	0	412251.5
1200	0	0	100	1200	2178.5	0	0	412251.5
1300	0	0	100	1300	2078.5	0	0	412251.5
1400	0	0	100	1400	1978.5	0	0	412251.5
1500	0	0	100	1500	1878.5	0	0	412251.5
1600	2	339.9737	100	1599.98	1778.52	1.6396	-0.5976	412253.1
1700	4	339.9737	100	1699.838	1678.662	6.5565	-2.3898	412258
1747.248	4.945	339.9737	47.2479	1746.941	1631.559	10.0181	-3.6515	412261.5
1800	4.945	339.9737	52.7521	1799.497	1579.003	14.2903	-5.2087	412265.8
1900	4.945	339.9737	100	1899.125	1479.375	22.389	-8.1606	412273.8
2000	4.945	339.9737	100	1998.752	1379.748	30.4877	-11.1125	412281.9
2100	4.945	339.9737	100	2098.38	1280.12	38.5864	-14.0643	412290
2200	4.945	339.9737	100	2198.008	1180.492	46.685	-17.0162	412298.1
2300	4.945	339.9737	100	2297.636	1080.864	54.7837	-19.9681	412306.2
2400	4.945	339.9737	100	2397.264	981.2364	62.8824	-22.92	412314.3
2500	4.945	339.9737	100	2496.891	881.6086	70.981	-25.8719	412322.4

2600	4.945	339.9737	100	2596.519	781.9808	79.0797	-28.8238	412330.5
2700	4.945	339.9737	100	2696.147	682.353	87.1784	-31.7757	412338.6
2800	4.945	339.9737	100	2795.775	582.7252	95.2771	-34.7276	412346.7
2900	4.945	339.9737	100	2895.403	483.0974	103.3757	-37.6794	412354.8
3000	4.945	339.9737	100	2995.03	383.4696	111.4744	-40.6313	412362.9
3100	4.945	339.9737	100	3094.658	283.8418	119.5731	-43.5832	412371
3200	4.945	339.9737	100	3194.286	184.214	127.6718	-46.5351	412379.1
3300	4.945	339.9737	100	3293.914	84.5862	135.7704	-49.487	412387.2
3400	4.945	339.9737	100	3393.542	-15.0416	143.8691	-52.4389	412395.3
3500	4.945	339.9737	100	3493.169	-114.669	151.9678	-55.3908	412403.4
3600	4.945	339.9737	100	3592.797	-214.297	160.0664	-58.3426	412411.5
3700	4.945	339.9737	100	3692.425	-313.925	168.1651	-61.2945	412419.6
3800	4.945	339.9737	100	3792.053	-413.553	176.2638	-64.2464	412427.7
3900	4.945	339.9737	100	3891.681	-513.181	184.3625	-67.1983	412435.8
4000	4.945	339.9737	100	3991.308	-612.808	192.4611	-70.1502	412443.9
4100	4.945	339.9737	100	4090.936	-712.436	200.5598	-73.1021	412452
4200	4.945	339.9737	100	4190.564	-812.064	208.6585	-76.054	412460.1
4300	4.945	339.9737	100	4290.192	-911.692	216.7572	-79.0058	412468.2
4400	4.945	339.9737	100	4389.82	-1011.32	224.8558	-81.9577	412476.3
4500	4.945	339.9737	100	4489.447	-1110.95	232.9545	-84.9096	412484.4
4600	4.945	339.9737	100	4589.075	-1210.58	241.0532	-87.8615	412492.5
4700	4.945	339.9737	100	4688.703	-1310.2	249.1518	-90.8134	412500.6
4800	4.945	339.9737	100	4788.331	-1409.83	257.2505	-93.7653	412508.7
4900	4.945	339.9737	100	4887.959	-1509.46	265.3492	-96.7172	412516.8
5000	4.945	339.9737	100	4987.586	-1609.09	273.4479	-99.6691	412524.9
5100	4.945	339.9737	100	5087.214	-1708.71	281.5465	-102.621	412533
5200	4.945	339.9737	100	5186.842	-1808.34	289.6452	-105.573	412541.1
5300	4.945	339.9737	100	5286.47	-1907.97	297.7439	-108.525	412549.2
5400	4.945	339.9737	100	5386.098	-2007.6	305.8426	-111.477	412557.3
5500	4.945	339.9737	100	5485.725	-2107.23	313.9412	-114.429	412565.4
5600	4.945	339.9737	100	5585.353	-2206.85	322.0399	-117.38	412573.5
5700	4.945	339.9737	100	5684.981	-2306.48	330.1386	-120.332	412581.6
5800	4.945	339.9737	100	5784.609	-2406.11	338.2372	-123.284	412589.7
5900	4.945	339.9737	100	5884.237	-2505.74	346.3359	-126.236	412597.8
6000	4.945	339.9737	100	5983.864	-2605.36	354.4346	-129.188	412605.9
6100	4.945	339.9737	100	6083.492	-2704.99	362.5333	-132.14	412614
6200	4.945	339.9737	100	6183.12	-2804.62	370.6319	-135.092	412622.1
6300	4.945	339.9737	100	6282.748	-2904.25	378.7306	-138.044	412630.2
6400	4.945	339.9737	100	6382.376	-3003.88	386.8293	-140.996	412638.3
6500	4.945	339.9737	100	6482.003	-3103.5	394.928	-143.947	412646.4
6600	4.945	339.9737	100	6581.631	-3203.13	403.0266	-146.899	412654.5
6700	4.945	339.9737	100	6681.259	-3302.76	411.1253	-149.851	412662.6
6772.068	4.945	339.9737	72.0683	6753.059	-3374.56	416.9619	-151.979	412668.4
6800	4.3863	339.9737	27.9317	6780.898	-3402.4	419.0965	-152.757	412670.6
6900	2.3863	339.9737	100	6880.718	-3502.22	424.6459	-154.779	412676.1
7000	0.3863	339.9737	100	6980.684	-3602.18	426.9188	-155.608	412678.4
7019.316	0	0	19.3162	7000	-3621.5	426.98	-155.63	412678.4

