#### OCD Received 10/5/2020

Form 3160-3 (June 2015)		FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018					
	DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT						
APPLICATION FOR PERMIT TO	6. If Indian, Allotee or Tribe Name						
la. Type of work:	1a. Type of work:   DRILL						
1b. Type of Well: 🚺 Oil Well 🗶 Gas Well	Other	8. Lease Name and Well No.					
1c. Type of Completion:   Hydraulic Fracturing	Single Zone Multiple Zone						
2. Name of Operator		9. API Well No. 30.015 47565 Pumla Sace					
3a. Address	3b. Phone No. (include area code)	30 013 47565         Purple Sage           10, Field and Pool, or Exploratory Wolfcamp					
4. Location of Well (Report location clearly and in accordan	nce with any State requirements.*)	11. Sec., T. R. M. or Blk. and Survey or Area					
At surface							
At proposed prod. zone							
14. Distance in miles and direction from nearest town or pos	t office*	12. County or Parish 13. State					
<ul><li>15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)</li></ul>	16. No of acres in lease 17. S	pacing Unit dedicated to this well					
18. Distance from proposed location*         to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 20. E	BLM/BIA Bond No. in file					
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration					
	24. Attachments						
The following, completed in accordance with the requiremen (as applicable)		the Hydraulic Fracturing rule per 43 CFR 3162.3-3					
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>	Item 20 above).	ations unless covered by an existing bond on file (see					
3. A Surface Use Plan (if the location is on National Forest S SUPO must be filed with the appropriate Forest Service O		information and/or plans as may be requested by the					
25. Signature	Name (Printed/Typed)	Date					
Title							
Approved by (Signature)	Name (Printed/Typed)	Date					
Title	Office	· · · · ·					
Application approval does not warrant or certify that the app applicant to conduct operations thereon. Conditions of approval, if any, are attached.	licant holds legal or equitable title to those ri	ghts in the subject lease which would entitle the					
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 121 of the United States any false, fictitious or fraudulent statemed							
muds are not to be used until fresh water zones are cased from the oil or diesel. This includes synthetic oils. Oil base ust be contained in a steel closed loop system Will require a directional survey with the C-104 ISL Will require an administrative order for non- tandard location prior to placing the well on		Once the well is spud, to prevent ground water contamination through whole or partial conduits from surface, the operator shall drill without interruption the the fresh water zone or zones and shall immediately seement the water protection string					
roduction	NOVED WITH COM	KP 10/9/2020 GEO Review					
(Continued on page 2)		*(Instructions on page 2)					

Approval Date: 09/30/2020 Entered - KMS NMOCD

DISTRICT I 1825 N. FRENCH DR., HOBBS, NM 882 Phone: (575) 393-6161 Fax: (575) 393-07 DISTRICT II 811 S. FIRST ST., ARTESIA, NM 8 Phone: (575) 748-1283 Fax: (575) 748 DISTRICT III 1000 RIO BRAZOS RD., AZTEC, NM Phone: (505) 334-6178 Fax: (505) 3	18210 -9720	OIL CC 12	rals & DNSE 20 S0	ERVATIONUTH ST. F	w Mexico Resources De ON DIVIS RANCIS DR. xico 87505	SION	Revised Au Submit one copy to	Yorm C-102 agust 1, 2011 o appropriate ct Office
DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA FE, M Phone: (505) 476-3460 Fax: (505) 4	M 87505 76-3462	WELL LOC		AND ACDE	ACE DEDICATI	ON DIAT		ED REPORT
API Number			ATION ol Code	AND ACKE	AGE DEDICATIO	DIN PLAI Pool Name		
Property Code		NIMI	ITZ MI	Property Nam DP1 12-1	ne FEDERAL COM	[	Well Num 421	
OGRID No.				Operator Nar OXY USA			Elevatio 3485	
				Surface Loc	ation			
UL or lot No. Section	Township	Range I	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D 13	24-S	30-E		1047	NORTH	368	WEST	EDDY
		Bottom H	ole Loc	ation If Diff	erent From Sur	face		
UL or lot No. Section	Township 24-S	Range L 30-E	Lot Idn	Feet from the 20	North/South line	Feet from the 1210	<b>East/West line</b> WEST	County EDDY
Dedicated Acres Joint or		nsolidation Cod	le Ord	ler No.		1210		
PROPOSED BOTTOM           HOLE LOCATION           Y=456529.4 N           X=694142.3 E           LAT.=32.254108' N           LONG.=103.839030' W           Y=456449.4 N           X=694142.8 E           LAT.=32.253888' N           LONG.=103.839030' W           Y=456449.4 N           X=694142.8 E           LAT.=32.253888' N           LONG.=103.839030' W           LONG.=103.839030' W           LONG.=103.839000' W           SO' FSL & 1210' FWL           Y=446084.4 N           X=694199.7 E           LAT.=32.225434' N           LONG.=103.839000' W           SO' FSL & 1210' FWL           Y=446048.4 N           X=694199.9 E           LAT.=32.225277 N           LONG.=103.839000' W           SURFACE LOCATION           Y=444950.1 N           X=693359.5 E	80- 1210	Image: Construction of the state of the	Lot 2   L 9.96ac. 39   	* AL         ARE         .ot 1         9.99ac.	APPROVED         BY         7	OPERAT I hereby herein is true my knowledge organization eit or unleased mi including the p or has a right location pursua owner of such or to a volunta compulsory poo by the division. Signature Printed Name E-mail Address SURVEYO I hereby shown on this notes of actual under my supel true and correct FEBR D Signature & Su	Da Da Da Da Da Da Da Da Da Da Da Da Da D	ormation e best of t this r interest e land t e location t this tith an interest, nt or a re entered te TION I location mm field ne or e same is y belief. 1 Surveyor

Intent As Drilled		
API#		
Operator Name:	Property Name:	Well Number

### Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de				Longitude				NAD

#### First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de				Longitude				NAD

#### Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude				Longitud	Longitude			NAD	

Is this well the defining well for the Horizontal Spacing Unit?

Is this well an infill well?

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	OXY USA INCORPORATED
LEASE NO.:	NMNM082896
WELL NAME & NO.:	NIMITZ MDP1 12-1 FEDERAL COM / 42H
SURFACE HOLE FOOTAGE:	1047'/N & 368'/W
<b>BOTTOM HOLE FOOTAGE</b>	20'/N & 1210'/W
LOCATION:	Section 13, T.24 S., R.30 E., NMPM
COUNTY:	Eddy County, New Mexico

# COA

H2S	C Yes	🖸 No	
Potash	C None	C Secretary	• R-111-P
Cave/Karst Potential	• Low	C Medium	C High
Cave/Karst Potential	Critical		
Variance	C None	• Flex Hose	C Other
Wellhead	Conventional	C Multibowl	Soth
Other	4 String Area	Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	□ Water Disposal	COM	🗖 Unit

# A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

# **B. CASING**

### **Casing Design:**

- 1. The **13-3/8** inch surface casing shall be set at approximately **530** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after

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completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>24 hours in the Potash Area</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The **9-5/8** inch intermediate casing shall be set at approximately **4177** feet. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

# **Option 1 (Single Stage):**

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

# **Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- In <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing string must come to surface.

# Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

3. The minimum required fill of cement behind the **7-5/8** inch 2<sup>nd</sup> intermediate casing is:

# **Option 1 (Single Stage):**

• Cement to surface. If cement does not circulate, contact the appropriate BLM office.

# **Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

# Operator has proposed to pump down 9-5/8" X 7-5/8" annulus. <u>Operator must run</u> a CBL/ ECHO-METER from TD of the 7-5/8" casing to surface. Submit results to <u>BLM</u>.

- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back **500 feet** into the previous casing. Operator shall provide method of verification.

# C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

# Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000** (**5M**) psi.

c. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 2<sup>nd</sup> intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

# **Option 2:**

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000** (**10M**) psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.** 
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

# **D. SPECIAL REQUIREMENT (S)**

# **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

# **Offline Cementing**

• Contact the BLM prior to the commencement of any offline cementing procedure.

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# **BOP Break Testing Variance**

• BOP break testing is not permitted on this well pending submittion of a break testing sundry.

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# **GENERAL REQUIREMENTS**

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
  - Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
  - Lea County
     Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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# A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24</u> <u>hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

### B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including

lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

# C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

## D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

### NMK09152020

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# **WAFMSS**

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

#### APD ID: 10400050959

Operator Name: OXY USA INCORPORATED Well Name: NIMITZ MDP1 12-1 FEDERAL COM

Well Type: OIL WELL

### Submission Date: 11/12/2019

Well Number: 42H Well Work Type: Drill Highlighted data reflects the most recent changes

10/05/2020

Application Data Report

Show Final Text

#### Section 1 - General APD ID: 10400050959 Tie to previous NOS? N Submission Date: 11/12/2019 **BLM Office: CARLSBAD User:** Leslie Reeves Title: Advisor Regulatory Federal/Indian APD: FED Is the first lease penetrated for production Federal or Indian? FED Lease number: NMNM082896 Lease Acres: 880 Allotted? **Reservation:** Surface access agreement in place? Agreement in place? NO Federal or Indian agreement: Agreement number: Agreement name: Keep application confidential? Y APD Operator: OXY USA INCORPORATED Permitting Agent? NO

**Operator letter of designation:** 

# **Operator Info**

Operator Organization Name: OXY USA INCORPORATED	
Operator Address: 5 Greenway Plaza, Suite 110	<b>7</b> in: 77046
Operator PO Box:	<b>Zip:</b> 77046
Operator City: Houston State: TX	
<b>Operator Phone:</b> (713)366-5716	

**Operator Internet Address:** 

# **Section 2 - Well Information**

Well in Master Development Plan? EXISTING	Master Development Plan name: Sand Dunes Area	
Well in Master SUPO?	Master SUPO name:	
Well in Master Drilling Plan?	Master Drilling Plan name:	
Well Name: NIMITZ MDP1 12-1 FEDERAL COM	Well Number: 42H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: COTTON DRAW BONE SPRING	Pool Name: COTTON DRAW BONE SPRING
Is the proposed well in an area containing other mine	ral resources 2 LISEARIE WATE	D NIATLIDAL CAS OIL DOTASH

Is the proposed well in an area containing other mineral resources? USEABLE WATER, NATURAL GAS, OIL, POTASH

#### Well Number: 42H

### Is the proposed well in an area containing other mineral resources? USEABLE WATER, NATURAL GAS, OIL, POTASH

Is the propos	sed well in a Helium produ	iction area? N	Use Existing Well Pad? N	New surface disturbance?
Type of Well	Pad: MULTIPLE WELL		Multiple Well Pad Name: Nimitz	
Well Class: HORIZONTAL		MDP1 12-1 & 13 Federal Com Number of Legs: 1	42H & 21H, 22H, 11H, 41H, 42H	
Well Work Ty	<b>/pe:</b> Drill			
Well Type: O	IL WELL			
Describe We	II Туре:			
Well sub-Typ	be: INFILL			
Describe sub	o-type:			
Distance to t	own: 13 Miles	Distance to nea	arest well: 35 FT Distance	ce to lease line: 20 FT
Reservoir we	ell spacing assigned acres	Measurement:	319.91 Acres	
Well plat:	NimitzMDP112_1FdCom42	2H_C102_20191	112114837.pdf	
	NimitzMDP112_1FdCom42	2H_Supplementa	al_20191112114842.pdf	
	NimitzMDP112_1FdCom42	2H_SitePlan_201	191112114854.pdf	
Well work sta	art Date: 12/01/2020		Duration: 45 DAYS	

