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

Sundry Print Report

06/23/2025

Well Name: IRIDIUM MDP1 28-21 FEDERAL COM

Well Location: T23S / R31E / SEC 28 / SESW / 32.269857 / -103.785376

County or Parish/State: EDDY / NM

Well Number: 75H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM40659

Unit or CA Name:

Unit or CA Number: NMNM138937

US Well Number: 3001556301

Operator: OXY USA INCORPORATED

Notice of Intent

Sundry ID: 2854008

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/21/2025

Time Sundry Submitted: 07:40

Date proposed operation will begin: 05/21/2025

Procedure Description: OXY USA INC. respectfully requests to amend the subject AAPD to update the TVD. OLD TVD: 11457' NEW TVD: 10586' *THERE IS NO ADDITIONAL SURFACE DISTURBANCE RELATED TO THIS SUNDRY" Attached is the updated drill plan, directional, BOP Break Testing Variance and APD Change Worksheet.

NOI Attachments

Procedure Description

IRIDIUMMDP128_21FEDCOM75H_BOPBreakTestingVariance2025_20250521073941.pdf

IRIDIUMMDP128_21FEDCOM75H_DirectPlan_20250521073928.pdf

IRIDIUMMDP128_21FEDCOM75H_DrillPlan_20250521073915.pdf

IRIDIUMMDP128_21FEDCOM75H_APDCHGSUNDRYWORKSHEET_20250521073903.pdf

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County or Parish/State: EDDY / NM

Well Number: 75H

Type of Well: OIL WELL

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Lease Number: NMNM40659

Unit or CA Name:

Unit or CA Number: NMNM138937

US Well Number: 3001556301

Operator: OXY USA INCORPORATED

Conditions of Approval

Additional

5M_BREAK_TESTING___INTERMEDIATE_AND_PRODUCTION___6_22_2025_20250622184115.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: MELISSA GUIDRY

Signed on: MAY 21, 2025 07:40 AM

Name: OXY USA INCORPORATED

Title: Advisor Regulatory Sr.

Street Address: 5 GREENWAY PLAZA SUITE 110

City: HOUSTON **State:** TX

Phone: (713) 497-2481

Email address: MELISSA_GUIDRY@OXY.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KEITH P IMMATTY

BLM POC Title: ENGINEER

BLM POC Phone: 5759884722

BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition: Approved

Disposition Date: 06/22/2025

Signature: KEITH IMMATTY

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMNM40659

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No. NMNM138937

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

8. Well Name and No. IRIDIUM MDP1 28-21 FEDERAL COM/75H

2. Name of Operator OXY USA INCORPORATED

9. API Well No. 3001556301

3a. Address P.O. BOX 1002, TUPMAN, CA 93276-1002

3b. Phone No. *(include area code)* (661) 763-6046

10. Field and Pool or Exploratory Area INGLE WELLS/BONE SPRING

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 28/T23S/R31E/NMP

11. Country or Parish, State EDDY/NM

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

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

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

OXY USA INC. respectfully requests to amend the subject AAPD to update the TVD.

OLD TVD: 11457'
NEW TVD: 10586'

*THERE IS NO ADDITIONAL SURFACE DISTURBANCE RELATED TO THIS SUNDRY"

Attached is the updated drill plan, directional, BOP Break Testing Variance and APD Change Worksheet.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* MELISSA GUIDRY / Ph: (713) 497-2481

Title Advisor Regulatory Sr.

Signature (Electronic Submission)

Date 05/21/2025

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by KEITH P IMMATTY / Ph: (575) 988-4722 / Approved

Title ENGINEER

Date 06/23/2025

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

Office CARLSBAD

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SESW / 609 FSL / 1964 FWL / TWSP: 23S / RANGE: 31E / SECTION: 28 / LAT: 32.269857 / LONG: -103.785376 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 100 FSL / 1310 FWL / TWSP: 23S / RANGE: 31E / SECTION: 28 / LAT: 32.2684549 / LONG: -103.7870529 (TVD: 8724 feet, MD: 9201 feet)

BHL: NWNW / 20 FNL / 2310 FWL / TWSP: 23S / RANGE: 31E / SECTION: 21 / LAT: 32.2971642 / LONG: -103.7870914 (TVD: 8716 feet, MD: 19476 feet)

BOPE Break Testing Variance
(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)

- BOPE Break Testing is ONLY permitted for hole sections with 5M MASP or less.
- The break test should involve a shell test that includes testing the upper pipe rams as proposed.
- Variance only pertains to the hole-sections in and shallower than the Wolfcamp formation. Break testing is NOT allowed when planning to penetrate the Penn group.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle in accordance with API STD 53.
- Any well control event while drilling require notification to the BLM Petroleum Engineer.
- A full BOPE test is required prior to drilling the first intermediate section.
- If a hole section tends to show more background gas than normal, please notify BLM Engineer prior to proceeding with break testing on the next well.
- The BLM PET is to be contacted 4 hours prior to BOPE tests.
  - *Eddy County Petroleum Engineering Inspection Staff: (575) 361-2822*
  - *Lea County Petroleum Engineering Inspection Staff: (575) 689-5981*
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172. Function test is NOT adequate when repairs are required for BOP components.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached with OXY/BLM on April 4th, 2025.

BOPE Break Testing is ONLY permitted for 5M BOPE or less (utilizing a 10M BOPE system.)
Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.

BOP break test for the **intermediate or production** section under the following conditions:

- After a full BOP test is conducted.
- When skidding to drill an intermediate or production section which does not penetrate the deeper than the Wolf Camp formation (<5M).
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 3 CFR part 3170 Subpart 3172
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- In the event break testing is not utilized, then a full BOPE test would be conducted.
- 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

Subject: Request for a Variance Allowing Break Testing of a Blowout Preventer Stack

OXY USA Inc. (OXY) requests a variance to allow break testing of the Blowout Preventer (BOP) stack when skidding a drilling rig between wells on multi-well pads. This practice entails retesting only the connections of the **BOP** stack that have been disconnected during this operation and not a complete **BOP** test.

Background

43 CFR part 3170 Subpart 3172 states that a **BOP** test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) is this requires a complete **BOP** test and not just a test of the affected component. 43 CFR part 3170 Subpart 3172, Section I.D.2. states, "Some situations may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this Order. This situation can be resolved by requesting a variance...". OXY feels the practice of break testing the **BOP** stack is such a situation. Therefore, as per 43 CFR part 3170 Subpart 3172, Section IV., OXY submits this request for the variance.

Supporting Rationale

43 CFR part 3170 Subpart 3172 became effective on December 19, 1988, and has remained the standard for regulating BLM onshore drilling operations for almost 30 years. During this time there have been significant changes in drilling technology. **BLM** continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since 43 CFR part 3170 Subpart 3172 was originally released. The drilling rig fleet OXY utilizes in New Mexico was built with many modern upgrades. One of which allows the rigs to skid between wells on multi-well pads. A part of this rig package is

a hydraulic winch system which safely installs and removes the BOP from the wellhead and carries it during skidding operations. This technology has made break testing a safe and reliable procldure.

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry. 43 CFR part 3170 Subpart 3172 recognized API Recommended Practices (RP) 53 in its original development. API Standard 53, *Blowout Prevention Equipment Systems for Drilling Wells* (Fourth Edition, November 2012, Addendum 1, July 2016) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 6.5.3.4.1.b states "Pressure tests on the well control equipment shall be conducted after the disconnection or repair of any pressure containment seal in the **BOP** stack, choke line, kill line, choke manifold, or wellhead assembly but limited to the affected component."

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specifications and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations. BSEE issued new offshore regulations under 30 CFR Part 250, *Oil and Gas and Sulphur Operations in the Outer Continental Shelf - Blowout Preventer Systems and Well Control,* which became effective on July 28, 2016. Section 250.737(d.1) states "Follow the testing requirements of API Standard 53". In addition, Section 250.737(d.8) has adopted language from **API** Standard 53 as it states "Pressure test affected **BOP** components following the disconnection or repair of any well-pressure containment seal in the wellhead or **BOP** stack assembly".

Break testing has been approved by the BLM in the past. See the Appendix for a Sundry Notice that was approved in 2015 by the Farmington Field Office. This approval granted permission for the operator to break test when skidding its Aztec 1000 rig on multi-well pads.

Oxy feels break testing and our current procedures meet the intent of 43 CFR part 3170 Subpart 3172 and often exceed it. We have not seen any evidence that break testing results in more components failing tests than seen on full BOP tests. As skidding operations take place within the 30-day full BOPE test window, the BOP shell and components such as the pipe rams and check valve get tested to the full rated working pressure more often. Therefore, there are more opportunities to ensure components are in good working order. Also, Oxy's standard requires complete BOP tests more often than that of 43 CFR part 3170 Subpart 3172. In addition to function testing the annular at least weekly and the pipe and blind rams on each trip, Oxy also performs a choke drill prior to drilling out every casing shoe. As a crew's training is a vital part of well control, this procedure to simulate step one of the Driller's Method exceeds the requirements of 43 CFR part 3170 Subpart 3172.

Procedures

1) OXY would perform BOP break testing on multi-well pads where multiple intermediate or production sections can be drilled and cased within the 21-day BOP test window
2) After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP.
   - Between the check valve and the kill line
   - Between the HCR valve and the co-flex hose or the co-flex hose and the manifold
   - Between the BOP flange and the wellhead
3) The BOP is then lifted and removed from the wellhead by the hydraulic winch system
4) After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed
5) The choke line and kill line are reconnected
6) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed
7) A shell test is performed against the upper pipe rams testing all thl-ee breaks
8) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
9) These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
10) Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
11) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
12) A second break test would only be done if the third hole section could be completed within the 21-day BOP test window
13) If a second break test is performed, additional components that were not tested on the initial break test will be tested on this break test

Notes:

a. If any parts of the BOP are changed out or any additional breaks are made during the skidding operation, these affected components would also be tested as in step 10.
b. As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested in step 8 above, no further testing of the manifold is done until the next full BOP test.

Summary

OXY requests a variance to allow break testing of the BOP stack when skidding drilling rigs between wells on multi-well pads. API standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry and the BLM. API Standard 53 recognizes break testing as an acceptable practice and BSEE adopted language from this standard into its newly created 30 CFR Part 250 which also supports break testing. Due to this, OXY feels this request meets the intent of 43 CFR part 3170

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)
Iridium MDP1 28_21 Fed Com
Iridium MDP1 28_21 Fed Com 75H

ORIG HOLE

Plan: Permitting Plan

Standard Planning Report

20 May, 2025

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Iridium MDP1 28_21 Fed Com 75H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3402.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3402.00ft
Site:	Iridium MDP1 28_21 Fed Com	**North Reference:**	Grid
Well:	Iridium MDP1 28_21 Fed Com 75H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIG HOLE		
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 Iridium MDP1 28_21 Fed Com

Site Position:		**Northing:**	462,153.25 usft	**Latitude:**	32.269362
From:	Map	**Easting:**	709,519.68 usft	**Longitude:**	-103.789196
Position Uncertainty:	0.89 ft	**Slot Radius:**	13.200 in		

Well Iridium MDP1 28_21 Fed Com 75H

Well Position	**+N/-S**	0.00 ft	**Northing:**	462,339.42 usf	**Latitude:**	32.269855
	+E/-W	0.00 ft	**Easting:**	710,834.49 usf	**Longitude:**	-103.784939
Position Uncertainty		2.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	3,377.00 ft
Grid Convergence:		0.29 °				

Wellbore ORIG HOLE

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	3/2/2023	6.43	59.85	47,562.60000000

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	1.64

Plan Survey Tool Program **Date** 5/20/2025

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	21,272.26	Permitting Plan (ORIG HOLE)	B001Mc_MWD+HRGM_R5	
				MWD+HRGM	

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	
4,480.00	0.00	0.00	4,480.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,579.70	11.00	160.94	5,572.96	-99.44	34.36	1.00	1.00	0.00	160.94	
9,998.71	11.00	160.94	9,910.83	-896.19	309.62	0.00	0.00	0.00	0.00	
11,002.81	90.00	359.64	10,586.00	-332.41	348.18	10.00	7.87	-16.06	-160.97	
21,272.81	90.00	359.64	10,586.00	9,937.39	284.19	0.00	0.00	0.00	0.00	PBHL (Iridium

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Iridium MDP1 28_21 Fed Com 75H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3402.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3402.00ft
Site:	Iridium MDP1 28_21 Fed Com	**North Reference:**	Grid
Well:	Iridium MDP1 28_21 Fed Com 75H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIG HOLE		
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
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
4,480.00	0.00	0.00	4,480.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 1°/100'									
4,500.00	0.20	160.94	4,500.00	-0.03	0.01	-0.03	1.00	1.00	0.00
4,600.00	1.20	160.94	4,599.99	-1.19	0.41	-1.18	1.00	1.00	0.00
4,700.00	2.20	160.94	4,699.95	-3.99	1.38	-3.95	1.00	1.00	0.00
4,800.00	3.20	160.94	4,799.83	-8.44	2.92	-8.36	1.00	1.00	0.00
4,900.00	4.20	160.94	4,899.62	-14.54	5.02	-14.39	1.00	1.00	0.00
5,000.00	5.20	160.94	4,999.29	-22.29	7.70	-22.06	1.00	1.00	0.00
5,100.00	6.20	160.94	5,098.79	-31.68	10.94	-31.35	1.00	1.00	0.00
5,200.00	7.20	160.94	5,198.11	-42.70	14.75	-42.26	1.00	1.00	0.00

OXY

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Iridium MDP1 28_21 Fed Com 75H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3402.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3402.00ft
Site:	Iridium MDP1 28_21 Fed Com	**North Reference:**	Grid
Well:	Iridium MDP1 28_21 Fed Com 75H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIG HOLE		
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)
5,300.00	8.20	160.94	5,297.20	-55.37	19.13	-54.80	1.00	1.00	0.00
5,400.00	9.20	160.94	5,396.05	-69.66	24.07	-68.95	1.00	1.00	0.00
5,500.00	10.20	160.94	5,494.62	-85.59	29.57	-84.71	1.00	1.00	0.00
5,579.70	11.00	160.94	5,572.96	-99.44	34.36	-98.42	1.00	1.00	0.00
Hold 11° Tangent									
5,600.00	11.00	160.94	5,592.89	-103.10	35.62	-102.04	0.00	0.00	0.00
5,700.00	11.00	160.94	5,691.05	-121.13	41.85	-119.89	0.00	0.00	0.00
5,800.00	11.00	160.94	5,789.22	-139.16	48.08	-137.73	0.00	0.00	0.00
5,900.00	11.00	160.94	5,887.38	-157.19	54.31	-155.58	0.00	0.00	0.00
6,000.00	11.00	160.94	5,985.54	-175.22	60.54	-173.42	0.00	0.00	0.00
6,100.00	11.00	160.94	6,083.71	-193.25	66.77	-191.27	0.00	0.00	0.00
6,200.00	11.00	160.94	6,181.87	-211.28	73.00	-209.11	0.00	0.00	0.00
6,300.00	11.00	160.94	6,280.03	-229.31	79.22	-226.96	0.00	0.00	0.00
6,400.00	11.00	160.94	6,378.20	-247.34	85.45	-244.80	0.00	0.00	0.00
6,500.00	11.00	160.94	6,476.36	-265.37	91.68	-262.64	0.00	0.00	0.00
6,600.00	11.00	160.94	6,574.53	-283.40	97.91	-280.49	0.00	0.00	0.00
6,700.00	11.00	160.94	6,672.69	-301.43	104.14	-298.33	0.00	0.00	0.00
6,800.00	11.00	160.94	6,770.85	-319.46	110.37	-316.18	0.00	0.00	0.00
6,900.00	11.00	160.94	6,869.02	-337.49	116.60	-334.02	0.00	0.00	0.00
7,000.00	11.00	160.94	6,967.18	-355.52	122.83	-351.87	0.00	0.00	0.00
7,100.00	11.00	160.94	7,065.34	-373.55	129.06	-369.71	0.00	0.00	0.00
7,200.00	11.00	160.94	7,163.51	-391.58	135.29	-387.56	0.00	0.00	0.00
7,300.00	11.00	160.94	7,261.67	-409.61	141.52	-405.40	0.00	0.00	0.00
7,400.00	11.00	160.94	7,359.83	-427.64	147.75	-423.25	0.00	0.00	0.00
7,500.00	11.00	160.94	7,458.00	-445.67	153.97	-441.09	0.00	0.00	0.00
7,600.00	11.00	160.94	7,556.16	-463.70	160.20	-458.94	0.00	0.00	0.00
7,700.00	11.00	160.94	7,654.33	-481.73	166.43	-476.78	0.00	0.00	0.00
7,800.00	11.00	160.94	7,752.49	-499.76	172.66	-494.62	0.00	0.00	0.00
7,900.00	11.00	160.94	7,850.65	-517.79	178.89	-512.47	0.00	0.00	0.00
8,000.00	11.00	160.94	7,948.82	-535.82	185.12	-530.31	0.00	0.00	0.00
8,100.00	11.00	160.94	8,046.98	-553.85	191.35	-548.16	0.00	0.00	0.00
8,200.00	11.00	160.94	8,145.14	-571.88	197.58	-566.00	0.00	0.00	0.00
8,300.00	11.00	160.94	8,243.31	-589.91	203.81	-583.85	0.00	0.00	0.00
8,400.00	11.00	160.94	8,341.47	-607.94	210.04	-601.69	0.00	0.00	0.00
8,500.00	11.00	160.94	8,439.64	-625.97	216.27	-619.54	0.00	0.00	0.00
8,600.00	11.00	160.94	8,537.80	-644.00	222.49	-637.38	0.00	0.00	0.00
8,700.00	11.00	160.94	8,635.96	-662.03	228.72	-655.23	0.00	0.00	0.00
8,800.00	11.00	160.94	8,734.13	-680.06	234.95	-673.07	0.00	0.00	0.00
8,900.00	11.00	160.94	8,832.29	-698.09	241.18	-690.92	0.00	0.00	0.00
9,000.00	11.00	160.94	8,930.45	-716.12	247.41	-708.76	0.00	0.00	0.00
9,100.00	11.00	160.94	9,028.62	-734.16	253.64	-726.60	0.00	0.00	0.00
9,200.00	11.00	160.94	9,126.78	-752.19	259.87	-744.45	0.00	0.00	0.00
9,300.00	11.00	160.94	9,224.95	-770.22	266.10	-762.29	0.00	0.00	0.00
9,400.00	11.00	160.94	9,323.11	-788.25	272.33	-780.14	0.00	0.00	0.00
9,500.00	11.00	160.94	9,421.27	-806.28	278.56	-797.98	0.00	0.00	0.00
9,600.00	11.00	160.94	9,519.44	-824.31	284.79	-815.83	0.00	0.00	0.00
9,700.00	11.00	160.94	9,617.60	-842.34	291.02	-833.67	0.00	0.00	0.00
9,800.00	11.00	160.94	9,715.76	-860.37	297.24	-851.52	0.00	0.00	0.00
9,900.00	11.00	160.94	9,813.93	-878.40	303.47	-869.36	0.00	0.00	0.00
9,998.71	11.00	160.94	9,910.83	-896.19	309.62	-886.98	0.00	0.00	0.00
KOP, Build & Turn 10°/100'									
10,000.00	10.88	160.72	9,912.09	-896.42	309.70	-887.20	10.00	-9.45	-17.28
10,100.00	3.58	94.15	10,011.35	-905.58	315.94	-896.18	10.00	-7.30	-66.57
10,200.00	10.35	19.60	10,110.69	-897.32	322.08	-887.75	10.00	6.77	-74.55
10,300.00	20.03	9.49	10,207.10	-871.91	327.93	-862.18	10.00	9.68	-10.11

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Iridium MDP1 28_21 Fed Com 75H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3402.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3402.00ft
Site:	Iridium MDP1 28_21 Fed Com	**North Reference:**	Grid
Well:	Iridium MDP1 28_21 Fed Com 75H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIG HOLE		
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)
10,400.00	29.91	5.86	10,297.65	-830.11	333.31	-820.24	10.00	9.89	-3.63
10,500.00	39.85	3.92	10,379.58	-773.20	338.06	-763.22	10.00	9.94	-1.94
10,600.00	49.81	2.66	10,450.41	-702.90	342.04	-692.83	10.00	9.96	-1.26
10,700.00	59.78	1.72	10,507.98	-621.35	345.12	-611.23	10.00	9.97	-0.94
10,716.47	61.43	1.59	10,516.06	-607.00	345.53	-596.88	10.00	9.97	-0.82
PPP-1 Cross									
10,800.00	69.76	0.96	10,550.55	-531.02	347.21	-520.88	10.00	9.98	-0.75
10,900.00	79.74	0.29	10,576.82	-434.67	348.25	-424.54	10.00	9.98	-0.67
11,000.00	89.72	359.66	10,585.99	-335.22	348.20	-325.13	10.00	9.98	-0.63
11,002.81	90.00	359.64	10,586.00	-332.41	348.18	-322.33	10.00	9.98	-0.62
Landing Point									
11,100.00	90.00	359.64	10,586.00	-235.22	347.57	-225.19	0.00	0.00	0.00
11,200.00	90.00	359.64	10,586.00	-135.23	346.95	-125.25	0.00	0.00	0.00
11,300.00	90.00	359.64	10,586.00	-35.23	346.33	-25.31	0.00	0.00	0.00
11,400.00	90.00	359.64	10,586.00	64.77	345.71	74.63	0.00	0.00	0.00
11,500.00	90.00	359.64	10,586.00	164.77	345.08	174.56	0.00	0.00	0.00
11,600.00	90.00	359.64	10,586.00	264.77	344.46	274.50	0.00	0.00	0.00
11,700.00	90.00	359.64	10,586.00	364.76	343.84	374.44	0.00	0.00	0.00
11,800.00	90.00	359.64	10,586.00	464.76	343.21	474.38	0.00	0.00	0.00
11,900.00	90.00	359.64	10,586.00	564.76	342.59	574.32	0.00	0.00	0.00
12,000.00	90.00	359.64	10,586.00	664.76	341.97	674.26	0.00	0.00	0.00
12,100.00	90.00	359.64	10,586.00	764.76	341.34	774.20	0.00	0.00	0.00
12,200.00	90.00	359.64	10,586.00	864.75	340.72	874.14	0.00	0.00	0.00
12,300.00	90.00	359.64	10,586.00	964.75	340.10	974.08	0.00	0.00	0.00
12,400.00	90.00	359.64	10,586.00	1,064.75	339.47	1,074.02	0.00	0.00	0.00
12,500.00	90.00	359.64	10,586.00	1,164.75	338.85	1,173.96	0.00	0.00	0.00
12,600.00	90.00	359.64	10,586.00	1,264.75	338.23	1,273.90	0.00	0.00	0.00
12,700.00	90.00	359.64	10,586.00	1,364.74	337.61	1,373.84	0.00	0.00	0.00
12,800.00	90.00	359.64	10,586.00	1,464.74	336.98	1,473.78	0.00	0.00	0.00
12,900.00	90.00	359.64	10,586.00	1,564.74	336.36	1,573.72	0.00	0.00	0.00
13,000.00	90.00	359.64	10,586.00	1,664.74	335.74	1,673.66	0.00	0.00	0.00
13,100.00	90.00	359.64	10,586.00	1,764.74	335.11	1,773.59	0.00	0.00	0.00
13,200.00	90.00	359.64	10,586.00	1,864.73	334.49	1,873.53	0.00	0.00	0.00
13,300.00	90.00	359.64	10,586.00	1,964.73	333.87	1,973.47	0.00	0.00	0.00
13,400.00	90.00	359.64	10,586.00	2,064.73	333.24	2,073.41	0.00	0.00	0.00
13,500.00	90.00	359.64	10,586.00	2,164.73	332.62	2,173.35	0.00	0.00	0.00
13,600.00	90.00	359.64	10,586.00	2,264.73	332.00	2,273.29	0.00	0.00	0.00
13,700.00	90.00	359.64	10,586.00	2,364.73	331.37	2,373.23	0.00	0.00	0.00
13,800.00	90.00	359.64	10,586.00	2,464.72	330.75	2,473.17	0.00	0.00	0.00
13,900.00	90.00	359.64	10,586.00	2,564.72	330.13	2,573.11	0.00	0.00	0.00
14,000.00	90.00	359.64	10,586.00	2,664.72	329.50	2,673.05	0.00	0.00	0.00
14,100.00	90.00	359.64	10,586.00	2,764.72	328.88	2,772.99	0.00	0.00	0.00
14,200.00	90.00	359.64	10,586.00	2,864.72	328.26	2,872.93	0.00	0.00	0.00
14,300.00	90.00	359.64	10,586.00	2,964.71	327.64	2,972.87	0.00	0.00	0.00
14,400.00	90.00	359.64	10,586.00	3,064.71	327.01	3,072.81	0.00	0.00	0.00
14,500.00	90.00	359.64	10,586.00	3,164.71	326.39	3,172.75	0.00	0.00	0.00
14,600.00	90.00	359.64	10,586.00	3,264.71	325.77	3,272.69	0.00	0.00	0.00
14,700.00	90.00	359.64	10,586.00	3,364.71	325.14	3,372.62	0.00	0.00	0.00
14,800.00	90.00	359.64	10,586.00	3,464.70	324.52	3,472.56	0.00	0.00	0.00
14,900.00	90.00	359.64	10,586.00	3,564.70	323.90	3,572.50	0.00	0.00	0.00
15,000.00	90.00	359.64	10,586.00	3,664.70	323.27	3,672.44	0.00	0.00	0.00
15,100.00	90.00	359.64	10,586.00	3,764.70	322.65	3,772.38	0.00	0.00	0.00
15,200.00	90.00	359.64	10,586.00	3,864.70	322.03	3,872.32	0.00	0.00	0.00
15,300.00	90.00	359.64	10,586.00	3,964.69	321.40	3,972.26	0.00	0.00	0.00
15,400.00	90.00	359.64	10,586.00	4,064.69	320.78	4,072.20	0.00	0.00	0.00

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Iridium MDP1 28_21 Fed Com 75H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3402.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3402.00ft
Site:	Iridium MDP1 28_21 Fed Com	**North Reference:**	Grid
Well:	Iridium MDP1 28_21 Fed Com 75H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIG HOLE		
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)
15,500.00	90.00	359.64	10,586.00	4,164.69	320.16	4,172.14	0.00	0.00	0.00
15,600.00	90.00	359.64	10,586.00	4,264.69	319.53	4,272.08	0.00	0.00	0.00
15,700.00	90.00	359.64	10,586.00	4,364.69	318.91	4,372.02	0.00	0.00	0.00
15,800.00	90.00	359.64	10,586.00	4,464.68	318.29	4,471.96	0.00	0.00	0.00
15,900.00	90.00	359.64	10,586.00	4,564.68	317.67	4,571.90	0.00	0.00	0.00
16,000.00	90.00	359.64	10,586.00	4,664.68	317.04	4,671.84	0.00	0.00	0.00
16,008.32	90.00	359.64	10,586.00	4,673.00	316.99	4,680.15	0.00	0.00	0.00
PPP-2 Cross									
16,100.00	90.00	359.64	10,586.00	4,764.68	316.42	4,771.78	0.00	0.00	0.00
16,200.00	90.00	359.64	10,586.00	4,864.68	315.80	4,871.72	0.00	0.00	0.00
16,300.00	90.00	359.64	10,586.00	4,964.67	315.17	4,971.66	0.00	0.00	0.00
16,400.00	90.00	359.64	10,586.00	5,064.67	314.55	5,071.59	0.00	0.00	0.00
16,500.00	90.00	359.64	10,586.00	5,164.67	313.93	5,171.53	0.00	0.00	0.00
16,600.00	90.00	359.64	10,586.00	5,264.67	313.30	5,271.47	0.00	0.00	0.00
16,700.00	90.00	359.64	10,586.00	5,364.67	312.68	5,371.41	0.00	0.00	0.00
16,800.00	90.00	359.64	10,586.00	5,464.66	312.06	5,471.35	0.00	0.00	0.00
16,900.00	90.00	359.64	10,586.00	5,564.66	311.43	5,571.29	0.00	0.00	0.00
17,000.00	90.00	359.64	10,586.00	5,664.66	310.81	5,671.23	0.00	0.00	0.00
17,100.00	90.00	359.64	10,586.00	5,764.66	310.19	5,771.17	0.00	0.00	0.00
17,200.00	90.00	359.64	10,586.00	5,864.66	309.57	5,871.11	0.00	0.00	0.00
17,300.00	90.00	359.64	10,586.00	5,964.66	308.94	5,971.05	0.00	0.00	0.00
17,400.00	90.00	359.64	10,586.00	6,064.65	308.32	6,070.99	0.00	0.00	0.00
17,500.00	90.00	359.64	10,586.00	6,164.65	307.70	6,170.93	0.00	0.00	0.00
17,600.00	90.00	359.64	10,586.00	6,264.65	307.07	6,270.87	0.00	0.00	0.00
17,700.00	90.00	359.64	10,586.00	6,364.65	306.45	6,370.81	0.00	0.00	0.00
17,800.00	90.00	359.64	10,586.00	6,464.65	305.83	6,470.75	0.00	0.00	0.00
17,900.00	90.00	359.64	10,586.00	6,564.64	305.20	6,570.69	0.00	0.00	0.00
18,000.00	90.00	359.64	10,586.00	6,664.64	304.58	6,670.62	0.00	0.00	0.00
18,100.00	90.00	359.64	10,586.00	6,764.64	303.96	6,770.56	0.00	0.00	0.00
18,200.00	90.00	359.64	10,586.00	6,864.64	303.33	6,870.50	0.00	0.00	0.00
18,300.00	90.00	359.64	10,586.00	6,964.64	302.71	6,970.44	0.00	0.00	0.00
18,400.00	90.00	359.64	10,586.00	7,064.63	302.09	7,070.38	0.00	0.00	0.00
18,500.00	90.00	359.64	10,586.00	7,164.63	301.46	7,170.32	0.00	0.00	0.00
18,600.00	90.00	359.64	10,586.00	7,264.63	300.84	7,270.26	0.00	0.00	0.00
18,700.00	90.00	359.64	10,586.00	7,364.63	300.22	7,370.20	0.00	0.00	0.00
18,800.00	90.00	359.64	10,586.00	7,464.63	299.60	7,470.14	0.00	0.00	0.00
18,900.00	90.00	359.64	10,586.00	7,564.62	298.97	7,570.08	0.00	0.00	0.00
19,000.00	90.00	359.64	10,586.00	7,664.62	298.35	7,670.02	0.00	0.00	0.00
19,100.00	90.00	359.64	10,586.00	7,764.62	297.73	7,769.96	0.00	0.00	0.00
19,200.00	90.00	359.64	10,586.00	7,864.62	297.10	7,869.90	0.00	0.00	0.00
19,300.00	90.00	359.64	10,586.00	7,964.62	296.48	7,969.84	0.00	0.00	0.00
19,400.00	90.00	359.64	10,586.00	8,064.61	295.86	8,069.78	0.00	0.00	0.00
19,500.00	90.00	359.64	10,586.00	8,164.61	295.23	8,169.72	0.00	0.00	0.00
19,600.00	90.00	359.64	10,586.00	8,264.61	294.61	8,269.65	0.00	0.00	0.00
19,700.00	90.00	359.64	10,586.00	8,364.61	293.99	8,369.59	0.00	0.00	0.00
19,800.00	90.00	359.64	10,586.00	8,464.61	293.36	8,469.53	0.00	0.00	0.00
19,900.00	90.00	359.64	10,586.00	8,564.60	292.74	8,569.47	0.00	0.00	0.00
20,000.00	90.00	359.64	10,586.00	8,664.60	292.12	8,669.41	0.00	0.00	0.00
20,100.00	90.00	359.64	10,586.00	8,764.60	291.49	8,769.35	0.00	0.00	0.00
20,200.00	90.00	359.64	10,586.00	8,864.60	290.87	8,869.29	0.00	0.00	0.00
20,300.00	90.00	359.64	10,586.00	8,964.60	290.25	8,969.23	0.00	0.00	0.00
20,400.00	90.00	359.64	10,586.00	9,064.60	289.63	9,069.17	0.00	0.00	0.00
20,500.00	90.00	359.64	10,586.00	9,164.59	289.00	9,169.11	0.00	0.00	0.00
20,600.00	90.00	359.64	10,586.00	9,264.59	288.38	9,269.05	0.00	0.00	0.00
20,700.00	90.00	359.64	10,586.00	9,364.59	287.76	9,368.99	0.00	0.00	0.00

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Iridium MDP1 28_21 Fed Com 75H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3402.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3402.00ft
Site:	Iridium MDP1 28_21 Fed Com	**North Reference:**	Grid
Well:	Iridium MDP1 28_21 Fed Com 75H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIG HOLE		
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)
20,800.00	90.00	359.64	10,586.00	9,464.59	287.13	9,468.93	0.00	0.00	0.00
20,900.00	90.00	359.64	10,586.00	9,564.59	286.51	9,568.87	0.00	0.00	0.00
21,000.00	90.00	359.64	10,586.00	9,664.58	285.89	9,668.81	0.00	0.00	0.00
21,100.00	90.00	359.64	10,586.00	9,764.58	285.26	9,768.75	0.00	0.00	0.00
21,200.00	90.00	359.64	10,586.00	9,864.58	284.64	9,868.69	0.00	0.00	0.00
21,272.81	90.00	359.64	10,586.00	9,937.39	284.19	9,941.45	0.00	0.00	0.00
TD at 21272.81' MD									

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
KOP (Iridium MDP1 - plan misses target center by 973.21ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-907.41	351.75	461,432.06	711,186.22	32.267356	-103.783817
PBHL (Iridium MDP1 - plan hits target center - Point	0.00	0.00	10,586.00	9,937.39	284.19	472,276.21	711,118.66	32.297165	-103.783855
FTP (Iridium MDP1 - plan misses target center by 26.14ft at 10832.18ft MD (10560.83 TVD, -500.54 N, 347.66 E) - Point	0.00	0.00	10,586.00	-507.40	349.27	461,832.05	711,183.74	32.268456	-103.783818

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
450.00	450.00	RUSTLER			
828.00	828.00	SALADO			
2,734.00	2,734.00	CASTILE			
4,231.00	4,231.00	DELAWARE			
4,259.00	4,259.00	BELL CANYON			
5,133.42	5,132.00	CHERRY CANYON			
6,439.53	6,417.00	BRUSHY CANYON			
8,085.76	8,033.00	BONE SPRING			
9,169.66	9,097.00	BONE SPRING 1ST			
9,836.91	9,752.00	BONE SPRING 2ND			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
4,480.00	4,480.00	0.00	0.00	Build 1°/100'
5,579.70	5,572.96	-99.44	34.36	Hold 11° Tangent
9,998.71	9,910.83	-896.19	309.62	KOP, Build & Turn 10°/100'
10,716.47	10,516.06	-607.00	345.53	PPP-1 Cross
11,002.81	10,586.00	-332.41	348.18	Landing Point
16,008.32	10,586.00	4,673.00	316.99	PPP-2 Cross
21,272.81	10,586.00	9,937.39	284.19	TD at 21272.81' MD

Oxy USA Inc. - IRIDIUM MDP1 28_21 FED COM 75H
Drill Plan

1. Geologic Formations

TVD of Target (ft):	10586	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	21273	Deepest Expected Fresh Water (ft):	450

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	450	450	
Salado	828	828	Salt
Marker Bed 126			Salt
Castile	2734	2734	Salt
Delaware	4231	4231	Oil/Gas/Brine
Bell Canyon	4259	4259	Oil/Gas/Brine
Cherry Canyon	5133	5132	Oil/Gas/Brine
Brushy Canyon	6440	6417	Losses
Bone Spring	8086	8033	Oil/Gas
Bone Spring 1st	9170	9097	Oil/Gas
Bone Spring 2nd	9837	9752	Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		MD		TVD					
Section	Hole Size (in)	From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	17.5	0	510	0	510	13.375	54.5	J-55	BTC
Salt	12.25	0	4231	0	4231	10.75	45.5	L-80 HC	BTC-SC
Intermediate	9.875	0	11003	0	10586	7.625	26.4	L-80 HC	BTC
Production	6.75	0	21273	0	10586	5.5	20	P-110	Sprint-SF

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172

All Casing SF Values will meet or exceed those below			
SF Collapse	**SF Burst**	**Body SF Tension**	**Joint SF Tension**
1.00	1.100	1.4	1.4

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	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
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-Q?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-Q and SOPA?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2nd string set 100' to 600' below the base of salt?	Y
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

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	533	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	3,731	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	596	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	579	1.68	13.2	5%	6,690	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 2S - Tail BH	451	1.71	13.3	25%	3,731	Bradenhead Post-Frac	Class C+Accel.
Prod.	1	Production - Tail	610	1.84	13.3	25%	10,503	Circulate	Class C+Ret.

Offline Cementing Request

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. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

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. Please see Bradenhead CBL Variance attachment for further details.

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:	TVD Depth (ft) per Section:
12.25" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	4231
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
9.875" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	10586
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
6.75" Hole	13-5/8"	5M	Annular	✓	100% of working pressure	10586
		10M	Blind Ram	✓	250 psi / 10000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			

*Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 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.

5M Annular BOP Request

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 Annular BOP Variance attachment for further details.

	Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.
	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.
	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 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. 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 (intermediate and production) requirements as per the agreement reached in the OXY/BLM meeting on April 4th, 2025. Please see BOP Break Testing Variance attachment for further details.

Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.

5. Mud Program

Section	Depth		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	510	0	510	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	510	4231	510	4231	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4231	11003	4231	10586	Water-Based or Oil-Based Mud	8.0 - 10.0	38-50	N/C
Production	11003	21273	10586	10586	Water-Based or Oil-Based Mud	9.5 - 12.5	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	
Yes	CBL	Production string
Yes	Mud log	Bone Spring – TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6881 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	165°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

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 43 CFR part 3170 Subpart 3172. 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. We plan to drill the 3 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: 1791 bbls

OXY APD CHANGE SUNDRY LIST FORM

DATE SUNDRY WORKSHEET CREATED	5/21/2025
WELL NAME_NUMBER	IRIDIUM MDP1 28_21 FED COM 75H
API NUMBER	30-015-56301
ESTIMATED SPUD DATE	

	ITEM	APD BASE LINE (For Regulatory to Complete)	SUNDRY PLAN (Groups to complete the latest plan)
		Date APD/BASE LINE APPROVED: 04/19/25	DATE Sundry Worksheet : 9/3/2024
Surface Planning	NAME	IRIDIUM MDP1 28 21 FEDERAL COM #075H	IRIDIUM MDP1 28 21 FEDERAL COM #075H
	NSL	NO	NO
	SHL	609' FSL & 1964' FWL	609' FSL & 1964' FWL
	PAD	SNDDNS_T23R31E_28_03	SNDDNS_T23R31E_28_03
	BHL	20' FNL & 2310' FWL	20' FNL & 2310' FWL
	HSU SIZE, ACRES	640	640
	POOL	INGLE WELLS; BONESPRING	INGLE WELLS; BONESPRING
	TVD	11457'	10586'
	TARGET FORMATION	BONESPRING	BONESPRING

CASING PROGRAM

APD BASE LINE							
Section	Hole Size (in.)	MD	TVD	Csg OD	Csg WT	Grade	Conn.
Surface	17.5	499	499	13.375	54.5	J-55	BTC
Int	12.25	4217	4217	10.75	45.5	L-80 HC	BTC-SC
Int2	9.875	11866	11457	7.625	26.4	L-80 HC	BTC
Prod	6.75	22136	11457	5.5	20	P-110	SPRINT-SF
Liner							

SUNDRY PLAN							
Section	Hole Size (in.)	MD	TVD	Csg OD (in)	Csg WT (ppf)	Grade	Conn.
Surface	17.5	510	510	13.375	54.5	J-55	BTC
Int	12.25	4231	4231	10.75	45.5	L-80 HC	BTC-SC
Int2	9.875	11003	10586	7.625	26.4	L-80 HC	BTC
Prod	6.75	21273	10586	5.5	20	P-110	SPRINT-SF
Liner							

CEMENT PROGRAM

APD BASE LINE								
Section/Stage	Slurry	Sacks	Yield (ft^3/ft	Density (lb/g	Excess	TOC	Placement	Description
Surf	SURFACE - TAIL	521	1.33	14.8	100%	0	CIRC	CLASS C+ACCEL
Int	INTERM - TAIL	85	1.33	14.8	20%	3717	CIRC	CLASS C+ACCEL
Int	INTERM - LEAD	594	1.73	12.9	50%	0	CIRC	CLASS POZZ + RET
Int2	INTERM 1S - TAIL	699	1.68	13.2	5%	6662	CIRC	CLASS C + RET, DISPER
Int2	INTERM 2S - TAIL BH	449	1.71	13.3	25%	3717	BRADENHEAD POST FRAC	CLASS C + ACCEL
Prod	PRODUCTION - TAIL	610	1.84	13.3	25%	11366	CIRC	CLASS C + RET

SUNDRY PLAN								
Section/Stage	Slurry	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess	TOC	Placement	Description
Surf	SURFACE - TAIL	533	1.33	14.8	100%	0	CIRC	CLASS C + ACCEL
Int	INTERM - TAIL	85	1.33	14.8	20%	3731	CIRC	CLASS C + ACCEL
Int	INTERM - LEAD	596	1.73	12.9	50%		CIRC	CLASS POZZ + RET
Int2	INTERM 1S - TAIL	579	1.68	13.2	5%	6690	CIRC	CLASS C + RET, DISP
Int2	INTERM 2S - TAIL BH	451	1.71	13.3	25%	3731	BRADENHEAD POST FRAC	CLASS C + ACCEL
Prod	PRODUCTION - TAIL	610	1.84	13.3	25%	10503	CIRC	CLASS C + RET

VARIANCES

APD BASE LINE	
BOP Break Tesing Variance	Y
5M Annular BOP Variance	Y
Bradenhead CBL Variance	Y
Offline Cementing Variance	Y
Production Annular Clearance Variance	
Flexible Choke Line Variance	
(Pilot Hole, Logs etc.)	

SUNDRY PLAN	
BOP Break Tesing Variance - Updated	Y
5M Annular BOP Variance	Y
Bradenhead CBL Variance	Y
Offline Cementing Variance	Y
Production Annular Clearance Variance	
Flexible Choke Line Variance	
(Pilot Hole, Logs etc.)	

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Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 477800

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 477800
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	8/6/2025