7100	0	0	80.6838	7080.684	-3702.18	426.98	-155.63	412678.4
7200	0	0	100	7180.684	-3802.18	426.98	-155.63	412678.4
7300	0	0	100	7280.684	-3902.18	426.98	-155.63	412678.4
7400	0	0	100	7380.684	-4002.18	426.98	-155.63	412678.4
7500	0	0	100	7480.684	-4102.18	426.98	-155.63	412678.4
7600	0	0	100	7580.684	-4202.18	426.98	-155.63	412678.4
7700	0	0	100	7680.684	-4302.18	426.98	-155.63	412678.4
7800	0	0	100	7780.684	-4402.18	426.98	-155.63	412678.4
7900	0	0	100	7880.684	-4502.18	426.98	-155.63	412678.4
8000	0	0	100	7980.684	-4602.18	426.98	-155.63	412678.4
8100	0	0	100	8080.684	-4702.18	426.98	-155.63	412678.4
8200	0	0	100	8180.684	-4802.18	426.98	-155.63	412678.4
8300	0	0	100	8280.684	-4902.18	426.98	-155.63	412678.4
8400	0	0	100	8380.684	-5002.18	426.98	-155.63	412678.4
8500	0	0	100	8480.684	-5102.18	426.98	-155.63	412678.4
8600	0	0	100	8580.684	-5202.18	426.98	-155.63	412678.4
8700	0	0	100	8680.684	-5302.18	426.98	-155.63	412678.4
8800	0	0	100	8780.684	-5402.18	426.98	-155.63	412678.4
8900	0	0	100	8880.684	-5502.18	426.98	-155.63	412678.4
9000	0	0	100	8980.684	-5602.18	426.98	-155.63	412678.4
9100	0	0	100	9080.684	-5702.18	426.98	-155.63	412678.4
9200	0	0	100	9180.684	-5802.18	426.98	-155.63	412678.4
9300	0	0	100	9280.684	-5902.18	426.98	-155.63	412678.4
9400	0	0	100	9380.684	-6002.18	426.98	-155.63	412678.4
9500	0	0	100	9480.684	-6102.18	426.98	-155.63	412678.4
9600	0	0	100	9580.684	-6202.18	426.98	-155.63	412678.4
9700	0	0	100	9680.684	-6302.18	426.98	-155.63	412678.4
9800	0	0	100	9780.684	-6402.18	426.98	-155.63	412678.4
9900	0	0	100	9880.684	-6502.18	426.98	-155.63	412678.4
10000	0	0	100	9980.684	-6602.18	426.98	-155.63	412678.4
10100	0	0	100	10080.68	-6702.18	426.98	-155.63	412678.4
10200	0	0	100	10180.68	-6802.18	426.98	-155.63	412678.4
10300	0	0	100	10280.68	-6902.18	426.98	-155.63	412678.4
10400	0	0	100	10380.68	-7002.18	426.98	-155.63	412678.4
10500	0	0	100	10480.68	-7102.18	426.98	-155.63	412678.4
10600	0	0	100	10580.68	-7202.18	426.98	-155.63	412678.4
10700	0	0	100	10680.68	-7302.18	426.98	-155.63	412678.4
10800	0	0	100	10780.68	-7402.18	426.98	-155.63	412678.4
10900	0	0	100	10880.68	-7502.18	426.98	-155.63	412678.4
11000	0	0	100	10980.68	-7602.18	426.98	-155.63	412678.4
11100	0	0	100	11080.68	-7702.18	426.98	-155.63	412678.4
11200	0	0	100	11180.68	-7802.18	426.98	-155.63	412678.4
11300	0	0	100	11280.68	-7902.18	426.98	-155.63	412678.4
11400	0	0	100	11380.68	-8002.18	426.98	-155.63	412678.4
11500	0	0	100	11480.68	-8102.18	426.98	-155.63	412678.4
11600	0	0	100	11580.68	-8202.18	426.98	-155.63	412678.4
11700	0	0	100	11680.68	-8302.18	426.98	-155.63	412678.4