# **Section 3 - Well Location Table**

Survey Type: RECTANGULAR

**Describe Survey Type:** 

Datum: NAD83

# Vertical Datum: NAVD88

#### Survey number:

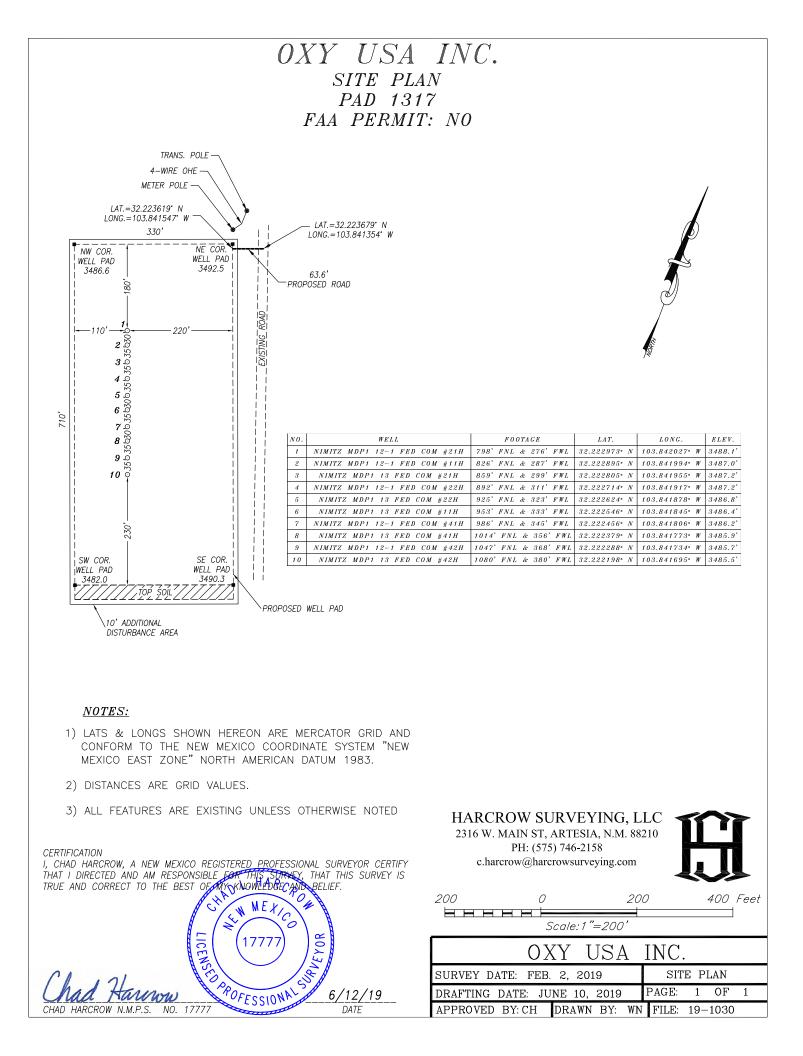
#### Reference Datum: GROUND LEVEL

								-											
Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
SHL	104	FNL	368	FW	24S	30E	13	Aliquot	32.22228	-	EDD	NEW	NEW	F	NMNM	348	0	0	N
Leg	7			L				NWN	8	103.8417	Y	MEXI	MEXI		082896	6			
#1								W		34		co	со						
KOP	50	FSL	121	FW	24S	30E	12	Aliquot	32.22529	-103.839	EDD	NEW	NEW	F	NMNM	-	128	124	N
Leg			0	L				sws	7		Y	MEXI			082896	900	62	95	
#1								W				co	со			9			

# Operator Name: OXY USA INCORPORATED Well Name: NIMITZ MDP1 12-1 FEDERAL COM

### Well Number: 42H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
PPP	100	FSL	121	FW	24S	30E	12	Aliquot	32.22543	-103.839	EDD	NEW		F	NMNM	-	129	124	Y
Leg #1-1			0	L				SWS W	4		Y	MEXI CO	MEXI CO		082896	901 3	13	99	
PPP	3	FSL	122	FW	24S	30E	1	Aliquot	32.23965	-	EDD	NEW	NEW	F	NMNM	_	180	125	Y
Leg	Ŭ	102	1	L	210	002	•	SWS	3	103.8390		MEXI	MEXI		097133	902	86	13	
#1-2								W		15		co	co			7			
EXIT	100	FNL	121	FW	24S	30E	1	Lot	32.25388	-	EDD	NEW		F	NMNM	-	232	125	Y
Leg			0	L				4	8	103.8390	Y	MEXI	MEXI		097133	904	65	27	
#1										3		co	со			1			
BHL	20	FNL	121	FW	24S	30E	1	Lot	32.25410	-	EDD	NEW		F	NMNM	-	233	125	Y
Leg			0	L				4	8	103.8390	Y	MEXI	MEXI		097133	904	45	27	
#1										3		co	со			1			



# ΔFMSS

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

**Operator Name: OXY USA INCORPORATED** 

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

APD ID: 10400050959

Submission Date: 11/12/2019

Highlighted data reflects the most recent changes

10/05/2020

Drilling Plan Data Report

Show Final Text

Well Type: OIL WELL

# Well Number: 42H Well Work Type: Drill

# **Section 1 - Geologic Formations**

Formation			True Vertical				Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
584646	RUSTLER	3486	460	460	ANHYDRITE, DOLOMITE, SHALE	USEABLE WATER	N
584647	SALADO	2668	818	818	ANHYDRITE, DOLOMITE, HALITE, SHALE	OTHER : SALT	N
584644	CASTILE	815	2671	2671	ANHYDRITE	OTHER : salt	N
584648	LAMAR	-641	4127	4127	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	N
584649	BELL CANYON	-665	4151	4151	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER, USEABLE WATER : BRINE	N
584650	CHERRY CANYON	-1591	5077	5077	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	N
584651	BRUSHY CANYON	-2878	6364	6367	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	N
584645	BONE SPRING	-4563	8049	8078	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	N
585792	BONE SPRING 1ST	-5513	8999	9042	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
585793	BONE SPRING 2ND	-6253	9739	9794	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
585794	BONE SPRING 3RD	-7433	10919	10992	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
585795	WOLFCAMP	-7884	11370	11450	SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y

# **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 10M

Rating Depth: 12527

Equipment: 13-5/8" 5M Annular, Blind Ram, Double Ram

### Requesting Variance? YES

Variance request: Request for the use of a flexible choke line from the BOP to Choke Manifold.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and

Operator Name: OXY USA INCORPORATED

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

#### Well Number: 42H

tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. A multibowl wellhead or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system will be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. BOP Break Testing Request Oxy requests permission to adjust the BOP break testing requirements as per the greement reached in the OXY/BLM meeting on September 5, 2019. BOP break test under the following conditions: - After a full BOP test is conducted - When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower. - When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper. If the kill line is broken prior to skid, two tests will be performed. 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams 2) Wellhead flange, HCR valve, check valve, upper pipe rams If the kill line is not broken prior to skid, only one test will be performed. 1) Wellhead flange, co-flex hose, check valve, upper pipe rams

#### Choke Diagram Attachment:

NimitzMDP112\_1FdCom42H\_ChokeManifold\_20191112120313.pdf

#### **BOP Diagram Attachment:**

NimitzMDP112\_1FdCom42H\_FlexHoseCert\_20191112120327.pdf

NimitzMDP112\_1FdCom42H\_BOP\_20191112120333.pdf

# Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	510	0	510	3486	2976	510	J-55	54.5	BUTT	1.12 5	1.2	BUOY	1.4	BUOY	1.4
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4177	0	4177		-691	4177	L-80	40	BUTT	1.12 5	1.2	BUOY	1.4	BUOY	1.4
3	INTERMED IATE	8.75	7.625	NEW	API	N	0	12014	0	12012	3486	-8526		HCL -80		OTHER - SFTORQ/FJ TORQ	1.12 5	1.2	BUOY	1.4	BUOY	1.4
4	PRODUCTI ON	6.75	5.5	NEW	API	N	0	23345	0	12527	3486	-9041	23345	P- 110		-	1.12 5	1.2	BUOY	1.4	BUOY	1.4

#### **Casing Attachments**

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

Well Number: 42H

#### **Casing Attachments**

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

**Tapered String Spec:** 

#### Casing Design Assumptions and Worksheet(s):

NimitzMDP112\_1FdCom42H\_CsgCriteria\_20191112120430.pdf

Casing ID: 2 String Type: INTERMEDIATE

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

#### Casing Design Assumptions and Worksheet(s):

NimitzMDP112\_1FdCom42H\_CsgCriteria\_20191112120452.pdf

Casing ID: 3 String Type: INTERMEDIATE

**Inspection Document:** 

Spec Document:

#### **Tapered String Spec:**

#### Casing Design Assumptions and Worksheet(s):

NimitzMDP112\_1FdCom42H\_CsgCriteria\_20191112120610.pdf

NimitzMDP112\_1FdCom42H\_7.625in\_x\_26\_20191112120616.4

NimitzMDP112\_1FdCom42H\_7.625in\_x\_26\_20191112120621.4

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

Well Number: 42H

#### **Casing Attachments**

Casing ID: 4 String Type: PRODUCTION

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

### Casing Design Assumptions and Worksheet(s):

NimitzMDP112\_1FdCom42H\_CsgCriteria\_20191112120737.pdf NimitzMDP112\_1FdCom42H\_5.500in\_x\_20\_20191112120746.00 NimitzMDP112\_1FdCom42H\_5.500in\_x\_20\_20191112120751.00 NimitzMDP112\_1FdCom42H\_5.500in\_x\_20\_20191112120756.00

Section -	4 - Ce	emen	t									
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%		Cement type	Additives
SURFACE	Lead		0	510	544	1.33	14.8	724	100	CIC		Accelerator

INTERMEDIATE	Lead		0	3677	890	1.88	12.9	1673	50	Pozzolan C	Retarder
INTERMEDIATE	Tail		3677	4177	155	1.33	14.8	206	20	CIC	Accelerator
INTERMEDIATE	Lead	2	0	6614	867	1.38	13.2	1196	25	CIC	Accelerator

INTERMEDIATE Lead 2	6614 1201 346 4	1.65 13.2 571 5	CI H Retarder, Dispersant, Salt
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	Retarder, Dispersant, Salt	
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Operator Name: OXY USA INCORPORATED

# Well Name: NIMITZ MDP1 12-1 FEDERAL COM

#### Well Number: 42H

String Type	Lead/Tail Stage Tool Depth	Top MD Bottom MD		Density	Cu Ft Excess%	Cement type	Additives
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Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

**Describe what will be on location to control well or mitigate other conditions:** Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CaCl2.

Describe the mud monitoring system utilized: PVT/MD Totco/Visual Monitoring

# **Circulating Medium Table**

								/ · · · · · ·			
Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1201 4	2334 5	OTHER : Water- Based or Oil- Based Mud	9.5	13.5							
4177	1201 4	OTHER : Water- Based and/or Oil-Based Mud	8	9.6							
0	510	WATER-BASED MUD	8.6	8.8							
510	4177	OTHER : Saturated Brine- Based Mud	9.8	10							

Operator Name: OXY USA INCORPORATED

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

# Section 6 - Test, Logging, Coring

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

GR from TD to surface (horizontal well - vertical portion of hole). Mud Log from intermediate shoe to TD.

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

GAMMA RAY LOG, MUD LOG/GEOLOGIC LITHOLOGY LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG,

#### Coring operation description for the well:

No coring is planned at this time.

