

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

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

1a. Type of work: ☒ DRILL ☐ REENTER 1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☒ Multiple Zone		5. Lease Serial No. NMNM082896 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. NIMITZ MDP1 13 FEDERAL COM 41H 9. API Well No. 30-015-47511
2. Name of Operator OXY USA INCORPORATED 3a. Address 5 Greenway Plaza, Suite 110, Houston, TX 77046 3b. Phone No. (include area code) (713) 366-5716		10. Field and Pool, or Exploratory Putple Sage Wolfcamp COTTON-DRAW-BONE-SPRING/COTTO 11. Sec., T. R. M. or Blk. and Survey or Area SEC 13/T24S/R30E/NMP
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNW / 1014 FNL / 356 FWL / LAT 32.222379 / LONG -103.841773 At proposed prod. zone SWSW / 20 FSL / 430 FWL / LAT 32.210694 / LONG -103.841578		12. County or Parish EDDY 13. State NM
14. Distance in miles and direction from nearest town or post office* 13 miles		15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 20 feet 16. No of acres in lease 880 17. Spacing Unit dedicated to this well 320.0 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 35 feet 19. Proposed Depth 12487 feet / 18125 feet 20. BLM/BIA Bond No. in file FED: ESB000226 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3486 feet 22. Approximate date work will start* 12/01/2020 23. Estimated duration 45 days 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

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

25. Signature (Electronic Submission) Title Advisor Regulatory	Name (Printed/Typed) LESLIE REEVES / Ph: (713) 366-5716	Date 11/12/2019
Approved by (Signature) (Electronic Submission) Title Assistant Field Manager Lands & Minerals	Name (Printed/Typed) Cody Layton / Ph: (575) 234-5959 Office Carlsbad Field Office	Date 08/28/2020

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

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

Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string

- Will require a directional survey with the C-104
- NSL Will require a administrative order for non-standard location prior to placing the well on production.

(Continued on page 2)

Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.

KP 9/21/2020 Geo Rev

*(Instructions on page 2)

Entered 9/30/2020 - JAG

APPROVED WITH CONDITIONS

Approval Date: 08/28/2020

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 746-1283 Fax: (575) 746-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015- 47511	Pool Code 98220	Pool Name PURPLE SAGE; WOLFCAMP
Property Code 319776	Property Name NIMITZ MDP1 13 FEDERAL COM	Well Number 41H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3485.9'

Surface Location

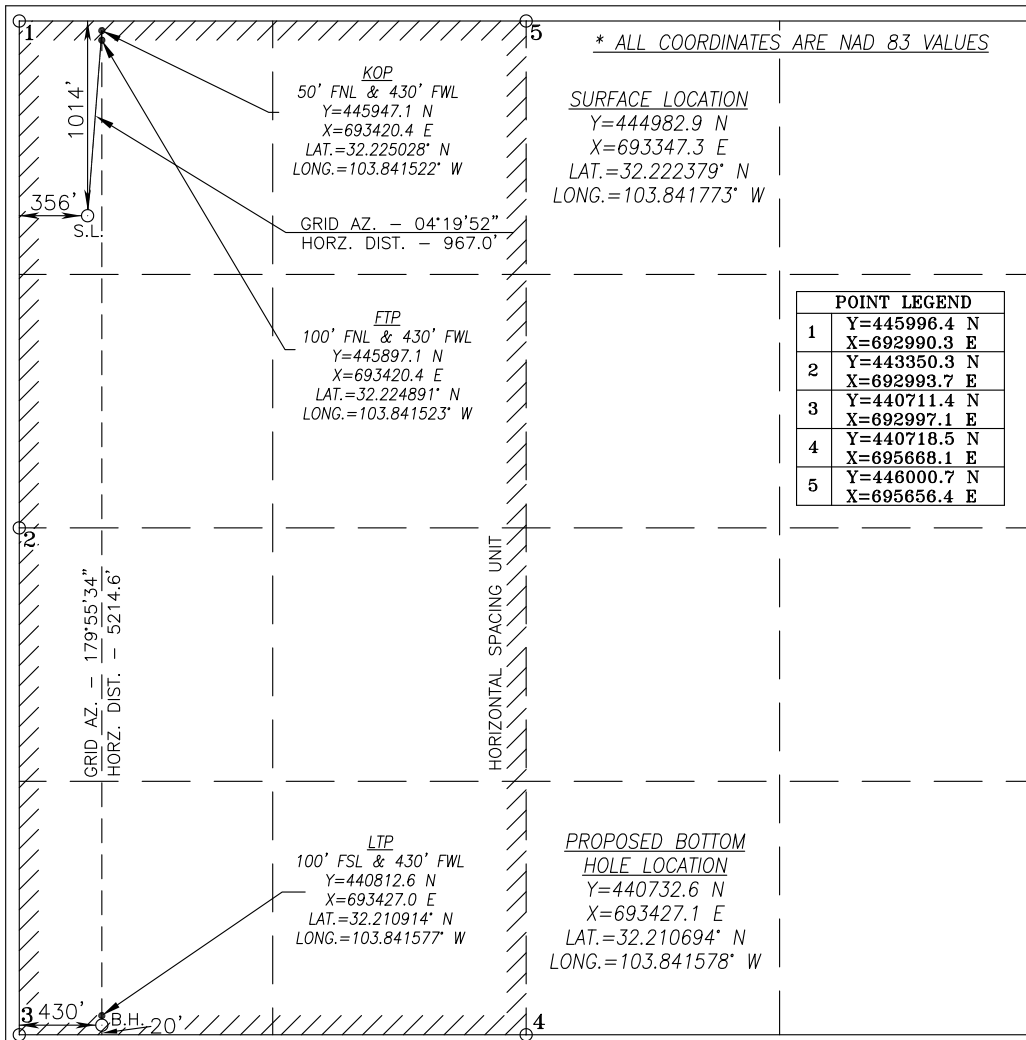
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	13	24-S	30-E		1014	NORTH	356	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	13	24-S	30-E		20	SOUTH	430	WEST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

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

Leslie Reeves 11/11/19
Signature Date
LESLIE REEVES
Printed Name
LESLIE_REEVES@OXY.COM
E-mail Address

SURVEYOR CERTIFICATION

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

FEBRUARY 2, 2019

Date of Survey

Signature & Seal of Professional Surveyor



6/13/19
Certificate No. CHAD HARCROW 17777
W.O. #19-1037 DRAWN BY: WN

Intent ☒ As Drilled ☐

API #
30-015-

Operator Name:	Property Name:	Well Number
OXY USA INC.	NIMITZ MDP1 13 FEDERAL COM	41H

Kick Off Point (KOP)

UL D	Section 13	Township 24S	Range 30E	Lot	Feet 50	From N/S FNL	Feet 430	From E/W FWL	County EDDY
Latitude 32.225028					Longitude -103.841522			NAD NAD83	

First Take Point (FTP)

UL D	Section 13	Township 24S	Range 30E	Lot	Feet 100	From N/S FNL	Feet 430	From E/W FWL	County EDDY
Latitude 32.224891					Longitude -103.841523			NAD NAD83	

Last Take Point (LTP)

UL M	Section 13	Township 24S	Range 30E	Lot	Feet 100	From N/S FNL	Feet 430	From E/W FWL	County EDDY
Latitude 32.210914					Longitude -103.841578			NAD NAD83	

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

Is this well an infill well? ☐ Y

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 SURFACE USE CONDITIONS OF APPROVAL

Proposed Well Name	Surface Hole Location	Legal Location*	Surface Ownership
		Section 12, Township 24 South, Range 30 East	BLM
Nimitz MDP1 12-1 Federal Com 12H	615 FSL 1703 FWL		
Nimitz MDP1 12-1 Federal Com 14H	830 FSL 795 FEL		
Nimitz MDP1 12-1 Federal Com 23H	644 FSL 1766 FWL		
Nimitz MDP1 12-1 Federal Com 25H	830 FSL 830 FEL		
Nimitz MDP1 12-1 Federal Com 26H	830 FSL 730 FEL		
Nimitz MDP1 12-1 Federal Com 43H	674 FSL 1830 FWL		
Nimitz MDP1 12-1 Federal Com 44H	716 FSL 1921 FWL		
Nimitz MDP1 12-1 Federal Com 45H	439 FSL 1138 FEL		
Nimitz MDP1 12-1 Federal Com 46H	115 FSL 140 <u>FEL</u>		
Nimitz MDP1 12-1 Federal Com 171H	275 FSL 667 FWL		
Nimitz MDP1 12-1 Federal Com 172H	585 FSL 1639 FWL		
Nimitz MDP1 12-1 Federal Com 175H	439 FSL 1068 FEL		
Nimitz MDP1 12-1 Federal Com 176H	439 FSL 968 FEL		
Nimitz MDP1 13 Federal Com 12H	630 FSL 1734 FWL		
Nimitz MDP1 13 Federal Com 14H	830 FSL 660 FEL		
Nimitz MDP1 13 Federal Com 23H	659 FSL 1798 FWL		
Nimitz MDP1 13 Federal Com 25H	830 FSL 760 FEL		
Nimitz MDP1 13 Federal Com 26H	830 FSL 695 FEL		
Nimitz MDP1 13 Federal Com 43H	689 FSL 1862 FWL		
Nimitz MDP1 13 Federal Com 44H	704 FSL 1893 FWL		
Nimitz MDP1 13 Federal Com 45H	439 FSL 1103 FEL		
Nimitz MDP1 13 Federal Com 46H	80 FSL 140 FEL		
Nimitz MDP1 13 Federal Com 171H	275 FSL 32 FWL		
Nimitz MDP1 13 Federal Com 172H	600 FSL 1671 FWL		
Nimitz MDP1 13 Federal Com 175H	439 FSL 1033 FEL		
Nimitz MDP1 13 Federal Com 176H	439 FSL 998 FEL		
Nimitz MDP1 12-1 Federal Com 11H	826 FNL 287 FWL	Section 13, Township 24 South, Range 30 East	
Nimitz MDP1 13 Federal Com 11H	953 FNL 333 FWL		
Nimitz MDP1 12-1 Federal Com 13H	498 FNL 2405 FWL		

Proposed Well Name	Surface Hole Location	Legal Location*	Surface Ownership
Nimitz MDP1 13 Federal Com 13H	533 FNL 2405 FWL		
Nimitz MDP1 12-1 Federal Com 21H	798 FNL 276 FWL		
Nimitz MDP1 13 Federal Com 21H	859 FNL 299 FWL		
Nimitz MDP1 12-1 Federal Com 22H	892 FNL 311 FWL		
Nimitz MDP1 13 Federal Com 22H	925 FNL 323 FWL		
Nimitz MDP1 12-1 Federal Com 24H	428 FNL 2405 FWL		
Nimitz MDP1 13 Federal Com 24H	463 FNL 2405 FWL		
Nimitz MDP1 12-1 Federal Com 41H	986 FNL 345 FWL		
Nimitz MDP1 13 Federal Com 41H	1014 FNL 356 FWL		
Nimitz MDP1 13 Federal Com 42H	1080 FNL 380 FWL		
Nimitz MDP1 12-1 Federal Com 42H	1047 FNL 368 FWL		
Nimitz MDP1 12-1 Federal Com 173H	363 FNL 2405 FWL		
Nimitz MDP1 13 Federal Com 173H	328 FNL 2405 FWL		
Nimitz MDP1 12-1 Federal Com 174H	293 FNL 2405 FWL		
Nimitz MDP1 13 Federal Com 174H	393 FNL 2405 FWL		

FSL = feet from south line; FEL = feet from east line; FWL = feet from west line; FNL = feet from north line

*NMPM

TABLE OF CONTENTS

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

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☒ **Special Requirements**
 - Lesser Prairie-Chicken Timing Stipulations
 - Hydrology
 - Range
- ☐ **Construction**
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- ☐ **Road Section Diagram**
- ☒ **Production (Post Drilling)**

Well Structures & Facilities

Pipelines

Electric Lines

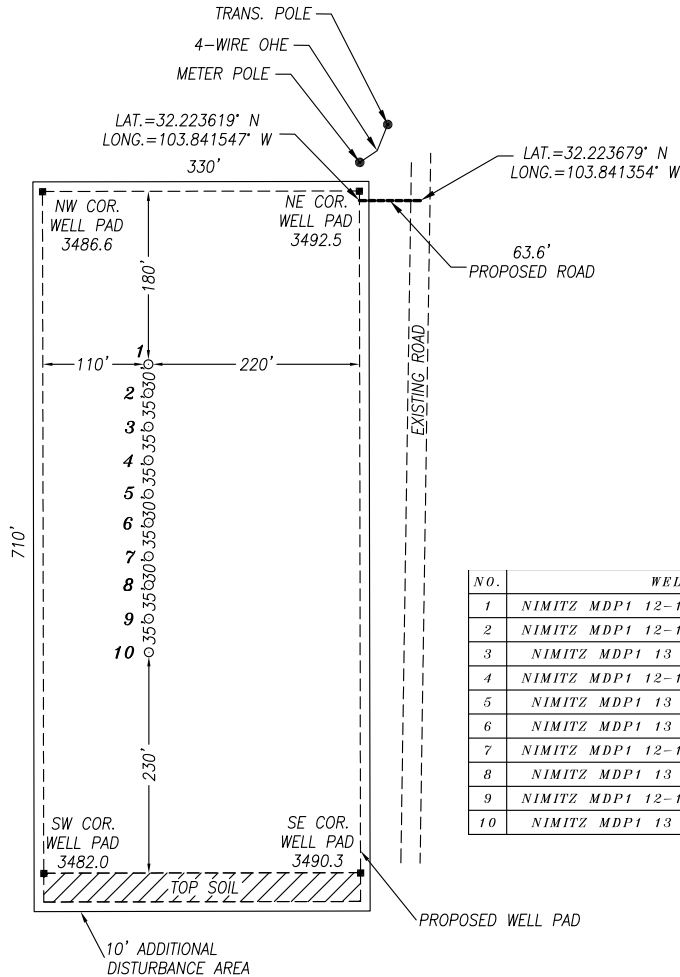
Oil and Gas Sites

☐ **Interim Reclamation**

☐ **Final Abandonment & Reclamation**

OXY USA INC.

SITE PLAN PAD 1317 FAA PERMIT: NO



NO.	WELL	FOOTAGE	LAT.	LONG.	ELEV.
1	NIMITZ MDP1 12-1 FED COM #21H	798' FNL & 276' FWL	32.222973° N	103.842027° W	3488.1'
2	NIMITZ MDP1 12-1 FED COM #11H	826' FNL & 287' FWL	32.222895° N	103.841994° W	3487.0'
3	NIMITZ MDP1 13 FED COM #21H	859' FNL & 299' FWL	32.222805° N	103.841955° W	3487.2'
4	NIMITZ MDP1 12-1 FED COM #22H	892' FNL & 311' FWL	32.222714° N	103.841917° W	3487.2'
5	NIMITZ MDP1 13 FED COM #22H	925' FNL & 323' FWL	32.222624° N	103.841878° W	3486.8'
6	NIMITZ MDP1 13 FED COM #11H	953' FNL & 333' FWL	32.222546° N	103.841845° W	3486.4'
7	NIMITZ MDP1 12-1 FED COM #41H	986' FNL & 345' FWL	32.222456° N	103.841806° W	3486.2'
8	NIMITZ MDP1 13 FED COM #41H	1014' FNL & 356' FWL	32.222379° N	103.841773° W	3485.9'
9	NIMITZ MDP1 12-1 FED COM #42H	1047' FNL & 368' FWL	32.222288° N	103.841734° W	3485.7'
10	NIMITZ MDP1 13 FED COM #42H	1080' FNL & 380' FWL	32.222198° N	103.841695° W	3485.5'

NOTES:

- 1) LATs & LONGs SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
- 2) DISTANCES ARE GRID VALUES.
- 3) ALL FEATURES ARE EXISTING UNLESS OTHERWISE NOTED

CERTIFICATION

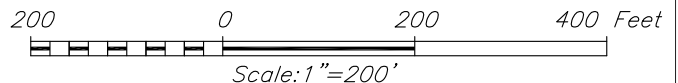
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



Chad Harcrow
CHAD HARCROW N.M.P.S. NO. 17777

6/12/19
DATE

HARCROW SURVEYING, LLC
2316 W. MAIN ST, ARTESIA, N.M. 88210
PH: (575) 746-2158
c.harcrow@harcrowsurveying.com



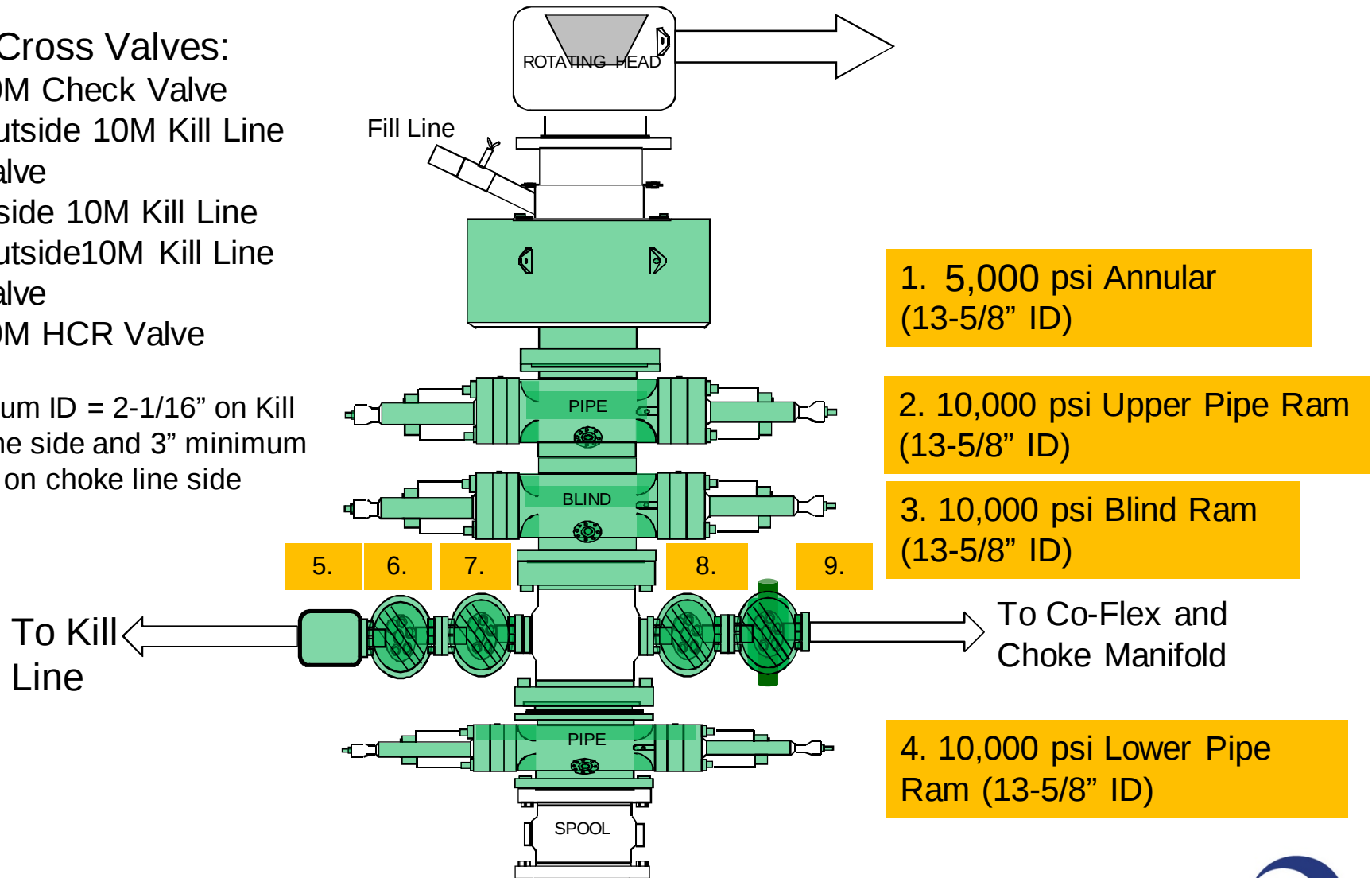
OXY USA INC.		
SURVEY DATE: FEB. 2, 2019	SITE PLAN	
DRAFTING DATE: JUNE 10, 2019	PAGE: 1 OF 1	
APPROVED BY: CH	DRAWN BY: WN	FILE: 19-1030

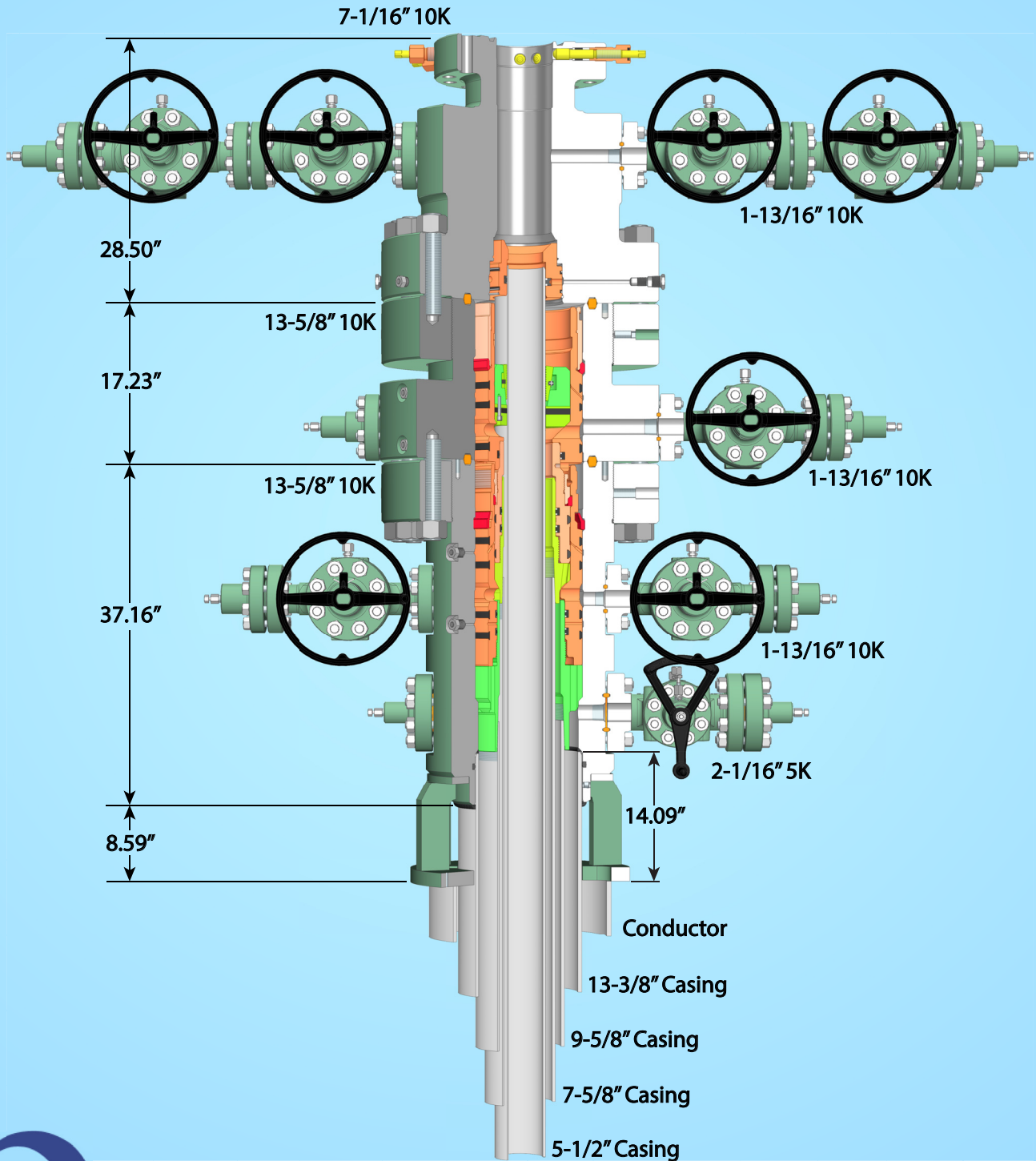
5/10M BOP Stack

Mud Cross Valves:

5. 10M Check Valve
6. Outside 10M Kill Line Valve
7. Inside 10M Kill Line Valve
8. Outside 10M Kill Line Valve
9. 10M HCR Valve

*Minimum ID = 2-1/16" on Kill Line side and 3" minimum ID on choke line side





OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Nimitz MDP1 13

Nimitz MDP1 13 Federal Com 41H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

11 July, 2019

Oxy

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nimitz MDP1 13 Federal Com 41H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3512.40ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3512.40ft
Site:	Nimitz MDP1 13	North Reference:	Grid
Well:	Nimitz MDP1 13 Federal Com 41H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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

Site	Nimitz MDP1 13				
Site Position:		Northing:	445,742.28 usft	Latitude:	32° 13' 27.984385 N
From:	Map	Easting:	695,395.61 usft	Longitude:	103° 50' 6.496371 W
Position Uncertainty:	50.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.27 °

Well	Nimitz MDP1 13 Federal Com 41H					
Well Position	+N/-S	-759.43 ft	Northing:	444,982.90 usft	Latitude:	32° 13' 20.563146 N
	+E/-W	-2,048.44 ft	Easting:	693,347.30 usft	Longitude:	103° 50' 30.381936 W
Position Uncertainty		2.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	3,485.90 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	7/11/2019	6.82	59.90	47,898

Design	Permitting Plan			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	178.92

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,590.00	0.00	0.00	3,590.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,190.06	12.00	2.58	4,185.68	62.55	2.82	2.00	2.00	0.00	2.58	
10,981.41	12.00	2.58	10,828.60	1,473.26	66.51	0.00	0.00	0.00	0.00	
12,181.15	12.00	179.93	12,019.57	1,473.14	72.38	2.00	0.00	14.78	178.64	
12,959.59	89.84	179.93	12,473.40	914.26	73.10	10.00	10.00	0.00	0.00	FTP (Nimitz MDP1
18,124.46	89.84	179.93	12,487.40	-4,250.58	79.81	0.00	0.00	0.00	0.00	PBHL (Nimitz MDP1

Oxy

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nimitz MDP1 13 Federal Com 41H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3512.40ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3512.40ft
Site:	Nimitz MDP1 13	North Reference:	Grid
Well:	Nimitz MDP1 13 Federal Com 41H	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)
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
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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
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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
3,590.00	0.00	0.00	3,590.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.20	2.58	3,600.00	0.02	0.00	-0.02	2.00	2.00	0.00
3,700.00	2.20	2.58	3,699.97	2.11	0.10	-2.11	2.00	2.00	0.00
3,800.00	4.20	2.58	3,799.81	7.69	0.35	-7.68	2.00	2.00	0.00
3,900.00	6.20	2.58	3,899.40	16.74	0.76	-16.72	2.00	2.00	0.00
4,000.00	8.20	2.58	3,998.60	29.26	1.32	-29.23	2.00	2.00	0.00
4,100.00	10.20	2.58	4,097.31	45.23	2.04	-45.18	2.00	2.00	0.00
4,190.06	12.00	2.58	4,185.68	62.55	2.82	-62.49	2.00	2.00	0.00
4,200.00	12.00	2.58	4,195.40	64.62	2.92	-64.55	0.00	0.00	0.00
4,300.00	12.00	2.58	4,293.22	85.39	3.85	-85.30	0.00	0.00	0.00
4,400.00	12.00	2.58	4,391.03	106.16	4.79	-106.05	0.00	0.00	0.00
4,500.00	12.00	2.58	4,488.85	126.93	5.73	-126.80	0.00	0.00	0.00
4,600.00	12.00	2.58	4,586.66	147.70	6.67	-147.55	0.00	0.00	0.00
4,700.00	12.00	2.58	4,684.48	168.48	7.61	-168.30	0.00	0.00	0.00
4,800.00	12.00	2.58	4,782.29	189.25	8.54	-189.06	0.00	0.00	0.00
4,900.00	12.00	2.58	4,880.10	210.02	9.48	-209.81	0.00	0.00	0.00
5,000.00	12.00	2.58	4,977.92	230.79	10.42	-230.56	0.00	0.00	0.00
5,100.00	12.00	2.58	5,075.73	251.57	11.36	-251.31	0.00	0.00	0.00

Oxy

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nimitz MDP1 13 Federal Com 41H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3512.40ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3512.40ft
Site:	Nimitz MDP1 13	North Reference:	Grid
Well:	Nimitz MDP1 13 Federal Com 41H	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)
5,200.00	12.00	2.58	5,173.55	272.34	12.29	-272.06	0.00	0.00	0.00
5,300.00	12.00	2.58	5,271.36	293.11	13.23	-292.81	0.00	0.00	0.00
5,400.00	12.00	2.58	5,369.18	313.88	14.17	-313.56	0.00	0.00	0.00
5,500.00	12.00	2.58	5,466.99	334.65	15.11	-334.31	0.00	0.00	0.00
5,600.00	12.00	2.58	5,564.81	355.43	16.04	-355.06	0.00	0.00	0.00
5,700.00	12.00	2.58	5,662.62	376.20	16.98	-375.81	0.00	0.00	0.00
5,800.00	12.00	2.58	5,760.43	396.97	17.92	-396.56	0.00	0.00	0.00
5,900.00	12.00	2.58	5,858.25	417.74	18.86	-417.31	0.00	0.00	0.00
6,000.00	12.00	2.58	5,956.06	438.51	19.80	-438.07	0.00	0.00	0.00
6,100.00	12.00	2.58	6,053.88	459.29	20.73	-458.82	0.00	0.00	0.00
6,200.00	12.00	2.58	6,151.69	480.06	21.67	-479.57	0.00	0.00	0.00
6,300.00	12.00	2.58	6,249.51	500.83	22.61	-500.32	0.00	0.00	0.00
6,400.00	12.00	2.58	6,347.32	521.60	23.55	-521.07	0.00	0.00	0.00
6,500.00	12.00	2.58	6,445.13	542.38	24.48	-541.82	0.00	0.00	0.00
6,600.00	12.00	2.58	6,542.95	563.15	25.42	-562.57	0.00	0.00	0.00
6,700.00	12.00	2.58	6,640.76	583.92	26.36	-583.32	0.00	0.00	0.00
6,800.00	12.00	2.58	6,738.58	604.69	27.30	-604.07	0.00	0.00	0.00
6,900.00	12.00	2.58	6,836.39	625.46	28.24	-624.82	0.00	0.00	0.00
7,000.00	12.00	2.58	6,934.21	646.24	29.17	-645.57	0.00	0.00	0.00
7,100.00	12.00	2.58	7,032.02	667.01	30.11	-666.33	0.00	0.00	0.00
7,200.00	12.00	2.58	7,129.83	687.78	31.05	-687.08	0.00	0.00	0.00
7,300.00	12.00	2.58	7,227.65	708.55	31.99	-707.83	0.00	0.00	0.00
7,400.00	12.00	2.58	7,325.46	729.32	32.92	-728.58	0.00	0.00	0.00
7,500.00	12.00	2.58	7,423.28	750.10	33.86	-749.33	0.00	0.00	0.00
7,600.00	12.00	2.58	7,521.09	770.87	34.80	-770.08	0.00	0.00	0.00
7,700.00	12.00	2.58	7,618.91	791.64	35.74	-790.83	0.00	0.00	0.00
7,800.00	12.00	2.58	7,716.72	812.41	36.67	-811.58	0.00	0.00	0.00
7,900.00	12.00	2.58	7,814.53	833.18	37.61	-832.33	0.00	0.00	0.00
8,000.00	12.00	2.58	7,912.35	853.96	38.55	-853.08	0.00	0.00	0.00
8,100.00	12.00	2.58	8,010.16	874.73	39.49	-873.83	0.00	0.00	0.00
8,200.00	12.00	2.58	8,107.98	895.50	40.43	-894.58	0.00	0.00	0.00
8,300.00	12.00	2.58	8,205.79	916.27	41.36	-915.34	0.00	0.00	0.00
8,400.00	12.00	2.58	8,303.61	937.05	42.30	-936.09	0.00	0.00	0.00
8,500.00	12.00	2.58	8,401.42	957.82	43.24	-956.84	0.00	0.00	0.00
8,600.00	12.00	2.58	8,499.23	978.59	44.18	-977.59	0.00	0.00	0.00
8,700.00	12.00	2.58	8,597.05	999.36	45.11	-998.34	0.00	0.00	0.00
8,800.00	12.00	2.58	8,694.86	1,020.13	46.05	-1,019.09	0.00	0.00	0.00
8,900.00	12.00	2.58	8,792.68	1,040.91	46.99	-1,039.84	0.00	0.00	0.00
9,000.00	12.00	2.58	8,890.49	1,061.68	47.93	-1,060.59	0.00	0.00	0.00
9,100.00	12.00	2.58	8,988.31	1,082.45	48.86	-1,081.34	0.00	0.00	0.00
9,200.00	12.00	2.58	9,086.12	1,103.22	49.80	-1,102.09	0.00	0.00	0.00
9,300.00	12.00	2.58	9,183.93	1,123.99	50.74	-1,122.84	0.00	0.00	0.00
9,400.00	12.00	2.58	9,281.75	1,144.77	51.68	-1,143.60	0.00	0.00	0.00
9,500.00	12.00	2.58	9,379.56	1,165.54	52.62	-1,164.35	0.00	0.00	0.00
9,600.00	12.00	2.58	9,477.38	1,186.31	53.55	-1,185.10	0.00	0.00	0.00
9,700.00	12.00	2.58	9,575.19	1,207.08	54.49	-1,205.85	0.00	0.00	0.00
9,800.00	12.00	2.58	9,673.01	1,227.86	55.43	-1,226.60	0.00	0.00	0.00
9,900.00	12.00	2.58	9,770.82	1,248.63	56.37	-1,247.35	0.00	0.00	0.00
10,000.00	12.00	2.58	9,868.63	1,269.40	57.30	-1,268.10	0.00	0.00	0.00
10,100.00	12.00	2.58	9,966.45	1,290.17	58.24	-1,288.85	0.00	0.00	0.00
10,200.00	12.00	2.58	10,064.26	1,310.94	59.18	-1,309.60	0.00	0.00	0.00
10,300.00	12.00	2.58	10,162.08	1,331.72	60.12	-1,330.35	0.00	0.00	0.00
10,400.00	12.00	2.58	10,259.89	1,352.49	61.05	-1,351.10	0.00	0.00	0.00
10,500.00	12.00	2.58	10,357.71	1,373.26	61.99	-1,371.85	0.00	0.00	0.00

Oxy

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nimitz MDP1 13 Federal Com 41H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3512.40ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3512.40ft
Site:	Nimitz MDP1 13	North Reference:	Grid
Well:	Nimitz MDP1 13 Federal Com 41H	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)
10,600.00	12.00	2.58	10,455.52	1,394.03	62.93	-1,392.61	0.00	0.00	0.00
10,700.00	12.00	2.58	10,553.33	1,414.80	63.87	-1,413.36	0.00	0.00	0.00
10,800.00	12.00	2.58	10,651.15	1,435.58	64.81	-1,434.11	0.00	0.00	0.00
10,900.00	12.00	2.58	10,748.96	1,456.35	65.74	-1,454.86	0.00	0.00	0.00
10,981.41	12.00	2.58	10,828.60	1,473.26	66.51	-1,471.75	0.00	0.00	0.00
11,000.00	11.63	2.63	10,846.79	1,477.06	66.68	-1,475.55	2.00	-2.00	0.24
11,100.00	9.63	2.92	10,945.07	1,495.49	67.57	-1,493.95	2.00	-2.00	0.29
11,200.00	7.63	3.36	11,043.93	1,510.47	68.38	-1,508.92	2.00	-2.00	0.44
11,300.00	5.63	4.12	11,143.26	1,522.00	69.13	-1,520.43	2.00	-2.00	0.76
11,400.00	3.64	5.71	11,242.93	1,530.05	69.80	-1,528.47	2.00	-2.00	1.58
11,500.00	1.65	11.11	11,342.81	1,534.62	70.39	-1,533.03	2.00	-1.99	5.41
11,600.00	0.47	144.16	11,442.80	1,535.70	70.91	-1,534.10	2.00	-1.18	133.05
11,700.00	2.39	174.47	11,542.77	1,533.29	71.35	-1,531.68	2.00	1.92	30.31
11,800.00	4.38	177.57	11,642.59	1,527.40	71.71	-1,525.78	2.00	1.99	3.10
11,900.00	6.38	178.73	11,742.14	1,518.02	71.99	-1,516.41	2.00	2.00	1.16
12,000.00	8.38	179.34	11,841.31	1,505.18	72.20	-1,503.56	2.00	2.00	0.61
12,100.00	10.38	179.71	11,939.97	1,488.89	72.33	-1,487.27	2.00	2.00	0.38
12,181.15	12.00	179.93	12,019.57	1,473.14	72.38	-1,471.53	2.00	2.00	0.26
12,200.00	13.89	179.93	12,037.94	1,468.92	72.39	-1,467.30	10.00	10.00	0.00
12,300.00	23.89	179.93	12,132.44	1,436.60	72.43	-1,434.98	10.00	10.00	0.00
12,400.00	33.89	179.93	12,219.89	1,388.35	72.49	-1,386.75	10.00	10.00	0.00
12,500.00	43.89	179.93	12,297.63	1,325.66	72.57	-1,324.06	10.00	10.00	0.00
12,600.00	53.89	179.93	12,363.30	1,250.41	72.67	-1,248.83	10.00	10.00	0.00
12,700.00	63.89	179.93	12,414.91	1,164.91	72.78	-1,163.34	10.00	10.00	0.00
12,800.00	73.89	179.93	12,450.89	1,071.74	72.90	-1,070.18	10.00	10.00	0.00
12,900.00	83.89	179.93	12,470.14	973.74	73.03	-972.20	10.00	10.00	0.00
12,959.59	89.84	179.93	12,473.40	914.26	73.10	-912.73	10.00	10.00	0.00
13,000.00	89.84	179.93	12,473.51	873.86	73.16	-872.33	0.00	0.00	0.00
13,100.00	89.84	179.93	12,473.78	773.86	73.29	-772.34	0.00	0.00	0.00
13,200.00	89.84	179.93	12,474.05	673.86	73.42	-672.36	0.00	0.00	0.00
13,300.00	89.84	179.93	12,474.32	573.86	73.55	-572.38	0.00	0.00	0.00
13,400.00	89.84	179.93	12,474.59	473.86	73.68	-472.39	0.00	0.00	0.00
13,500.00	89.84	179.93	12,474.87	373.86	73.81	-372.41	0.00	0.00	0.00
13,600.00	89.84	179.93	12,475.14	273.86	73.94	-272.42	0.00	0.00	0.00
13,700.00	89.84	179.93	12,475.41	173.86	74.07	-172.44	0.00	0.00	0.00
13,800.00	89.84	179.93	12,475.68	73.86	74.20	-72.45	0.00	0.00	0.00
13,900.00	89.84	179.93	12,475.95	-26.14	74.32	27.53	0.00	0.00	0.00
14,000.00	89.84	179.93	12,476.22	-126.14	74.45	127.52	0.00	0.00	0.00
14,100.00	89.84	179.93	12,476.49	-226.14	74.58	227.50	0.00	0.00	0.00
14,200.00	89.84	179.93	12,476.76	-326.14	74.71	327.48	0.00	0.00	0.00
14,300.00	89.84	179.93	12,477.03	-426.14	74.84	427.47	0.00	0.00	0.00
14,400.00	89.84	179.93	12,477.30	-526.14	74.97	527.45	0.00	0.00	0.00
14,500.00	89.84	179.93	12,477.58	-626.14	75.10	627.44	0.00	0.00	0.00
14,600.00	89.84	179.93	12,477.85	-726.14	75.23	727.42	0.00	0.00	0.00
14,700.00	89.84	179.93	12,478.12	-826.14	75.36	827.41	0.00	0.00	0.00
14,800.00	89.84	179.93	12,478.39	-926.14	75.49	927.39	0.00	0.00	0.00
14,900.00	89.84	179.93	12,478.66	-1,026.14	75.62	1,027.37	0.00	0.00	0.00
15,000.00	89.84	179.93	12,478.93	-1,126.14	75.75	1,127.36	0.00	0.00	0.00
15,100.00	89.84	179.93	12,479.20	-1,226.14	75.88	1,227.34	0.00	0.00	0.00
15,200.00	89.84	179.93	12,479.47	-1,326.13	76.01	1,327.33	0.00	0.00	0.00
15,300.00	89.84	179.93	12,479.74	-1,426.13	76.14	1,427.31	0.00	0.00	0.00
15,400.00	89.84	179.93	12,480.02	-1,526.13	76.27	1,527.30	0.00	0.00	0.00
15,500.00	89.84	179.93	12,480.29	-1,626.13	76.40	1,627.28	0.00	0.00	0.00
15,600.00	89.84	179.93	12,480.56	-1,726.13	76.53	1,727.27	0.00	0.00	0.00

Oxy

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nimitz MDP1 13 Federal Com 41H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3512.40ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3512.40ft
Site:	Nimitz MDP1 13	North Reference:	Grid
Well:	Nimitz MDP1 13 Federal Com 41H	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)
15,700.00	89.84	179.93	12,480.83	-1,826.13	76.66	1,827.25	0.00	0.00	0.00
15,800.00	89.84	179.93	12,481.10	-1,926.13	76.79	1,927.23	0.00	0.00	0.00
15,900.00	89.84	179.93	12,481.37	-2,026.13	76.92	2,027.22	0.00	0.00	0.00
16,000.00	89.84	179.93	12,481.64	-2,126.13	77.05	2,127.20	0.00	0.00	0.00
16,100.00	89.84	179.93	12,481.91	-2,226.13	77.18	2,227.19	0.00	0.00	0.00
16,200.00	89.84	179.93	12,482.18	-2,326.13	77.31	2,327.17	0.00	0.00	0.00
16,300.00	89.84	179.93	12,482.45	-2,426.13	77.44	2,427.16	0.00	0.00	0.00
16,400.00	89.84	179.93	12,482.73	-2,526.13	77.57	2,527.14	0.00	0.00	0.00
16,500.00	89.84	179.93	12,483.00	-2,626.13	77.70	2,627.12	0.00	0.00	0.00
16,600.00	89.84	179.93	12,483.27	-2,726.13	77.83	2,727.11	0.00	0.00	0.00
16,700.00	89.84	179.93	12,483.54	-2,826.13	77.96	2,827.09	0.00	0.00	0.00
16,800.00	89.84	179.93	12,483.81	-2,926.13	78.09	2,927.08	0.00	0.00	0.00
16,900.00	89.84	179.93	12,484.08	-3,026.13	78.22	3,027.06	0.00	0.00	0.00
17,000.00	89.84	179.93	12,484.35	-3,126.13	78.35	3,127.05	0.00	0.00	0.00
17,100.00	89.84	179.93	12,484.62	-3,226.13	78.48	3,227.03	0.00	0.00	0.00
17,200.00	89.84	179.93	12,484.89	-3,326.13	78.61	3,327.02	0.00	0.00	0.00
17,300.00	89.84	179.93	12,485.17	-3,426.13	78.74	3,427.00	0.00	0.00	0.00
17,400.00	89.84	179.93	12,485.44	-3,526.12	78.87	3,526.98	0.00	0.00	0.00
17,500.00	89.84	179.93	12,485.71	-3,626.12	79.00	3,626.97	0.00	0.00	0.00
17,600.00	89.84	179.93	12,485.98	-3,726.12	79.12	3,726.95	0.00	0.00	0.00
17,700.00	89.84	179.93	12,486.25	-3,826.12	79.25	3,826.94	0.00	0.00	0.00
17,800.00	89.84	179.93	12,486.52	-3,926.12	79.38	3,926.92	0.00	0.00	0.00
17,900.00	89.84	179.93	12,486.79	-4,026.12	79.51	4,026.91	0.00	0.00	0.00
18,000.00	89.84	179.93	12,487.06	-4,126.12	79.64	4,126.89	0.00	0.00	0.00
18,100.00	89.84	179.93	12,487.33	-4,226.12	79.77	4,226.87	0.00	0.00	0.00
18,124.46	89.84	179.93	12,487.40	-4,250.58	79.81	4,251.33	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Nimitz MDP1 13 - hit/miss target - Shape - Point	0.00	0.00	12,473.40	914.26	73.10	445,897.10	693,420.40	32° 13' 29.606485 N	103° 50' 29.482260
PBHL (Nimitz MDP1 - plan hits target center - Point	0.00	0.00	12,487.40	-4,250.58	79.81	440,732.60	693,427.10	32° 12' 38.499792 N	103° 50' 29.679376

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
3,590.00	3,590.00	0.00	0.00	Build 2.00°/100'	
4,190.06	4,185.68	62.55	2.82	Hold 12.00° Tangent	
10,981.41	10,828.60	1,473.26	66.51	Turn 2.00°/100'	
12,181.15	12,019.57	1,473.14	72.38	KOP, Build 10.00°/100'	
12,959.59	12,473.40	914.26	73.10	Landing Point	
18,124.46	12,487.40	-4,250.58	79.81	TD at 18124.46' MD	



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Nimitz MDP1 13
Well: Nimitz MDP1 13 Federal Com 41H
Wellbore: Wellbore #1
Design: Permitting Plan

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

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

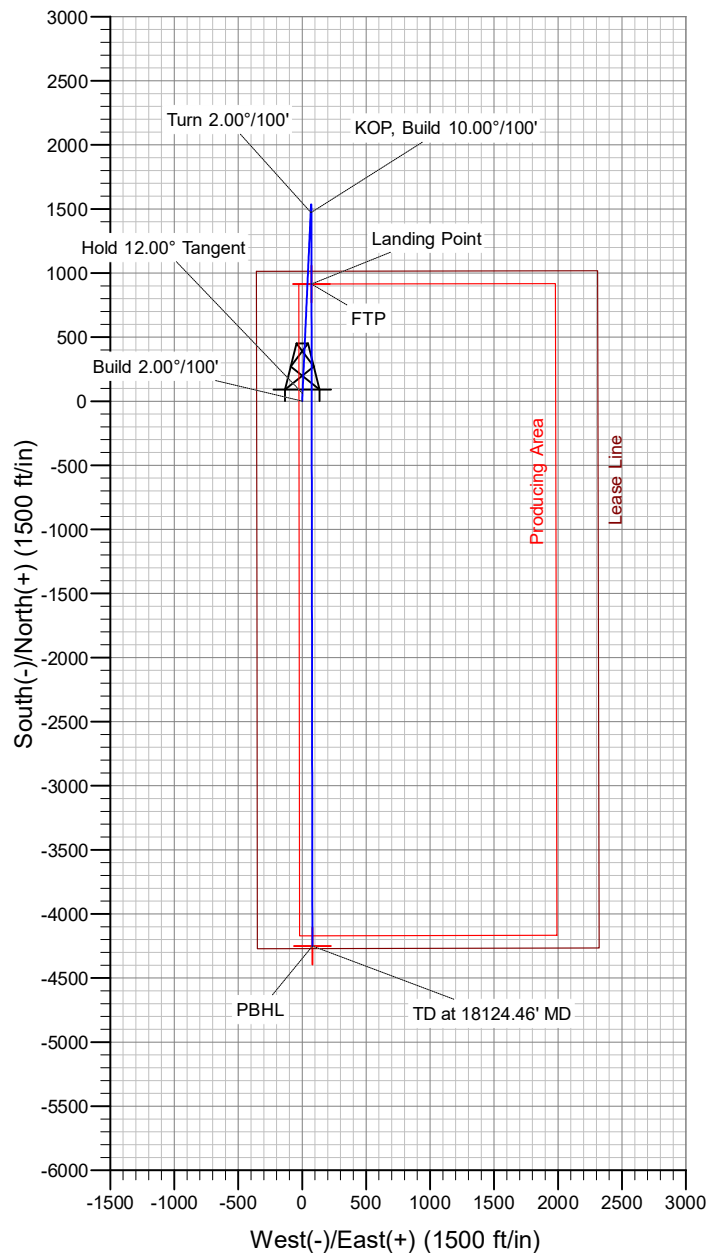
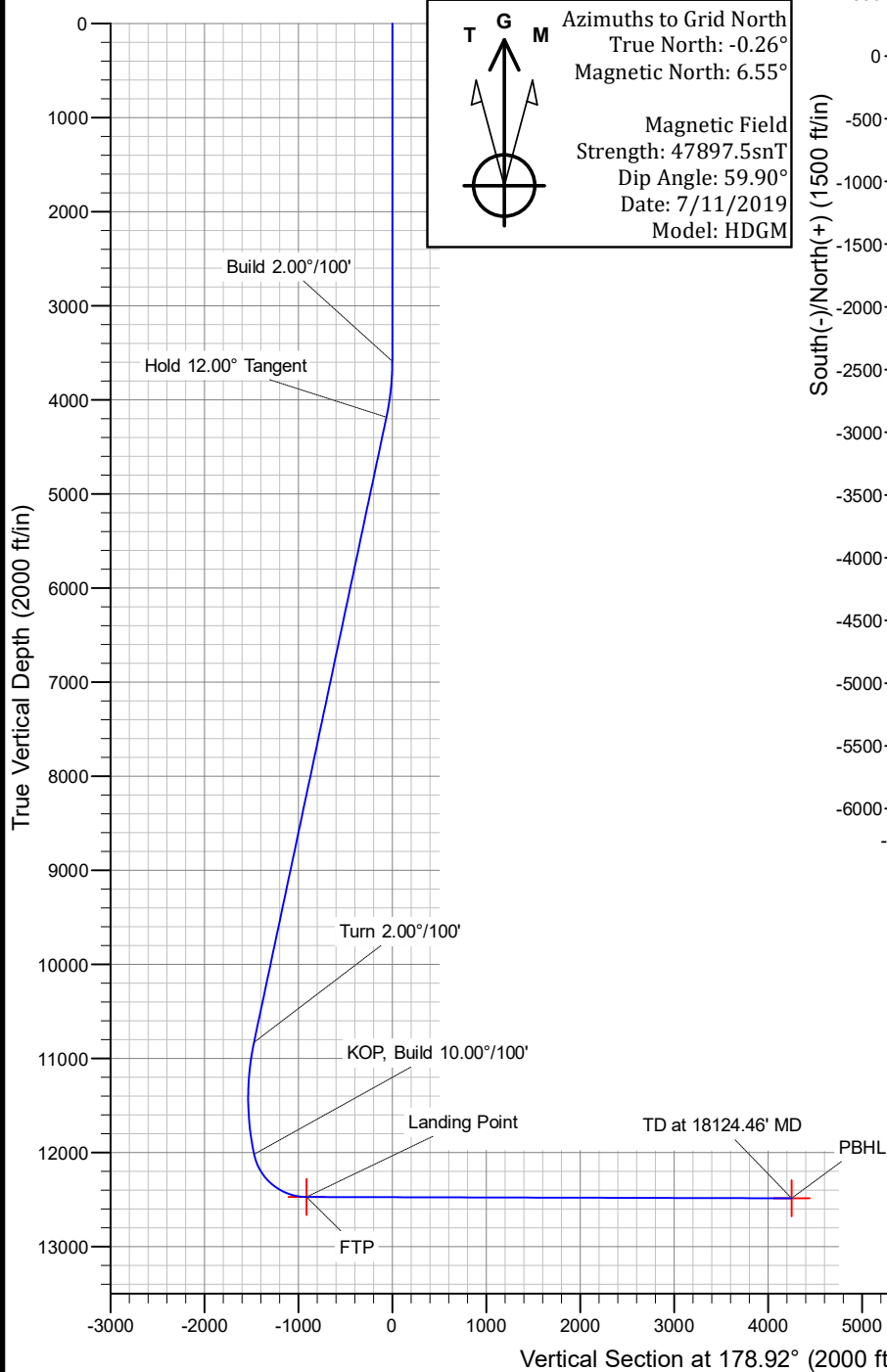
System Datum: Mean Sea Level

WELL DETAILS: Nimitz MDP1 13 Federal Com 41H

Ground Level: 3485.90
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 444982.90 693347.30 32° 13' 20.563146 N 103° 50' 30.381936 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3590.00	0.00	0.00	3590.00	0.00	0.00	0.00	0.00	0.00	Build 2.00°/100'
4190.06	12.00	2.58	4185.68	62.55	2.82	2.00	2.58	-62.49	Hold 12.00° Tangent
10981.41	12.00	2.58	10828.60	1473.26	66.51	0.00	0.00	-1471.75	Turn 2.00°/100'
12181.15	12.00	179.93	12019.57	1473.14	72.38	2.00	178.64	-1471.53	KOP, Build 10.00°/100'
12959.59	89.84	179.93	12473.40	914.26	73.10	10.00	0.00	-912.73	Landing Point
18124.46	89.84	179.93	12487.40	-4250.58	79.81	0.00	0.00	4251.33	TD at 18124.46' MD



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 07-18-2019

☒ 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, recomple 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 or Vent	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 Enterprise Field Services, LLC (“Enterprise”) and is connected to Enterprise low/high pressure gathering system located in Eddy County, New Mexico. OXY USA INC. (“OXY”) provides (periodically) to Enterprise a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, OXY and Enterprise 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 Enterprise system at that time. Based on current information, it is OXY’s 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
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Oxy USA Inc. - Nimitz MDP1 13 Federal Com 41H

1. Geologic Formations

TVD of target	12487'	Pilot Hole Depth	N/A
MD at TD:	18124'	Deepest Expected fresh water:	397'

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	451	
Salado	810	Salt
Castile	2,627	Salt
Lamar/Delaware	4,104	Oil/Gas/Brine
Bell Canyon	4,126	Oil/Gas/Brine
Cherry Canyon	5,065	Oil/Gas/Brine
Brushy Canyon	6,367	Losses
Bone Spring	8,039	Oil/Gas
1st Bone Spring	8,981	Oil/Gas
2nd Bone Spring	9,713	Oil/Gas
3rd Bone Spring	10,892	Oil/Gas
Wolfcamp	11,341	Oil/Gas

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

2. Casing Program

Hole Size (in)	Casing Interval		Csg. Size (in)	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	Buoyant	Buoyant
	From (ft)	To (ft)							Body SF Tension	Joint SF Tension
14.75	0	750	10.75	40.5	J-55	BTC	1.125	1.2	1.4	1.4
9.875	0	12081	7.625	26.4	L-80 HC	BTC	1.125	1.2	1.4	1.4
6.75	0	12631	5.5	26	P-110 CYHP	TORQ SFW	1.125	1.2	1.4	1.4
6.75	12631	18124	5	21.4	P-110 CYHP	TORQ DQW	1.125	1.2	1.4	1.4
SF Values will 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 cancellation 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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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?	N
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 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
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?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing String	# Sks	Wt. (lb/gal)	Yld (ft ³ /sack)	H2O (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Surface (Tail)	614	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate 1st Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate 1st Stage (Tail)	754	13.2	1.65	8.640	11:54	Class H Cement, Retarder, Dispersant, Salt
Intermediate 2nd Stage (Tail Slurry) to be pumped as Bradenhead Squeeze from surface, down the Intermediate annulus						
Intermediate 2nd Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate 2nd Stage (Tail)	814	12.9	1.92	10.41	23:10	Class C Cement, Accelerator
Production (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Production (Tail)	618	13.2	1.38	6.686	3:39	Class H Cement, Retarder, Dispersant, Salt

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
Surface (Tail)	0	750	100%
Intermediate 1st Stage (Lead)	N/A	N/A	N/A
Intermediate 1st Stage (Tail)	6617	12081	5%
Intermediate 2nd Stage (Lead)	N/A	N/A	N/A
Intermediate 2nd Stage (Tail)	0	6617	10%
Production (Lead)	N/A	N/A	N/A
Production (Tail)	11581	18124	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 nipped 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 nipping 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.

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

Three string wells:

- CBL will be required on one well per pad
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
9.875" Hole	13-5/8"	5M	Annular	✓	70% of working pressure
		5M	Blind Ram	✓	250 psi / 5000 psi
			Pipe Ram		
			Double Ram	✓	
			Other*		
6.75" Hole	13-5/8"	5M	Annular	✓	100% of working pressure
		10M	Blind Ram	✓	250 psi / 5700 psi
			Pipe Ram		
			Double Ram	✓	
			Other*		

Oxy USA Inc. - Nimitz MDP1 13 Federal Com 41H

*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 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.

	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
	A multibowl 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 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. A separate sundry will be sent prior to spud that reflects the pad based break testing plan.

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

Oxy USA Inc. - Nimitz MDP1 13 Federal Com 41H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From (ft)	To (ft)				
0	750	Water-Based Mud	8.6-8.8	40-60	N/C
750	12081	Saturated Brine-Based or Oil-Based Mud	8.0-10.0	35-45	N/C
12081	18124	Water-Based or Oil-Based Mud	9.5-13.0	38-50	N/C

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

Logging, 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	
Additional 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	8442 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	180°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.
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Oxy USA Inc. - Nimitz MDP1 13 Federal Com 41H

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. We plan to drill the four 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.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. 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.	Yes

Total estimated cuttings volume: 1499.4 bbls.

9. Company Personnel

Name	Title	Office Phone	Mobile Phone
Linsay Earle	Drilling Engineer	713-350-4921	832-596-5507
William Turner	Drilling Engineer Supervisor	713-350-4951	661-817-4586
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
Diego Tellez	Drilling Manager	713-350-4602	713-303-4932

Oxy Well Control Plan

A. Component and Preventer Compatibility Table

The table below, which covers the drilling and casing of the >5M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

6-3/4" Pilot hole and Lateral sections, 10M requirement

Component	OD	Preventer	RWP
Drillpipe	4-1/2"-5"	Lower 3-1/2 - 5-1/2" VBR Upper 3-1/2 - 5-1/2" VBR	10M
HWDP	4-1/2"-5"	Lower 3-1/2 - 5-1/2" VBR Upper 3-1/2 - 5-1/2" VBR	10M
Drill collars and MWD tools	4-3/4" – 5-1/2"	Lower 3-1/2 - 5-1/2" VBR Upper 3-1/2 - 5-1/2" VBR	10M
Mud Motor	4-3/4"	Lower 3-1/2 - 5-1/2" VBR Upper 3-1/2 - 5-1/2" VBR	10M
Production casing	5-1/2"	Lower 3-1/2 - 5-1/2" VBR Upper 3-1/2 - 5-1/2" VBR	10M
ALL	0" - 13-5/8"	Annular	5M
Open-hole	6-3/4"	Blind Rams	10M

VBR = Variable Bore Ram. Compatible range listed in chart.

HWDP = Heavy Weight Drill Pipe

MWD = Measurement While Drilling

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the Bottom Hole Assembly (BHA) through the Blowout Preventers (BOP). The pressure at which control is swapped from the annular to another compatible ram will occur when the anticipated pressure is approaching or envisioned to exceed 70% of the 5M annular Rated Working Pressure (RWP) or 3500 PSI.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. The Hydraulic Control Remote (HCR) valve and choke will already be in the closed position).
5. Confirm shut-in
6. Notify tool pusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or expected to reach 70% of the annular RWP during kill operations, crew will reconfirm spacing and swap to the upper pipe ram

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out drill string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. The HCR and choke will already be in the closed position)
5. Confirm shut-in
6. Notify tool pusher/company representative
7. Read and record the following
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan
 - e. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram

General Procedure While Running Casing

1. Sound alarm (alert crew)
2. Stab crossover and full opening safety valve and close
3. Space out string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. The HCR and choke will already be in the closed position).
5. Confirm shut-in
6. Notify tool pusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan.
 - e. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams or BSR. (The HCR and choke will already be in the closed position)
3. Confirm shut-in
4. Notify tool pusher/company representative
5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

1. PRIOR to pulling last joint of drill pipe thru the stack.
 - a. Perform flow check, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper pipe ram
 - e. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify tool pusher/company representative

- h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - iv. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the compatible pipe ram
 - d. Shut-in using compatible pipe ram. (The HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify tool pusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - iv. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow “Open Hole” scenario
 - c. If impossible to pick up high enough to pull the string clear of the stack
 - d. Stab crossover, make up one joint/stand of drill pipe, and full opening safety valve and close
 - e. Space out drill string with tool joint just beneath the upper pipe ram
 - f. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
 - g. Confirm shut-in
 - h. Notify tool pusher/company representative
 - i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan