

|                     |                  |           |                    |
|---------------------|------------------|-----------|--------------------|
| RECEIVED: 9/18/2017 | REVIEWER: L.R.L. | TYPE: NSL | APP NO: 1726945669 |
|---------------------|------------------|-----------|--------------------|

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

# NEW MEXICO OIL CONSERVATION DIVISION - Geological & Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



2017 SEP 18 A 10:33

## ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: OXY USA Inc. OGRID Number: 16696  
Well Name: Cal-Mon MDP1 35 Federal #5H API: 30-015-pending  
Pool: Cotton Draw; Bone Spring Pool Code: 13367

### SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

NSL-7593

#### 1) TYPE OF APPLICATION: Check those which apply for (A)

A. Location - Spacing Unit - Simultaneous Dedication

☒ NSL

☐ NSP (PROJECT AREA)

☐ NSP (PRORATION UNIT)

☐ SD

B. Check one only for (I) or (II)

(I) Commingling - Storage - Measurement

☐ DHC

☐ CTB

☐ PLC

☐ PC

☐ OLS

☐ OLM

(II) Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX

☐ PMX

☐ SWD

☐ IPI

☐ EOR

☐ PPR

#### 2) NOTIFICATION REQUIRED TO: Check those which apply.

A. ☒ Offset operators or lease holders or working interest owners

B. ☐ Royalty, overriding royalty owners, revenue owners

C. ☐ Application requires published notice

D. ☒ Notification and/or concurrent approval by SLO

E. ☒ Notification and/or concurrent approval by BLM

F. ☐ Surface owner

G. ☐ For all of the above, proof of notification or publication is attached, and/or,

H. ☐ No notice required

#### FOR OCD ONLY

☐ Notice Complete

☐ Application  
Content  
Complete

#### 3) CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Sarah Mitchell

Print or Type Name

*Sarah Mitchell*

Signature

9/11/2017

Date

432-699-4318

Phone Number

Sarah\_mitchell@oxy.com

e-mail Address



**OXY USA Inc**

**PO Box 50250  
Midland, TX 79710-0250**

September 11, 2017

New Mexico Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Attention: Leonard Lowe

Re: *Application for Administrative Approval of Non-Standard Location –  
Cal-Mon MDP1 35 Federal #5H – Cotton Draw; Bone Spring  
Surface – 110 FNL 1026 FEL Ut A Sec 35 T23S R31E  
Top Perforation – 340 FNL 1260 FEL Ut A Sec 35 T23S R31E  
Bottom Perforation – 340 FSL 1260 FEL Ut P Sec 35 T23S R31E  
Bottom Hole – 180 FSL 1260 FEL Ut P Sec 35 T23S R31E  
Eddy County, New Mexico*

Dear Mr. Lowe:

OXY USA Inc. respectfully requests administrative approval of a non-standard location on the Cal-Mon MDP1 35 Federal #5H well, API Number-30-015-Pending, Property Code Pending. The #5H well is proposed to be completed in the Cotton Draw; Bone Spring, Pool Code 13367. This will be a horizontal well in a pool with no special rules for setback, so the setback requirements under Rule 19.15.15.9 (A) and 19.15.16.15 (B) would apply. The proposed producing interval is outside of the proposed Producing Area but within the proposed Project Area and will be drilled as follows:

Surface – 110 FNL 1026 FEL Ut A Sec 35 T23S R31E  
Top Perforation – 340 FNL 1260 FEL Ut A Sec 35 T23S R31E  
Bottom Perforation – 340 FSL 1260 FEL Ut P Sec 35 T23S R31E  
Bottom Hole – 180 FSL 1260 FEL Ut P Sec 35 T23S R31E

The adjoining spacing units towards which the unorthodox location encroaches are located in T23S R31E, Section 26- Unit O, Section 35–Units B, G, J, O, and T24S-R31E, Section 2- Unit B

Approval of the unorthodox producing interval will allow for efficient spacing of horizontal wells and thereby prevent waste.

To support this request, the following information has been submitted for your review:

1. Application for Permit to Drill.
2. C-102 Plat for the proposed well and additional plats with offsetting well and affected spacing units.
3. List of affected offset parties that adjoin the non-standard, copies of the signed certified return receipts will be furnished upon request.
4. Proposed Directional Survey
5. Statement from Oxy Production Engineer

If you need any additional information, please call me at 432-699-4318.

Sincerely,

Sarah Mitchell  
Regulatory Specialist  
OXY USA Inc.

Attachments

CC: NMOCD-Artesia, BLM-Carlsbad, Service List



**OXY USA Inc.**

PO Box 50250  
Midland, TX 79710-0250

September 11, 2017

**CERTIFIED MAIL – RETURN RECEIPT REQUESTED**

Re: ***Application for Administrative Approval of Non-Standard Location –  
Cal-Mon MDP1 35 Federal #5H – Cotton Draw; Bone Spring  
Surface – 110 FNL 1026 FEL Ut A Sec 35 T23S R31E  
Top Perforation – 340 FNL 1260 FEL Ut A Sec 35 T23S R31E  
Bottom Perforation – 340 FSL 1260 FEL Ut P Sec 35 T23S R31E  
Bottom Hole – 180 FSL 1260 FEL Ut P Sec 35 T23S R31E  
Eddy County, New Mexico***

Ladies and Gentlemen:

Enclosed is a copy of an application, filed with the New Mexico Oil Conservation Division by OXY USA Inc., requesting administrative approval for a non-standard location. As an affected party, notice is being provided to you pursuant to Rule 19.15.15.9 (A) and 19.15.16.15 (B). The well is located as follows:

Surface – 110 FNL 1026 FEL Ut A Sec 35 T23S R31E  
Top Perforation – 340 FNL 1260 FEL Ut A Sec 35 T23S R31E  
Bottom Perforation – 340 FSL 1260 FEL Ut P Sec 35 T23S R31E  
Bottom Hole – 180 FSL 1260 FEL Ut P Sec 35 T23S R31E

If you object to the well's location, you must notify the Division in writing no later than 20 days from the date the application is received by the NMOCD (1220 South St. Francis Drive, Santa Fe, NM 87505; Attention: Leonard Lowe).

If you need any additional information, you can contact John Schneider, CPL at 713-366-5330 or myself at 432-699-4318.

Sincerely,

Sarah Mitchell  
Regulatory Specialist  
OXY USA Inc.

Attachments

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

FORM APPROVED  
OMB No. 1004-0137  
Expires October 31, 2014

|                                                                                                                                                                                                                                                                   |                                                     |                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER                                                                                                                                                                      |                                                     | 5. Lease Serial No.<br>NMNM19199                                      |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone                                            |                                                     | 6. If Indian, Allottee or Tribe Name                                  |
| 2. Name of Operator<br>OXY USA INC                                                                                                                                                                                                                                |                                                     | 7. If Unit or CA Agreement, Name and No.                              |
| 3a. Address<br>5 Greenway Plaza, Suite 110 Houston TX 770                                                                                                                                                                                                         |                                                     | 8. Lease Name and Well No.<br>CAL-MON MDP1 35 FEDERAL 5H              |
| 3b. Phone No. (include area code)<br>(713)366-5716                                                                                                                                                                                                                |                                                     | 9. API Well No.                                                       |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.)<br>At surface NENE / 110 FNL / 1026 FEL / LAT 32.2878742 / LONG -103.7433688<br>At proposed prod. zone SESE / 180 FSL / 1260 FEL / LAT 32.2541632 / LONG -103.744129 |                                                     | 10. Field and Pool, or Exploratory<br>COTTON DRAW BONE SPRING / 2ND I |
| 11. Sec., T. R. M. or Blk. and Survey or Area<br>SEC 35 / T23S / R31E / NMP                                                                                                                                                                                       |                                                     | 12. County or Parish<br>EDDY                                          |
| 14. Distance in miles and direction from nearest town or post office*<br>21 miles                                                                                                                                                                                 |                                                     | 13. State<br>NM                                                       |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any)<br>50 feet                                                                                                                                   | 16. No. of acres in lease<br>640                    | 17. Spacing Unit dedicated to this well<br>160                        |
| 18. Distance from proposed location* to nearest well, drilling, completed, 30 feet applied for, on this lease, ft.                                                                                                                                                | 19. Proposed Depth<br>10184 feet / 14998 feet       | 20. BLM/BIA Bond No. on file<br>FED: ESB000226                        |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>3468 feet                                                                                                                                                                                                  | 22. Approximate date work will start*<br>05/10/2018 | 23. Estimated duration<br>20 days                                     |

**24. Attachments**

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- |                                                                                                                                                                                                                           |                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Well plat certified by a registered surveyor.<br>2. A Drilling Plan.<br>3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).<br>5. Operator certification<br>6. Such other site specific information and/or plans as may be required by the BLM. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                          |                                                           |                    |
|------------------------------------------|-----------------------------------------------------------|--------------------|
| 25. Signature<br>(Electronic Submission) | Name (Printed/Typed)<br>David Stewart / Ph: (713)366-5716 | Date<br>07/06/2017 |
| Title<br>Sr. Regulatory Advisor          |                                                           |                    |
| Approved by (Signature)                  | Name (Printed/Typed)                                      | Date               |
| Title<br>Office<br>CARLSBAD              |                                                           |                    |

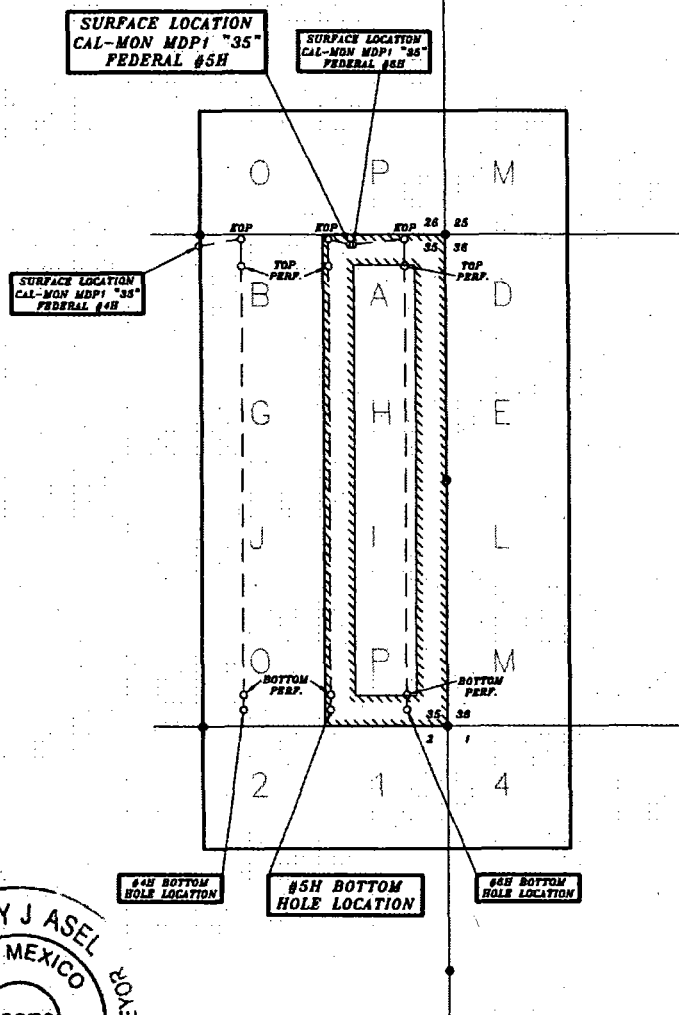
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

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.

(Continued on page 2)

\*(Instructions on page 2)

**OXY USA INC.**  
**CAL-MON MDP1 "35" FEDERAL #5H**  
**SECTIONS 25, 26, 35 & 36, T23S, R31E**  
**AND SECTIONS 1 & 2, T24S, R31E,**  
**N.M.P.M., EDDY COUNTY, NEW MEXICO**



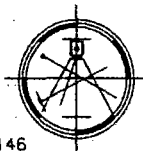
**SURVEYORS CERTIFICATE**

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

*Terry J. Asel* 9/11/2017  
 Terry J. Asel N.M. R.P.L.S. No. 15079

**Asel Surveying**

P.O. BOX 393 - 310 W. TAYLOR  
 HOBBS, NEW MEXICO - 575-393-9146



2000' 0 2000' 4000' FEET  
 SCALE: 1"=2000'

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (505) 393-6161 Fax: (505) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (505) 748-1283 Fax: (505) 748-9720  
District III  
1000 Rio Grande 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**

|                             |                                                   |                                              |
|-----------------------------|---------------------------------------------------|----------------------------------------------|
| API Number<br><b>30-05-</b> | Pool Code<br><b>13367</b>                         | Pool Name<br><b>Cotton Draw Bone Springs</b> |
| Property Code               | Property Name<br><b>CAL-MON MDP1 "35" FEDERAL</b> | Well Number<br><b>(5H)</b>                   |
| OGRID No.<br><b>16696</b>   | Operator Name<br><b>OXY USA INC.</b>              | Elevation<br><b>3468.1'</b>                  |

**Surface Location**

| UL or lot no. | Section   | Township        | Range                    | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
|---------------|-----------|-----------------|--------------------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>A</b>      | <b>35</b> | <b>23 SOUTH</b> | <b>31 EAST, N.M.P.M.</b> |         | <b>110'</b>   | <b>NORTH</b>     | <b>1026'</b>  | <b>EAST</b>    | <b>EDDY</b> |

**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      |
|---------------|-----------|-----------------|--------------------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>P</b>      | <b>35</b> | <b>23 SOUTH</b> | <b>31 EAST, N.M.P.M.</b> |         | <b>180'</b>   | <b>SOUTH</b>     | <b>1260'</b>  | <b>EAST</b>    | <b>EDDY</b> |

| Dedicated Acres | Joint or Infill | Consolidation Code | Order No.                |
|-----------------|-----------------|--------------------|--------------------------|
| <b>160</b>      | <b>Y</b>        |                    | <b>NSL will be filed</b> |

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.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>KICK OFF POINT</b><br/>NEW MEXICO EAST<br/>NAD 1983<br/>Y=461745.88 US FT<br/>X=723452.85 US FT<br/>LAT.: N 32.2680401<br/>LONG.: W 103.7441258</p> <p><b>TOP PERF.</b><br/>NEW MEXICO EAST<br/>NAD 1983<br/>Y=461455.96 US FT<br/>X=723454.38 US FT<br/>LAT.: N 32.2672429<br/>LONG.: W 103.7441260</p> <p><b>SURFACE LOCATION</b><br/>NEW MEXICO EAST<br/>NAD 1983<br/>Y=461688.88 US FT<br/>X=723687.17 US FT<br/>LAT.: N 32.2678742<br/>LONG.: W 103.7433688</p> <p><b>BOTTOM PERF.</b><br/>NEW MEXICO EAST<br/>NAD 1983<br/>Y=456857.86 US FT<br/>X=723478.72 US FT<br/>LAT.: N 32.2546030<br/>LONG.: W 103.7441289</p> <p><b>BOTTOM HOLE LOCATION</b><br/>NEW MEXICO EAST<br/>NAD 1983<br/>Y=456697.85 US FT<br/>X=723478.57 US FT<br/>LAT.: N 32.2541832<br/>LONG.: W 103.7441290</p> <p>GRID AZ = 284°08'54"<br/>241.65'</p> <p>GRID AZ = 179°41'48"<br/>5040.37' IN ALL</p> <p>PRODUCING AREA<br/>PROJECT AREA</p> | <p><b>OPERATOR CERTIFICATION</b></p> <p>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 retained 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.</p> <p><i>[Signature]</i> 7/5/17<br/>Signature Date<br/><b>David Stewart SR. Reg. AGU.</b><br/>Printed Name<br/><b>david.stewart@oxy.com</b><br/>E-mail Address</p> <p><b>SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was located from the best of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.</p> <p><b>JERRY J. ASH</b><br/>15079<br/>NOVEMBER 1, 2016<br/>Date of Survey<br/>Professional Land Surveyor<br/><i>[Signature]</i> 2/7/2017<br/>Certificate Number 15079</p> <p>WO# 161101WL-a (KA)</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
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☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

|                             |                                                   |                                             |
|-----------------------------|---------------------------------------------------|---------------------------------------------|
| API Number<br><b>30-05-</b> | Pool Code<br><b>13367</b>                         | Pool Name<br><b>Cotton Draw Bone Spring</b> |
| Property Code               | Property Name<br><b>CAL-MON MDP1 "35" FEDERAL</b> | Well Number<br><b>4H</b>                    |
| OGRID No.<br><b>16696</b>   | Operator Name<br><b>OXY USA INC.</b>              | Elevation<br><b>3462.3'</b>                 |

