

RECEIVED: 10/19/17	REVIEWER: LRL	TYPE: NSL	APP NO: PLEL1729761380
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

11/9/17

2017 OCT 19

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Geological & Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**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:** Nimitz MDP1 12 Federal Com #7H **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-7570-A

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
- A. Location - Spacing Unit - Simultaneous Dedication  
 NSL **AMENDED**  NSP (PROJECT AREA)  NSP (PRORATION UNIT)  SD  
**NSL-7570 - A**
- 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	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	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

10/12/2017  
 \_\_\_\_\_  
 Date

432-699-4318  
 \_\_\_\_\_  
 Phone Number

Sarah\_mitchell@oxy.com  
 \_\_\_\_\_  
 e-mail Address



OXY USA Inc

PO Box 50250  
Midland, TX 79710-0250

October 12, 2017

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

Attention: Leonard Lowe

Re: **NSL-7570**  
**AMENDED Application for Administrative Approval of Non-Standard Location –**  
**Nimitz MDP1 12 Federal Com #7H – Cotton Draw; Bone Spring**  
**Surface – 379 FSL 868 FEL Ut P Sec 12 T24S R30E**  
**Top Perforation – 340 FSL 1270 FEL Ut P Sec 12 T24S R30E**  
**Bottom Perforation – 340 FNL 1270 FEL Ut 1 Sec 1 T24S R30E**  
**Bottom Hole –180 FNL 1270 FEL Ut 1 Sec 1 T24S R30E**  
**Eddy County, New Mexico**

Dear Mr. Lowe:

OXY USA Inc. respectfully requests administrative approval to amend the non-standard location order NSL-7570 for the Nimitz MDP1 12 Federal Com #7H well, API Number-30-015-Pending, Property Code Pending to account for an increase in the well lateral length. The #7H 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 – 379 FSL 868 FEL Ut P Sec 12 T24S R30E  
Top Perforation – 340 FSL 1270 FEL Ut P Sec 12 T24S R30E  
Bottom Perforation – 340 FNL 1270 FEL Ut 1 Sec 1 T24S R30E  
Bottom Hole –180 FNL 1270 FEL Ut 1 Sec 1 T24S R30E

The adjoining spacing units toward which the unorthodox location encroaches are located in T23S R30E, Section 36- Unit O, T24S R30E, Section 1–Units 2, G, J, O ; Section 12 – Units B, G, J, O; Section 13- Unit B. Affected parties located in Section 12-Units B, G, J, O, and Section 13- Unit B have previously received notice in the original NSL-7570 application.

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

October 12, 2017

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Re: ***NSL-7570  
AMENDED Application for Administrative Approval of Non-Standard Location –  
Nimitz MDP1 12 Federal Com #7H – Cotton Draw; Bone Spring  
Surface – 379 FSL 868 FEL Ut P Sec 12 T24S R30E  
Top Perforation – 340 FSL 1270 FEL Ut P Sec 12 T24S R30E  
Bottom Perforation – 340 FNL 1270 FEL Ut 1 Sec 1 T24S R30E  
Bottom Hole –180 FNL 1270 FEL Ut 1 Sec 1 T24S R30E  
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 – 379 FSL 868 FEL Ut P Sec 12 T24S R30E  
Top Perforation – 340 FSL 1270 FEL Ut P Sec 12 T24S R30E  
Bottom Perforation – 340 FNL 1270 FEL Ut 1 Sec 1 T24S R30E  
Bottom Hole –180 FNL 1270 FEL Ut 1 Sec 1 T24S R30E

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**

1a. Type of work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No.
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		8. Lease Name and Well No. NIMITZ MDP 1 12 FEDERAL COM 7H
2. Name of Operator OXY USA INC		9. API Well No.
3a. Address 5 Greenway Plaza, Suite 110 Houston TX 770	3b. Phone No. (include area code) (713)366-5716	10. Field and Pool, or Exploratory COTTON DRAW BONE SPRING / 2ND I
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface SESE / 379 FSL / 868 FEL / LAT 32.2261861 / LONG -103.8284722 At proposed prod. zone NENE / 180 FNL / 1270 FEL / LAT 32.2391139 / LONG -103.829764		11. Sec., T. R. M. or Blk. and Survey or Area SEC 12 / T24S / R30E / NMP
14. Distance in miles and direction from nearest town or post office* 15 miles		12. County or Parish EDDY
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drng. unit line, if any) 110 feet		13. State NM
16. No. of acres in lease 880	17. Spacing Unit dedicated to this well 160	
18. Distance from proposed location* to nearest well, drilling, completed, 30 feet applied for, on this lease, ft.	19. Proposed Depth 9968 feet / 14723 feet	20. BLM/BIA Bond No. on file FED: ESB000226
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3526 feet	22. Approximate date work will start* 07/02/2018	23. Estimated duration 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.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.  | 5. Operator certification   |
| 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). | 6. Such other site specific information and/or plans as may be required by the BLM.             |

25. Signature (Electronic Submission)	Name (Printed/Typed) Sarah Mitchell / Ph: (432)699-4318	Date 06/21/2017
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Title  
Regulatory Specialist

Approved by (Signature)	Name (Printed/Typed)	Date
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Title	Office CARLSBAD
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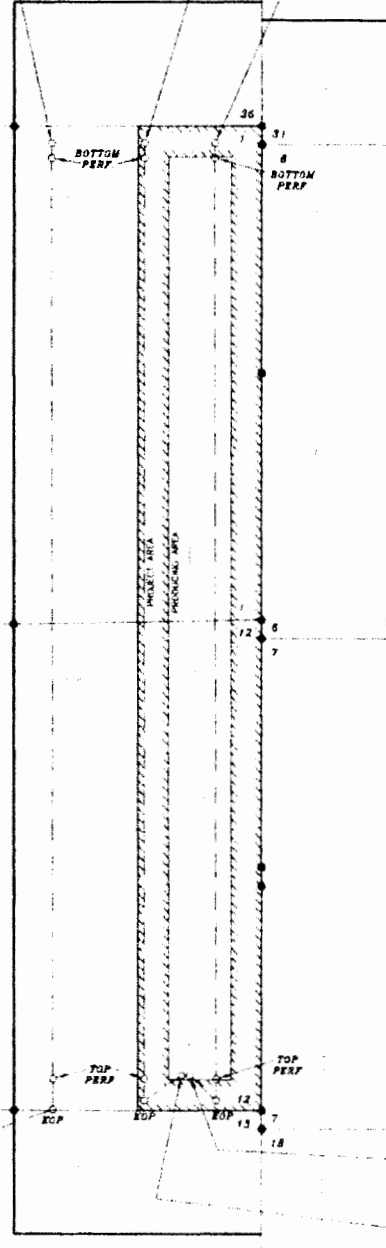
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

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.

**OXY USA INC.**  
**NIMITZ MDP1 "12" FEDERAL #7H**  
**SECTIONS 1, 12 & 13, T24S, R30E,**  
**SECTIONS 6, 7 & 18, T24S, R31E,**  
**SECTION 36, T23S, R30E AND SECTION 31, T23S, R31E,**  
**N.M.P.M., EDDY COUNTY, NEW MEXICO**



#6H BOTTOM HOLE LOCATION     
 #7H BOTTOM HOLE LOCATION     
 #8H BOTTOM HOLE LOCATION



SURFACE LOCATION  
 NIMITZ MDP1 "12"  
 FEDERAL #6H

SURFACE LOCATION  
 NIMITZ MDP1 "12"  
 FEDERAL #6H

SURFACE LOCATION  
 NIMITZ MDP1 "12"  
 FEDERAL #7H

**SURVEYORS CERTIFICATE**

I, TERRY J. ASEEL, 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. Aseel* 10/11/2007  
 Terry J. Aseel N.M.P.L.S. No. 15079

**Asel Surveying**

P.O. BOX 397 - 310 W TAYLOR  
 HOBBS, NEW MEXICO 575-343-9146



District I  
1623 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-6172  
District II  
811 E. First St., Arroyo, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Grande Road, Aztec, NM 87412  
Phone: (505) 334-6178 Fax: (505) 334-6177  
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 30-015-	Pool Code 13367	Pool Name Cotton Draw, Bone Spring
Property Code	Property Name <b>NIMITZ MDP1 "12" FEDERAL COM</b>	Well Number 7H
OGRID No. 16696	Operator Name <b>OXY USA INC.</b>	Elevation 3525.9'

**Surface Location**

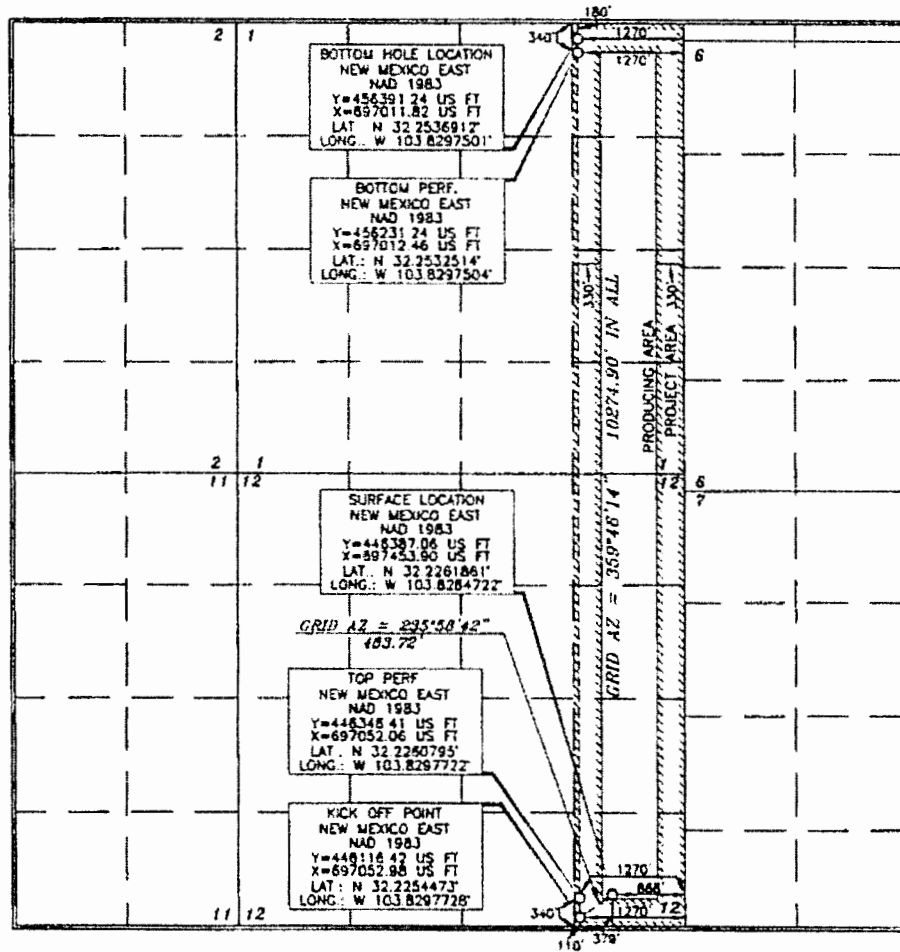
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	12	24 SOUTH	30 EAST, N.M.P.M		379'	SOUTH	868'	EAST	EDDY

**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
1	1	24 SOUTH	30 EAST, N.M.P.M		180'	NORTH	1270'	EAST	EDDY

Dedicated Acres 320	Joint or Infill Y	Consolidation Code	Order No. NSL will be filed
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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 on 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.

Administrative entered by the division

Sarah Mitchell 9/27/2017  
Signature Date

Sarah Mitchell  
Printed Name  
sarah\_mitchell@oxy.com  
E-mail Address

**SURVEYOR CERTIFICATION**

I hereby certify that the survey shown on this plat was prepared by me or under my direct supervision and that the same is true and correct to the best of my belief.

DATE OF SURVEY: APRIL 10, 2017

Signature and Seal of Professional Land Surveyor

Tommy Paul 8/28/2017  
Certificate Number 15079

District I  
 1423 N. French Dr., Hobbs, NM 88240  
 Phone: (575) 393-5161 Fax: (575) 393-0720  
 District II  
 811 S. First St., Aramis, NM 88210  
 Phone: (575) 748-1243 Fax: (575) 748-9720  
 District III  
 1000 Rio Grande Road, Aztec, NM 87411  
 Phone: (505) 334-4178 Fax: (505) 334-4170  
 District IV  
 1229 S. St. Francis Dr., Santa Fe, NM 87501  
 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 30-015-	Pool Code 13367	Pool Name Cotton Draw, Bone Spring
Property Code	Property Name <b>NIMITZ MDP1 "12" FEDERAL COM</b>	
Well Number 6H	Operator Name <b>OXY USA INC.</b>	
OGRID No. 16696	Elevation 3526.0'	

**Surface Location**

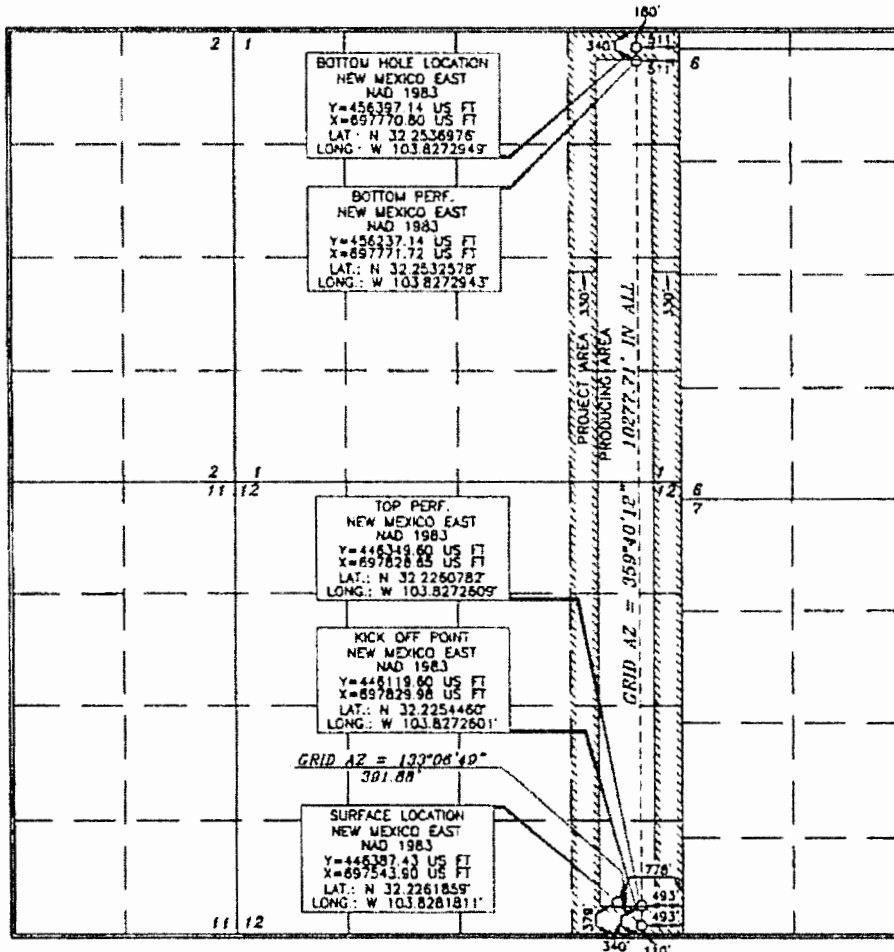
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North-South line	Feet from the	East-West line	County
P	12	24 SOUTH	30 EAST, N.M.P.M.		379	SOUTH	778'	EAST	EDDY

**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
1	1	24 SOUTH	30 EAST, N.M.P.M.		180	NORTH	511'	EAST	EDDY

Dedicated Acres 320	Joint or Infill Y	Consolidation Code	Order No.
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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 hereinafter entered by the division.

Signature: Sarah Mitchell Date: 9/27/2017  
 Printed Name: Sarah Mitchell  
 E-mail Address: sarah\_mitchell@oxy.com

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**SURVEYOR CERTIFICATION**

I hereby certify that the information shown on this plat was obtained from the records of records surveys made by me or under my supervision and that the same is true and correct to the best of my belief.

Date of Survey: APRIL 10, 2017  
 Signature and Seal: ERRY J. ASH  
 Professional Surveyor License No. 15079

Certificate Number: 15079  
 WDJ 160114WL-c (Rev. C) (XA)

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Aramis, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Bravo Road, Alamogordo, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87503  
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 30-015-	Pool Code 13367	Pool Name Cotton Draw; Bone Spring
Property Code	Property Name NIMITZ MDP1 "12" FEDERAL	Well Number 8H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3506.7'

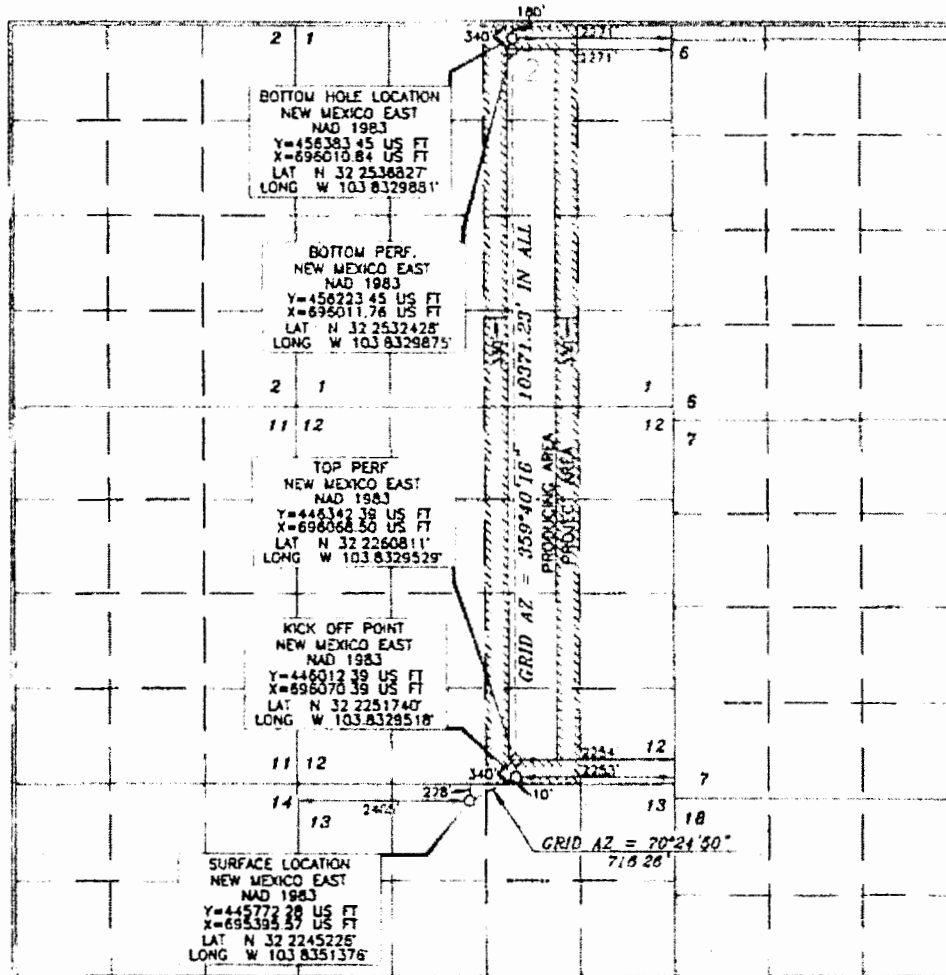
**Surface Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	13	24 SOUTH	30 EAST, N.M.P.M.		228'	NORTH	2405'	WEST	EDDY

**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
2	1	24 SOUTH	30 EAST, N.M.P.M.		180'	NORTH	2271'	EAST	EDDY
Dedicated Acres 320	Joint or Infill Y	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 undivided 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 as approved by the division.

*Sarah Mitchell*  
Signature  
Sarah Mitchell  
Printed Name  
sarah-mitchell@oxy.com  
E-mail Address

**SURVEYOR CERTIFICATION**

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

*Tommy J. Paul*  
Signature  
Professional Surveyor  
Date of Survey  
JANUARY 12, 2011  
Certificate Number  
15079



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

**OXY USA Inc.**

**Nimitz MDP1 12 Federal Com #7H**

New Mexico Oil Conservation Division  
811 S. First St.  
Artesia, NM 88210  
7017 0190 0000 4588 1092

New Mexico State Land Office  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501  
7017 0190 0000 4588 1146

New Mexico Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505  
7017 0190 0000 4588 1108

United States Dept of Interior  
Bureau of Land Management  
620 E. Greene Street  
Carlsbad, NM 88220  
7017 0190 0000 4588 1115

**T23S R 30E**

**Section 36- Unit O** ✓

BMT O&G NM, LLC- Lessee  
201 Main Street  
Suite 2700  
Fort Worth, Texas 76102  
**WI % unknown**  
7017 0190 0000 4588 1122

BEPCO, LP- Lessee  
201 Main Street  
Suite 2700  
Fort Worth, Texas 76102  
**WI % unknown**  
7017 0190 0000 4588 1139

**T24S R30E**

**Section 1 - Units O, P** ?

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

**Section 12- Units 1, 2, G, H, I, J, O, P (Previously notified in NSL-7570)**

OXY USA Inc. -**60% WI**  
P.O. Box 50250  
Midland, Texas 79710

EOG Resources, Inc. - **40% WI**  
P.O. Box 2267  
Midland, Texas 79702

**Section 13- Unit B (Previously notified in NSL 7570)**

OXY USA Inc. -**60% WI**  
P.O. Box 50250  
Midland, Texas 79710

EOG Resources, Inc. - **40% WI**  
P.O. Box 2267  
Midland, Texas 79702

Copies of this application were mailed to the following individuals, companies and organizations on or before  
12-Oct-2017

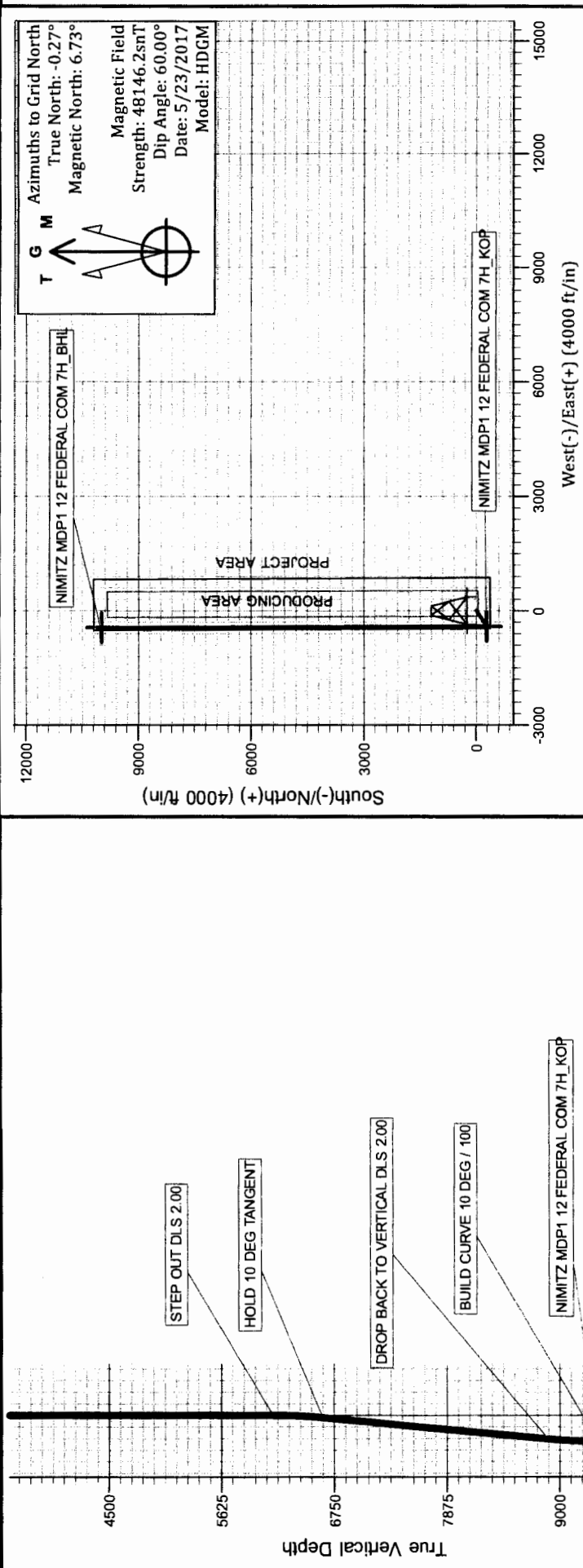


Sarah Mitchell  
OXY USA Inc.

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)  
 Site: NIMITZ MDP1 12 FEDERAL.COM  
 Well: NIMITZ MDP1 12 FEDERAL.COM 7H  
 Wellbore: WB00  
 Design: Permitting Plan

**WELL DETAILS: NIMITZ MDP1 12 FEDERAL.COM 7H**

+N/-S    +E/-W    Northing    Easting    Ground Level:    Latitude    Longitude  
 0.00    0.00    446387.06    697453.90    3525.90    32° 13' 34.269848 N    103° 49' 42.499828 W  
 Datum @ 3552.40ft



**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	VFace	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	6140.00	0.00	0.00	6140.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	6639.94	10.00	235.98	6637.40	-24.34	-36.06	2.00	235.98	-22.73	-22.73	STEP OUT DLS 2.00
4	8924.88	10.00	235.98	8887.64	-246.31	-364.88	0.00	0.00	-229.96	-229.96	HOLD 10 DEG TANGENT
5	9424.81	0.00	359.77	9385.04	-270.66	-400.95	2.00	180.00	-252.69	-252.69	DROP BACK TO VERTICAL DLS 2.00
6	10324.81	90.00	359.77	9958.00	302.30	-403.24	10.00	-0.23	319.80	319.80	BUILD CURVE 10 DEG / 100
7	20027.43	90.01	359.77	9957.00	10004.83	-442.11	0.00	0.00	10014.59	10014.59	LANDING POINT TD at 20027.43

# Oxy Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well NIMITZ MDP1 12 FEDERAL COM 7H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	Datum @ 3552.40ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	Datum @ 3552.40ft
<b>Site:</b>	NIMITZ MDP1 12 FEDERAL COM	<b>North Reference:</b>	Grid
<b>Well:</b>	NIMITZ MDP1 12 FEDERAL COM 7H	<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> NIMITZ MDP1 12 FEDERAL COM					
<b>Site Position:</b>		<b>Northing:</b>	446,387.43 usft	<b>Latitude:</b>	32° 13' 34.269322 N
<b>From:</b>	Map	<b>Easting:</b>	697,543.92 usft	<b>Longitude:</b>	103° 49' 41.451834 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b>	0.27 °

<b>Well</b> NIMITZ MDP1 12 FEDERAL COM 7H						
<b>Well Position</b>	<b>+N-S</b>	-0.37 ft	<b>Northing:</b>	446,387.06 usft	<b>Latitude:</b>	32° 13' 34.269848 N
	<b>+E-W</b>	-90.03 ft	<b>Easting:</b>	697,453.90 usft	<b>Longitude:</b>	103° 49' 42.499828 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	0.00 ft	<b>Ground Level:</b>	3,525.90 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</b>
	HDGM	5/23/2017	(°)	(°)	(nT)
			7.00	60.00	48,146

<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</b>	<b>+E-W</b>	<b>Direction</b>
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	357.47

Plan Sections										
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	
6,140.00	0.00	0.00	6,140.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,639.94	10.00	235.98	6,637.40	-24.34	-36.06	2.00	2.00	0.00	235.98	
8,924.88	10.00	235.98	8,887.64	-246.31	-364.88	0.00	0.00	0.00	0.00	
9,424.81	0.00	359.77	9,385.04	-270.66	-400.95	2.00	-2.00	0.00	180.00	NIMITZ MDP1 12
10,324.81	90.00	359.77	9,958.00	302.30	-403.24	10.00	10.00	0.00	-0.23	
20,027.43	90.01	359.77	9,957.00	10,004.83	-442.11	0.00	0.00	0.00	0.00	NIMITZ MDP1 12

# Oxy Planning Report

**Database:** HOPSPP  
**Company:** ENGINEERING DESIGNS  
**Project:** PRD NM DIRECTIONAL PLANS (NAD 1983)  
**Site:** NIMITZ MDP1 12 FEDERAL COM  
**Well:** NIMITZ MDP1 12 FEDERAL COM 7H  
**Wellbore:** WB00  
**Design:** Permitting Plan

**Local Co-ordinate Reference:** Well NIMITZ MDP1 12 FEDERAL COM 7H  
**TVD Reference:** Datum @ 3552.40ft  
**MD Reference:** Datum @ 3552.40ft  
**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:** NIMITZ MDP1 12 FEDERAL COM  
**Well:** NIMITZ MDP1 12 FEDERAL COM 7H  
**Wellbore:** WB00  
**Design:** Permitting Plan