11800	0	0	100	11780.68	-8402.18	426.98	-155.63	412678.4
11900	0	0	100	11880.68	-8502.18	426.98	-155.63	412678.4
12000	0	0	100	11980.68	-8602.18	426.98	-155.63	412678.4
12100	0	0	100	12080.68	-8702.18	426.98	-155.63	412678.4
12141.85	0	0	41.8514	12122.54	-8744.04	426.98	-155.63	412678.4
12150	0.9778	179.5752	8.1486	12130.68	-8752.18	426.9105	-155.63	412678.4
12175	3.9778	179.5752	25	12155.66	-8777.16	425.8298	-155.622	412677.3
12200	6.9778	179.5752	25	12180.54	-8802.04	423.4436	-155.604	412674.9
12225	9.9778	179.5752	25	12205.26	-8826.76	419.7585	-155.577	412671.2
12250	12.9778	179.5752	25	12229.76	-8851.26	414.7845	-155.54	412666.2
12275	15.9778	179.5752	25	12253.96	-8875.46	408.5352	-155.493	412660
12300	18.9778	179.5752	25	12277.81	-8899.31	401.0278	-155.438	412652.5
12325	21.9778	179.5752	25	12301.23	-8922.73	392.283	-155.373	412643.7
12350	24.9778	179.5752	25	12324.15	-8945.65	382.3245	-155.299	412633.8
12375	27.9778	179.5752	25	12346.53	-8968.03	371.1798	-155.216	412622.6
12400	30.9778	179.5752	25	12368.29	-8989.79	358.8794	-155.125	412610.3
12425	33.9778	179.5752	25	12389.38	-9010.88	345.4569	-155.026	412596.9
12450	36.9778	179.5752	25	12409.73	-9031.23	330.9493	-154.918	412582.4
12475	39.9778	179.5752	25	12429.3	-9050.8	315.3962	-154.803	412566.9
12500	42.9778	179.5752	25	12448.03	-9069.53	298.8403	-154.68	412550.3
12525	45.9778	179.5752	25	12465.87	-9087.37	281.327	-154.55	412532.8
12550	48.9778	179.5752	25	12482.76	-9104.26	262.9042	-154.414	412514.4
12575	51.9778	179.5752	25	12498.67	-9120.17	243.6224	-154.271	412495.1
12600	54.9778	179.5752	25	12513.55	-9135.05	223.5346	-154.122	412475
12625	57.9778	179.5752	25	12527.35	-9148.85	202.6958	-153.967	412454.2
12650	60.9778	179.5752	25	12540.05	-9161.55	181.163	-153.808	412432.6
12675	63.9778	179.5752	25	12551.6	-9173.1	158.9953	-153.643	412410.5
12700	66.9778	179.5752	25	12561.97	-9183.47	136.2535	-153.475	412387.7
12725	69.9778	179.5752	25	12571.14	-9192.64	112.9999	-153.302	412364.5
12750	72.9778	179.5752	25	12579.08	-9200.58	89.2983	-153.127	412340.8
12775	75.9778	179.5752	25	12585.77	-9207.27	65.2135	-152.948	412316.7
12800	78.9778	179.5752	25	12591.19	-9212.69	40.8117	-152.767	412292.3
12825	81.9778	179.5752	25	12595.33	-9216.83	16.1596	-152.584	412267.6
12850	84.9778	179.5752	25	12598.17	-9219.67	-8.6751	-152.4	412242.8
12875	87.9778	179.5752	25	12599.7	-9221.2	-33.6243	-152.215	412217.8
12891.85	90	179.5752	16.8514	12600	-9221.5	-50.4717	-152.09	412201
12900	90	179.5752	8.1486	12600	-9221.5	-58.6201	-152.03	412192.8
13000	90	179.5752	100	12600	-9221.5	-158.617	-151.289	412092.8
13100	90	179.5752	100	12600	-9221.5	-258.615	-150.547	411992.8
13200	90	179.5752	100	12600	-9221.5	-358.612	-149.806	411892.8
13300	90	179.5752	100	12600	-9221.5	-458.609	-149.065	411792.9
13400	90	179.5752	100	12600	-9221.5	-558.606	-148.323	411692.9
13500	90	179.5752	100	12600	-9221.5	-658.604	-147.582	411592.9
13600	90	179.5752	100	12600	-9221.5	-758.601	-146.841	411492.9
13700	90	179.5752	100	12600	-9221.5	-858.598	-146.099	411392.9
13800	90	179.5752	100	12600	-9221.5	-958.595	-145.358	411292.9
13900	90	179.5752	100	12600	-9221.5	-1058.59	-144.617	411192.9

14000	90	179.5752	100	12600	-9221.5	-1158.59	-143.875	411092.9
14100	90	179.5752	100	12600	-9221.5	-1258.59	-143.134	410992.9
14200	90	179.5752	100	12600	-9221.5	-1358.58	-142.393	410892.9
14300	90	179.5752	100	12600	-9221.5	-1458.58	-141.651	410792.9
14400	90	179.5752	100	12600	-9221.5	-1558.58	-140.91	410692.9
14500	90	179.5752	100	12600	-9221.5	-1658.58	-140.169	410592.9
14600	90	179.5752	100	12600	-9221.5	-1758.57	-139.427	410492.9
14700	90	179.5752	100	12600	-9221.5	-1858.57	-138.686	410392.9
14800	90	179.5752	100	12600	-9221.5	-1958.57	-137.945	410292.9
14900	90	179.5752	100	12600	-9221.5	-2058.57	-137.203	410192.9
15000	90	179.5752	100	12600	-9221.5	-2158.56	-136.462	410092.9
15100	90	179.5752	100	12600	-9221.5	-2258.56	-135.721	409992.9
15200	90	179.5752	100	12600	-9221.5	-2358.56	-134.979	409892.9
15300	90	179.5752	100	12600	-9221.5	-2458.55	-134.238	409792.9
15400	90	179.5752	100	12600	-9221.5	-2558.55	-133.497	409692.9
15500	90	179.5752	100	12600	-9221.5	-2658.55	-132.755	409592.9
15600	90	179.5752	100	12600	-9221.5	-2758.55	-132.014	409492.9
15700	90	179.5752	100	12600	-9221.5	-2858.54	-131.273	409392.9
15800	90	179.5752	100	12600	-9221.5	-2958.54	-130.531	409292.9
15900	90	179.5752	100	12600	-9221.5	-3058.54	-129.79	409192.9
16000	90	179.5752	100	12600	-9221.5	-3158.53	-129.049	409092.9
16100	90	179.5752	100	12600	-9221.5	-3258.53	-128.307	408992.9
16200	90	179.5752	100	12600	-9221.5	-3358.53	-127.566	408892.9
16300	90	179.5752	100	12600	-9221.5	-3458.53	-126.825	408792.9
16400	90	179.5752	100	12600	-9221.5	-3558.52	-126.083	408692.9
16500	90	179.5752	100	12600	-9221.5	-3658.52	-125.342	408592.9
16600	90	179.5752	100	12600	-9221.5	-3758.52	-124.601	408492.9
16700	90	179.5752	100	12600	-9221.5	-3858.52	-123.859	408392.9
16800	90	179.5752	100	12600	-9221.5	-3958.51	-123.118	408292.9
16900	90	179.5752	100	12600	-9221.5	-4058.51	-122.377	408192.9
17000	90	179.5752	100	12600	-9221.5	-4158.51	-121.635	408093
17100	90	179.5752	100	12600	-9221.5	-4258.5	-120.894	407993
17200	90	179.5752	100	12600	-9221.5	-4358.5	-120.153	407893
17300	90	179.5752	100	12600	-9221.5	-4458.5	-119.411	407793
17400	90	179.5752	100	12600	-9221.5	-4558.5	-118.67	407693
17500	90	179.5752	100	12600	-9221.5	-4658.49	-117.929	407593
17600	90	179.5752	100	12600	-9221.5	-4758.49	-117.187	407493
17700	90	179.5752	100	12600	-9221.5	-4858.49	-116.446	407393
17800	90	179.5752	100	12600	-9221.5	-4958.49	-115.705	407293
17900	90	179.5752	100	12600	-9221.5	-5058.48	-114.963	407193
18000	90	179.5752	100	12600	-9221.5	-5158.48	-114.222	407093
18100	90	179.5752	100	12600	-9221.5	-5258.48	-113.481	406993
18200	90	179.5752	100	12600	-9221.5	-5358.47	-112.739	406893
18300	90	179.5752	100	12600	-9221.5	-5458.47	-111.998	406793
18400	90	179.5752	100	12600	-9221.5	-5558.47	-111.257	406693
18500	90	179.5752	100	12600	-9221.5	-5658.47	-110.515	406593
18600	90	179.5752	100	12600	-9221.5	-5758.46	-109.774	406493