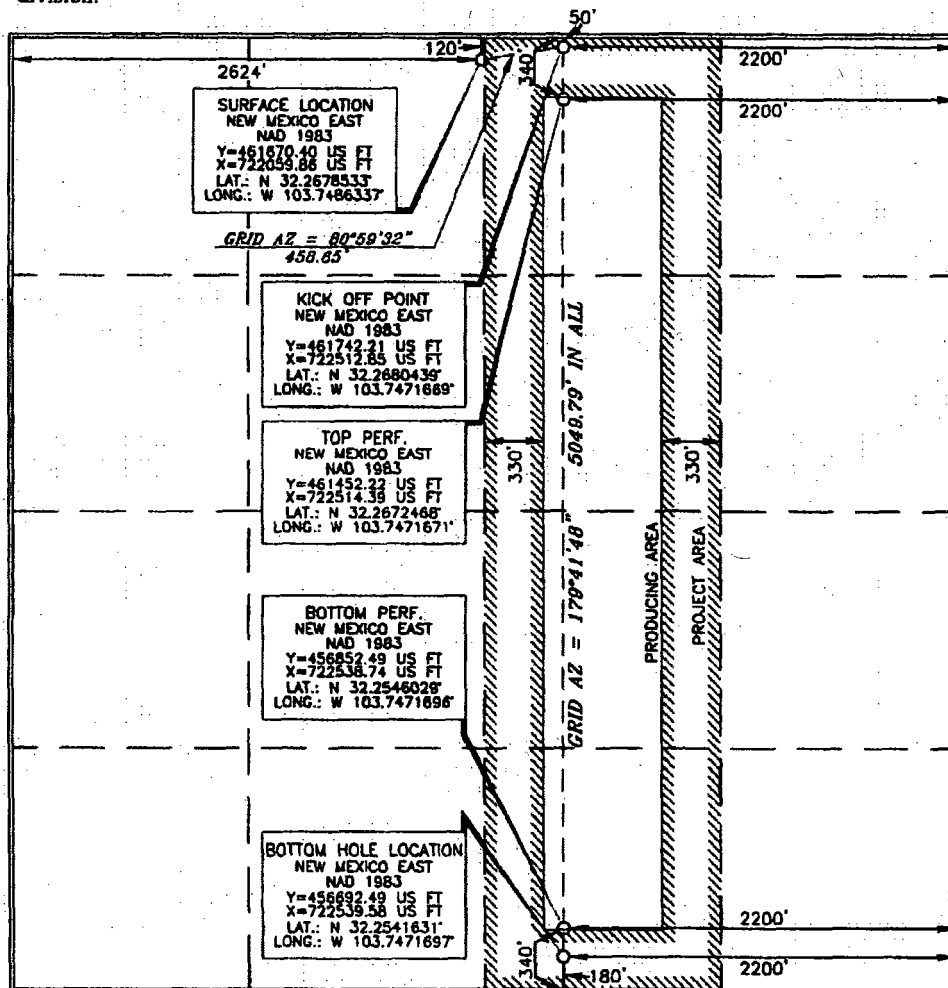
**Surface Location**

| UL or lot no. | Section   | Township        | Range                    | Lot Ida | Feet from the | North/South line | Feet from the | East/West line | County      |
|---------------|-----------|-----------------|--------------------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>C</b>      | <b>35</b> | <b>23 SOUTH</b> | <b>31 EAST, N.M.P.M.</b> |         | <b>120'</b>   | <b>NORTH</b>     | <b>2624'</b>  | <b>WEST</b>    | <b>EDDY</b> |

**Bottom Hole Location If Different From Surface**

| UL or lot no.                 | Section   | Township                    | Range                    | Lot Ida   | Feet from the | North/South line | Feet from the | East/West line | County      |
|-------------------------------|-----------|-----------------------------|--------------------------|-----------|---------------|------------------|---------------|----------------|-------------|
| <b>0</b>                      | <b>35</b> | <b>23 SOUTH</b>             | <b>31 EAST, N.M.P.M.</b> |           | <b>180'</b>   | <b>SOUTH</b>     | <b>2200'</b>  | <b>EAST</b>    | <b>EDDY</b> |
| Dedicated Acres<br><b>160</b> |           | Joint or Infill<br><b>Y</b> | Consolidation Code       | Order No. |               |                  |               |                |             |

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.



**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 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.

*David Stewart* 6/27/17  
Signature Date  
David Stewart S.P. Reg. Adv.  
Printed Name  
david.stewart@oxy.com  
E-mail Address

**SURVEYOR CERTIFICATION**

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

**JERRY J. ASH**  
15079  
Date of Survey  
Signature and Seal  
Professional Surveyor  
*Jerry Ash* 2/6/2017  
Certificate Number 15079

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Phone: (505) 476-3450 Fax: (505) 476-3452

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  
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☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

|                             |                                                   |                                             |
|-----------------------------|---------------------------------------------------|---------------------------------------------|
| API Number<br><b>30-015</b> | Pool Code<br><b>13367</b>                         | Pool Name<br><b>Cotton Draw Bare Spring</b> |
| Property Code               | Property Name<br><b>CAL-MON MDP1 "35" FEDERAL</b> | Well Number<br><b>6H</b>                    |
| OGRID No.<br><b>16696</b>   | Operator Name<br><b>OXY USA INC.</b>              | Elevation<br><b>3468.2'</b>                 |

**Surface Location**

| UL or lot no. | Section   | Township        | Range                    | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
|---------------|-----------|-----------------|--------------------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>A</b>      | <b>35</b> | <b>23 SOUTH</b> | <b>31 EAST, N.M.P.M.</b> |         | <b>110'</b>   | <b>NORTH</b>     | <b>996'</b>   | <b>EAST</b>    | <b>EDDY</b> |

**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      |
|---------------|-----------|-----------------|--------------------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>P</b>      | <b>35</b> | <b>23 SOUTH</b> | <b>31 EAST, N.M.P.M.</b> |         | <b>180'</b>   | <b>SOUTH</b>     | <b>440'</b>   | <b>EAST</b>    | <b>EDDY</b> |

|                               |                             |                    |           |
|-------------------------------|-----------------------------|--------------------|-----------|
| Dedicated Acres<br><b>160</b> | Joint or Infill<br><b>Y</b> | Consolidation Code | Order No. |
|-------------------------------|-----------------------------|--------------------|-----------|

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.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <p><b>SURFACE LOCATION</b><br/>NEW MEXICO EAST<br/>NAD 1983<br/>Y=461687.01 US FT<br/>X=723717.17 US FT<br/>LAT.: N 32.2678741°<br/>LONG.: W 103.7432717°</p> <p><b>GRID AZ = 83°36'43"</b><br/>559.15'</p> <p><b>KICK OFF POINT</b><br/>NEW MEXICO EAST<br/>NAD 1983<br/>Y=47793.64 US FT<br/>X=724272.64 US FT<br/>LAT.: N 32.2680366°<br/>LONG.: W 103.7414729°</p> <p><b>TOP PERF.</b><br/>NEW MEXICO EAST<br/>NAD 1983<br/>Y=461459.22 US FT<br/>X=724274.38 US FT<br/>LAT.: N 32.2672395°<br/>LONG.: W 103.7414731°</p> <p><b>BOTTOM PERF.</b><br/>NEW MEXICO EAST<br/>NAD 1983<br/>Y=456862.16 US FT<br/>X=724298.71 US FT<br/>LAT.: N 32.2546030°<br/>LONG.: W 103.7414764°</p> <p><b>BOTTOM HOLE LOCATION</b><br/>NEW MEXICO EAST<br/>NAD 1983<br/>Y=456702.16 US FT<br/>X=724298.56 US FT<br/>LAT.: N 32.2541632°<br/>LONG.: W 103.7414785°</p> | <p><b>OPERATOR CERTIFICATION</b></p> <p>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 subsurface 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.</p> <p><i>David Stewart</i> 7/5/17<br/>Signature Date<br/>David Stewart Sr. Reg. Adv.<br/>Printed Name<br/>david.stewart@oxy.com<br/>E-mail Address</p> <p><b>SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p>DATE OF SURVEY<br/>NOVEMBER 1, 2016<br/>Signature and Seal of Professional Surveyor<br/><i>Tommy J. Anderson</i> 2/7/2017<br/>Certificate Number 15079</p> |                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p><b>PROJECT AREA</b></p> <p><b>PRODUCING AREA</b></p> <p><b>GRID AZ = 179°41'46"</b><br/>5047.13' IN ALL</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p><b>PROFESSIONAL LAND SURVEYOR</b><br/>15079</p> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p><b>GRID AZ = 83°36'43"</b><br/>559.15'</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p><b>DATE OF SURVEY</b><br/>NOVEMBER 1, 2016</p>  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p><b>GRID AZ = 179°41'46"</b><br/>5047.13' IN ALL</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p><b>DATE OF SURVEY</b><br/>NOVEMBER 1, 2016</p>  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p><b>GRID AZ = 83°36'43"</b><br/>559.15'</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p><b>DATE OF SURVEY</b><br/>NOVEMBER 1, 2016</p>  |

WOP 161101WL-b (KA)



**Application Non-Standard Location - Service List**

**OXY USA Inc.**

**Cal-Mon MDP1 35 Federal #5H**

1

New Mexico Oil Conservation Division  
811 S. First St.  
Artesia, NM 88210  
7017 0190 0000 4589 1596

New Mexico State Land Office  
P. O. Box 1148  
Santa Fe, NM 87504  
7017 0190 0000 4589 1602

New Mexico Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505  
7017 0190 0000 4589 1619

United States Dept of Interior  
Bureau of Land Management  
620 E. Greene Street  
Carlsbad, NM 88220  
7017 0190 0000 4589 1626

**T23S R31E, Eddy County  
Section 26 - Units O, P**

Devon Energy Production Company LP  
333 W. Sheridan Ave  
Oklahoma City, OK 73102-5010  
7017 0190 0000 4589 1633

Chevron USA Inc. (Lessee)  
6301 Deauville Boulevard  
Midland, Texas 79706-2964  
7017 0190 0000 4588 1054

Marathon Oil Company (Lessee)  
5555 San Felipe St.  
Houston, Texas 77056  
7017 0190 0000 4589 1657

Harken Exploration Co. (Lessee)  
P.O. Box 619024  
Dallas, TX 75261  
7017 0190 0000 4589 1664

Mid Continent Energy (Lessee)  
100 W. 5th St. Suite 450  
Tulsa, OK 74103-4287  
7017 0190 0000 4589 1671

Petrohawk Properties LP (Lessee)  
1100 Louisiana, Suite 4400  
Houston, TX 77002  
7017 0190 0000 4588 1061

Riverbend Production LP (Lessee)  
500 Dallas St., Suite 2835  
Houston, Texas 77002  
7017 0190 0000 4589 1640

XTO Energy Inc. (Lessee)  
810 Houston Street  
Fort Worth, Texas 76102-6298  
7017 0190 0000 4588 1085

**Section 35- Units A, B, G, H, I, J, O, P**

OXY USA Inc. -100% WI  
P.O. Box 50250  
Midland, Texas 79710

**T24S-R31E, Eddy County  
Section 2- Units 1, 2**

Mobil Producing Texas & NM Inc. (Lessee)  
810 Houston Street  
Fort Worth, Texas 76102-6298  
7017 0190 0000 4588 1078

Chevron USA Inc. (Lessee)  
6301 Deauville Boulevard  
Midland, Texas 79706-2964  
7017 0190 0000 4588 1054

Copies of this application were mailed to the following individuals, companies and organizations on or before

11-Sep-2017

  
Sarah Mitchell  
OXY USA Inc.



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: CAL-MON MDP1 35 FED

Well: CAL-MON MDP1 35 FED 5H

Wellbore: WB00

Design: Permitting Plan

## WELL DETAILS: CAL-MON MDP1 35 FED 5H

+N/-S  
0.00

+E/-W  
0.00

Northing  
461686.89

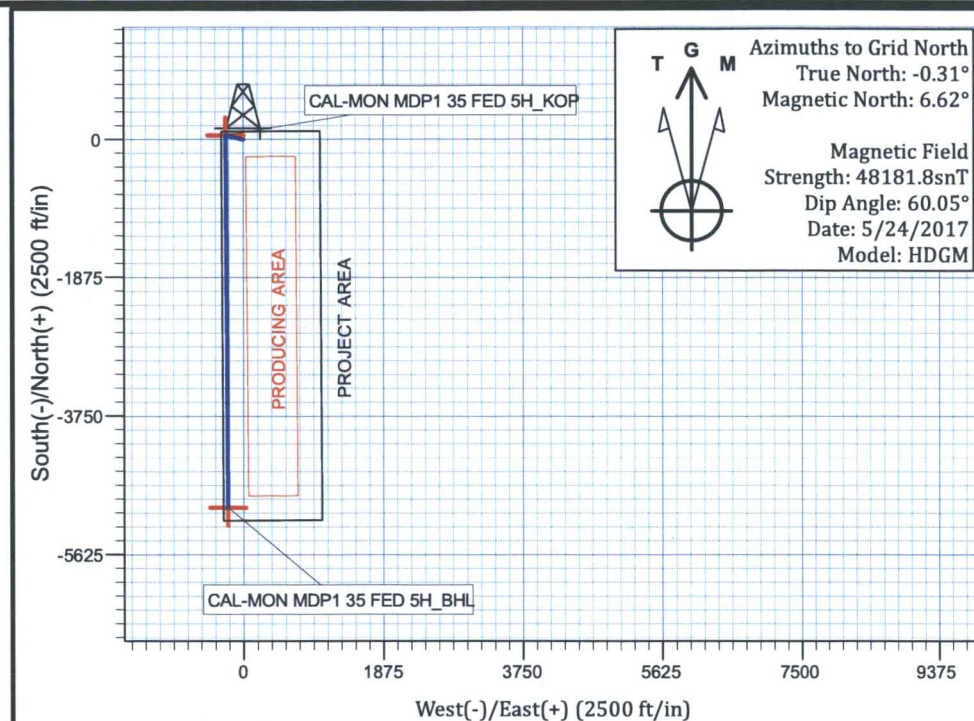
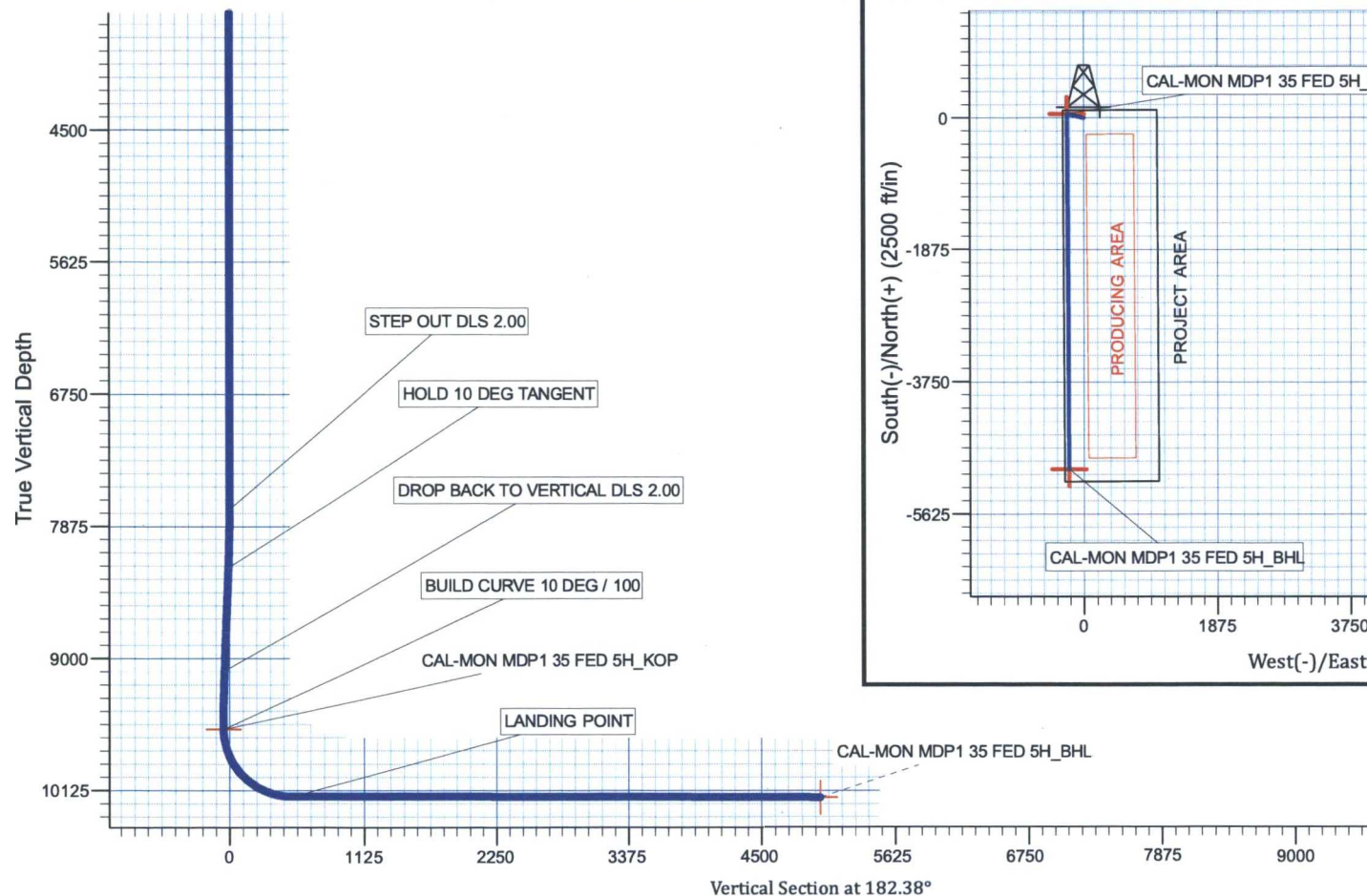
Ground Level: 3468.10

Easting  
723687.17

Datum @ 3494.60ft

Latitude  
32° 16' 4.347058 N

Longitude  
103° 44' 36.127571 W



### PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone  
System Datum: Mean Sea Level

### SECTION DETAILS

| Sec | MD       | Inc   | Azi    | TVD      | +N/-S    | +E/-W   | Dleg  | TFace  | VSect   | Target | Annotation                     |
|-----|----------|-------|--------|----------|----------|---------|-------|--------|---------|--------|--------------------------------|
| 1   | 0.00     | 0.00  | 0.00   | 0.00     | 0.00     | 0.00    | 0.00  | 0.00   | 0.00    |        |                                |
| 2   | 7732.00  | 0.00  | 0.00   | 7732.00  | 0.00     | 0.00    | 0.00  | 0.00   | 0.00    |        | STEP OUT DLS 2.00              |
| 3   | 8231.88  | 10.00 | 284.15 | 8229.34  | 10.63    | -42.18  | 2.00  | 284.15 | -8.87   |        | HOLD 10 DEG TANGENT            |
| 4   | 9122.76  | 10.00 | 284.15 | 9106.70  | 48.44    | -192.15 | 0.00  | 0.00   | -40.41  |        | DROP BACK TO VERTICAL DLS 2.00 |
| 5   | 9622.63  | 0.00  | 179.70 | 9604.04  | 59.07    | -234.33 | 2.00  | 180.00 | -49.28  |        | BUILD CURVE 10 DEG / 100       |
| 6   | 10522.63 | 90.00 | 179.70 | 10177.00 | -513.88  | -231.30 | 10.00 | 179.70 | 523.05  |        | LANDING POINT                  |
| 7   | 14998.33 | 89.82 | 179.70 | 10184.00 | -4989.50 | -207.61 | 0.00  | 180.00 | 4993.82 |        | TD at 14998.33                 |



# Oxy Planning Report

|                  |                                     |                                     |                             |
|------------------|-------------------------------------|-------------------------------------|-----------------------------|
| <b>Database:</b> | HOPSPP                              | <b>Local Co-ordinate Reference:</b> | Well CAL-MON MDP1 35 FED 5H |
| <b>Company:</b>  | ENGINEERING DESIGNS                 | <b>TVD Reference:</b>               | Datum @ 3494.60ft           |
| <b>Project:</b>  | PRD NM DIRECTIONAL PLANS (NAD 1983) | <b>MD Reference:</b>                | Datum @ 3494.60ft           |
| <b>Site:</b>     | CAL-MON MDP1 35 FED                 | <b>North Reference:</b>             | Grid                        |
| <b>Well:</b>     | CAL-MON MDP1 35 FED 5H              | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Wellbore:</b> | WB00                                |                                     |                             |
| <b>Design:</b>   | Permitting Plan                     |                                     |                             |

|                    |                                     |                      |                             |
|--------------------|-------------------------------------|----------------------|-----------------------------|
| <b>Project</b>     | PRD NM DIRECTIONAL PLANS (NAD 1983) |                      |                             |
| <b>Map System:</b> | US State Plane 1983                 | <b>System Datum:</b> | Mean Sea Level              |
| <b>Geo Datum:</b>  | North American Datum 1983           |                      |                             |
| <b>Map Zone:</b>   | New Mexico Eastern Zone             |                      | Using geodetic scale factor |

|                              |                     |                          |                      |
|------------------------------|---------------------|--------------------------|----------------------|
| <b>Site</b>                  | CAL-MON MDP1 35 FED |                          |                      |
| <b>Site Position:</b>        |                     | <b>Northing:</b>         | 461,672.99 usft      |
| <b>From:</b>                 | Map                 | <b>Easting:</b>          | 720,407.82 usft      |
| <b>Position Uncertainty:</b> | 0.00 ft             | <b>Slot Radius:</b>      | 13.200 in            |
|                              |                     | <b>Latitude:</b>         | 32° 16' 4.386302 N   |
|                              |                     | <b>Longitude:</b>        | 103° 45' 14.322166 W |
|                              |                     | <b>Grid Convergence:</b> | 0.31 °               |

|                             |                        |                            |                                  |
|-----------------------------|------------------------|----------------------------|----------------------------------|
| <b>Well</b>                 | CAL-MON MDP1 35 FED 5H |                            |                                  |
| <b>Well Position</b>        | <b>+N/-S</b>           | 13.90 ft                   | <b>Northing:</b> 461,686.89 usft |
|                             | <b>+E/-W</b>           | 3,279.53 ft                | <b>Easting:</b> 723,687.17 usft  |
| <b>Position Uncertainty</b> | 0.00 ft                | <b>Wellhead Elevation:</b> | 0.00 ft                          |
|                             |                        | <b>Latitude:</b>           | 32° 16' 4.347058 N               |
|                             |                        | <b>Longitude:</b>          | 103° 44' 36.127571 W             |
|                             |                        | <b>Ground Level:</b>       | 3,468.10 ft                      |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | WB00              |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | HDGM              | 5/24/2017          | 6.93                   | 60.05                | 48,182                     |

|                          |                         |                   |                      |                      |
|--------------------------|-------------------------|-------------------|----------------------|----------------------|
| <b>Design</b>            | Permitting Plan         |                   |                      |                      |
| <b>Audit Notes:</b>      |                         |                   |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>           | PROTOTYPE         | <b>Tie On Depth:</b> | 0.00                 |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b>    | <b>Direction (°)</b> |
|                          | 0.00                    | 0.00              | 0.00                 | 182.38               |

| <b>Plan Sections</b> |                 |             |                     |            |            |                       |                      |                     |         |                 |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|-----------------|
| Measured Depth (ft)  | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target          |
| 0.00                 | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                 | 0.00                | 0.00    |                 |
| 7,732.00             | 0.00            | 0.00        | 7,732.00            | 0.00       | 0.00       | 0.00                  | 0.00                 | 0.00                | 0.00    |                 |
| 8,231.88             | 10.00           | 284.15      | 8,229.34            | 10.63      | -42.18     | 2.00                  | 2.00                 | 0.00                | 284.15  |                 |
| 9,122.76             | 10.00           | 284.15      | 9,106.70            | 48.44      | -192.15    | 0.00                  | 0.00                 | 0.00                | 0.00    |                 |
| 9,622.63             | 0.00            | 179.70      | 9,604.04            | 59.07      | -234.33    | 2.00                  | -2.00                | 0.00                | 180.00  | CAL-MON MDP1 35 |
| 10,522.63            | 90.00           | 179.70      | 10,177.00           | -513.88    | -231.30    | 10.00                 | 10.00                | 0.00                | 179.70  |                 |
| 14,998.33            | 89.82           | 179.70      | 10,184.00           | -4,989.50  | -207.61    | 0.00                  | 0.00                 | 0.00                | 180.00  | CAL-MON MDP1 35 |