# **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 8794

Anticipated Surface Pressure: 6038

Anticipated Bottom Hole Temperature(F): 181

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

**Describe:** 

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

### Hydrogen Sulfide drilling operations plan required? YES

#### Hydrogen sulfide drilling operations plan:

NimitzMDP112\_1FdCom42H\_H2S1\_20191112121719.pdf NimitzMDP112\_1FdCom42H\_H2S2\_20191112121724.pdf NimitzMDP112\_1FdCom42H\_H2SEmerCont\_20191112121731.pdf

# **Section 8 - Other Information**

#### Proposed horizontal/directional/multi-lateral plan submission:

NimitzMDP112\_1FdCom42H\_DirectPlan\_20191112121747.pdf NimitzMDP112\_1FdCom42H\_DirectPlot\_20191112121756.pdf

#### Other proposed operations facets description:

OXY requests the option to set casing shallower yet still below the salts if losses or hole conditions require this. Cement volumes may be adjusted if casing is set shallower and a DV tool will be run in case a contingency second stage is required for cement to reach surface. If cement circulated to surface during first stage we will drop a cancelation cone and not pump the second stage.

OXY requests the option to run production casing with DQX and/or SF TORQ connections to accommodate hole conditions or drilling operations.

OXY requests to pump a two stage cement job on the intermediate II casing string with the first stage being pumped conventionally with the calculated TOC @ the Bone Spring and the second stage performed as a bradenhead squeeze with planned cement from the Bone Spring to surface.

Annular Clearance Variance Request - As per the agreement reached in the OXY/BLM meeting on Feb 22,

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

2018, Oxy requests permission to allow deviation from the 0.422 annular clearance requirement from Onshore Order #2 under the following conditions:

1. Annular clearance to meet or exceed 0.422 between intermediate casing ID and production casing coupling only on the first 500 overlap between both casings.

2. Annular clearance less than 0.422 is acceptable for the curve and lateral portions of the production open hole section.

Well will be drilled with a walking/skidding operation. Plan to drill the multiple well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.

OXY requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that OXY would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.

OXY respectfully requests a variance to cement the 9-5/8 and/or 7-5/8 intermediate casing strings offline. The summarized operational sequence will be as follows:

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).

2. Land casing.

3. Fill pipe with kill weight fluid, and confirm well is static.

- a. If well is not static notify BLM and kill well.
- b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
- 4. Set and pressure test annular packoff.

5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed.

6. Skid rig to next well on pad.

7. Confirm well is static before removing cap flange.

- 8. If well is not static notify BLM and kill well prior to cementing or nippling up for further remediation.
- 9. Install offline cement tool.
- 10. Rig up cement equipment.
- a. Notify BLM prior to cement job.

11. Perform cement job.

12. Confirm well is static and floats are holding after cement job.

13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

#### Other proposed operations facets attachment:

NimitzMDP112\_1FdCom42H\_DrillPlan\_20191112121812.pdf

NimitzMDP112\_1FdCom42H\_GasCapPlan\_20191112121819.pdf

NimitzMDP112\_1FdCom42H\_SpudRigData\_20191112121826.pdf

#### **Other Variance attachment:**

# OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) Nimitz MDP1 12\_1 Nimitz MDP1 12-1 Federal Com 42H

Wellbore #1

**Plan: Permitting Plan** 

# **Standard Planning Report**

09 July, 2019

Database: Company: Project: Site: Well: Wellbore: Design:	PRD I Nimitz Nimitz Wellb	SPP NEERING DES NM DIRECTIC 2 MDP1 12_1 2 MDP1 12-1 F ore #1 tting Plan	ONAL PLANS (		TVD Refe MD Refer North Ref	ence:	Vell Nimitz MD RKB=26.5' @ 3 RKB=26.5' @ 3 Grid Ainimum Curva	@ 3512.20ft			
Project	PRD N	IM DIRECTION	NAL PLANS (N	NAD 1983)							
Map System: Geo Datum: Map Zone:	North Ar	e Plane 1983 merican Datum xico Eastern Z			System Da	tum:		an Sea Level	ale factor		
Site	Nimitz	MDP1 12_1									
Site Position: From: Position Unce	Maş rtainty:		North Eastii .00 ft Slot F	-		055.21 usft	Latitude: Longitude: Grid Converg	gence:		32° 13' 33.331024 N 103° 50' 33.713673 W 0.26 °	
Well	Nimitz	MDP1 12-1 Fe	deral Com 42	Н							
Well Position	+N/-S +E/-W	7 -		orthing: sting:		444,950.10 693,359.50		tude: gitude:		32° 13' 20.238015 N 103° 50' 30.241661 W	
Position Unce	rtainty	:	2.00 ft W	ellhead Eleva	ation:	0.0	00 ft Gro	und Level:		3,485.70 ft	
Wellbore	Wellbo	ore #1									
Magnetics	Мо	del Name	Sample		Declina (°)		<b>Dip A</b> (°)	)		Strength nT)	
		HDGM		7/9/2019		6.82		59.90		47,898	
Design	Permit	ting Plan									
Audit Notes:											
Version:			Phas	e: F	PROTOTYPE	Tie	On Depth:		0.00		
Vertical Section	on:	D	epth From (T (ft)	VD)	+N/-S (ft)	+E/ (f			ection (°)		
			0.00		0.00	0.0	00	3	.87		
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 5,845.00 6,344.91 11,635.73	0.00 0.00 10.00 10.00	0.00 0.00 57.18 57.18	0.00 5,845.00 6,342.37 11,552.85	0.00 0.00 23.58 521.39	0.00 0.00 36.56 808.55	0.00 0.00 2.00 0.00	0.00 0.00 2.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 57.18 0.00		
12,114.79 12,913.26	10.00 89.85	359.68 359.68	12,025.74 12,499.20	585.67 1,148.38	843.35 840.26	2.00 10.00	0.00 10.00	-12.00 0.00	-118.37 0 00	FTP (Nimitz MDP1	

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nimitz MDP1 12-1 Federal Com 42H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3512.20ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3512.20ft
Site:	Nimitz MDP1 12_1	North Reference:	Grid
Well:	Nimitz MDP1 12-1 Federal Com 42H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nimitz MDP1 12-1 Federal Com 42H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3512.20ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3512.20ft
Site:	Nimitz MDP1 12_1	North Reference:	Grid
Well:	Nimitz MDP1 12-1 Federal Com 42H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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
5,845.00	0.00	0.00	5,845.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	1.10	57.18	5,900.00	0.29	0.44	0.32	2.00	2.00	0.00
6,000.00	3.10	57.18	5,999.92	2.27	3.52	2.50	2.00	2.00	0.00
6,100.00	5.10	57.18	6,099.66	6.15	9.53	6.78	2.00	2.00	0.00
6,200.00	7.10	57.18	6,199.09	11.90	18.46	13.12	2.00	2.00	0.00
6,300.00	9.10	57.18	6,298.09	19.54	30.30	21.54	2.00	2.00	0.00
6,344.91	10.00	57.18	6,342.37	23.58	36.56	25.99	2.00	2.00	0.00
6,400.00	10.00	57.18	6,396.63	28.76	44.60	31.70	0.00	0.00	0.00
6,500.00	10.00	57.18	6,495.11	38.17	59.19	42.08	0.00	0.00	0.00
6,600.00	10.00	57.18	6,593.59	47.58	73.78	52.45	0.00	0.00	0.00
6,700.00	10.00	57.18	6,692.07	56.99	88.38	62.82	0.00	0.00	0.00
6,800.00	10.00	57.18	6,790.56	66.40	102.97	73.19	0.00	0.00	0.00
6,900.00	10.00	57.18	6,889.04	75.81	117.56	83.56	0.00	0.00	0.00
7,000.00	10.00	57.18	6,987.52	85.22	132.15	93.93	0.00	0.00	0.00
7,100.00	10.00	57.18	7,086.00	94.62	146.74	104.31	0.00	0.00	0.00
7,200.00	10.00	57.18	7,184.48	104.03	161.33	114.68	0.00	0.00	0.00
7,300.00	10.00	57.18	7,282.96	113.44	175.92	125.05	0.00	0.00	0.00
7,400.00	10.00	57.18	7,381.44	122.85	190.51	135.42	0.00	0.00	0.00
7,500.00	10.00	57.18	7,479.92	132.26	205.10	145.79	0.00	0.00	0.00
7,600.00	10.00	57.18	7,578.41	141.67	219.69	156.16	0.00	0.00	0.00
7,700.00	10.00	57.18	7,676.89	151.08	234.29	166.53	0.00	0.00	0.00
7,800.00	10.00	57.18	7,775.37	160.49	248.88	176.91	0.00	0.00	0.00
7,900.00	10.00	57.18	7,873.85	169.90	263.47	187.28	0.00	0.00	0.00
8,000.00	10.00	57.18	7,972.33	179.30	278.06	197.65	0.00	0.00	0.00
8,100.00	10.00	57.18	8,070.81	188.71	292.65	208.02	0.00	0.00	0.00
8,200.00	10.00	57.18	8,169.29	198.12	307.24	218.39	0.00	0.00	0.00
8,300.00	10.00	57.18	8,267.78	207.53	321.83	228.76	0.00	0.00	0.00
8,400.00	10.00	57.18	8,366.26	216.94	336.42	239.14	0.00	0.00	0.00
8,500.00	10.00	57.18	8,464.74	226.35	351.01	249.51	0.00	0.00	0.00
8,600.00	10.00	57.18	8,563.22	235.76	365.61	259.88	0.00	0.00	0.00
8,700.00	10.00	57.18	8,661.70	245.17	380.20	270.25	0.00	0.00	0.00
8,800.00	10.00	57.18	8,760.18	254.58	394.79	280.62	0.00	0.00	0.00
8,900.00	10.00	57.18	8,858.66	263.99	409.38	290.99	0.00	0.00	0.00
9,000.00	10.00	57.18	8,957.15	273.39	423.97	301.37	0.00	0.00	0.00
9,100.00	10.00	57.18	9,055.63	282.80	438.56	311.74	0.00	0.00	0.00
9,200.00	10.00	57.18	9,154.11	292.21	453.15	322.11	0.00	0.00	0.00
9,300.00	10.00	57.18	9,252.59	301.62	467.74	332.48	0.00	0.00	0.00
9,400.00	10.00	57.18	9,351.07	311.03	482.33	342.85	0.00	0.00	0.00
9,500.00	10.00	57.18	9,449.55	320.44	496.92	353.22	0.00	0.00	0.00
9,600.00	10.00	57.18	9,548.03	329.85	511.52	363.60	0.00	0.00	0.00
9,700.00	10.00	57.18	9,646.51	339.26	526.11	373.97	0.00	0.00	0.00
9,800.00	10.00	57.18	9,745.00	348.67	540.70	384.34	0.00	0.00	0.00
9,900.00	10.00	57.18	9,843.48	358.07	555.29	394.71	0.00	0.00	0.00
10,000.00	10.00	57.18	9,941.96	367.48	569.88	405.08	0.00	0.00	0.00
10,100.00	10.00	57.18	10,040.44	376.89	584.47	415.45	0.00	0.00	0.00
10,200.00	10.00	57.18	10,138.92	386.30	599.06	425.83	0.00	0.00	0.00
10,300.00	10.00	57.18	10,237.40	395.71	613.65	436.20	0.00	0.00	0.00
10,400.00	10.00	57.18	10,335.88	405.12	628.24	446.57	0.00	0.00	0.00
10,500.00	10.00	57.18	10,434.37	414.53	642.83	456.94	0.00	0.00	0.00

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nimitz MDP1 12-1 Federal Com 42H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3512.20ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3512.20ft
Site:	Nimitz MDP1 12_1	North Reference:	Grid
Well:	Nimitz MDP1 12-1 Federal Com 42H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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)
10,600.00	10.00	57.18	10,532.85	423.94	657.43	467.31	0.00	0.00	0.00
10,700.00	10.00	57.18	10,631.33	433.35	672.02	477.68	0.00	0.00	0.00
10,000,00	40.00	57.40	40 700 04	440.70	000.04	400.05	0.00	0.00	0.00
10,800.00	10.00	57.18	10,729.81	442.76	686.61	488.05	0.00	0.00	0.00
10,900.00	10.00	57.18	10,828.29	452.16	701.20	498.43	0.00	0.00	0.00
11,000.00	10.00	57.18	10,926.77	461.57	715.79	508.80	0.00	0.00	0.00
11,100.00	10.00	57.18	11,025.25	470.98	730.38	519.17	0.00	0.00	0.00
11,200.00	10.00	57.18	11,123.73	480.39	744.97	529.54	0.00	0.00	0.00
11,300.00	10.00	57.18	11,222.22	489.80	759.56	539.91	0.00	0.00	0.00
11,400.00	10.00	57.18	11,320.70	499.21	774.15	550.28	0.00	0.00	0.00
11,500.00	10.00	57.18	11,419.18	508.62	788.75	560.66	0.00	0.00	0.00
11,600.00	10.00	57.18	11,517.66	518.03	803.34	571.03	0.00	0.00	0.00
11,635.73	10.00	57.18	11,552.85	521.39	808.55	574.73	0.00	0.00	0.00
11,700.00	9.45	50.28	11,616.20	527.79	817.30	581.71	2.00	-0.85	-10.74
11,800.00	8.91	38.19	11,714.92	539.12	828.41	593.77	2.00	-0.54	-12.09
11,900.00	8.80	25.20	11,813.74	552.14	836.46	607.29	2.00	-0.11	-13.00
12,000.00	9.13	12.51	11,912.53	566.81	841.43	622.27	2.00	0.33	-12.68
12,000.00	9.86	1.20	12,011.16	583.12	843.33	638.67	2.00	0.33	-12.00
12,114.79	10.00	359.68	12,025.74	585.67	843.35	641.22	2.00	0.93	-10.27
12,200.00	18.52	359.68	12,108.24	606.64	843.24	662.13	10.00	10.00	0.00
12,300.00	28.52	359.68	12,199.82	646.49	843.02	701.88	10.00	10.00	0.00
12,400.00	38.52	359.68	12,283.08	701.65	842.71	756.89	10.00	10.00	0.00
12,500.00	48.52	359.68	12,355.50	770.42	842.34	825.48	10.00	10.00	0.00
12,600.00	58.52	359.68	12,414.88	850.72	841.89	905.57	10.00	10.00	0.00
12,700.00	68.52	359.68	12,459.41	940.12	841.40	994.73	10.00	10.00	0.00
12,800.00	78.52	359.68	12,487.74	1,035.89	840.87	1,090.24	10.00	10.00	0.00
12,900.00	88.52	359.68	12,499.01	1,135.12	840.33	1,189.21	10.00	10.00	0.00
12,913.26	89.85	359.68	12,499.20	1,148.38	840.26	1,202.43	10.00	10.00	0.00
13,000.00	89.85	359.68	12,499.43	1,235.12	839.78	1,288.94	0.00	0.00	0.00
13,100.00	89.85	359.68	12,499.70	1,335.12	839.23	1,388.68	0.00	0.00	0.00
13,200.00	89.85	359.68	12,499.97	1,435.11	838.68	1,488.41	0.00	0.00	0.00
13,300.00	89.85	359.68	12,500.24	1,535.11	838.13	1,588.14	0.00	0.00	0.00
13,400.00	89.85	359.68	12,500.51	1,635.11	837.58	1,687.88	0.00	0.00	0.00
13,500.00	89.85	359.68	12,500.78	1,735.11	837.03	1,787.61	0.00	0.00	0.00
13,600.00	89.85	359.68	12,501.04	1,835.11	836.48	1,887.34	0.00	0.00	0.00
13,700.00	89.85	359.68	12,501.31	1,935.10	835.93	1,987.08	0.00	0.00	0.00
13,800.00	89.85	359.68	12,501.58	2,035.10	835.38	2,086.81	0.00	0.00	0.00
13,900.00	89.85	359.68	12,501.85	2,135.10	834.83	2,186.54	0.00	0.00	0.00
14,000.00	89.85	359.68	12,502.12	2,235.10	834.28	2,286.28	0.00	0.00	0.00
14,100.00	89.85	359.68	12,502.39	2,335.10	833.73	2,386.01	0.00	0.00	0.00
14,200.00	89.85	359.68	12,502.65	2,435.10	833.18	2,485.74	0.00	0.00	0.00
14,300.00 14,400.00	89.85 89.85	359.68 359.68	12,502.92 12,503.19	2,535.09 2,635.09	832.62 832.07	2,585.48 2,685.21	0.00 0.00	0.00 0.00	0.00 0.00
14,500.00	89.85	359.68	12,503.46	2,735.09	831.52	2,784.94	0.00	0.00	0.00
14,600.00	89.85	359.68	12,503.73	2,835.09	830.97	2,884.68	0.00	0.00	0.00
14,700.00	89.85	359.68	12,504.00	2,935.09	830.42	2,984.41	0.00	0.00	0.00
14,800.00	89.85	359.68	12,504.26	3,035.08	829.87	3,084.14	0.00	0.00	0.00
14,900.00	89.85	359.68	12,504.53	3,135.08	829.32	3,183.88	0.00	0.00	0.00
15,000.00	89.85	359.68	12,504.80	3,235.08	828.77	3,283.61	0.00	0.00	0.00
15,100.00	89.85	359.68	12,505.07	3,335.08	828.22	3,383.34	0.00	0.00	0.00
15,200.00	89.85	359.68	12,505.34	3,435.08	827.67	3,483.08	0.00	0.00	0.00
15,300.00	89.85	359.68	12,505.61	3,535.07	827.12	3,582.81	0.00	0.00	0.00
15,400.00	89.85	359.68	12,505.87	3,635.07	826.57	3,682.54	0.00	0.00	0.00
15,500.00	89.85	359.68	12,506.14	3,735.07	826.02	3,782.28	0.00	0.00	0.00
15,600.00	89.85	359.68	12,506.41	3,835.07	825.47	3,882.01	0.00	0.00	0.00

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nimitz MDP1 12-1 Federal Com 42H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3512.20ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3512.20ft
Site:	Nimitz MDP1 12_1	North Reference:	Grid
Well:	Nimitz MDP1 12-1 Federal Com 42H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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	89.85	359.68	12,506.68	3,935.07	824.92	3,981.74	0.00	0.00	0.00
15.800.00	89.85	359.68	12,506.95	4,035.07	824.37	4,081.48	0.00	0.00	0.00
15,900.00	89.85	359.68	12,507.22	4,135.06	823.82	4,181.21	0.00	0.00	0.00
16,000.00	89.85	359.68	12,507.49	4,235.06	823.27	4,280.94	0.00	0.00	0.00
16,100.00	89.85	359.68	12,507.49	4,335.06	822.72	4,280.94	0.00	0.00	0.00
16,200.00	89.85	359.68	12,507.75	4,335.06	822.12	4,380.88		0.00	0.00
16,300.00	89.85	359.68	12,508.02	4,435.06	821.62	4,480.41 4,580.14	0.00	0.00	0.00
16,400.00	89.85	359.68	12,508.29	4,635.06	821.02	,	0.00	0.00	0.00
16,400.00		309.08	12,508.50		821.07	4,679.88	0.00		
16,500.00	89.85	359.68	12,508.83	4,735.05	820.52	4,779.61	0.00	0.00	0.00
16,600.00	89.85	359.68	12,509.10	4,835.05	819.97	4,879.34	0.00	0.00	0.00
16,700.00	89.85	359.68	12,509.36	4,935.05	819.42	4,979.08	0.00	0.00	0.00
16,800.00	89.85	359.68	12,509.63	5,035.05	818.87	5,078.81	0.00	0.00	0.00
16,900.00	89.85	359.68	12,509.90	5,135.04	818.32	5,178.54	0.00	0.00	0.00
17,000.00	89.85	359.68	12,510.17	5,235.04	817.77	5,278.28	0.00	0.00	0.00
17,000.00	89.85	359.68	12,510.17	5,235.04	817.22	5,278.20 5,378.01	0.00	0.00	0.00
17,100.00	89.85 89.85	359.68	12,510.44	5,335.04 5.435.04	817.22 816.67	5,378.01 5,477.74	0.00	0.00	0.00
	89.85 89.85	359.68 359.68	12,510.71	5,435.04 5,535.04	816.07	5,477.74 5,577.48		0.00	0.00
17,300.00 17,400.00	89.85 89.85				816.12 815.57		0.00		0.00
,		359.68	12,511.24	5,635.04		5,677.21	0.00	0.00	
17,500.00	89.85	359.68	12,511.51	5,735.03	815.02	5,776.94	0.00	0.00	0.00
17,600.00	89.85	359.68	12,511.78	5,835.03	814.47	5,876.68	0.00	0.00	0.00
17,700.00	89.85	359.68	12,512.05	5,935.03	813.92	5,976.41	0.00	0.00	0.00
17,800.00	89.85	359.68	12,512.32	6,035.03	813.37	6,076.14	0.00	0.00	0.00
17,900.00	89.85	359.68	12,512.59	6,135.03	812.82	6,175.88	0.00	0.00	0.00
18,000.00	89.85	359.68	12.512.85	6,235.02	812.26	6,275.61	0.00	0.00	0.00
18,000.00	89.85 89.85	359.68 359.68	12,512.85	6,235.02 6,335.02	812.20	6,375.34	0.00	0.00	0.00
18,200.00	89.85 89.85	359.68 359.68	12,513.12	6,335.02 6,435.02	811.71	6,375.34 6,475.08	0.00	0.00	0.00
18,200.00	89.85 89.85	359.68 359.68	12,513.39	6,435.02 6,535.02	811.16	6,475.08 6,574.81	0.00	0.00	0.00
18,300.00	89.85 89.85	359.68 359.68	12,513.00	6,535.02 6,635.02	810.01	6,674.81 6,674.54	0.00	0.00	0.00
18,500.00	89.85	359.68	12,514.20	6,735.01	809.51	6,774.28	0.00	0.00	0.00
18,600.00	89.85	359.68	12,514.46	6,835.01	808.96	6,874.01	0.00	0.00	0.00
18,700.00	89.85	359.68	12,514.73	6,935.01	808.41	6,973.74	0.00	0.00	0.00
18,800.00	89.85	359.68	12,515.00	7,035.01	807.86	7,073.48	0.00	0.00	0.00
18,900.00	89.85	359.68	12,515.27	7,135.01	807.31	7,173.21	0.00	0.00	0.00
19,000.00	89.85	359.68	12,515.54	7,235.01	806.76	7,272.94	0.00	0.00	0.00
19,100.00	89.85	359.68	12,515.81	7,335.00	806.21	7,372.68	0.00	0.00	0.00
19,100.00	89.85	359.68	12,516.07	7,435.00	805.66	7,472.41	0.00	0.00	0.00
19,300.00	89.85	359.68	12,516.34	7,535.00	805.11	7,572.14	0.00	0.00	0.00
19,400.00	89.85	359.68	12,516.61	7,635.00	804.56	7,671.88	0.00	0.00	0.00
						,			
19,500.00	89.85	359.68	12,516.88	7,735.00	804.01	7,771.61	0.00	0.00	0.00
19,600.00	89.85	359.68	12,517.15	7,834.99	803.46	7,871.34	0.00	0.00	0.00
19,700.00	89.85	359.68	12,517.42	7,934.99	802.91	7,971.08	0.00	0.00	0.00
19,800.00	89.85	359.68	12,517.68	8,034.99	802.36	8,070.81	0.00	0.00	0.00
19,900.00	89.85	359.68	12,517.95	8,134.99	801.81	8,170.54	0.00	0.00	0.00
20,000.00	89.85	359.68	12,518.22	8,234.99	801.26	8,270.28	0.00	0.00	0.00
20,100.00	89.85	359.68	12,518.49	8,334.98	800.71	8,370.01	0.00	0.00	0.00
20,200.00	89.85	359.68	12,518.76	8,434.98	800.16	8,469.74	0.00	0.00	0.00
20,300.00	89.85	359.68	12,519.03	8,534.98	799.61	8,569.48	0.00	0.00	0.00
20,400.00	89.85	359.68	12,519.30	8,634.98	799.06	8,669.21	0.00	0.00	0.00
20,500.00	89.85	359.68	12,519.56	8,734.98	798.51	8,768.94	0.00	0.00	0.00
20,600.00	89.85	359.68	12,519.83	8,834.98	797.96	8,868.68	0.00	0.00	0.00
20,700.00	89.85	359.68	12,520.10	8,934.97	797.41	8,968.41	0.00	0.00	0.00
20,800.00	89.85	359.68	12,520.37	9,034.97	796.86	9,068.14	0.00	0.00	0.00
20,900.00	89.85	359.68	12,520.64	9,134.97	796.31	9,167.88	0.00	0.00	0.00
-,									