18700	90	179.5752	100	12600	-9221.5	-5858.46	-109.033	406393
18800	90	179.5752	100	12600	-9221.5	-5958.46	-108.291	406293
18900	90	179.5752	100	12600	-9221.5	-6058.46	-107.55	406193
19000	90	179.5752	100	12600	-9221.5	-6158.45	-106.809	406093
19100	90	179.5752	100	12600	-9221.5	-6258.45	-106.067	405993
19200	90	179.5752	100	12600	-9221.5	-6358.45	-105.326	405893
19300	90	179.5752	100	12600	-9221.5	-6458.44	-104.585	405793
19400	90	179.5752	100	12600	-9221.5	-6558.44	-103.843	405693
19500	90	179.5752	100	12600	-9221.5	-6658.44	-103.102	405593
19600	90	179.5752	100	12600	-9221.5	-6758.44	-102.361	405493
19700	90	179.5752	100	12600	-9221.5	-6858.43	-101.619	405393
19800	90	179.5752	100	12600	-9221.5	-6958.43	-100.878	405293
19900	90	179.5752	100	12600	-9221.5	-7058.43	-100.137	405193
20000	90	179.5752	100	12600	-9221.5	-7158.43	-99.3954	405093
20100	90	179.5752	100	12600	-9221.5	-7258.42	-98.654	404993
20200	90	179.5752	100	12600	-9221.5	-7358.42	-97.9127	404893
20300	90	179.5752	100	12600	-9221.5	-7458.42	-97.1714	404793
20400	90	179.5752	100	12600	-9221.5	-7558.41	-96.43	404693
20500	90	179.5752	100	12600	-9221.5	-7658.41	-95.6887	404593
20606.39	90	179.5752	106.3917	12600	-9221.5	-7764.8	-94.9	404486.7

Map Easting	Lat	Long	Dogleg Severity	T.Face	Vert Sec	Annotation
777933.1	32° 7' 48.7(	103° 26' 7.8	0	0	0	
777933.1	32° 7' 48.7(	103° 26' 7.8	0	0	0	
777933.1	32° 7' 48.7(	103° 26' 7.8	0	0	0	
777933.1	32° 7' 48.7(	103° 26' 7.8	0	0	0	
777933.1	32° 7' 48.7(	103° 26' 7.8	0	0	0	
777933.1	32° 7' 48.7(	103° 26' 7.8	0	0	0	
777933.1	32° 7' 48.7(	103° 26' 7.8	0	0	0	
777933.1	32° 7' 48.7(	103° 26' 7.8	0	0	0	
777933.1	32° 7' 48.7(	103° 26' 7.8	0	0	0	
777933.1	32° 7' 48.7(	103° 26' 7.8	0	0	0	
777933.1	32° 7' 48.7(	103° 26' 7.8	0	0	0	
777933.1	32° 7' 48.7(	103° 26' 7.8	0	0	0	
777933.1	32° 7' 48.7(	103° 26' 7.8	0	0	0	
777933.1	32° 7' 48.7(	103° 26' 7.8	0	0	0	
777933.1	32° 7' 48.7(	103° 26' 7.8	0	0	0	
777933.1	32° 7' 48.7(	103° 26' 7.8	0	0	0	KOP, 2.00°/100' Build
777932.5	32° 7' 48.7	103° 26' 7.8	2	339.9737	-1.64	
777930.8	32° 7' 48.8	103° 26' 7.8	2	0	-6.57	
777929.5	32° 7' 48.8(	103° 26' 7.8	2	0	-10.04	Begin 4.94° Tangent
777927.9	32° 7' 48.9(	103° 26' 7.8	0	0	-14.33	
777925	32° 7' 48.9	103° 26' 7.9	0	0	-22.45	
777922	32° 7' 49.0(	103° 26' 7.9	0	0	-30.57	
777919.1	32° 7' 49.1	103° 26' 7.9	0	0	-38.69	
777916.1	32° 7' 49.2	103° 26' 8.(	0	0	-46.81	
777913.2	32° 7' 49.3(	103° 26' 8.(	0	0	-54.93	
777910.2	32° 7' 49.3	103° 26' 8.(	0	0	-63.05	
777907.3	32° 7' 49.4(	103° 26' 8.1	0	0	-71.17	

777904.3	32° 7' 49.5	103° 26' 8.	0	0	-79.29	
777901.4	32° 7' 49.6	103° 26' 8.	0	0	-87.41	
777898.4	32° 7' 49.7	103° 26' 8.	0	0	-95.53	
777895.5	32° 7' 49.7	103° 26' 8.	0	0	-103.65	
777892.5	32° 7' 49.8	103° 26' 8.	0	0	-111.77	
777889.6	32° 7' 49.9	103° 26' 8.	0	0	-119.89	
777886.6	32° 7' 50.0	103° 26' 8.	0	0	-128.01	
777883.7	32° 7' 50.1	103° 26' 8.	0	0	-136.13	
777880.7	32° 7' 50.1	103° 26' 8.	0	0	-144.25	
777877.7	32° 7' 50.2	103° 26' 8.	0	0	-152.37	
777874.8	32° 7' 50.3	103° 26' 8.	0	0	-160.49	
777871.8	32° 7' 50.4	103° 26' 8.	0	0	-168.61	
777868.9	32° 7' 50.5	103° 26' 8.	0	0	-176.73	
777865.9	32° 7' 50.5	103° 26' 8.	0	0	-184.85	
777863	32° 7' 50.6	103° 26' 8.	0	0	-192.97	
777860	32° 7' 50.7	103° 26' 8.	0	0	-201.09	
777857.1	32° 7' 50.8	103° 26' 8.	0	0	-209.21	
777854.1	32° 7' 50.9	103° 26' 8.	0	0	-217.33	
777851.2	32° 7' 50.9	103° 26' 8.	0	0	-225.45	
777848.2	32° 7' 51.0	103° 26' 8.	0	0	-233.57	
777845.3	32° 7' 51.1	103° 26' 8.	0	0	-241.69	
777842.3	32° 7' 51.2	103° 26' 8.	0	0	-249.81	
777839.4	32° 7' 51.3	103° 26' 8.	0	0	-257.93	
777836.4	32° 7' 51.3	103° 26' 8.	0	0	-266.05	
777833.5	32° 7' 51.4	103° 26' 8.	0	0	-274.17	
777830.5	32° 7' 51.5	103° 26' 8.	0	0	-282.29	
777827.6	32° 7' 51.6	103° 26' 9.	0	0	-290.41	
777824.6	32° 7' 51.7	103° 26' 9.	0	0	-298.53	
777821.7	32° 7' 51.7	103° 26' 9.	0	0	-306.65	
777818.7	32° 7' 51.8	103° 26' 9.	0	0	-314.77	
777815.8	32° 7' 51.9	103° 26' 9.	0	0	-322.89	
777812.8	32° 7' 52.0	103° 26' 9.	0	0	-331.01	
777809.9	32° 7' 52.1	103° 26' 9.	0	0	-339.13	
777806.9	32° 7' 52.2	103° 26' 9.	0	0	-347.25	
777804	32° 7' 52.2	103° 26' 9.	0	0	-355.37	
777801	32° 7' 52.3	103° 26' 9.	0	0	-363.49	
777798	32° 7' 52.4	103° 26' 9.	0	0	-371.61	
777795.1	32° 7' 52.5	103° 26' 9.	0	0	-379.73	
777792.1	32° 7' 52.6	103° 26' 9.	0	0	-387.85	
777789.2	32° 7' 52.6	103° 26' 9.	0	0	-395.97	
777786.2	32° 7' 52.7	103° 26' 9.	0	0	-404.09	
777783.3	32° 7' 52.8	103° 26' 9.	0	0	-412.21	
777781.2	32° 7' 52.9	103° 26' 9.	0	0	-418.06	Begin 2.00°/100' Drop
777780.4	32° 7' 52.9	103° 26' 9.	2	180	-420.2	
777778.4	32° 7' 52.9	103° 26' 9.	2	180	-425.77	
777777.5	32° 7' 53.0	103° 26' 9.	2	180	-428.05	
777777.5	32° 7' 53.0	103° 26' 9.	2	179.9999	-428.11	Begin Vertical Hold

777777.5	32° 7' 53.0	103° 26' 9.	0	180	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11
777777.5	32° 7' 53.0	103° 26' 9.	0	0	-428.11

777777.5	32° 7' 53.0(	103° 26' 9.!	0	0	-428.11	
777777.5	32° 7' 53.0(	103° 26' 9.!	0	0	-428.11	
777777.5	32° 7' 53.0(	103° 26' 9.!	0	0	-428.11	
777777.5	32° 7' 53.0(	103° 26' 9.!	0	0	-428.11	
777777.5	32° 7' 53.0(	103° 26' 9.!	0	0	-428.11	KOP, 12.00°/100' Build
777777.5	32° 7' 53.0(	103° 26' 9.!	12	179.5752	-428.04	
777777.5	32° 7' 52.9{	103° 26' 9.!	12	0	-426.96	
777777.5	32° 7' 52.9(	103° 26' 9.!	12	0	-424.57	
777777.6	32° 7' 52.9:	103° 26' 9.!	12	0	-420.89	
777777.6	32° 7' 52.8{	103° 26' 9.!	12	0	-415.91	
777777.6	32° 7' 52.8:	103° 26' 9.!	12	0	-409.66	
777777.7	32° 7' 52.7-	103° 26' 9.!	12	0	-402.16	
777777.8	32° 7' 52.6!	103° 26' 9.!	12	0	-393.41	
777777.8	32° 7' 52.5!	103° 26' 9.!	12	0	-383.45	
777777.9	32° 7' 52.4-	103° 26' 9.!	12	0	-372.31	
777778	32° 7' 52.3:	103° 26' 9.!	12	0	-360.01	
777778.1	32° 7' 52.1!	103° 26' 9.!	12	0	-346.58	
777778.2	32° 7' 52.0!	103° 26' 9.!	12	0	-332.08	
777778.3	32° 7' 51.8!	103° 26' 9.!	12	0	-316.52	
777778.5	32° 7' 51.7:	103° 26' 9.!	12	0	-299.97	
777778.6	32° 7' 51.5!	103° 26' 9.!	12	0	-282.45	
777778.7	32° 7' 51.3:	103° 26' 9.!	12	0	-264.03	
777778.9	32° 7' 51.1{	103° 26' 9.!	12	0	-244.75	
777779	32° 7' 50.9{	103° 26' 9.!	12	0	-224.66	
777779.2	32° 7' 50.7{	103° 26' 9.!	12	0	-203.82	
777779.3	32° 7' 50.5(	103° 26' 9.!	12	0	-182.29	
777779.5	32° 7' 50.3-	103° 26' 9.!	12	0	-160.12	
777779.7	32° 7' 50.1:	103° 26' 9.!	12	0	-137.37	
777779.8	32° 7' 49.8!	103° 26' 9.!	12	0	-114.12	
777780	32° 7' 49.6!	103° 26' 9.!	12	0	-90.42	
777780.2	32° 7' 49.4:	103° 26' 9.!	12	0	-66.33	
777780.4	32° 7' 49.1:	103° 26' 9.!	12	0	-41.93	
777780.6	32° 7' 48.9:	103° 26' 9.!	12	0	-17.28	
777780.7	32° 7' 48.6{	103° 26' 9.!	12	0	7.56	
777780.9	32° 7' 48.4-	103° 26' 9.!	12	0	32.51	
777781	32° 7' 48.2:	103° 26' 9.!	12	0	49.36	Begin 90.00° Lateral
777781.1	32° 7' 48.1!	103° 26' 9.!	0	0	57.5	
777781.9	32° 7' 47.2(	103° 26' 9.!	0	0	157.5	
777782.6	32° 7' 46.2:	103° 26' 9.!	0	0	257.5	
777783.3	32° 7' 45.2:	103° 26' 9.!	0	0	357.5	
777784.1	32° 7' 44.2:	103° 26' 9.!	0	0	457.5	
777784.8	32° 7' 43.2-	103° 26' 9.!	0	0	557.5	
777785.6	32° 7' 42.2!	103° 26' 9.!	0	0	657.5	
777786.3	32° 7' 41.2(	103° 26' 9.!	0	0	757.5	
777787	32° 7' 40.2:	103° 26' 9.!	0	0	857.5	
777787.8	32° 7' 39.2{	103° 26' 9.!	0	0	957.5	
777788.5	32° 7' 38.2!	103° 26' 9.!	0	0	1057.5	

777789.3	32° 7' 37.3	103° 26' 9.6	0	0	1157.5
777790	32° 7' 36.3	103° 26' 9.6	0	0	1257.5
777790.7	32° 7' 35.3	103° 26' 9.6	0	0	1357.5
777791.5	32° 7' 34.3	103° 26' 9.6	0	0	1457.5
777792.2	32° 7' 33.3	103° 26' 9.6	0	0	1557.5
777793	32° 7' 32.3	103° 26' 9.6	0	0	1657.5
777793.7	32° 7' 31.3	103° 26' 9.6	0	0	1757.5
777794.5	32° 7' 30.3	103° 26' 9.6	0	0	1857.5
777795.2	32° 7' 29.3	103° 26' 9.6	0	0	1957.5
777795.9	32° 7' 28.4	103° 26' 9.6	0	0	2057.5
777796.7	32° 7' 27.4	103° 26' 9.6	0	0	2157.5
777797.4	32° 7' 26.4	103° 26' 9.6	0	0	2257.5
777798.2	32° 7' 25.4	103° 26' 9.6	0	0	2357.5
777798.9	32° 7' 24.4	103° 26' 9.6	0	0	2457.5
777799.6	32° 7' 23.4	103° 26' 9.6	0	0	2557.5
777800.4	32° 7' 22.4	103° 26' 9.6	0	0	2657.5
777801.1	32° 7' 21.4	103° 26' 9.6	0	0	2757.5
777801.9	32° 7' 20.4	103° 26' 9.6	0	0	2857.5
777802.6	32° 7' 19.4	103° 26' 9.6	0	0	2957.5
777803.3	32° 7' 18.5	103° 26' 9.6	0	0	3057.5
777804.1	32° 7' 17.5	103° 26' 9.6	0	0	3157.5
777804.8	32° 7' 16.5	103° 26' 9.6	0	0	3257.5
777805.6	32° 7' 15.5	103° 26' 9.6	0	0	3357.5
777806.3	32° 7' 14.5	103° 26' 9.6	0	0	3457.5
777807.1	32° 7' 13.5	103° 26' 9.6	0	0	3557.5
777807.8	32° 7' 12.5	103° 26' 9.6	0	0	3657.5
777808.5	32° 7' 11.5	103° 26' 9.6	0	0	3757.5
777809.3	32° 7' 10.5	103° 26' 9.6	0	0	3857.5
777810	32° 7' 9.60	103° 26' 9.6	0	0	3957.5
777810.8	32° 7' 8.61	103° 26' 9.6	0	0	4057.5
777811.5	32° 7' 7.62	103° 26' 9.6	0	0	4157.5
777812.2	32° 7' 6.63	103° 26' 9.6	0	0	4257.5
777813	32° 7' 5.64	103° 26' 9.6	0	0	4357.5
777813.7	32° 7' 4.65	103° 26' 9.6	0	0	4457.5
777814.5	32° 7' 3.66	103° 26' 9.6	0	0	4557.5
777815.2	32° 7' 2.67	103° 26' 9.6	0	0	4657.5
777816	32° 7' 1.68	103° 26' 9.6	0	0	4757.5
777816.7	32° 7' 0.69	103° 26' 9.6	0	0	4857.5
777817.4	32° 6' 59.7	103° 26' 9.6	0	0	4957.5
777818.2	32° 6' 58.7	103° 26' 9.6	0	0	5057.5
777818.9	32° 6' 57.7	103° 26' 9.6	0	0	5157.5
777819.7	32° 6' 56.7	103° 26' 9.6	0	0	5257.5
777820.4	32° 6' 55.7	103° 26' 9.6	0	0	5357.5
777821.1	32° 6' 54.7	103° 26' 9.6	0	0	5457.5
777821.9	32° 6' 53.7	103° 26' 9.6	0	0	5557.5
777822.6	32° 6' 52.7	103° 26' 9.6	0	0	5657.5
777823.4	32° 6' 51.7	103° 26' 9.6	0	0	5757.5

777824.1	32° 6' 50.8(	103° 26' 9.(	0	0	5857.5	
777824.8	32° 6' 49.8:	103° 26' 9.(	0	0	5957.5	
777825.6	32° 6' 48.8:	103° 26' 9.(	0	0	6057.5	
777826.3	32° 6' 47.8:	103° 26' 9.(	0	0	6157.5	
777827.1	32° 6' 46.8-	103° 26' 9.(	0	0	6257.5	
777827.8	32° 6' 45.8!	103° 26' 9.(	0	0	6357.5	
777828.6	32° 6' 44.8(	103° 26' 9.(	0	0	6457.5	
777829.3	32° 6' 43.8:	103° 26' 9.(	0	0	6557.5	
777830	32° 6' 42.8:	103° 26' 9.(	0	0	6657.5	
777830.8	32° 6' 41.8!	103° 26' 9.(	0	0	6757.5	
777831.5	32° 6' 40.9(	103° 26' 9.(	0	0	6857.5	
777832.3	32° 6' 39.9:	103° 26' 9.(	0	0	6957.5	
777833	32° 6' 38.9:	103° 26' 9.(	0	0	7057.5	
777833.7	32° 6' 37.9:	103° 26' 9.(	0	0	7157.5	
777834.5	32° 6' 36.9-	103° 26' 9.(	0	0	7257.5	
777835.2	32° 6' 35.9!	103° 26' 9.(	0	0	7357.5	
777836	32° 6' 34.9(	103° 26' 9.(	0	0	7457.5	
777836.7	32° 6' 33.9:	103° 26' 9.(	0	0	7557.5	
777837.5	32° 6' 32.9:	103° 26' 9.(	0	0	7657.5	
777838.2	32° 6' 31.9:	103° 26' 9.(	0	0	7763.9	PBHL

PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL

OPERATOR'S NAME: Marathon Oil Permian LLC
LEASE NO.: NMNM122624, NMNM113419
LOCATION: Section 14, T.25 S., R.34 E., NMPM
COUNTY: Lea County, New Mexico

Well Pad 1

Ender Wiggins F C 25 34 14 WC 7H
Surface Hole Location: 2602' FSL & 1786' FWL, Section 14, T. 25 S., R. 34 E
Bottom Hole Location: 150' FNL & 1325' FWL, Section 11, T. 25 S, R. 34 E.

Ender Wiggins F C 25 34 14 WD 12H
Surface Hole Location: 2602' FSL & 1816' FWL, Section 14, T. 25 S., R. 34 E
Bottom Hole Location: 150' FNL & 2319' FWL, Section 11, T. 25 S, R. 34 E.

Ender Wiggins F C 25 34 14 WA 10H
Surface Hole Location: 2602' FSL & 1846' FWL, Section 14, T. 25 S., R. 34 E
Bottom Hole Location: 330' FSL & 2315' FWL, Section 23, T. 25 S, R. 34 E.

Well Pad 2

Dogie Draw Fed Com 25 34 14 WXY 14H
Surface Hole Location: 2590' FSL & 1227' FEL, Section 14, T. 25 S., R. 34 E.
Bottom Hole Location: 330' FSL & 1979' FEL, Section 23, T. 25 S, R 34 E.

Dogie Draw Fed Com 25 34 14 TB 17H
Surface Hole Location: 2589' FSL & 1197' FEL, Section 14, T. 25 S., R. 34 E.
Bottom Hole Location: 330' FSL & 990' FEL, Section 23, T. 25 S, R 34 E.

Dogie Draw Fed Com 25 34 14 WA 18H
Surface Hole Location: 2589' FSL & 1167' FEL, Section 14, T. 25 S., R. 34 E.
Bottom Hole Location: 330' FSL & 990' FEL, Section 23, T. 25 S, R 34 E.

Dogie Draw Fed Com 25 34 14 WXY 21H
Surface Hole Location: 2589' FSL & 1137' FEL, Section 14, T. 25 S., R. 34 E.
Bottom Hole Location: 330' FSL & 330' FEL, Section 23, T. 25 S, R 34 E.

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

I. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to

allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

II. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

III. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

IV. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:
Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Timing Limitation Exceptions:
The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year

(between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

Hydrology:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

TANK BATTERY:
Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

V. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing
The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed twenty (20) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thrirty (30) feet.

Surfacing
Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

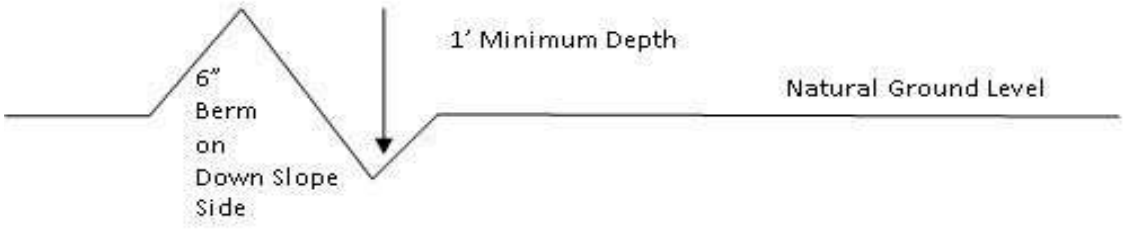
Ditching
Ditching shall be required on both sides of the road.

Turnouts
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage
Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$\text{400 foot road with 4\% road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road
3. Redistribute topsoil
4. Revegetate slopes

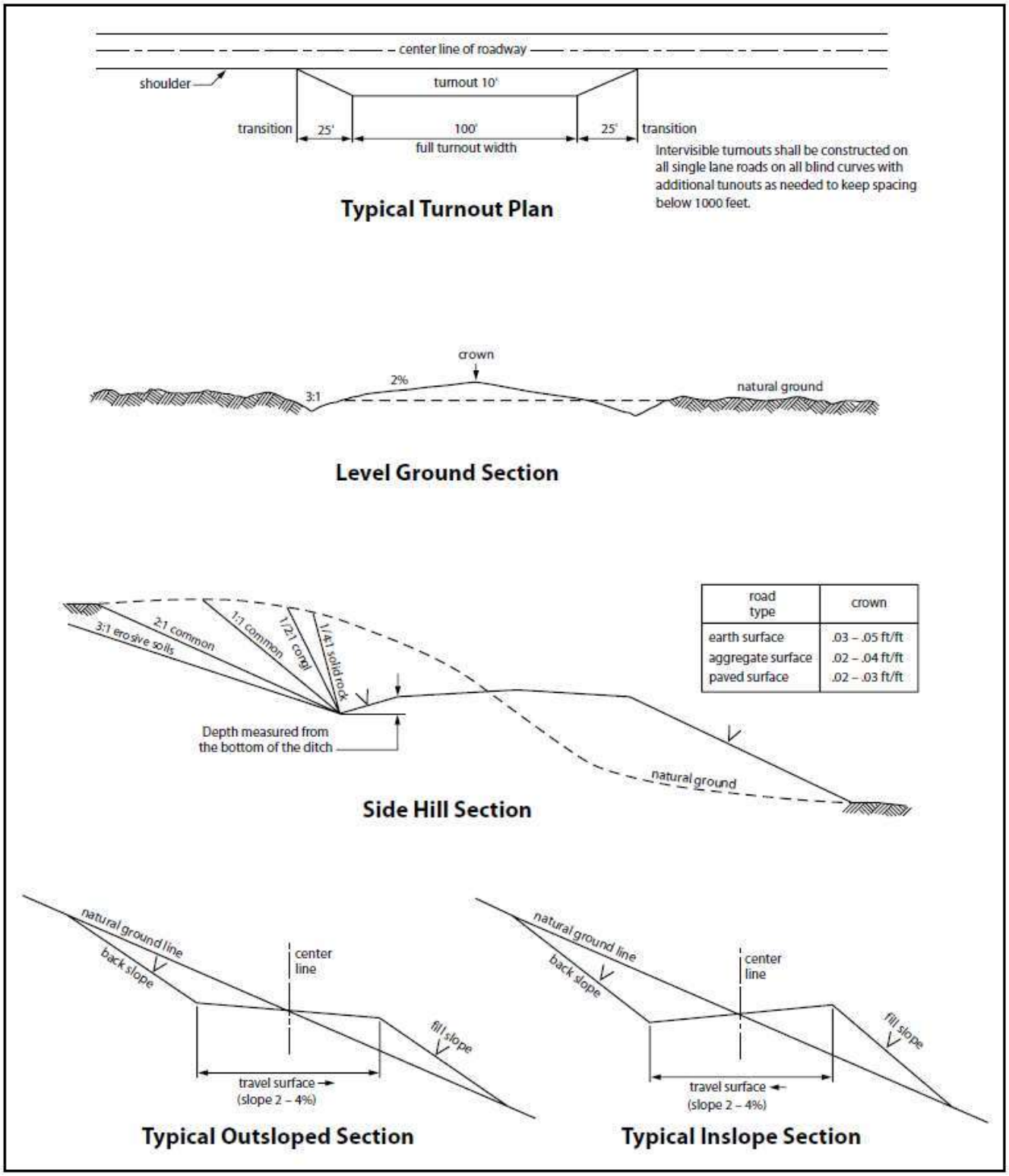


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VI. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities
Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)
Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening
The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures
The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone*.) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures
Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement
All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

VII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

VIII. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

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
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 396710

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 396710
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	ALL PREVIOUS COA's APPLY WITH THE ADDITION OF IF ON ANY STRING CEMENT DOES NOT CIRCULATE, A CBL MUST BE RUN ON THAT STRING OF CASING.	11/1/2024