

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

NOV 06 2018

FORM 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 abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No. NMNM40659 6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

1. Type of Well [X] Oil Well [] Gas Well [] Other

8. Well Name and No. IRIDIUM MDP1 28-21 FEDERAL COM 41H

2. Name of Operator OXY USA INCORPORATED Contact: DAVID STEWART E-Mail: david_stewart@oxy.com

9. API Well No. 30-015-45075-00-X1

3a. Address 5 GREENWAY PLAZA SUITE 110 HOUSTON, TX 77046-0521

3b. Phone No. (include area code) Ph: 432.685.5717

10. Field and Pool or Exploratory Area INGLE WELLS

4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 28 T23S R31E SWSW 610FSL 683FWL 32.269855 N Lat, 103.789085 W Lon

11. County or Parish, State EDDY COUNTY, NM

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

Table with 2 main columns: TYPE OF SUBMISSION and TYPE OF ACTION. Includes checkboxes for Notice of Intent, Subsequent Report, Final Abandonment Notice, Acidize, Deepen, Production, Water Shut-Off, etc.

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 recompletable 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 recompletable 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.

GC 11-7-18 Accepted for record - NMOCD

- 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.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct. Electronic Submission #441529 verified by the BLM Well Information System For OXY USA INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 10/29/2018 (19PP0259SE) Name (Printed/Typed) DAVID STEWART Title REGULATORY ADVISOR Signature (Electronic Submission) Date 10/29/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By MUSTAFA HAQUE Title PETROLEUM ENGINEER Date 10/29/2018 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.

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INCORPORATED
LEASE NO.:	NMNM 040659
WELL NAME & NO.:	41H-IRIDIUM MDP1 28-21 FED COM
SURFACE HOLE FOOTAGE:	610'/S & 683'/W
BOTTOM HOLE FOOTAGE:	180'/N & 940'/W
LOCATION:	T-23S, R-31E, S-28. NMPM
COUNTY:	EDDY, NM

Potash	<input type="radio"/> None	<input type="radio"/> Secretary	<input checked="" type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP

All previous COAs still apply except for the following:

A. CASING

Second intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

1. The minimum required fill of cement behind the 7 5/8 inch second intermediate casing is:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office

Operator has proposed to pump down 9 5/8" X 7 5/8" annulus. A CBL must be run from TD of the 7 5/8" casing to surface.

MHH 10292018

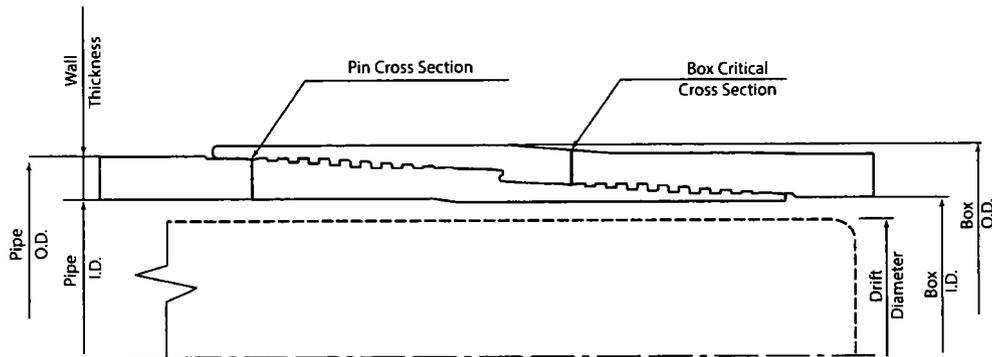
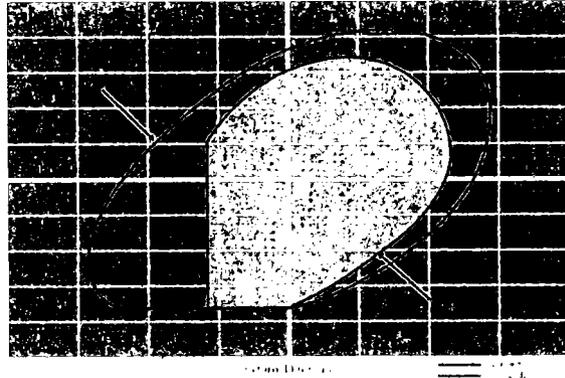
GENERAL REQUIREMENTS

A. CASING

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

TECHNICAL DATA SHEET TMK UP SF 7.625 X 26.4 L80 HC

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)	7.79	Min. Internal Yield Pressure, (psi)	6 020
Connection ID, (inch)	6.938	Collapse Pressure, (psi)	3 910
Make-Up Loss, (inch)	6.029		
Connection Critical Area, (sq inch)	5.948		
Yield Strength in Tension, (klbs)	533		
Yield Strength in Compression, (klbs)	533		
Tension Efficiency	89%		
Compression Efficiency	89%		
Min. Internal Yield Pressure, (psi)	6 020		
Collapse Pressure, (psi)	3 910		
Uniaxial Bending (deg/100ft)	42.7		
MAKE-UP TORQUES			
Yield Torque, (ft-lb)	22 600		
Minimum Make-Up Torque, (ft-lb)	15 000		
Optimum Make-Up Torque, (ft-lb)	16 500		
Maximum Make-Up Torque, (ft-lb)	18 200		



NOTE: The content of this Technical Data Sheet is of general information only and does not constitute a performance or product specification for any particular purpose. Only a competent drilling professional can determine the suitability of this product for a particular application. The information herein is provided as a service to our customers and is not intended to be used as a substitute for professional engineering advice. Any use of the information herein does so at the user's risk. To verify that you have the latest technical information please contact TMK Technical Sales, Russia (Tel: +7 495 775 761) Email: tech@tmk-group.com or TMK IP: (in Russia) (Tel: +7 281949 1033) Email: te.male@tmk.com

OXY USA Inc. - Iridium MDP1 28-21 Federal Com 41H – Amended Drill Plan

1. Casing Program

Hole Size (in)	Casing Interval		Csg. Size (in)	Weight (lbs)	Grade	Conn.	Buoyant Buoyant			
	From (ft)	To (ft)					SF	SF	Body SF	Joint SF
							Collapse	Burst	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 41H – 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