**Local Co-ordinate Reference:** Well NIMITZ MDP1 12 FEDERAL COM 7H  
**TVD Reference:** Datum @ 3552.40ft  
**MD Reference:** Datum @ 3552.40ft  
**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
6,140.00	0.00	0.00	6,140.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	1.20	235.98	6,200.00	-0.35	-0.52	-0.33	2.00	2.00	0.00
6,300.00	3.20	235.98	6,299.92	-2.50	-3.70	-2.33	2.00	2.00	0.00
6,400.00	5.20	235.98	6,399.64	-6.60	-9.77	-6.16	2.00	2.00	0.00
6,500.00	7.20	235.98	6,499.05	-12.64	-18.72	-11.80	2.00	2.00	0.00
6,600.00	9.20	235.98	6,598.03	-20.62	-30.54	-19.25	2.00	2.00	0.00
6,639.94	10.00	235.98	6,637.40	-24.34	-36.06	-22.73	2.00	2.00	0.00
6,700.00	10.00	235.98	6,696.55	-30.18	-44.71	-28.18	0.00	0.00	0.00
6,800.00	10.00	235.98	6,795.04	-39.89	-59.10	-37.25	0.00	0.00	0.00
6,900.00	10.00	235.98	6,893.52	-49.61	-73.49	-46.32	0.00	0.00	0.00
7,000.00	10.00	235.98	6,992.00	-59.32	-87.88	-55.39	0.00	0.00	0.00
7,100.00	10.00	235.98	7,090.48	-69.04	-102.27	-64.45	0.00	0.00	0.00
7,200.00	10.00	235.98	7,188.96	-78.75	-116.66	-73.52	0.00	0.00	0.00
7,300.00	10.00	235.98	7,287.44	-88.47	-131.05	-82.59	0.00	0.00	0.00
7,400.00	10.00	235.98	7,385.92	-98.18	-145.44	-91.66	0.00	0.00	0.00
7,500.00	10.00	235.98	7,484.40	-107.89	-159.83	-100.73	0.00	0.00	0.00
7,600.00	10.00	235.98	7,582.88	-117.61	-174.22	-109.80	0.00	0.00	0.00
7,700.00	10.00	235.98	7,681.37	-127.32	-188.61	-118.87	0.00	0.00	0.00
7,800.00	10.00	235.98	7,779.85	-137.04	-203.00	-127.94	0.00	0.00	0.00
7,900.00	10.00	235.98	7,878.33	-146.75	-217.40	-137.01	0.00	0.00	0.00
8,000.00	10.00	235.98	7,976.81	-156.47	-231.79	-146.08	0.00	0.00	0.00
8,100.00	10.00	235.98	8,075.29	-166.18	-246.18	-155.15	0.00	0.00	0.00
8,200.00	10.00	235.98	8,173.77	-175.90	-260.57	-164.22	0.00	0.00	0.00
8,300.00	10.00	235.98	8,272.25	-185.61	-274.96	-173.29	0.00	0.00	0.00
8,400.00	10.00	235.98	8,370.73	-195.32	-289.35	-182.36	0.00	0.00	0.00
8,500.00	10.00	235.98	8,469.22	-205.04	-303.74	-191.43	0.00	0.00	0.00
8,600.00	10.00	235.98	8,567.70	-214.75	-318.13	-200.50	0.00	0.00	0.00
8,700.00	10.00	235.98	8,666.18	-224.47	-332.52	-209.57	0.00	0.00	0.00
8,800.00	10.00	235.98	8,764.66	-234.18	-346.91	-218.64	0.00	0.00	0.00
8,900.00	10.00	235.98	8,863.14	-243.90	-361.30	-227.71	0.00	0.00	0.00
8,924.88	10.00	235.98	8,887.64	-246.31	-364.88	-229.96	0.00	0.00	0.00
9,000.00	8.50	235.98	8,961.78	-253.07	-374.89	-236.27	2.00	-2.00	0.00
9,100.00	6.50	235.98	9,060.92	-260.37	-385.70	-243.08	2.00	-2.00	0.00
9,200.00	4.50	235.98	9,160.46	-265.72	-393.64	-248.09	2.00	-2.00	0.00
9,300.00	2.50	235.98	9,260.27	-269.14	-398.69	-251.27	2.00	-2.00	0.00
9,400.00	0.50	235.98	9,360.23	-270.60	-400.86	-252.64	2.00	-2.00	0.00
9,424.81	0.00	359.77	9,385.04	-270.66	-400.95	-252.69	2.00	-2.00	0.00
9,500.00	7.52	359.77	9,460.01	-265.73	-400.97	-247.77	10.00	10.00	0.00
9,600.00	17.52	359.77	9,557.51	-244.08	-401.05	-226.14	10.00	10.00	0.00
9,700.00	27.52	359.77	9,649.77	-205.83	-401.21	-187.92	10.00	10.00	0.00
9,800.00	37.52	359.77	9,733.98	-152.15	-401.42	-134.28	10.00	10.00	0.00
9,900.00	47.52	359.77	9,807.60	-84.65	-401.69	-66.83	10.00	10.00	0.00
10,000.00	57.52	359.77	9,868.37	-5.40	-402.01	12.36	10.00	10.00	0.00
10,100.00	67.52	359.77	9,914.46	83.21	-402.36	100.89	10.00	10.00	0.00
10,200.00	77.52	359.77	9,944.46	178.47	-402.75	196.07	10.00	10.00	0.00
10,300.00	87.52	359.77	9,957.46	277.49	-403.14	295.02	10.00	10.00	0.00

## Oxy Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well NIMITZ MDP1 12 FEDERAL COM 7H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	Datum @ 3552.40ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	Datum @ 3552.40ft
<b>Site:</b>	NIMITZ MDP1 12 FEDERAL COM	<b>North Reference:</b>	Grid
<b>Well:</b>	NIMITZ MDP1 12 FEDERAL COM 7H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WB00		
<b>Design:</b>	Permitting Plan		

### 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)
10,324.81	90.00	359.77	9,958.00	302.30	-403.24	319.80	10.00	10.00	0.00
10,400.00	90.00	359.77	9,958.00	377.48	-403.54	394.93	0.00	0.00	0.00
10,500.00	90.00	359.77	9,958.00	477.48	-403.94	494.85	0.00	0.00	0.00
10,600.00	90.00	359.77	9,958.00	577.48	-404.34	594.77	0.00	0.00	0.00
10,700.00	90.00	359.77	9,958.00	677.48	-404.74	694.69	0.00	0.00	0.00
10,800.00	90.00	359.77	9,958.00	777.48	-405.14	794.61	0.00	0.00	0.00
10,900.00	90.00	359.77	9,958.00	877.48	-405.55	894.52	0.00	0.00	0.00
11,000.00	90.00	359.77	9,958.00	977.48	-405.95	994.44	0.00	0.00	0.00
11,100.00	90.00	359.77	9,957.99	1,077.48	-406.35	1,094.36	0.00	0.00	0.00
11,200.00	90.00	359.77	9,957.99	1,177.47	-406.75	1,194.28	0.00	0.00	0.00
11,300.00	90.00	359.77	9,957.99	1,277.47	-407.15	1,294.20	0.00	0.00	0.00
11,400.00	90.00	359.77	9,957.99	1,377.47	-407.55	1,394.12	0.00	0.00	0.00
11,500.00	90.00	359.77	9,957.99	1,477.47	-407.95	1,494.04	0.00	0.00	0.00
11,600.00	90.00	359.77	9,957.98	1,577.47	-408.35	1,593.96	0.00	0.00	0.00
11,700.00	90.00	359.77	9,957.98	1,677.47	-408.75	1,693.88	0.00	0.00	0.00
11,800.00	90.00	359.77	9,957.98	1,777.47	-409.15	1,793.80	0.00	0.00	0.00
11,900.00	90.00	359.77	9,957.97	1,877.47	-409.55	1,893.72	0.00	0.00	0.00
12,000.00	90.00	359.77	9,957.97	1,977.47	-409.95	1,993.64	0.00	0.00	0.00
12,100.00	90.00	359.77	9,957.97	2,077.47	-410.35	2,093.56	0.00	0.00	0.00
12,200.00	90.00	359.77	9,957.96	2,177.47	-410.75	2,193.48	0.00	0.00	0.00
12,300.00	90.00	359.77	9,957.96	2,277.47	-411.15	2,293.40	0.00	0.00	0.00
12,400.00	90.00	359.77	9,957.95	2,377.47	-411.55	2,393.32	0.00	0.00	0.00
12,500.00	90.00	359.77	9,957.95	2,477.46	-411.95	2,493.24	0.00	0.00	0.00
12,600.00	90.00	359.77	9,957.95	2,577.46	-412.36	2,593.15	0.00	0.00	0.00
12,700.00	90.00	359.77	9,957.94	2,677.46	-412.76	2,693.07	0.00	0.00	0.00
12,800.00	90.00	359.77	9,957.93	2,777.46	-413.16	2,792.99	0.00	0.00	0.00
12,900.00	90.00	359.77	9,957.93	2,877.46	-413.56	2,892.91	0.00	0.00	0.00
13,000.00	90.00	359.77	9,957.92	2,977.46	-413.96	2,992.83	0.00	0.00	0.00
13,100.00	90.00	359.77	9,957.92	3,077.46	-414.36	3,092.75	0.00	0.00	0.00
13,200.00	90.00	359.77	9,957.91	3,177.46	-414.76	3,192.67	0.00	0.00	0.00
13,300.00	90.00	359.77	9,957.91	3,277.46	-415.16	3,292.59	0.00	0.00	0.00
13,400.00	90.00	359.77	9,957.90	3,377.46	-415.56	3,392.51	0.00	0.00	0.00
13,500.00	90.00	359.77	9,957.89	3,477.46	-415.96	3,492.43	0.00	0.00	0.00
13,600.00	90.00	359.77	9,957.89	3,577.46	-416.36	3,592.35	0.00	0.00	0.00
13,700.00	90.00	359.77	9,957.88	3,677.45	-416.76	3,692.27	0.00	0.00	0.00
13,800.00	90.00	359.77	9,957.87	3,777.45	-417.16	3,792.19	0.00	0.00	0.00
13,900.00	90.00	359.77	9,957.86	3,877.45	-417.56	3,892.11	0.00	0.00	0.00
14,000.00	90.00	359.77	9,957.86	3,977.45	-417.96	3,992.03	0.00	0.00	0.00
14,100.00	90.00	359.77	9,957.85	4,077.45	-418.36	4,091.95	0.00	0.00	0.00
14,200.00	90.00	359.77	9,957.84	4,177.45	-418.76	4,191.86	0.00	0.00	0.00
14,300.00	90.00	359.77	9,957.83	4,277.45	-419.17	4,291.78	0.00	0.00	0.00
14,400.00	90.00	359.77	9,957.82	4,377.45	-419.57	4,391.70	0.00	0.00	0.00
14,500.00	90.01	359.77	9,957.81	4,477.45	-419.97	4,491.62	0.00	0.00	0.00
14,600.00	90.01	359.77	9,957.81	4,577.45	-420.37	4,591.54	0.00	0.00	0.00
14,700.00	90.01	359.77	9,957.80	4,677.45	-420.77	4,691.46	0.00	0.00	0.00
14,800.00	90.01	359.77	9,957.79	4,777.45	-421.17	4,791.38	0.00	0.00	0.00
14,900.00	90.01	359.77	9,957.78	4,877.45	-421.57	4,891.30	0.00	0.00	0.00
15,000.00	90.01	359.77	9,957.77	4,977.44	-421.97	4,991.22	0.00	0.00	0.00
15,100.00	90.01	359.77	9,957.76	5,077.44	-422.37	5,091.14	0.00	0.00	0.00
15,200.00	90.01	359.77	9,957.75	5,177.44	-422.77	5,191.06	0.00	0.00	0.00
15,300.00	90.01	359.77	9,957.74	5,277.44	-423.17	5,290.98	0.00	0.00	0.00
15,400.00	90.01	359.77	9,957.73	5,377.44	-423.57	5,390.90	0.00	0.00	0.00
15,500.00	90.01	359.77	9,957.72	5,477.44	-423.97	5,490.82	0.00	0.00	0.00
15,600.00	90.01	359.77	9,957.70	5,577.44	-424.37	5,590.74	0.00	0.00	0.00

# Oxy Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well NIMITZ MDP1 12 FEDERAL COM 7H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	Datum @ 3552.40ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	Datum @ 3552.40ft
<b>Site:</b>	NIMITZ MDP1 12 FEDERAL COM	<b>North Reference:</b>	Grid
<b>Well:</b>	NIMITZ MDP1 12 FEDERAL COM 7H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WB00		
<b>Design:</b>	Permitting Plan		

## 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)
15,700.00	90.01	359.77	9,957.69	5,677.44	-424.77	5,690.66	0.00	0.00	0.00
15,800.00	90.01	359.77	9,957.68	5,777.44	-425.17	5,790.58	0.00	0.00	0.00
15,900.00	90.01	359.77	9,957.67	5,877.44	-425.57	5,890.49	0.00	0.00	0.00
16,000.00	90.01	359.77	9,957.66	5,977.44	-425.98	5,990.41	0.00	0.00	0.00
16,100.00	90.01	359.77	9,957.65	6,077.44	-426.38	6,090.33	0.00	0.00	0.00
16,200.00	90.01	359.77	9,957.63	6,177.43	-426.78	6,190.25	0.00	0.00	0.00
16,300.00	90.01	359.77	9,957.62	6,277.43	-427.18	6,290.17	0.00	0.00	0.00
16,400.00	90.01	359.77	9,957.61	6,377.43	-427.58	6,390.09	0.00	0.00	0.00
16,500.00	90.01	359.77	9,957.60	6,477.43	-427.98	6,490.01	0.00	0.00	0.00
16,600.00	90.01	359.77	9,957.58	6,577.43	-428.38	6,589.93	0.00	0.00	0.00
16,700.00	90.01	359.77	9,957.57	6,677.43	-428.78	6,689.85	0.00	0.00	0.00
16,800.00	90.01	359.77	9,957.55	6,777.43	-429.18	6,789.77	0.00	0.00	0.00
16,900.00	90.01	359.77	9,957.54	6,877.43	-429.58	6,889.69	0.00	0.00	0.00
17,000.00	90.01	359.77	9,957.53	6,977.43	-429.98	6,989.61	0.00	0.00	0.00
17,100.00	90.01	359.77	9,957.51	7,077.43	-430.38	7,089.53	0.00	0.00	0.00
17,200.00	90.01	359.77	9,957.50	7,177.43	-430.78	7,189.45	0.00	0.00	0.00
17,300.00	90.01	359.77	9,957.48	7,277.43	-431.18	7,289.37	0.00	0.00	0.00
17,400.00	90.01	359.77	9,957.47	7,377.42	-431.58	7,389.29	0.00	0.00	0.00
17,500.00	90.01	359.77	9,957.45	7,477.42	-431.98	7,489.20	0.00	0.00	0.00
17,600.00	90.01	359.77	9,957.44	7,577.42	-432.38	7,589.12	0.00	0.00	0.00
17,700.00	90.01	359.77	9,957.42	7,677.42	-432.79	7,689.04	0.00	0.00	0.00
17,800.00	90.01	359.77	9,957.41	7,777.42	-433.19	7,788.96	0.00	0.00	0.00
17,900.00	90.01	359.77	9,957.39	7,877.42	-433.59	7,888.88	0.00	0.00	0.00
18,000.00	90.01	359.77	9,957.37	7,977.42	-433.99	7,988.80	0.00	0.00	0.00
18,100.00	90.01	359.77	9,957.36	8,077.42	-434.39	8,088.72	0.00	0.00	0.00
18,200.00	90.01	359.77	9,957.34	8,177.42	-434.79	8,188.64	0.00	0.00	0.00
18,300.00	90.01	359.77	9,957.32	8,277.42	-435.19	8,288.56	0.00	0.00	0.00
18,400.00	90.01	359.77	9,957.31	8,377.42	-435.59	8,388.48	0.00	0.00	0.00
18,500.00	90.01	359.77	9,957.29	8,477.42	-435.99	8,488.40	0.00	0.00	0.00
18,600.00	90.01	359.77	9,957.27	8,577.42	-436.39	8,588.32	0.00	0.00	0.00
18,700.00	90.01	359.77	9,957.26	8,677.41	-436.79	8,688.24	0.00	0.00	0.00
18,800.00	90.01	359.77	9,957.24	8,777.41	-437.19	8,788.16	0.00	0.00	0.00
18,900.00	90.01	359.77	9,957.22	8,877.41	-437.59	8,888.08	0.00	0.00	0.00
19,000.00	90.01	359.77	9,957.20	8,977.41	-437.99	8,988.00	0.00	0.00	0.00
19,100.00	90.01	359.77	9,957.18	9,077.41	-438.39	9,087.92	0.00	0.00	0.00
19,200.00	90.01	359.77	9,957.16	9,177.41	-438.79	9,187.83	0.00	0.00	0.00
19,300.00	90.01	359.77	9,957.14	9,277.41	-439.19	9,287.75	0.00	0.00	0.00
19,400.00	90.01	359.77	9,957.13	9,377.41	-439.60	9,387.67	0.00	0.00	0.00
19,500.00	90.01	359.77	9,957.11	9,477.41	-440.00	9,487.59	0.00	0.00	0.00
19,600.00	90.01	359.77	9,957.09	9,577.41	-440.40	9,587.51	0.00	0.00	0.00
19,700.00	90.01	359.77	9,957.07	9,677.41	-440.80	9,687.43	0.00	0.00	0.00
19,800.00	90.01	359.77	9,957.05	9,777.41	-441.20	9,787.35	0.00	0.00	0.00
19,900.00	90.01	359.77	9,957.03	9,877.40	-441.60	9,887.27	0.00	0.00	0.00

# Oxy Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well NIMITZ MDP1 12 FEDERAL COM 7H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	Datum @ 3552.40ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	Datum @ 3552.40ft
<b>Site:</b>	NIMITZ MDP1 12 FEDERAL COM	<b>North Reference:</b>	Grid
<b>Well:</b>	NIMITZ MDP1 12 FEDERAL COM 7H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WB00		
<b>Design:</b>	Permitting Plan		

## Design Targets

### Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
NIMITZ MDP1 12 - plan hits target center - Point	0.00	0.00	9,385.04	-270.66	-400.95	446,116.42	697,052.98	32° 13' 31.610300 N	103° 49' 47.181933
NIMITZ MDP1 12 - plan misses target center by 127.43ft at 19900.00ft MD (9957.03 TVD, 9877.40 N, -441.60 E) - Point	0.00	0.00	9,957.00	10,004.83	-442.11	456,391.24	697,011.82	32° 15' 13.288306 N	103° 49' 47.100249

## Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,140.00	6,140.00	0.00	0.00	STEP OUT DLS 2.00
6,639.94	6,637.40	-24.34	-36.06	HOLD 10 DEG TANGENT
8,924.88	8,887.64	-246.31	-364.88	DROP BACK TO VERTICAL DLS 2.00
9,424.81	9,385.04	-270.66	-400.95	BUILD CURVE 10 DEG / 100
10,324.81	9,958.00	302.30	-403.24	LANDING POINT
20,027.43	9,957.00	10,004.83	-442.11	TD at 20027.43





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

October 12, 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.  
Nimitz MDP1 12 Federal Com #7H  
E/2 E/2 Sections 1 & 12, T24S-R30E, 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 black ink, appearing to read "Kacie Cruz", written in a cursive style.

Kacie Cruz  
Development Production Engineer

## **Lowe, Leonard, EMNRD**

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**From:** Lowe, Leonard, EMNRD  
**Sent:** Monday, November 13, 2017 8:53 AM  
**To:** 'Sarah\_Mitchell@oxy.com'  
**Cc:** Podany, Raymond, EMNRD; McMillan, Michael, EMNRD; Goetze, Phillip, EMNRD; Jones, William V, EMNRD; 'jglover@blm.gov'; 'scaffey@blm.gov'; 'rjsanche@blm.gov'; 'lisa@rwbyram.com'; Sharp, Karen, EMNRD  
**Subject:** AMENDED APPROVED: NSL-7569-A (Nimitz MDP1 12 Federal Well No. 2H & NSL-7570-A (Nimitz MDP1 12 Federal Com Well No. 7H)\_SEC 12 24S 30E  
**Importance:** High

Ms. Sarah Mitchell,

The following **ADMENDED** 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-7569-A**

Oxy USA, Inc.

WELL: API #: 30-015-PENDING

WELL NAME: Nimitz MDP1 12 Federal Well No. 2H

### **NSL-7570-A**

Oxy USA, Inc.

WELL: API #: 30-015-PENDING

WELL NAME: Nimitz MDP1 12 Federal Com Well No. 7H

### **Leonard Lowe**

Engineering Bureau

Oil Conservation Division

Energy Minerals and Natural Resources Department

1220 South St. Frances

Santa Fe, New Mexico 87004

Office: 505-476-3492

Cell: 505-930-6717

Fax: 505-476-3462

E-mail: [leonard.lowe@state.nm.us](mailto:leonard.lowe@state.nm.us)

Website: <http://www.emnrd.state.nm.us/ocd/>