# Oxy Planning Report

**Database:** HOPSPP  
**Company:** ENGINEERING DESIGNS  
**Project:** PRD NM DIRECTIONAL PLANS (NAD 1983)  
**Site:** CAL-MON MDP1 35 FED  
**Well:** CAL-MON MDP1 35 FED 5H  
**Wellbore:** WB00  
**Design:** Permitting Plan

**Local Co-ordinate Reference:** Well CAL-MON MDP1 35 FED 5H  
**TVD Reference:** Datum @ 3494.60ft  
**MD Reference:** Datum @ 3494.60ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

## Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 0.00                | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 100.00              | 0.00            | 0.00        | 100.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 200.00              | 0.00            | 0.00        | 200.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 300.00              | 0.00            | 0.00        | 300.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 400.00              | 0.00            | 0.00        | 400.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 500.00              | 0.00            | 0.00        | 500.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 600.00              | 0.00            | 0.00        | 600.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 700.00              | 0.00            | 0.00        | 700.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 800.00              | 0.00            | 0.00        | 800.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 900.00              | 0.00            | 0.00        | 900.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,000.00            | 0.00            | 0.00        | 1,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,100.00            | 0.00            | 0.00        | 1,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,200.00            | 0.00            | 0.00        | 1,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,300.00            | 0.00            | 0.00        | 1,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,400.00            | 0.00            | 0.00        | 1,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,500.00            | 0.00            | 0.00        | 1,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,600.00            | 0.00            | 0.00        | 1,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,700.00            | 0.00            | 0.00        | 1,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,800.00            | 0.00            | 0.00        | 1,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,900.00            | 0.00            | 0.00        | 1,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,000.00            | 0.00            | 0.00        | 2,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,100.00            | 0.00            | 0.00        | 2,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,200.00            | 0.00            | 0.00        | 2,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,300.00            | 0.00            | 0.00        | 2,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,400.00            | 0.00            | 0.00        | 2,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,500.00            | 0.00            | 0.00        | 2,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,600.00            | 0.00            | 0.00        | 2,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,700.00            | 0.00            | 0.00        | 2,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,800.00            | 0.00            | 0.00        | 2,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,900.00            | 0.00            | 0.00        | 2,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,000.00            | 0.00            | 0.00        | 3,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,100.00            | 0.00            | 0.00        | 3,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,200.00            | 0.00            | 0.00        | 3,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,300.00            | 0.00            | 0.00        | 3,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,400.00            | 0.00            | 0.00        | 3,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,500.00            | 0.00            | 0.00        | 3,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,600.00            | 0.00            | 0.00        | 3,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,700.00            | 0.00            | 0.00        | 3,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,800.00            | 0.00            | 0.00        | 3,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,900.00            | 0.00            | 0.00        | 3,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,000.00            | 0.00            | 0.00        | 4,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,100.00            | 0.00            | 0.00        | 4,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,200.00            | 0.00            | 0.00        | 4,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,300.00            | 0.00            | 0.00        | 4,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,400.00            | 0.00            | 0.00        | 4,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,500.00            | 0.00            | 0.00        | 4,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,600.00            | 0.00            | 0.00        | 4,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,700.00            | 0.00            | 0.00        | 4,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,800.00            | 0.00            | 0.00        | 4,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,900.00            | 0.00            | 0.00        | 4,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,000.00            | 0.00            | 0.00        | 5,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,100.00            | 0.00            | 0.00        | 5,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,200.00            | 0.00            | 0.00        | 5,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,300.00            | 0.00            | 0.00        | 5,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |



# Oxy Planning Report

**Database:** HOPSPP  
**Company:** ENGINEERING DESIGNS  
**Project:** PRD NM DIRECTIONAL PLANS (NAD 1983)  
**Site:** CAL-MON MDP1 35 FED  
**Well:** CAL-MON MDP1 35 FED 5H  
**Wellbore:** WB00  
**Design:** Permitting Plan

**Local Co-ordinate Reference:** Well CAL-MON MDP1 35 FED 5H  
**TVD Reference:** Datum @ 3494.60ft  
**MD Reference:** Datum @ 3494.60ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

## Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 5,400.00            | 0.00            | 0.00        | 5,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,500.00            | 0.00            | 0.00        | 5,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,600.00            | 0.00            | 0.00        | 5,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,700.00            | 0.00            | 0.00        | 5,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,800.00            | 0.00            | 0.00        | 5,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,900.00            | 0.00            | 0.00        | 5,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,000.00            | 0.00            | 0.00        | 6,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,100.00            | 0.00            | 0.00        | 6,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,200.00            | 0.00            | 0.00        | 6,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,300.00            | 0.00            | 0.00        | 6,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,400.00            | 0.00            | 0.00        | 6,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,500.00            | 0.00            | 0.00        | 6,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,600.00            | 0.00            | 0.00        | 6,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,700.00            | 0.00            | 0.00        | 6,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,800.00            | 0.00            | 0.00        | 6,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,900.00            | 0.00            | 0.00        | 6,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,000.00            | 0.00            | 0.00        | 7,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,100.00            | 0.00            | 0.00        | 7,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,200.00            | 0.00            | 0.00        | 7,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,300.00            | 0.00            | 0.00        | 7,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,400.00            | 0.00            | 0.00        | 7,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,500.00            | 0.00            | 0.00        | 7,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,600.00            | 0.00            | 0.00        | 7,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,700.00            | 0.00            | 0.00        | 7,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,732.00            | 0.00            | 0.00        | 7,732.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,800.00            | 1.36            | 284.15      | 7,799.99            | 0.20       | -0.78      | -0.16                 | 2.00                  | 2.00                 | 0.00                |
| 7,900.00            | 3.36            | 284.15      | 7,899.90            | 1.20       | -4.78      | -1.00                 | 2.00                  | 2.00                 | 0.00                |
| 8,000.00            | 5.36            | 284.15      | 7,999.61            | 3.06       | -12.15     | -2.55                 | 2.00                  | 2.00                 | 0.00                |
| 8,100.00            | 7.36            | 284.15      | 8,098.99            | 5.77       | -22.89     | -4.81                 | 2.00                  | 2.00                 | 0.00                |
| 8,200.00            | 9.36            | 284.15      | 8,197.92            | 9.32       | -36.98     | -7.78                 | 2.00                  | 2.00                 | 0.00                |
| 8,231.88            | 10.00           | 284.15      | 8,229.34            | 10.63      | -42.18     | -8.87                 | 2.00                  | 2.00                 | 0.00                |
| 8,300.00            | 10.00           | 284.15      | 8,296.43            | 13.52      | -53.65     | -11.28                | 0.00                  | 0.00                 | 0.00                |
| 8,400.00            | 10.00           | 284.15      | 8,394.91            | 17.77      | -70.48     | -14.82                | 0.00                  | 0.00                 | 0.00                |
| 8,500.00            | 10.00           | 284.15      | 8,493.40            | 22.01      | -87.32     | -18.36                | 0.00                  | 0.00                 | 0.00                |
| 8,600.00            | 10.00           | 284.15      | 8,591.88            | 26.26      | -104.15    | -21.90                | 0.00                  | 0.00                 | 0.00                |
| 8,700.00            | 10.00           | 284.15      | 8,690.36            | 30.50      | -120.98    | -25.44                | 0.00                  | 0.00                 | 0.00                |
| 8,800.00            | 10.00           | 284.15      | 8,788.84            | 34.74      | -137.82    | -28.98                | 0.00                  | 0.00                 | 0.00                |
| 8,900.00            | 10.00           | 284.15      | 8,887.32            | 38.99      | -154.65    | -32.52                | 0.00                  | 0.00                 | 0.00                |
| 9,000.00            | 10.00           | 284.15      | 8,985.80            | 43.23      | -171.49    | -36.06                | 0.00                  | 0.00                 | 0.00                |
| 9,100.00            | 10.00           | 284.15      | 9,084.29            | 47.47      | -188.32    | -39.60                | 0.00                  | 0.00                 | 0.00                |
| 9,122.76            | 10.00           | 284.15      | 9,106.70            | 48.44      | -192.15    | -40.41                | 0.00                  | 0.00                 | 0.00                |
| 9,200.00            | 8.45            | 284.15      | 9,182.94            | 51.47      | -204.16    | -42.93                | 2.00                  | -2.00                | 0.00                |
| 9,300.00            | 6.45            | 284.15      | 9,282.09            | 54.64      | -216.74    | -45.58                | 2.00                  | -2.00                | 0.00                |
| 9,400.00            | 4.45            | 284.15      | 9,381.63            | 56.96      | -225.95    | -47.52                | 2.00                  | -2.00                | 0.00                |
| 9,500.00            | 2.45            | 284.15      | 9,481.44            | 58.43      | -231.79    | -48.74                | 2.00                  | -2.00                | 0.00                |
| 9,600.00            | 0.45            | 284.15      | 9,581.41            | 59.05      | -234.25    | -49.26                | 2.00                  | -2.00                | 0.00                |
| 9,622.63            | 0.00            | 179.70      | 9,604.04            | 59.07      | -234.33    | -49.28                | 2.00                  | -2.00                | 0.00                |
| 9,700.00            | 7.74            | 179.70      | 9,681.17            | 53.86      | -234.31    | -44.07                | 10.00                 | 10.00                | 0.00                |
| 9,800.00            | 17.74           | 179.70      | 9,778.59            | 31.84      | -234.19    | -22.08                | 10.00                 | 10.00                | 0.00                |
| 9,900.00            | 27.74           | 179.70      | 9,870.70            | -6.76      | -233.98    | 16.48                 | 10.00                 | 10.00                | 0.00                |
| 10,000.00           | 37.74           | 179.70      | 9,954.71            | -60.77     | -233.70    | 70.43                 | 10.00                 | 10.00                | 0.00                |
| 10,100.00           | 47.74           | 179.70      | 10,028.06           | -128.55    | -233.34    | 138.14                | 10.00                 | 10.00                | 0.00                |
| 10,200.00           | 57.74           | 179.70      | 10,088.54           | -208.03    | -232.92    | 217.53                | 10.00                 | 10.00                | 0.00                |
| 10,300.00           | 67.74           | 179.70      | 10,134.29           | -296.81    | -232.45    | 306.21                | 10.00                 | 10.00                | 0.00                |



# Oxy Planning Report

**Database:** HOPSPP  
**Company:** ENGINEERING DESIGNS  
**Project:** PRD NM DIRECTIONAL PLANS (NAD 1983)  
**Site:** CAL-MON MDP1 35 FED  
**Well:** CAL-MON MDP1 35 FED 5H  
**Wellbore:** WB00  
**Design:** Permitting Plan

**Local Co-ordinate Reference:** Well CAL-MON MDP1 35 FED 5H  
**TVD Reference:** Datum @ 3494.60ft  
**MD Reference:** Datum @ 3494.60ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 10,400.00           | 77.74           | 179.70      | 10,163.92           | -392.18    | -231.94    | 401.48                | 10.00                 | 10.00                | 0.00                |
| 10,500.00           | 87.74           | 179.70      | 10,176.55           | -491.25    | -231.42    | 500.45                | 10.00                 | 10.00                | 0.00                |
| 10,522.63           | 90.00           | 179.70      | 10,177.00           | -513.88    | -231.30    | 523.05                | 10.00                 | 10.00                | 0.00                |
| 10,600.00           | 90.00           | 179.70      | 10,177.00           | -591.24    | -230.89    | 600.33                | 0.00                  | 0.00                 | 0.00                |
| 10,700.00           | 89.99           | 179.70      | 10,177.01           | -691.24    | -230.36    | 700.22                | 0.00                  | 0.00                 | 0.00                |
| 10,800.00           | 89.99           | 179.70      | 10,177.02           | -791.24    | -229.83    | 800.11                | 0.00                  | 0.00                 | 0.00                |
| 10,900.00           | 89.98           | 179.70      | 10,177.05           | -891.24    | -229.30    | 900.00                | 0.00                  | 0.00                 | 0.00                |
| 11,000.00           | 89.98           | 179.70      | 10,177.08           | -991.24    | -228.77    | 999.89                | 0.00                  | 0.00                 | 0.00                |
| 11,100.00           | 89.98           | 179.70      | 10,177.11           | -1,091.24  | -228.24    | 1,099.78              | 0.00                  | 0.00                 | 0.00                |
| 11,200.00           | 89.97           | 179.70      | 10,177.16           | -1,191.23  | -227.72    | 1,199.67              | 0.00                  | 0.00                 | 0.00                |
| 11,300.00           | 89.97           | 179.70      | 10,177.21           | -1,291.23  | -227.19    | 1,299.56              | 0.00                  | 0.00                 | 0.00                |
| 11,400.00           | 89.96           | 179.70      | 10,177.27           | -1,391.23  | -226.66    | 1,399.45              | 0.00                  | 0.00                 | 0.00                |
| 11,500.00           | 89.96           | 179.70      | 10,177.33           | -1,491.23  | -226.13    | 1,499.34              | 0.00                  | 0.00                 | 0.00                |
| 11,600.00           | 89.96           | 179.70      | 10,177.40           | -1,591.23  | -225.60    | 1,599.23              | 0.00                  | 0.00                 | 0.00                |
| 11,700.00           | 89.95           | 179.70      | 10,177.48           | -1,691.23  | -225.07    | 1,699.12              | 0.00                  | 0.00                 | 0.00                |
| 11,800.00           | 89.95           | 179.70      | 10,177.57           | -1,791.23  | -224.54    | 1,799.01              | 0.00                  | 0.00                 | 0.00                |
| 11,900.00           | 89.94           | 179.70      | 10,177.66           | -1,891.22  | -224.01    | 1,898.90              | 0.00                  | 0.00                 | 0.00                |
| 12,000.00           | 89.94           | 179.70      | 10,177.76           | -1,991.22  | -223.48    | 1,998.79              | 0.00                  | 0.00                 | 0.00                |
| 12,100.00           | 89.94           | 179.70      | 10,177.87           | -2,091.22  | -222.95    | 2,098.68              | 0.00                  | 0.00                 | 0.00                |
| 12,200.00           | 89.93           | 179.70      | 10,177.98           | -2,191.22  | -222.42    | 2,198.57              | 0.00                  | 0.00                 | 0.00                |
| 12,300.00           | 89.93           | 179.70      | 10,178.10           | -2,291.22  | -221.89    | 2,298.46              | 0.00                  | 0.00                 | 0.00                |
| 12,400.00           | 89.92           | 179.70      | 10,178.23           | -2,391.22  | -221.36    | 2,398.35              | 0.00                  | 0.00                 | 0.00                |
| 12,500.00           | 89.92           | 179.70      | 10,178.36           | -2,491.21  | -220.83    | 2,498.24              | 0.00                  | 0.00                 | 0.00                |
| 12,600.00           | 89.92           | 179.70      | 10,178.51           | -2,591.21  | -220.31    | 2,598.13              | 0.00                  | 0.00                 | 0.00                |
| 12,700.00           | 89.91           | 179.70      | 10,178.66           | -2,691.21  | -219.78    | 2,698.02              | 0.00                  | 0.00                 | 0.00                |
| 12,800.00           | 89.91           | 179.70      | 10,178.81           | -2,791.21  | -219.25    | 2,797.91              | 0.00                  | 0.00                 | 0.00                |
| 12,900.00           | 89.90           | 179.70      | 10,178.97           | -2,891.21  | -218.72    | 2,897.80              | 0.00                  | 0.00                 | 0.00                |
| 13,000.00           | 89.90           | 179.70      | 10,179.14           | -2,991.21  | -218.19    | 2,997.69              | 0.00                  | 0.00                 | 0.00                |
| 13,100.00           | 89.90           | 179.70      | 10,179.32           | -3,091.21  | -217.66    | 3,097.58              | 0.00                  | 0.00                 | 0.00                |
| 13,200.00           | 89.89           | 179.70      | 10,179.50           | -3,191.20  | -217.13    | 3,197.47              | 0.00                  | 0.00                 | 0.00                |
| 13,300.00           | 89.89           | 179.70      | 10,179.69           | -3,291.20  | -216.60    | 3,297.36              | 0.00                  | 0.00                 | 0.00                |
| 13,400.00           | 89.88           | 179.70      | 10,179.89           | -3,391.20  | -216.07    | 3,397.25              | 0.00                  | 0.00                 | 0.00                |
| 13,500.00           | 89.88           | 179.70      | 10,180.10           | -3,491.20  | -215.54    | 3,497.14              | 0.00                  | 0.00                 | 0.00                |
| 13,600.00           | 89.88           | 179.70      | 10,180.31           | -3,591.20  | -215.01    | 3,597.03              | 0.00                  | 0.00                 | 0.00                |
| 13,700.00           | 89.87           | 179.70      | 10,180.53           | -3,691.20  | -214.48    | 3,696.92              | 0.00                  | 0.00                 | 0.00                |
| 13,800.00           | 89.87           | 179.70      | 10,180.75           | -3,791.19  | -213.95    | 3,796.81              | 0.00                  | 0.00                 | 0.00                |
| 13,900.00           | 89.86           | 179.70      | 10,180.99           | -3,891.19  | -213.42    | 3,896.70              | 0.00                  | 0.00                 | 0.00                |
| 14,000.00           | 89.86           | 179.70      | 10,181.22           | -3,991.19  | -212.90    | 3,996.59              | 0.00                  | 0.00                 | 0.00                |
| 14,100.00           | 89.86           | 179.70      | 10,181.47           | -4,091.19  | -212.37    | 4,096.48              | 0.00                  | 0.00                 | 0.00                |
| 14,200.00           | 89.85           | 179.70      | 10,181.73           | -4,191.19  | -211.84    | 4,196.37              | 0.00                  | 0.00                 | 0.00                |
| 14,300.00           | 89.85           | 179.70      | 10,181.99           | -4,291.19  | -211.31    | 4,296.26              | 0.00                  | 0.00                 | 0.00                |
| 14,400.00           | 89.84           | 179.70      | 10,182.25           | -4,391.18  | -210.78    | 4,396.15              | 0.00                  | 0.00                 | 0.00                |
| 14,500.00           | 89.84           | 179.70      | 10,182.53           | -4,491.18  | -210.25    | 4,496.04              | 0.00                  | 0.00                 | 0.00                |
| 14,600.00           | 89.84           | 179.70      | 10,182.81           | -4,591.18  | -209.72    | 4,595.93              | 0.00                  | 0.00                 | 0.00                |
| 14,700.00           | 89.83           | 179.70      | 10,183.10           | -4,691.18  | -209.19    | 4,695.82              | 0.00                  | 0.00                 | 0.00                |
| 14,800.00           | 89.83           | 179.70      | 10,183.39           | -4,791.18  | -208.66    | 4,795.71              | 0.00                  | 0.00                 | 0.00                |
| 14,900.00           | 89.82           | 179.70      | 10,183.70           | -4,891.18  | -208.13    | 4,895.60              | 0.00                  | 0.00                 | 0.00                |
| 14,998.33           | 89.82           | 179.70      | 10,184.00           | -4,989.50  | -207.61    | 4,993.82              | 0.00                  | 0.00                 | 0.00                |

# Oxy Planning Report

|                  |                                     |                                     |                             |
|------------------|-------------------------------------|-------------------------------------|-----------------------------|
| <b>Database:</b> | HOPSPP                              | <b>Local Co-ordinate Reference:</b> | Well CAL-MON MDP1 35 FED 5H |
| <b>Company:</b>  | ENGINEERING DESIGNS                 | <b>TVD Reference:</b>               | Datum @ 3494.60ft           |
| <b>Project:</b>  | PRD NM DIRECTIONAL PLANS (NAD 1983) | <b>MD Reference:</b>                | Datum @ 3494.60ft           |
| <b>Site:</b>     | CAL-MON MDP1 35 FED                 | <b>North Reference:</b>             | Grid                        |
| <b>Well:</b>     | CAL-MON MDP1 35 FED 5H              | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Wellbore:</b> | WB00                                |                                     |                             |
| <b>Design:</b>   | Permitting Plan                     |                                     |                             |

| Design Targets                                          |                  |                 |             |               |               |                    |                   |                     |                    |
|---------------------------------------------------------|------------------|-----------------|-------------|---------------|---------------|--------------------|-------------------|---------------------|--------------------|
| Target Name<br>- hit/miss target<br>- Shape             | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Northing<br>(usft) | Easting<br>(usft) | Latitude            | Longitude          |
| CAL-MON MDP1 35<br>- plan hits target center<br>- Point | 0.00             | 0.00            | 9,604.04    | 59.07         | -234.33       | 461,745.96         | 723,452.85        | 32° 16' 4.944322 N  | 103° 44' 38.852854 |
| CAL-MON MDP1 35<br>- plan hits target center<br>- Point | 0.00             | 0.00            | 10,184.00   | -4,989.50     | -207.61       | 456,697.66         | 723,479.57        | 32° 15' 14.987509 N | 103° 44' 38.864405 |

| Plan Annotations          |                           |                   |               |                                |
|---------------------------|---------------------------|-------------------|---------------|--------------------------------|
| Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Local Coordinates |               | Comment                        |
|                           |                           | +N/-S<br>(ft)     | +E/-W<br>(ft) |                                |
| 7,732.00                  | 7,732.00                  | 0.00              | 0.00          | STEP OUT DLS 2.00              |
| 8,231.88                  | 8,229.34                  | 10.63             | -42.18        | HOLD 10 DEG TANGENT            |
| 9,122.76                  | 9,106.70                  | 48.44             | -192.15       | DROP BACK TO VERTICAL DLS 2.00 |
| 9,622.63                  | 9,604.04                  | 59.07             | -234.33       | BUILD CURVE 10 DEG / 100       |
| 10,522.63                 | 10,177.00                 | -513.88           | -231.30       | LANDING POINT                  |
| 14,998.33                 | 10,184.00                 | -4,989.50         | -207.61       | TD at 14998.33                 |





**Occidental Oil and Gas Corporation**  
**ATTN: Kacie Cruz**  
**5 Greenway Plaza, Suite 110**  
**Houston, TX 77046**  
**713-350-4889**  
**kacie\_cruz@oxy.com**

September 11, 2017

Mr. Leonard Lowe  
New Mexico Oil Conservation Division  
1220 South Francis Drive  
Santa Fe, New Mexico 87505

RE: Application for Nonstandard Location—Engineering Justification  
OXY USA Inc.  
Cal-Mon MDP1 35 Federal Com #5H  
E/2 E/2 Section 35, T23S-R31E, Eddy County

Dear Mr. Lowe:

Oxy USA Inc. respectfully seeks approval for non-standard locations, increasing horizontal well spacing from 4 wells per section ("wps") to 6 wps to effectively develop the Bone Spring and Wolfcamp formations. It is Oxy's responsibility as a prudent operator to optimize well spacing for horizontal development and minimize reserves left in the ground. Increasing horizontal well spacing from 4 wps to 6 wps will optimize recoverable reserves. Any reduction in well spacing will result in untapped reserves being left in the reservoir resulting in waste of a resource that will not be developed otherwise.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kacie Cruz", is written over a faint, larger signature that appears to be "H. Cruz".

Kacie Cruz  
Development Production Engineer



## **Lowe, Leonard, EMNRD**

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**From:** Lowe, Leonard, EMNRD  
**Sent:** Wednesday, October 11, 2017 9:16 AM  
**To:** 'Sarah\_Mitchell@oxy.com'  
**Cc:** Brown, Maxey G, EMNRD; Kautz, Paul, EMNRD; Sharp, Karen, EMNRD; 'jglover@blm.gov'; 'scaffey@blm.gov'; 'jstovall@blm.gov'; 'lisa@rwbyram.com'; Jones, William V, EMNRD; McMillan, Michael, EMNRD; Goetze, Phillip, EMNRD  
**Subject:** APPROVED NSL-7592 & NSL-7593\_OXY USA INC\_Cal-Mon MDP1 35 Federal No. 2H & 5H\_SEC35 23S 31E  
  
**Importance:** High

Ms. Sarah Mitchell,

The following administrative orders have been issued and will soon be available on the Division's web site:

<http://ocdimage.emnrd.state.nm.us/Imaging/Default.aspx>

### **NSL-7592**

Oxy USA, Inc.

API #: 30-025-Pending

WELL: Cal-Mon MDP1 35 Federal No. 2H

### **NSL-7593**

Oxy USA, Inc.

API #: 30-025-Pending

WELL: Cal-Mon MDP1 35 Federal No. 5H

### **Leonard Lowe**

Engineering Bureau

Oil Conservation Division

Energy Minerals and Natural Resources Department

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