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nimitz MDP1 12-1 Federal Com 42H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3512.20ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3512.20ft
Site:	Nimitz MDP1 12_1	North Reference:	Grid
Well:	Nimitz MDP1 12-1 Federal Com 42H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

#### Planned Survey

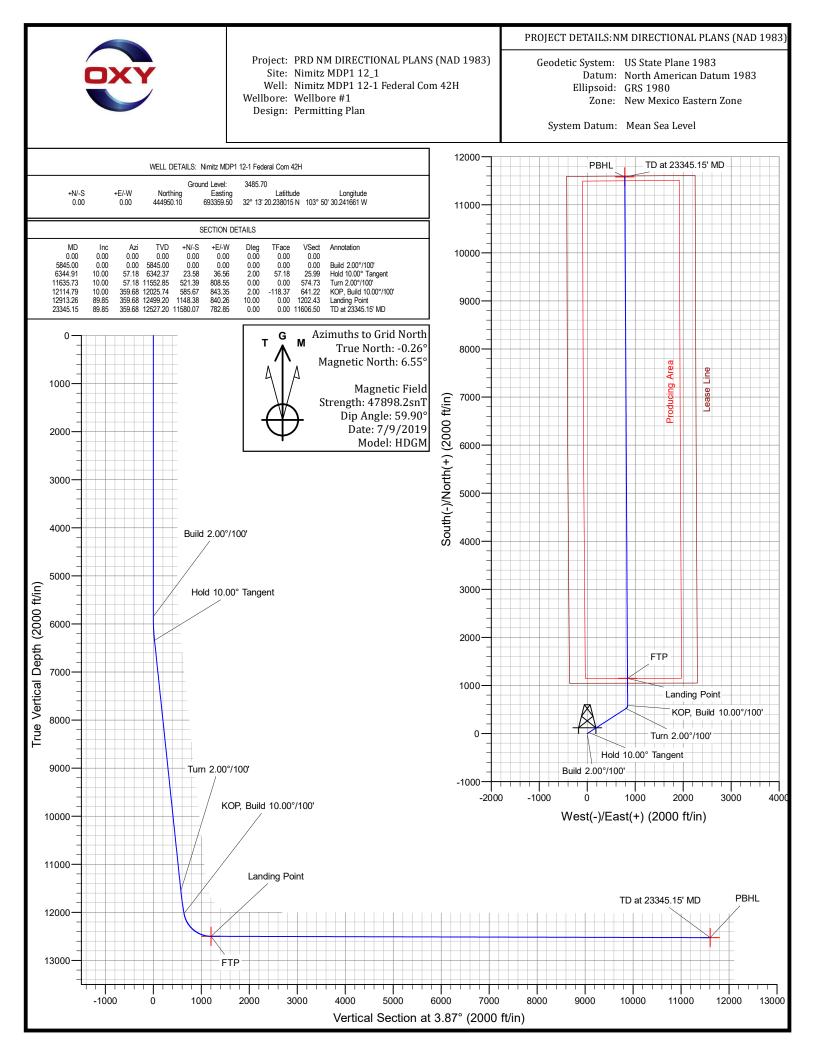
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
21,100.00	89.85	359.68	12,521.17	9,334.97	795.21	9,367.34	0.00	0.00	0.00
21,200.00	89.85	359.68	12,521.44	9,434.96	794.66	9,467.08	0.00	0.00	0.00
21,300.00	89.85	359.68	12,521.71	9,534.96	794.11	9,566.81	0.00	0.00	0.00
21,400.00	89.85	359.68	12,521.98	9,634.96	793.56	9,666.54	0.00	0.00	0.00
21,500.00	89.85	359.68	12,522.25	9,734.96	793.01	9,766.28	0.00	0.00	0.00
21,600.00	89.85	359.68	12,522.52	9,834.96	792.46	9,866.01	0.00	0.00	0.00
21,700.00	89.85	359.68	12,522.78	9,934.96	791.90	9,965.74	0.00	0.00	0.00
21,800.00	89.85	359.68	12,523.05	10,034.95	791.35	10,065.48	0.00	0.00	0.00
21,900.00	89.85	359.68	12,523.32	10,134.95	790.80	10,165.21	0.00	0.00	0.00
22,000.00	89.85	359.68	12,523.59	10,234.95	790.25	10,264.94	0.00	0.00	0.00
22,100.00	89.85	359.68	12,523.86	10,334.95	789.70	10,364.68	0.00	0.00	0.00
22,200.00	89.85	359.68	12,524.13	10,434.95	789.15	10,464.41	0.00	0.00	0.00
22,300.00	89.85	359.68	12,524.40	10,534.94	788.60	10,564.14	0.00	0.00	0.00
22,400.00	89.85	359.68	12,524.66	10,634.94	788.05	10,663.88	0.00	0.00	0.00
22,500.00	89.85	359.68	12,524.93	10,734.94	787.50	10,763.61	0.00	0.00	0.00
22,600.00	89.85	359.68	12,525.20	10,834.94	786.95	10,863.34	0.00	0.00	0.00
22,700.00	89.85	359.68	12,525.47	10,934.94	786.40	10,963.08	0.00	0.00	0.00
22,800.00	89.85	359.68	12,525.74	11,034.93	785.85	11,062.81	0.00	0.00	0.00
22,900.00	89.85	359.68	12,526.01	11,134.93	785.30	11,162.54	0.00	0.00	0.00
23,000.00	89.85	359.68	12,526.27	11,234.93	784.75	11,262.28	0.00	0.00	0.00
23,100.00	89.85	359.68	12,526.54	11,334.93	784.20	11,362.01	0.00	0.00	0.00
23,200.00	89.85	359.68	12,526.81	11,434.93	783.65	11,461.74	0.00	0.00	0.00
23,300.00	89.85	359.68	12,527.08	11,534.93	783.10	11,561.48	0.00	0.00	0.00
23,345.15	89.85	359.68	12.527.20	11,580.07	782.85	11,606.50	0.00	0.00	0.00

#### 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
FTP (Nimitz MDP1 - plan hits target cer - Point	0.00 nter	0.00	12,499.20	1,148.38	840.26	446,098.40	694,199.70	32° 13' 31.563099 N	103° 50' 20.399317
PBHL (Nimitz MDP1 - plan hits target cer - Point	0.00 nter	0.00	12,527.20	11,580.07	782.85	456,529.40	694,142.30	32° 15' 14.787456 N	103° 50' 20.508656

#### Plan Annotations

Measured	Vertical	Local Coordinates		
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
5,845.00	5,845.00	0.00	0.00	Build 2.00°/100'
6,344.91	6,342.37	23.58	36.56	Hold 10.00° Tangent
11,635.73	11,552.85	521.39	808.55	Turn 2.00°/100'
12,114.79	12,025.74	585.67	843.35	KOP, Build 10.00°/100'
12,913.26	12,499.20	1,148.38	840.26	Landing Point
23,345.15	12,527.20	11,580.07	782.85	TD at 23345.15' MD



# Oxy USA Inc. - Nimitz MDP1 12 1 Federal Com 42H

#### 1. Geologic Formations

TVD of target	12527'	Pilot Hole Depth	N/A
MD at TD:	23345'	Deepest Expected fresh water:	460'

#### **Delaware Basin**

Formation	TVD - RKB	<b>Expected Fluids</b>
Rustler	460	
Salado	818	Salt
Castile	2,671	Salt
Lamar/Delaware	4,127	Oil/Gas/Brine
Bell Canyon	4,151	Oil/Gas/Brine
Cherry Canyon	5,077	Oil/Gas/Brine
Brushy Canyon	6,364	Losses
Bone Spring	8,049	Oil/Gas
1st Bone Spring	8,999	Oil/Gas
2nd Bone Spring	9,739	Oil/Gas
3rd Bone Spring	10,919	Oil/Gas
Wolfcamp	11,370	Oil/Gas

\*H2S, water flows, loss of circulation, abnormal pressures, etc.

# 2. Casing Program

_	_								Buoyant	Buoyant			
	Casing	Interval	Csg. Size	Weight		Weight	Weight	Weight		SF	GED (	Body SF	Joint SF
Hole Size (in)	From (ft)	To (ft)	(in)	(lbs)	Grade	Conn.	Collapse	SF Burst	Tension	Tension			
17.5	0	510	13.375	54.5	J-55	BTC	1.125	1.2	1.4	1.4			
12.25	0	4177	9.625	40	L-80	BTC	1.125	1.2	1.4	1.4			
8.75	0	12014	7.625	26.4	L-80 HC	SF (0 ft to 6000 ft) FJ (6000 ft to 12014 ft)	1.125	1.2	1.4	1.4			
6.75	0	23345	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4			
									meet or Exceed				

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

\*Oxy requests the option to set casing shallower yet still below the salts if losses or hole conditions require this. Cement volumes may be adjusted if casing is set shallower and a DV tool may be run in case hole conditions merit pumping a second stage cement job to comply with permitted top of cement. If cement circulated to surface during first stage, we will drop a cancelation cone and not pump the second stage.

\*Oxy requests the option to run production casing with DQX, SF TORQ, and/or DQW TORQ connections to accommodate hole conditions or drilling operations.

# **Annular Clearance Variance Request**

As per the agreement reached in the Oxy/BLM meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

- 1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
- 2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y

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# Oxy USA Inc. - Nimitz MDP1 12\_1 Federal Com 42H

Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	Ν
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back	Y
500' into previous casing?	Y
Is well located in R-111-P and SOPA?	Ν
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Ν
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	Ν
If yes, are there three strings cemented to surface?	

# 3. Cementing Program

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H20 (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Surface (Tail)	544	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate (Lead)	890	12.9	1.88	10.130	14:22	Pozzolan Cement, Retarder
Intermediate (Tail)	155	14.8	1.33	6.370	12:45	Class C Cement, Accelerator
Intermediate II 1st Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate II 1st Stage (Tail)	346	13.2	1.65	8.640	11:54	Class H Cement, Retarder, Dispersant, Salt
Intermediate II 2nd Stage (Tail Slurry) to be pumped as Bradenhead Squeeze from surface, down the Intermediate annulus						n the Intermediate annulus
Intermediate II 2nd Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate II 2nd Stage (Tail)	402	12.9	1.92	10.410	23:10	Class C Cement, Accelerator
Production (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Production (Tail)	867	13.2	1.38	6.686	3:49	Class H Cement, Retarder, Dispersant, Salt

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
Surface (Tail)	0	510	100%
Intermediate (Lead)	0	3677	50%
Intermediate (Tail)	3677	4177	20%
Intermediate II 1st Stage (Lead)	N/A	N/A	N/A
Intermediate II 1st Stage (Tail)	6614	12014	5%
Intermediate II 2nd Stage (Lead)	N/A	N/A	N/A
Intermediate II 2nd Stage (Tail)	0	6614	25%
Production (Lead)	N/A	N/A	N/A
Production (Tail)	11514	23345	20%

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# **Offline Cementing**

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

The summarized operational sequence will be as follows:

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
- 2. Land casing.
- 3. Fill pipe with kill weight fluid, and confirm well is static.
  - a. If well is not static notify BLM and kill well.
  - b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
- 4. Set and pressure test annular packoff.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed.
- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange.
- 8. If well is not static notify BLM and kill well prior to cementing or nippling up for further remediation.
- 9. Install offline cement tool.
- 10. Rig up cement equipment.
  - a. Notify BLM prior to cement job.
- 11. Perform cement job.
- 12. Confirm well is static and floats are holding after cement job.
- 13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре	1	Tested to:	
			Annular	✓	70% of working pressure	
10.05" II.1	12 5/92		Blind Ram	✓		
12.25" Hole	13-5/8"	214	Pipe Ram		250 . / 2000 .	
		3M	Double Ram	<ul> <li>✓</li> </ul>	250 psi / 3000 psi	
			Other*			
	13-5/8"	5M	Annular	~	70% of working pressure	
		5M	Blind Ram	✓	250 psi / 5000 psi	
8.75" Hole			Pipe Ram			
			Double Ram	×		
			Other*			
	6.75" Hole 13-5/8"	5M	Annular	1	100% of working pressure	
( 75" II 1		10M	Blind Ram	✓	250	
6./5" Hole			Pipe Ram			
			Double Ram	✓	250 psi / 6100 ps	
			Other*		1	

# 4. Pressure Control Equipment

\*Specify if additional ram is utilized.

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see attached Well Control Plan.

# Oxy USA Inc. - Nimitz MDP1 12\_1 Federal Com 42H

Oxy will utilize a 5M annular with a 10M BOPE stack. The BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

		Forma	ation integrity test will be performed per Onshore Order #2.						
		On Ex	ploratory wells or on that portion of any well approved for a 5M BOPE system or						
		greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in							
	accordance with Onshore Oil and Gas Order #2 III.B.1.i.								
		A vari	ance is requested for the use of a flexible choke line from the BOP to Choke						
		Manif	old. See attached for specs and hydrostatic test chart.						
		Y	Are anchors required by manufacturer?						
Ī		A mul	tibowl or a unionized multibowl wellhead system will be employed. The wellhead						
		and co	onnection to the BOPE will meet all API 6A requirements. The BOP will be tested						
		per Oi	nshore Order #2 after installation on the surface casing which will cover testing						
		requir	ements for a maximum of 30 days. If any seal subject to test pressure is broken the						
		systen	n must be tested. We will test the flange connection of the wellhead with a test port						
		that is	directly in the flange. We are proposing that we will run the wellhead through the						
		rotary	prior to cementing surface casing as discussed with the BLM on October 8, 2015.						
		~							

See attached schematics.

# **BOP Break Testing Request**

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.

• When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper. If the kill line is broken prior to skid, two tests will be performed.

- 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
- 2) Wellhead flange, HCR valve, check valve, upper pipe rams

If the kill line is not broken prior to skid, only one test will be performed.

1) Wellhead flange, co-flex hose, check valve, upper pipe rams

# 5. Mud Program

Depth		Trues	Weight (mmg)			
From (ft)	To (ft)	Туре	Weight (ppg)	Viscosity	Water Loss	
0	510	Water-Based Mud	8.6-8.8	40-60	N/C	
510	4177	Saturated Brine-Based Mud	9.8-10.0	35-45	N/C	
4177	12014	Water-Based or Oil- Based Mud	8.0-9.6	38-50	N/C	
12014	23345	Water-Based or Oil- Based Mud	9.5-13.5	38-50	N/C	

## Oxy USA Inc. - Nimitz MDP1 12\_1 Federal Com 42H

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

What will be used to monitor the loss or gain of fluid? PVT/MD Totco/Visual Monitoring

### 6. Logging and Testing Procedures

Logg	ing, Coring and Testing.
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole). Stated logs
	run will be in the Completion Report and submitted to the BLM.
No	Logs are planned based on well control or offset log information.
No	Drill stem test? If yes, explain
No	Coring? If yes, explain

Addi	tional logs planned	Interval
No	Resistivity	
No	Density	
No	CBL	
Yes	Mud log	ICP - TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8794 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	181°F

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM. N H2S is present

Y H2S Plan attached

8. Other facets of operation	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.	Yes
• We plan to drill the six well pad in batch by section: all surface sections,	
intermediate sections and production sections. The wellhead will be secured	
with a night cap whenever the rig is not over the well.	
Will more than one drilling rig be used for drilling operations? If yes, describe.	Yes
• Oxy requests the option to contract a Surface Rig to drill, set surface casing,	
and cement for this well. If the timing between rigs is such that Oxy would	

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# Oxy USA Inc. - Nimitz MDP1 12\_1 Federal Com 42H

not be able to preset surface, the Primary Rig will MIRU and drill the well in	
its entirety per the APD. Please see the attached document for information	
on the spudder rig.	

# Total estimated cuttings volume: <u>1770.7 bbls</u>.

# 9. Company Personnel

Name	<u>Title</u>	<b>Office Phone</b>	Mobile Phone
Linsay Earle	Drilling Engineer	713-350-4921	832-596-5507
Margaret Giltner	Drilling Engineer Supervisor	713-366-5026	210-683-8480
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
Diego Tellez	Drilling Manager	713-350-4602	713-303-4932

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

### GAS CAPTURE PLAN

Date: 07-18-2019

 $\boxtimes$  Original

Operator & OGRID No.: OXY USA INC. - 16696

□ Amended - Reason for Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

#### Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared orVent	Comments
Nimitz MDP1 12_1 FED COM 11H	Pending	D-13-T24S-R30E	826' FNL 287' FWL	2,500	0	
Nimitz MDP1 12_1 FED COM 12H	Pending	N-12-T24S-R30E	615' FSL 1703'FWL	2,500	0	
Nimitz MDP1 12_1 FED COM 13H	Pending	C-13-T24S-R30E	498' FNL 2405' FWL	2,500	0	
Nimitz MDP1 12_1 FED COM 14H	Pending	P-12-T24S-R30E	830' FSL 795' FEL	2,500	0	
Nimitz MDP1 12_1 FED COM 21H	Pending	D-13-T24S-R30E	798' FNL 276' FWL	5,500	0	
Nimitz MDP1 12_1 FED COM 22H	Pending	D-13-T24S-R30E	892' FNL 311' FWL	5,500	0	
Nimitz MDP1 12_1 FED COM 23H	Pending	N-12-T24S-R30E	644' FSL 1766' FWL	5,500	0	
Nimitz MDP1 12_1 FED COM 24H	Pending	C-13-T24S-R30E	428' FNL 2405' FWL	5,500	0	
Nimitz MDP1 12_1 FED COM 25H	Pending	P-12-T24S-R30E	830'FSL 1350' FEL	5,500	0	
Nimitz MDP1 12_1 FED COM 26H	Pending	P-12-T24S-R30E	830' FSL 730' FEL	5,500	0	
Nimitz MDP1 12_1 FED COM 41H	Pending	D-13-T24S-R30E	986' FNL 345' FWL	7,200	0	
Nimitz MDP1 12_1 FED COM 42H	Pending	D-13-T24S-R30E	1047' FNL 368' FWL	7,200	0	
Nimitz MDP1 12_1 FED COM 43H	Pending	N-12-T24S-R30E	674' FSL 1830' FWL	7,200	0	
Nimitz MDP1 12_1 FED COM 44H	Pending	N-12-T24S-R30E	716' FSL 1921' FWL	7,200	0	
Nimitz MDP1 12_1 FED COM 45H	Pending	P-12-T24S-R30E	439' FSL 1138' FEL	7,200	0	
Nimitz MDP1 12_1 FED COM 46H	Pending	P-12-T24S-R30E	115' FSL 140' FEL	7,200	0	

Nimitz MDP1 12_1 FED COM 171H	Pending	M-12-T24S-R30E	275' FSL 67' FWL	4,200	0
Nimitz MDP1 12_1 FED COM 172H	Pending	N-12-T24S-R30E	585' FSL 1639' FWL	4,200	0
Nimitz MDP1 12_1 FED COM 173H	Pending	C-13-T24S-R30E	363' FNL 2405' FWL	4,200	0
Nimitz MDP1 12_1 FED COM 174H	Pending	C-13-T24S-R30E	293' FNL 2405' FWL	4,200	0
Nimitz MDP1 12_1 FED COM 175H	Pending	P-12-T24S-R30E	439' FSL 1068' FEL	4,200	0
Nimitz MDP1 12_1 FED COM 176H	Pending	P-12-T24S-R30E	439' FSL 968' FEL	4,200	0
Nimitz MDP1 13 FED COM 11H	Pending	D-13-T24S-R30E	953' FNL 333' FWL	1,700	0
Nimitz MDP1 13 FED COM 12H	Pending	N-12-T24S-R30E	630' FSL 1734' FWL	1,700	0
Nimitz MDP1 13 FED COM 13H	Pending	C-13-T24S-R30E	533' FNL 2405' FWL	1,700	0
Nimitz MDP1 13 FED COM 14H	Pending	P-12-T24S-R30E	830' FSL 660' FEL	1,700	0
Nimitz MDP1 13 FED COM 21H	Pending	D-13-T24S-R30E	859' FNL 299' FWL	3,700	0
Nimitz MDP1 13 FED COM 22H	Pending	D-13-T24S-R30E	925' FNL 323' FWL	3,700	0
Nimitz MDP1 13 FED COM 23H	Pending	N-12-T24S-R30E	659' FSL 1798' FWL	3,700	0
Nimitz MDP1 13 FED COM 24H	Pending	C-13-T24S-R30E	463' FNL 2405' FWL	3,700	0
Nimitz MDP1 13 FED COM 25H	Pending	P-12-T24S-R30E	830' FSL 760' FEL	3,700	0
Nimitz MDP1 13 FED COM 26H	Pending	P-12-T24S-R30E	830' FSL 695' FEL	3,700	0
Nimitz MDP1 13 FED COM 41H	Pending	D-13-T24S-R30E	1014' FNL 356' FWL	5,000	0
Nimitz MDP1 13 FED COM 42H	Pending	D-13-T24S-R30E	1080' FNL 380' FWL	5,000	0
Nimitz MDP1 13 FED COM 43H	Pending	N-12-T24S-R30E	689' FSL 1862' FWL	5,000	0
Nimitz MDP1 13 FED COM 44H	Pending	N-12-T24S-R30E	704' FSL 1893' FWL	5,000	0
Nimitz MDP1 13 FED COM 45H	Pending	P-12-T24S-R30E	439' FSL 1103' FEL	5,000	0
Nimitz MDP1 13 FED COM 46H	Pending	P-12-T24S-R30E	80' FSL 140' FEL	5,000	0
Nimitz MDP1 13 FED COM 171H	Pending	M-12-T24S-R30E	275' FSL 32' FWL	2,800	0
Nimitz MDP1 13 FED COM 172H	Pending	N-12-T24S-R30E	600' FSL 1671' FWL	2,800	0
Nimitz MDP1 13 FED COM 173H	Pending	C-13-T24S-R30E	328' FNL 2405' FWL	2,800	0
Nimitz MDP1 13 FED COM 174H	Pending	C-13-T24S-R30E	393' FNL 2405' FWL	2,800	0

Nimitz MDP1 13 FED COM 175H	Pending	P-12-T24S-R30E	439' FSL 1033' FEL	2,800	0	
Nimitz MDP1 13 FED COM 176H	Pending	P-12-T24S-R30E	439' FSL 998' FEL	2,800	0	

### **Gathering System and Pipeline Notification**

Well(s) will be connected to a production facility after flowback operations are complete, where a gas transporter system is in place. The gas produced from production facility is dedicated to <u>Enterprise Field Services, LLC ("Enterprise"</u>) and is connected to <u>Enterprise</u> low/high pressure gathering system located in Eddy County, New Mexico. <u>OXY USA INC. ("OXY"</u>) provides (periodically) to <u>Enterprise</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>OXY</u> and <u>Enterprise</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Enterprise's Processing Plant located in Sec. 36, Twn. 24S, Rng. 30E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

#### **Flowback Strategy**

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on <u>Enterprise</u> system at that time. Based on current information, it is <u>OXY's</u> belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

### **Alternatives to Reduce Flaring**

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
  - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

# **WAFMSS**

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

### APD ID: 10400050959

Operator Name: OXY USA INCORPORATED

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

Well Type: OIL WELL

### Submission Date: 11/12/2019

Well Number: 42H Well Work Type: Drill

# **Section 1 - Existing Roads**

Will existing roads be used? YES

Existing Road Map:

NimitzMDP112\_1FdCom42H\_ExistRoads\_20191112121856.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

**Existing Road Improvement Description:** 

**Existing Road Improvement Attachment:** 

Will new roads be needed? YES

Section 2 - New or Reconstructed Access Roads

New Road Map: NimitzMDP112\_1FdCom42H\_NewRoads\_20191112121914.pdf NimitzMDP112\_1FdCom42H\_NewRoad\_CGL\_20191112121922.pdf New road type: LOCAL Length: 1598 Feet Width (ft.): 30 Max slope (%): 0 Max grade (%): 0 Army Corp of Engineers (ACOE) permit required? N ACOE Permit Number(s): New road travel width: 15 New road access erosion control: Watershed Diversion every 200' if needed. New road access plan or profile prepared? Y New road access plan attachment: NimitzMDP112 1FdCom42H NewRoads 20191112121939.pdf NimitzMDP112\_1FdCom42H\_NewRoad\_CGL\_20191112121946.pdf

Page 1 of 12

10/05/2020

SUPO Data Report

Highlighted data reflects the most recent changes

Show Final Text

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

Well Number: 42H

Access road engineering design? N

Access road engineering design attachment:

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 0

Offsite topsoil source description:

Onsite topsoil removal process: If available

Access other construction information: None

Access miscellaneous information: A new access road to the well pad will be built. The access road will run 63.6 west through pasture to the northeast corner of the pad. A new access road to the Sand Dunes S.C. CGL #8 pad will run 89.9 (0.017mi) in length crossing USA land in Section 8, T24S, R31E, NMPM, Eddy County, NM and being 15 left and 15 right of the centerline survey, see attached. (2) new access roads to Sand Dunes S.C. CGL # 7 pad will run (1) - 96.9 (0.018mi) in length crossing USA land in Section 7, T24S, R31E, NMPM, Eddy County, NM and being 15 left and 15 right of centerline survey, see attached, and (2) will run 739.8 (0.14mi) in length crossing northwest quarter of the northwest quarter Section 7, T24S, R31E, NMPM, Eddy County, NM and being 15 left and 15 right of centerline survey, see attached, and (2) will run 739.8 (0.14mi) in length crossing northwest quarter of the northwest quarter Section 7, T24S, R31E, NMPM, Eddy County, NM and being more particularly described in survey attached. A new access road to the Sand Dunes S.C. CGL #12 pad will be 30 wide and 608.2 (0.115) in length crossing USA land in Section 12, T24S, R31E, NMPM, Eddy County, NM, and being 15 left and 15 right of the centerline survey, see attached.

Number of access turnouts:

Access turnout map:

### Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: Watershed Diversion every 200' if needed.

Road Drainage Control Structures (DCS) description: Watershed Diversion every 200' if needed.

Road Drainage Control Structures (DCS) attachment:

**Access Additional Attachments** 

### **Section 3 - Location of Existing Wells**

Existing Wells Map? YES

Attach Well map:

NimitzMDP112\_1FdCom42H\_ExistWells\_20191112122016.pdf

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

# Section 4 - Location of Existing and/or Proposed Production Facilities

#### Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: a. In the event the well is found productive, the Sand Dunes S.C CGL #8, Sand Dunes S.C. CGL #7 and/or the Sand Dunes S.C CGL #12 would be utilized and the necessary production equipment will be installed at the well site. See proposed facilities layout diagrams. b. All flow lines will adhere to API standards. They will consist of (3) surface 4 composite flowlines per well operating 75% MAWP, lines to follow surveyed route. Survey of a strip of land 30 wide and 16,473.7(3.120 mi) in length crossing USA Land in Sections 7, T24S R31E, NMPM Lea County, NM, and being 15 left and 15 right of the centerline survey, see attached. (2) buried 8 steel gas lift lines operating 1500psig and (2) 20 steel gas sales lines operating 250 psig, all lines to follow surveyed route. Survey of a strip of land 30 wide and 18,542.6 (3.512mi) in length crossing USA land in Sections 7 & 8, T24S, R30E, NMPM, Eddy County, NM and being 15 left and 15 right of the centerline survey, see attached. All well pads have (2) 6 steel gas injection lines operating at 75% MAWP from the (2) 8 gas injection trunk lines to the wells, lines to follow surveyed route. Survey of a strip of land 30 wide and 6838.8 (1.295mi) in length crossing USA land in Sections 12& 13, T24S, R30E, NMPM, Eddy County, NM and Sections 7, 17 & 18, T24S, R31E, NMPM, Eddy County, NM, and being 15 left and 15 right of the centerline survey, see attached. c. Electric line (overhead) will follow a route approved by the BLM. Survey of a strip of land 30 wide and 582.4 (0.11mi) in length crossing USA land in Sections 13, T24S R30E NMPM, Eddy County, NM and being 15 left and 15 right of the centerline survey, see attached. An electric line to the Sand Dunes S.C. CGL #7 pad will run 121.2 (0.229mi) in length crossing Section 7 T24S R31E, NMPM, Eddy County, NM and being more particularly described in the attached survey (#19110083). An electric line to the Sand Dunes S.C. CGL #8 pad will be 30 wide and run 60.1 (0.011mi) in length crossing USA land in Section 8, T24S, R31E, NMPM, Eddy County, NM and being 15 left and 15 right of the centerline survey, see attached (#19110082). An electric line to the Sand Dunes S.C. CGL #12 pad will be 30 wide and run 1137.1 (0.215mi) in length crossing USA land in Section 12, T24S, R30E, NMPM, Eddy County, NM and being 15 left and 15 right of the centerline survey, see attached (#19110068). d. The Sand Dunes S.C. CGL #7 proposed pad is attached. This pad will contain (2) 8 buried steel gas lift lines operating 1500psig and (2) 20 buried steel gas sales lines operating 250psig, all lines to follow surveyed route. Survey for a gas pipeline crossing Section 7 T24S R31E, NMPM, Eddy County, NM and being more particularly described in the attached (#19110342). The Sand Dunes S.C. CGL #8 proposed pad is attached. The Sand Dunes S.C. CGL #12 proposed pad is attached.

#### **Production Facilities map:**

NimitzMDP112\_1FdCom42H\_LeaseFacilityInfo\_20191112122057.pdf NimitzMDP112\_1FdCom42H\_FacilityPLEL\_20191112122112.pdf

# Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: GW WELL

Water source use type: SURFACE CASING

INTERMEDIATE/PRODUCTION	
CASING	
OTHER	Describe use type: Drilling

Source latitude:

Source longitude:

Source datum:

Water source permit type: WATER WELL

Operator Name: OXY USA INCORPORATED						
Well Name: NIMITZ MDP1 12-1 FEDERAL COM		Well Number: 42H				
Water source transport method:	TRUCKING					
	PIPELINE					
Source land ownership: COMMERCIA	L					
Source transportation land ownership	: COMMERCIAL					
Water source volume (barrels): 2000		Source volume (acre-feet): 0.25778618				
Source volume (gal): 84000						

#### Water source and transportation map:

NimitzMDP112\_1FdCom42H\_GRRWtrSrc\_20191112122135.pdf NimitzMDP112\_1FdCom42H\_MesqWtrSrc\_20191112122141.pdf

**Water source comments:** This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations (Gregory Rockhouse, Mesquite) in the area and will be hauled to location by transport truck using existing and proposed roads. **New water well?** N

### **New Water Well Info**

Well latitude:	Well Longitude:	Well datum:
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness of ac	luifer:
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside di	ameter (in.):
New water well casing?	Used casing source:	
Drilling method:	Drill material:	
Grout material:	Grout depth:	
Casing length (ft.):	Casing top depth (ft.)	):
Well Production type:	Completion Method:	
Water well additional information:		
State appropriation permit:		
Additional information attachment:		

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

Well Number: 42H

# **Section 6 - Construction Materials**

#### Using any construction materials: YES

**Construction Materials description:** Primary - All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM/State/Fee approved pit or from prevailing deposits found on the location. Will use BLM recommended extra caliche from other locations close by for roads, if available. Secondary - The secondary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cubic yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel: a. The top 6" of topsoil is pushed off and stockpiled along the side of the location. b. An approximate 120' X 120' area is used within the proposed well site to remove caliche. c. Subsoil is removed and piled alongside the 120' X 120' within the pad site. d. When caliche is found, material will be stockpiled within the pad site to build the location and road. e. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road. f. Once the well is drilled the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad. Caliche will be provided from a pit located in Section 7 T24S R31E. Water will be provided from a frac pond located in Sections 7 T24S R31E.

**Construction Materials source location attachment:** 

## Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Water-Based Cuttings, Water-Based Mud, Oil-Based Cuttings, Oil-Based Mud, Produced Water

Amount of waste: 1770.7 barrels

Waste disposal frequency : Daily

Safe containment description: Haul-Off Bins

Safe containmant attachment:

**Waste disposal type:** HAUL TO COMMERCIAL **Disposal location ownership:** COMMERCIAL FACILITY

Disposal type description:

**Disposal location description:** An approved facility that can process drill cuttings, drill fluids, flowback water, produced water, contaminated soils, and other non-hazardous wastes.

**Reserve Pit** 

Reserve Pit being used? N

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

**Reserve pit liner** 

Reserve pit liner specifications and installation description

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

Well Number: 42H

# **Cuttings Area**

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility. Cuttings area length (ft.) Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

## **Section 8 - Ancillary Facilities**

Are you requesting any Ancillary Facilities?: N

**Ancillary Facilities attachment:** 

Comments:

### Section 9 - Well Site Layout

Well Site Layout Diagram:

NimitzMDP112\_1FdCom42H\_WellSiteCL\_20191112122237.pdf

Comments: V-Door-Northwest - CL Tanks - Southwest- 330' X 710' 10 Well Pad

## Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance	Multiple Well Pad Name: Nimitz MDP1 12-1 & 13 Federal Com		
Recontouring attachment:	Multiple Well Pad Number: 21H, 11H, 22H, 41H, 42H & 21H, 22H, 11H, 41H, 42H		

Drainage/Erosion control construction: Reclamation to be wind rowed as needed to control erosion Drainage/Erosion control reclamation: Reclamation to be wind rowed as needed to control erosion

Operator Name: OXY USA INCORPOR Well Name: NIMITZ MDP1 12-1 FEDE		
Well pad proposed disturbance (acres): 5.38 Road proposed disturbance (acres): 1.1 Powerline proposed disturbance (acres): 1.31 Pipeline proposed disturbance (acres): 29.17 Other proposed disturbance (acres): 0	Well pad interim reclamation (acres): 1.52 Road interim reclamation (acres): 0.59 Powerline interim reclamation (acres): 1.31 Pipeline interim reclamation (acres): 19.45 Other interim reclamation (acres): 0	(acres): 3.86 Road long term disturbance (acres): 0.51
Total proposed disturbance: 36.96	Total interim reclamation: 22.8699999999999997	Total long term disturbance: 14.09

Disturbance Comments: See Below

**Reconstruction method:** If the well is deemed commercially productive, caliche from the areas of the pad site not required for operations will be reclaimed. The original topsoil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original topsoil will again be returned to the pad and contoured, as close as possible, to the original topography, and the area will be seeded with an approved BLM mixture to re-establish.

Topsoil redistribution: The original topsoil will be returned to the area of the drill pad not necessary to operate the well.

Soil treatment: To be determined by the BLM.

Existing Vegetation at the well pad: To be determined by the BLM at Onsite.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: To be determined by the BLM at Onsite.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: To be determined by the BLM at Onsite.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: To be determined by the BLM at Onsite.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project?  ${\sf N}$ 

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N Seed harvest description:

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

Well Number: 42H

#### Seed harvest description attachment:

Seed Management

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type Seed reclamation attachment:

## **Operator Contact/Responsible Official Contact Info**

**Pounds/Acre** 

First Name:

Phone: (575)631-2442

Last Name: Email: Jim\_Wilson@oxy.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: To be determined by the BLM.

Weed treatment plan attachment:

Monitoring plan description: To be determined by the BLM.

Monitoring plan attachment:

Success standards: To be determined by the BLM.

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

Well Number: 42H

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

- **COE Local Office:**
- DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

**USFWS Local Office:** 

Other Local Office:

**USFS Region:** 

**USFS Forest/Grassland:** 

**USFS Ranger District:** 

Disturbance type: PIPELINE	
Describe:	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

Well Number: 42H

Disturbance type: OTHER	
Describe: Electric Line	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

Disturbance type: NEW ACCESS ROAD **Describe:** Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: **BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office: Other Local Office: USFS Region: USFS Forest/Grassland: USFS Ranger District:** 

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

Well Number: 42H

Disturbance type: OTHER	
Describe: CGLs	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

## Section 12 - Other Information

Right of Way needed? Y

#### Use APD as ROW? Y

**ROW Type(s):** 281001 ROW - ROADS,285003 ROW – POWER TRANS,288100 ROW – O&G Pipeline,288101 ROW – O&G Facility Sites,289001 ROW- O&G Well Pad

**ROW Applications** 

**SUPO Additional Information:** Permian Basin MOA - To be submitted after APD acceptance. GIS Shapefiles available for BLM download from shared FTP site after APD submittal. **Use a previously conducted onsite?** N

Previous Onsite information:

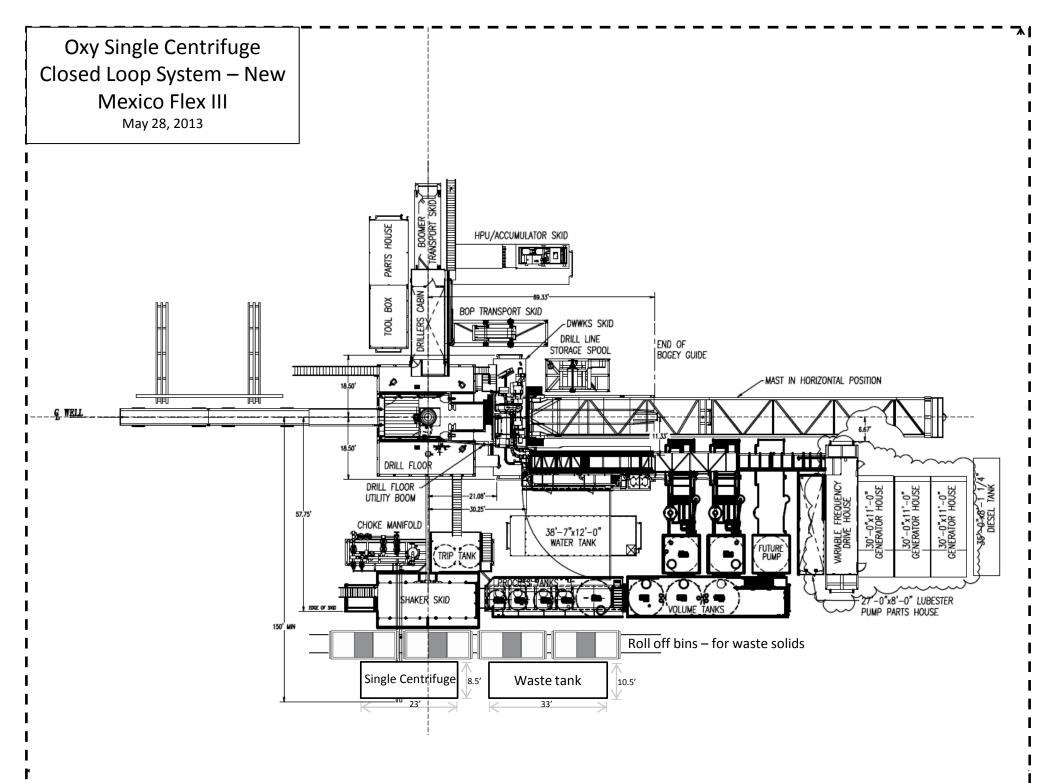
**Other SUPO Attachment** 

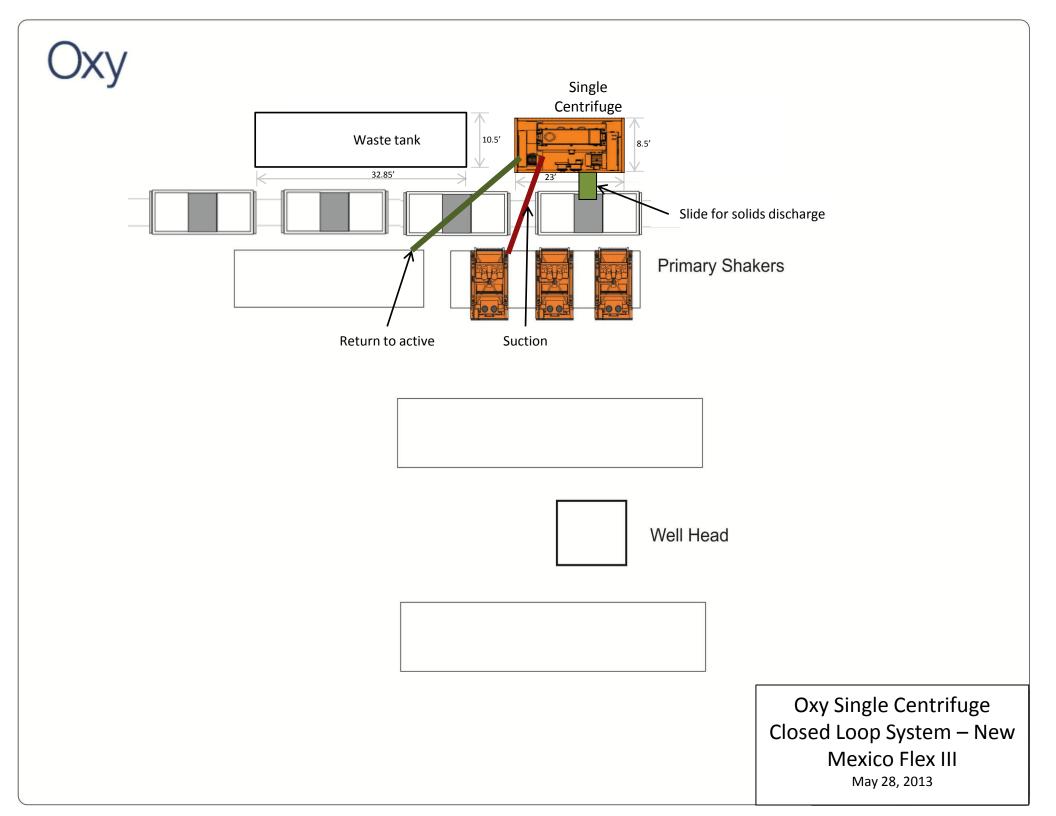
NimitzMDP112\_1FdCom42H\_SUPO\_20191112122330.pdf

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

Well Number: 42H

NimitzMDP112\_1FdCom42H\_StakeForm\_20191112122337.pdf NimitzMDP112\_1FdCom42H\_GasCapPlan\_20191112122344.pdf NimitzMDP112\_1FdCom42H\_MiscSvyPlats\_20191112122401.pdf







U.S. Department of the Interior BUREAU OF LAND MANAGEMENT PWD Data Report

APD ID: 10400050959

Operator Name: OXY USA INCORPORATED

Well Name: NIMITZ MDP1 12-1 FEDERAL COM

Well Type: OIL WELL

Submission Date: 11/12/2019

Well Number: 42H Well Work Type: Drill

**Section 1 - General** 

Would you like to address long-term produced water disposal? NO

# Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? N Produced Water Disposal (PWD) Location: **PWD surface owner:** Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment:

**PWD disturbance (acres):** 

Operator Name: OXY USA INCORPORATED Well Name: NIMITZ MDP1 12-1 FEDERAL COM

Well Number: 42H

Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment:

## **Section 3 - Unlined Pits**

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

**Unlined pit Monitor attachment:** 

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

**Unlined Produced Water Pit Estimated percolation:** 

Unlined pit: do you have a reclamation bond for the pit?

Well Number: 42H

Is the reclamation bond a rider under the BLM bond?	
Unlined pit bond number:	
Unlined pit bond amount:	
Additional bond information attachment:	
Section 4 - Injection	
Would you like to utilize Injection PWD options? N	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Injection PWD discharge volume (bbl/day):	
Injection well mineral owner:	
Injection well type:	
Injection well number:	Injection well name:
Assigned injection well API number?	Injection well API number:
Injection well new surface disturbance (acres):	
Minerals protection information:	
Mineral protection attachment:	
Underground Injection Control (UIC) Permit?	
UIC Permit attachment:	
Section 5 - Surface Discharge	
Would you like to utilize Surface Discharge PWD options? ${\sf N}$	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Surface discharge PWD discharge volume (bbl/day):	
Surface Discharge NPDES Permit?	
Surface Discharge NPDES Permit attachment:	
Surface Discharge site facilities information:	
Surface discharge site facilities map:	
Section 6 - Other	
Would you like to utilize Other PWD options? N	

Produced Water Disposal (PWD) Location: PWD surface owner:

Other PWD discharge volume (bbl/day):

PWD disturbance (acres):

Operator Name: OXY USA INCORPORATED Well Name: NIMITZ MDP1 12-1 FEDERAL COM

Well Number: 42H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



Bond Info Data Report

10/05/2020

Highlighted data reflects the most

recent changes

Show Final Text

APD ID: 10400050959

Operator Name: OXY USA INCORPORATED Well Name: NIMITZ MDP1 12-1 FEDERAL COM Well Type: OIL WELL

### Submission Date: 11/12/2019

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Well Number: 42H Well Work Type: Drill

# **Bond Information**

Federal/Indian APD: FED BLM Bond number: ESB000226 BIA Bond number: Do you have a reclamation bond? NO Is the reclamation bond a rider under the BLM bond? Is the reclamation bond BLM or Forest Service? BLM reclamation bond number: Forest Service reclamation bond number: Forest Service reclamation bond attachment: Reclamation bond number: Reclamation bond amount: Reclamation bond rider amount: Additional reclamation bond information attachment: