

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an oil conservation**  
**abandoned well. Use form 3160-3 (APD) for such proposals.**

ARTESIA DISTRICT

**SUBMIT IN TRIPLICATE - Other instructions on page 2** JAN 31 2019

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		<b>RECEIVED</b>	5. Lease Serial No. NMNM40659
2. Name of Operator OXY USA INCORPORATED			6. If Indian, Allottee or Tribe Name
3a. Address 5 GREENWAY PLAZA SUITE 110 HOUSTON, TX 77046-0521		Contact: SARAH CHAPMAN E-Mail: SARAH_CHAPMAN@OXY.COM	7. If Unit or CA/Agreement, Name and/or No. NMNM138937
3b. Phone No. (include area code) Ph: 713-350-4997			8. Well Name and No. IRIDIUM MDP1 28-21 FEDERAL COM 21H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 28 T23S R31E SWSW 610FSL 648FWL 32.269855 N Lat, 103.789200 W Lon			9. API Well No. 30-015-45074-00-X1
			10. Field and Pool or Exploratory Area INGLE WELLS
			11. County or Parish, State EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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 recompleat 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 performed 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 recompleat 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 determined that the site is ready for final inspection.

OXY USA Inc. respectfully requests to amend the APD with the following changes:

1. Add an additional 7-5/8" Intermediate II Casing String, see attached for casing and cementing details.
2. Add optional 5-1/2" casing connection, see attached for detail sheet.
3. Amend the mud program, depth and type, see attached.
4. Add the Annular Clearance and BOP Break Testing Variance Requests, see attached.

**Carlsbad Field Office**  
**OCD Artesia**

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #444368 verified by the BLM Well Information System</b> <b>For OXY USA INCORPORATED, sent to the Carlsbad</b> <b>Committed to AFMSS for processing by PRISCILLA PEREZ on 11/28/2018 (19PP0404SE)</b>	
Name (Printed/Typed) DAVID STEWART	Title SR. REGULATORY ADVISOR
Signature (Electronic Submission)	Date 11/16/2018

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <b>ACCEPTED</b>	LONG VO Title PETROLEUM ENGINEER	Date 01/22/2019
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)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

Rev 2-4-19

# OXY USA Inc. - Iridium MDP1 28-21 Federal Com 21H – Amended Drill Plan

## 1. Casing Program

Hole Size (in)	Casing Interval		Csg. Size (in)	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	Buoyant Body SF	Buoyant Joint SF
	From (ft)	To (ft)							Tension	Tension
8.5	0	4,000	7.625	26.4	HCL-80	SF	1.125	1.2	1.4	1.4
	4,000	8,960	7.625	26.4	HCL-80	FJ	1.125	1.2	1.4	1.4
6.75	0	19,487	5.5	20	P-110	DQX	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 run SF Torque connections for the 5.5" production casing string as a contingency item to be run only if hole conditions require

### 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.

## 2. Cementing Program

Casing	Slurry	#Sks	Wt. (Lb/gal)	Yld ft3/sack	H2O gal/sk	500# Comp. Strength	Slurry Description
Intermediate II 1st Stage	Lead	91	13.2	1.65	6.686	3:49	Retarder, Dispersant, Salt
	Tail	56	13.2	1.65	6.69	3:49	Retarder, Dispersant, Salt
Intermediate II 2nd Stage (Tail Slurry) to be pumped as Bradenhead Squeeze from surface, down the Intermediate annulus							
Intermediate II 2nd Stage	Lead	N/A	N/A	N/A	N/A	N/A	N/A
	Tail	331	12.8	1.76	9.38	9:49	Extender, Accelerator, Dispersant
Production	Lead	N/A	N/A	N/A	N/A	N/A	N/A
	Tail	820	13.2	1.38	6.686	3:49	Retarder, Dispersant, Fluid Loss Control, Extender

Casing String	Top of Lead (ft)	Bottom of Lead (ft)	Top of Tail (ft)	Bottom of Tail (ft)	% Excess Lead	% Excess Tail
Int II (1st Stage)	6141	8000	8000	8960	25%	5%
Int II (2nd Stage)	N/A	N/A	0	6141	N/A	5%
Production	N/A	N/A	8460	19746	N/A	20%

## OXY USA Inc. - Iridium MDP1 28-21 Federal Com 21H – Amended Drill Plan

### BOP Break Testing Request

As per the agreement reached in the Oxy/BLM meeting on Feb 22, 2018, Oxy requests permission to allow BOP Break Testing under the following conditions:

- After a full BOP test is conducted on the first well on the pad.
- When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.
- Full BOP test will be required prior to drilling any production hole.

### 3. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From (ft)	To (ft)				
0	474	Water-Based Mud	8.6-8.8	40-60	N/C
474	4252	Saturated Brine-Based Mud	9.8-10.0	35-45	N/C
4252	19487	Water-Based or Oil-Based Mud	9.5-12.0	38-50	N/C

# PERFORMANCE DATA

**TMK UP SF TORQ™**  
**Technical Data Sheet**

**5.500 in**

**20.00 lbs/ft**

**P110 HC**

## Tubular Parameters

Size	5.500	in	Minimum Yield	110,000	psi
Nominal Weight	20.00	lbs/ft	Minimum Tensile	125,000	psi
Grade	P110 HC		Yield Load	641,000	lbs
PE Weight	19.81	lbs/ft	Tensile Load	728,000	lbs
Wall Thickness	0.361	in	Min. Internal Yield Pressure	12,640	psi
Nominal ID	4.778	in	Collapse Pressure	12,780	psi
Drift Diameter	4.653	in			
Nom. Pipe Body Area	5.828	in <sup>2</sup>			

## Connection Parameters

Connection OD	5.777	in
Connection ID	4.734	in
Make-Up Loss	5.823	in
Critical Section Area	5.875	in <sup>2</sup>
Tension Efficiency	90.0	%
Compression Efficiency	90.0	%
Yield Load In Tension	576,000	lbs
Min. Internal Yield Pressure	12,640	psi
Collapse Pressure	12,780	psi
Uniaxial Bending	83	°/100 ft

## Make-Up Torques

Min. Make-Up Torque	15,700	ft-lbs
Opt. Make-Up Torque	19,600	ft-lbs
Max. Make-Up Torque	21,600	ft-lbs
Operating Torque	29,000	ft-lbs
Yield Torque	36,000	ft-lbs

Printed on: February-22-2018

### NOTE:

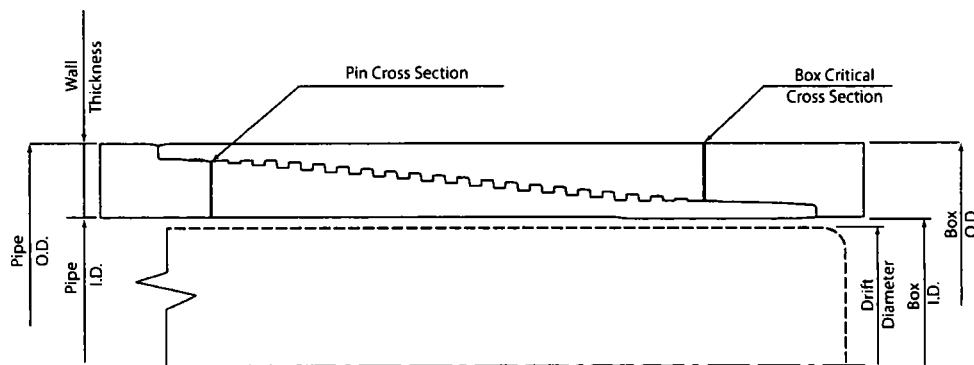
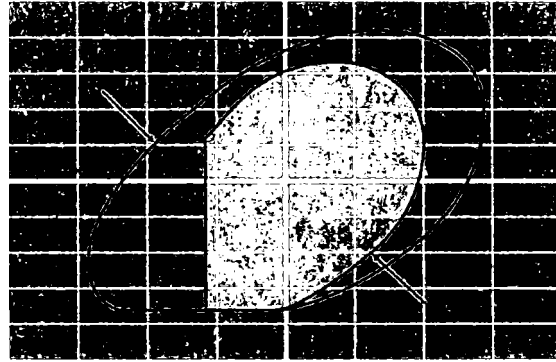
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**IPSCO**

TUBULAR PARAMETERS		PIPE BODY PROPERTIES	
Nominal OD, (inch)	7.625	PE Weight, (lbs/ft)	25.56
Wall Thickness, (inch)	0.328	Nominal Weight, (lbs/ft)	26.40
Pipe Grade	L80 HC	Nominal ID, (inch)	6.969
Drift	Standard	Drift Diameter, (inch)	6.844
		Nominal Pipe Body Area, (sq inch)	7.519
CONNECTION PARAMETERS		Yield Strength in Tension, (klbs)	601
Connection OD (inch)	7.63	Min. Internal Yield Pressure, (psi)	6 020
Connection ID, (inch)	6.975	Collapse Pressure, (psi)	3 910
Make-Up Loss, (inch)	4.165		
Connection Critical Area, (sq inch)	2.520		
Yield Strength in Tension, (klbs)	347		
Yield Strength in Compression, (klbs)	347		
Tension Efficiency	58%		
Compression Efficiency	58%		
Min. Internal Yield Pressure, (psi)	6 020		
Collapse Pressure, (psi)	3 910		
Uniaxial Bending (deg/100ft)	28.0		
MAKE-UP TORQUES			
Yield Torque, (ft-lb)	22 200		
Minimum Make-Up Torque, (ft-lb)	12 500		
Optimum Make-Up Torque, (ft-lb)	13 900		
Maximum Make-Up Torque, (ft-lb)	15 300		

The image is a technical drawing of a pipe end view, showing a circular cross-section with a grid overlay. The drawing is labeled 'FIG. 1' and includes a legend indicating 'PIPE END VIEW' and 'PIPE'.

[illegible]

