Received by OCD: 12/16/2024 11:49:53 AM

Form 3160-3 (June 2015)		FORM APPROVED OMB No. 1004-0137 Evideor January 31, 2018
UNITED ST.	ATES	Expires: January 31, 2018
DEPARTMENT OF T	5. Lease Serial No.	
BUREAU OF LAND M		
APPLICATION FOR PERMIT	6. If Indian, Allotee or Tribe Name	
1a. Type of work: DRILL	REENTER	7. If Unit or CA Agreement, Name and No.
1b. Type of Well: Oil Well Gas Well	Other	
1c. Type of Completion: Hydraulic Fracturing	Single Zone Multiple Zone	8. Lease Name and Well No.
2. Name of Operator		9. API Well No.
3a. Address	3b. Phone No. (include area code)	10, Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accord	ance with any State requirements.*)	11. Sec., T. R. M. or Blk. and Survey or Area
At surface		
At proposed prod. zone		
14. Distance in miles and direction from nearest town or po	ost office*	12. County or Parish 13. State
 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 	16. No of acres in lease 17. Spa	cing Unit dedicated to this well
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth 20. BLM	M/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
	24. Attachments	
The following, completed in accordance with the requirem (as applicable)	ents of Onshore Oil and Gas Order No. 1, and the	Hydraulic Fracturing rule per 43 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest SUPO must be filed with the appropriate Forest Service 	System Lands, theItem 20 above).5. Operator certification.	ons unless covered by an existing bond on file (see ormation and/or plans as may be requested by the
25. Signature	Name (Printed/Typed)	Date
Title		I
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	1
Application approval does not warrant or certify that the ap applicant to conduct operations thereon. Conditions of approval, if any, are attached.	oplicant holds legal or equitable title to those right	ts in the subject lease which would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1 of the United States any false, fictitious or fraudulent stater		
		-



(Continued on page 2)

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c-102 State of New M Submit Electronically OIL CONSERVATION						l Resources Depar	tment			Page 2 Revised July 9, 2024
Via OCD Permitting						Submittal	☑ Initial St	ıbmittal		
								Type:		d Report
									\Box As Drille	ed
			-		WELL LOCAT	ION INFORMATION	1			
30-01	-		Pool Code 98236			Pool Name WC-0				
321632						DP1 28_2	1 FED	CON		
OGRI 16696	6				(Y USA I		_		3387'	el Elevation
Surfac	e Owner: 🗆	State 🗆 Fee 🛛	🛛 Tribal 🗹 Fe	deral		Mineral Owner:	☐ State □ Fee	🗆 Tribal 🗹	Federal	
UL	Section	Township	Range	Lot	Surfa Ft. from N/S	ce Location Ft. from E/W	Latitude	l I	Longitude	County
Õ	28	23S	31E	Lot	670 FSI				03.77966462	5
U	20	230	SIL					52025	03.11300402	LDDI
UL	Section	Township	Range	Lot	Ft. from N/S	Hole Location Ft. from E/W	Latitude		Longitude	County
$\hat{\mathbf{C}}$	21	23S	31E	Lot	20 FNL	2200 FW			03.78421112	EDDY
0	21	200	SIL		ZUTINL	22001 00	L 02.201	10452	05.70421112	LDDI
Dedica	ated Acres	Infill or Def	ining Well	Defining	g Well API	Overlapping Spaci	ng Unit (Y/N)	Consolida	tion Code	
	Numbers.					Well setbacks are under Common Ownership: □Yes □No				
order	rumbers.					wen setbacks are		Ownersnip.		
UL	Section	Township	Range	Lot	Kick Of Ft. from N/S	f Point (KOP) Ft. from E/W	Latitude	1	Longitude	County
Ĉ	33	23S	31E	Lot		_2200 FW			03.78417206	2
					First Ta	ke Point (FTP)				I
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County
Ν	28	23S	31E		100 FSI	_ 2200 FW	L 32.268	45557 -1	03.78417353	EDDY
					Last Ta	ke Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County
С	21	23S	31E		100 FNI	_ 2200 FW	L 32.296	94502 -1	03.78421081	EDDY
Unitiz	ed Area or A	rea of Uniform	Interest	Spacing	Unit Type 🖬 Horize	ontal 🗆 Vertical	Grou	nd Floor Ele	evation:	
OPER	ATOR CER	TIFICATIONS				SURVEYOR CERTI	FICATIONS			
			ntained herein is	true and one	nplete to the best of	I hereby certify that the		and an eliter of	at man mlatt - 1 r	m field rotan of not
mv kno	wledge and bei	lief, and, if the we	ell is a vertical of	r directional	well, that this	surveys made by me or i				
		wns a working into d bottom hole loc				my belief.	R CERTIFICATION			
interest	t, or to a voluni	tary pooling agre			or unleased mineral ng order heretofore	I hereby certi shown on this	y that the well location plat was plotted from fi l surveys made by me o			
enterea	l by the division	n.				under my sup	rvision, and that the sa rvision, and that the sa rrect to the bes <u>t of</u> my			
					n has received the used mineral interest	belje?	P. Show			
in each interva	tract (in the ta l will be locate	arget pool or form d or obtained a co	ation) in which	any part of th	ne well's completed	Signature and	Vey: JULY 7, 2023 Seal of Professional Surve	ryor		
	Roni MI	athew	12/16	/2024			MEL			
Signatu	ire		Date			Signature an	18	\mathbf{Y}		
R		HEW					21653	×)		
	Name					Certificate N		>/I		
Printed						1.81				
	_mathew@	@oxy.com				153	21653 MAL SUR			

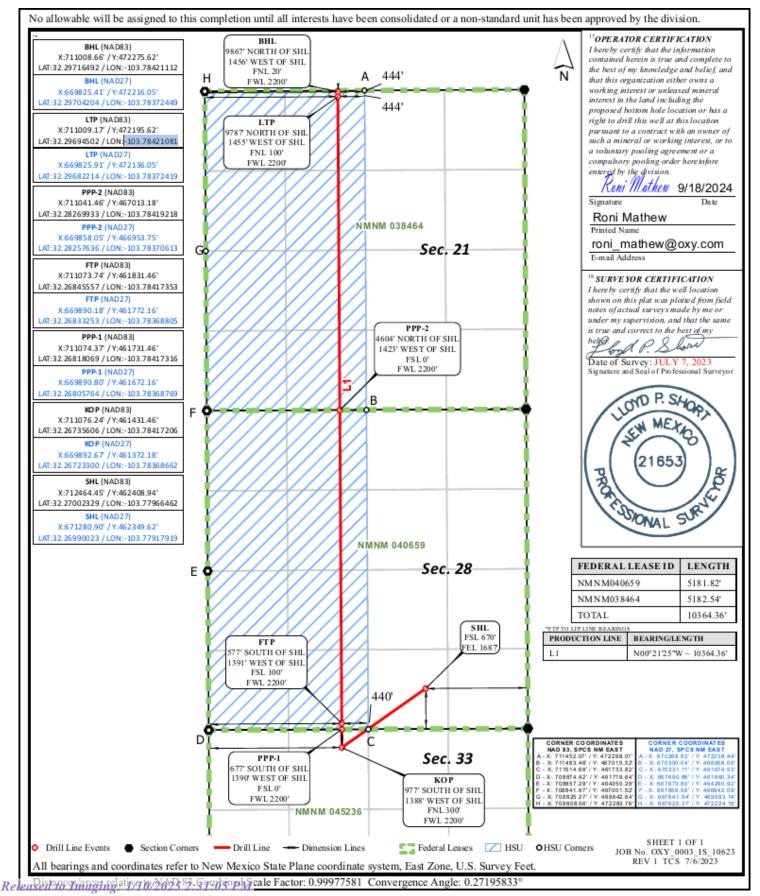
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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Received by OCD: 12/16/2024 11:49:53 AM ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



Page 5							
	E	Stat nergy, Minerals a	e of New Mez nd Natural Res		ent	Submi Via E-	t Electronically permitting
		1220 \$	onservation D South St. Fran ta Fe, NM 87	cis Dr.			
	Ν	ATURAL GA	AS MANA	GEMENT P	LAN		
This Natural Gas Manag	ement Plan m	ust be submitted w	ith each Applica	tion for Permit to I	Drill (APD) for a	new or	recompleted well.
			<u>1 – Plan D</u> ffective May 25.				
I. Operator: OXY US	A INC.		OGRID: _16	696	Date:	1 2/ 2	2 2/ 2 3
II. Type: 🗹 Original 🗆] Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C 🗆 19.15.27.9.D	(6)(b) NMAC 🗆	Other.	
If Other, please describe	:						
III. Well(s): Provide the be recompleted from a si Well Name					wells proposed to	•	ed or proposed to
wen Name	API	OLSIK	rootages	Oil BBL/D	Gas MCF/D		oduced Water BBL/D
SEE ATTACHED							
IV. Central Delivery Po V. Anticipated Schedul proposed to be recomple	e: Provide the	following informa	tion for each new	v or recompleted v	L		
Well Name	API	Spud Date	TD Reached Date	Completion Commencement			First Production Date
SEE ATTACHED							
VI. Separation Equipm VII. Operational Pract Subsection A through F	ices: 🗹 Attac	ch a complete descr		-		-	

VIII. Best Management Practices: 🗹 Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

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Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. \Box Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

□ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

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<u>Section 3 - Certifications</u> <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

 \square Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

 \Box Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:*

Well Shut-In. \Box Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. \Box Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

<u> Koni Mathew</u> Signature:

Printed Name: Roni Mathew

Title: Regulatory Advisor

E-mail Address: roni_mathew@oxy.com

Date: 12/22/2023

Phone: 713-215-7827

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

Approved By:

Title:

Approval Date:

Conditions of Approval:

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III. Well(s)

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
IRIDIUM MDP1 28_21 FED COM 12H	PENDING	O-28-23S-31E	671 FSL 1927 FEL	482	1685	1496
IRIDIUM MDP1 28_21 FED COM 13H	PENDING	O-28-23S-31E	671 FSL 1897 FEL	602	2106	1870
IRIDIUM MDP1 28_21 FED COM 14H	PENDING	O-28-23S-31E	671 FSL 1867 FEL	602	2106	1870
IRIDIUM MDP1 28_21 FED COM 22H	PENDING	N-28-23S-31E	610 FSL 1829 FWL	606	3882	1087
IRIDIUM MDP1 28_21 FED COM 23H	PENDING	N-28-23S-31E	610 FSL 1859 FWL	758	4852	1359
IRIDIUM MDP1 28_21 FED COM 24H	PENDING	O-28-23S-31E	671 FSL 1807 FEL	758	4852	1359
IRIDIUM MDP1 28_21 FED COM 25H	PENDING	0-28-23S-31E	670 FSL 1777 FEL	758	4852	1359
IRIDIUM MDP1 28_21 FED COM 26H	PENDING	O-28-23S-31E	670 FSL 1747 FEL	758	4852	1359
IRIDIUM MDP1 28_21 FED COM 42H	PENDING	N-28-23S-31E	609 FSL 1919 FWL	537	4285	2607
IRIDIUM MDP1 28_21 FED COM 43H	PENDING	N-28-23S-31E	609 FSL 1949 FWL	537	4285	2607
IRIDIUM MDP1 28_21 FED COM 44H	PENDING	O-28-23S-31E	670 FSL 1687 FEL	537	4285	2607
IRIDIUM MDP1 28_21 FED COM 45H	PENDING	0-28-23S-31E	670 FSL 1657 FEL	430	3428	2086
IRIDIUM MDP1 28_21 FED COM 46H	PENDING	O-28-23S-31E	669 FSL 1597 FEL	537	4285	2607
IRIDIUM MDP1 28_21 FED COM 47H	PENDING	O-28-23S-31E	669 FSL 1567 FEL	564	4499	2737
IRIDIUM MDP1 28-21 FED COM 71H	PENDING	N-28-23S-31E	610 FSL 1739 FWL	896	2118	1591
IRIDIUM MDP1 28-21 FED COM 72H	PENDING	N-28-23S-31E	610 FSL 1769 FWL	896	2118	1591
IRIDIUM MDP1 28-21 FED COM 73H	PENDING	O-28-23S-31E	672 FSL 2017 FEL	896	2118	1591
IRIDIUM MDP1 28-21 FED COM 74H	PENDING	O-28-23S-31E	672 FSL 1987 FEL	896	2118	1591
STERLING SILVER MDP1 33_4 FED COM 11H	PENDING	N-28-23S-31E	735 FSL 1800 FWL	602	2106	1870
STERLING SILVER MDP1 33_4 FED COM 12H	PENDING	N-28-23S-31E	735 FSL 1830 FWL	602	2106	1870
STERLING SILVER MDP1 33_4 FED COM 13H	PENDING	O-28-23S-31E	796 FSL 1836 FEL	602	2106	1870
STERLING SILVER MDP1 33_4 FED COM 14H	PENDING	O-28-23S-31E	796 FSL 1806 FEL	602	2106	1870
STERLING SILVER MDP1 33_4 FED COM 21H	PENDING	N-28-23S-31E	736 FSL 1680 FWL	758	4852	1359
STERLING SILVER MDP1 33_4 FED COM 22H	PENDING	N-28-23S-31E	736 FSL 1710 FWL	758	4852	1359
STERLING SILVER MDP1 33_4 FED COM 23H	PENDING	N-28-23S-31E	735 FSL 1740 FWL	758	4852	1359
STERLING SILVER MDP1 33_4 FED COM 24H	PENDING	O-28-23S-31E	795 FSL 1746 FEL	758	4852	1359
STERLING SILVER MDP1 33_4 FED COM 25H	PENDING	O-28-23S-31E	795 FSL 1716 FEL	758	4852	1359
STERLING SILVER MDP1 33_4 FED COM 26H	PENDING	O-28-23S-31E	795 FSL 1686 FEL	758	4852	1359
STERLING SILVER MDP1 33_4 FED COM 41H	PENDING	N-28-23S-31E	735 FSL 1890 FWL	597	4761	2897
STERLING SILVER MDP1 33_4 FED COM 42H	PENDING	N-28-23S-31E	734 FSL 1920 FWL	597	4761	2897
STERLING SILVER MDP1 33_4 FED COM 43H	PENDING	N-28-23S-31E	734 FSL 1950 FWL	597	4761	2897
STERLING SILVER MDP1 33_4 FED COM 44H	PENDING	O-28-23S-31E	795 FSL 1626 FEL	597	4761	2897
STERLING SILVER MDP1 33_4 FED COM 45H	PENDING	O-28-23S-31E	794 FSL 1596 FEL	597	4761	2897
STERLING SILVER MDP1 33_4 FED COM 46H	PENDING	O-28-23S-31E	794 FSL 1566 FEL	597	4761	2897
STERLING SILVER MDP1 33-4 FED COM 71H	PENDING	C-33-23S-31E	105 FNL 1854 FWL	896	2118	1591
STERLING SILVER MDP1 33-4 FED COM 72H	PENDING	C-33-23S-31E	75 FNL 1854 FWL	896	2118	1591
STERLING SILVER MDP1 33-4 FED COM 73H	PENDING	C-33-23S-31E	45 FNL 1854 FWL	717	1694	1273

Values represent 6 Month Average

V. Anticipated Schedule

. Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
IRIDIUM MDP1 28_21 FED COM 12H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 13H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 14H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 22H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 23H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 24H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 25H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 26H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 42H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 43H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 44H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 45H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 46H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 47H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28-21 FED COM 71H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28-21 FED COM 72H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28-21 FED COM 73H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28-21 FED COM 74H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 11H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 12H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 13H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 14H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 21H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 22H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 23H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 24H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 25H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 26H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 41H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 42H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 43H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 44H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 45H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 46H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33-4 FED COM 71H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33-4 FED COM 72H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33-4 FED COM 73H	PENDING	TBD	TBD	TBD	TBD	TBD

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Part VI. Separation Equipment

Operator will size the flowback separator to handle 12,000 Bbls of fluid and 6-10MMscfd which is more than the expected peak rates for these wells. Each separator is rated to 1440psig, and pressure control valves and automated communication will cause the wells to shut in in the event of an upset at the facility, therefore no gas will be flared on pad during an upset. Current Oxy practices avoid use of flare or venting on pad, therefore if there is an upset or emergency condition at the facility, the wells will immediately shut down, and reassume production once the condition has cleared.

VII. Operational Practices

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 nonpipeline quality gas be vented and/or flared rather than sold on a temporary basis.

VIII. Best Management Practices

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

•Power Generation – On lease

oOnly a portion of gas is consumed operating the generator, remainder of gas will be flared

•Compressed Natural Gas – On lease

oGas flared would be minimal, but might be uneconomical to operate when gas volume declines

•NGL Removal – On lease

oPlants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Oxy USA Inc. - IRIDIUM MDP1 28_21 FEDERAL COM 44H Drill Plan

1. Geologic Formations

U			
TVD of Target (ft):	12414	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	23421	Deepest Expected Fresh Water (ft):	458

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	458	458	
Salado	837	837	Salt
Castile	2742	2742	Salt
Delaware	4238	4238	Oil/Gas/Brine
Bell Canyon	4266	4266	Oil/Gas/Brine
Cherry Canyon	5138	5138	Oil/Gas/Brine
Brushy Canyon	6454	6423	Losses
Bone Spring	8127	8039	Oil/Gas
Bone Spring 1st	9228	9103	Oil/Gas
Bone Spring 2nd	9907	9759	Oil/Gas
Bone Spring 3rd	11097	10908	Oil/Gas
Wolfcamp	11579	11374	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		N	ID	Τ\	/D				
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	518	0	518	13.375	54.5	J-55	BTC
Salt	12.25	0	4338	0	4338	9.625	40	L-80 HC	BTC
Intermediate	8.75	0	11874	0	11655	7.625	26.4	L-80 HC	Wedge 425
Production	6.75	0	23421	0	12414	5.5	20	P-110	Wedge 461

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	Burst	Tension	Tension					
1.00	1.100	1.4	1.4					

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement. Please see Annular Clearance Variance attachment for further details.

	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?	Y
If not provide justification (loading assumptions, casing design criteria).	I
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	I
Is well located within Capitan Reef?	Ν
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Ν
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd 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 (Ib/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	541	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	141	1.33	14.8	20%	3,838	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	1010	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	331	1.65	13.2	5%	6,704	Circulate	Class H+Accel., Disper., Salt
Int. 2	2	Intermediate 2S - Tail BH	449	1.71	13.3	25%	-	Bradenhead Post-Frac	Class C+Accel.
Prod.	1	Production - Tail	910	1.38	13.2	25%	11,374	Circulate	Class H+Ret., Disper., Salt

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.

BOP installed and		Min.				TVD Depth	
tested before drilling	Size?	Required	Туре	1	Tested to:	(ft) per	
which hole?		WP				Section:	
		5M	Annular	~	70% of working pressure		
			Blind Ram	✓			
12.25" Hole	13-5/8"	5M	Pipe Ram		250 psi / 5000 psi	4338	
		SIVI	Double Ram	✓	200 psi / 5000 psi		
			Other*				
		5M	Annular	✓	70% of working pressure	11655	
	13-5/8"		Blind Ram	 ✓ 			
8.75" Hole		^{3"} 5M	Pipe Ram		250 psi / 5000 psi		
			Double Ram	✓	250 psi / 5000 psi		
			Other*				
		5M	Annular	✓	100% of working pressure		
			Blind Ram	✓			
6.75" Hole	13-5/8"		Pipe Ram		250 psi / 10000 psi	12414	
		10101	Double Ram	✓	200 psi / 10000 psi		
			Other*				

4. Pressure Control Equipment

*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 requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. 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		Tyme	Weight	Viscosity	Water
Section	From (ft) To (ft)		From (ft)	To (ft)	Туре	(ppg)	viscosity	Loss
Surface	0	518	0	518	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	518	4338	518	4338	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4338	11874	4338	11655	Water-Based or Oil- Based Mud	8.0 - 10.0	38-50	N/C
Production	11874	23421	11655	12414	Water-Based or Oil- Based Mud	9.5 - 13.5	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	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	

6. Logging and Testing Procedures

Loggi	Logging, Coring and Testing.					
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).					
res	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					

Addit	ional 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	8715 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

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 2 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: 1783 bbls

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) Iridium MDP1 28_21 Fed Com Iridium MDP1 28_21 Federal Com 44H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

07 February, 2023

OXY Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	PRD N Iridium Iridium Wellbo	NEERING DES NM DIRECTIO NMDP1 28_21 NMDP1 28_21	NAL PLANS (,	TVD Refer MD Refer North Ref	ence:		Well Iridium MD RKB=26.5' @ 3 RKB=26.5' @ 3 Grid Minimum Curva	413.50ft 413.50ft	ral Com 44H
Project	PRD N	M DIRECTION	NAL PLANS (N	IAD 1983)						
Map System: Geo Datum: Map Zone:	North Am	e Plane 1983 herican Datum kico Eastern Z			System Da	tum:		ean Sea Level ing geodetic sc	ale factor	
Site	Iridium	MDP1 28_21	Fed Com							
Site Position: From: Position Uncertain	Map ty:	1.00 f	North Eastir t Slot R	•	709,5	53.25 usft 19.68 usft 3.200 in	Latitude: Longitude:			32.269362 -103.789196
Well	Iridium I	MDP1 28_21	Federal Com 4	I4H						
Well Position Position Uncertain Grid Convergence:	•	0.0 1.0	00 ft Ea	orthing: sting: ellhead Eleva	ation:	462,408.94 712,464.45	usf Lor	itude: ngitude: nund Level:		32.27002 -103.77966 3,387.00 ft
Wellbore	Wellbo	re #1								
Magnetics	Мос	del Name	Sample	e Date	Declinat (°)	tion	Dip A (°		Field Str (nT	•
		HDGM_FILE		3/2/2023		6.42		59.87	47,581	.00000000
Design	Permitti	ing Plan								
Audit Notes: Version:			Phas	e: F	PROTOTYPE	Tie	On Depth:		0.00	
Vertical Section:		D	epth From (T) (ft) 0.00	/D)	+N/-S (ft) 0.00	(1	/ -W f t) 00		ection (°) 1.61	
Plan Survey Tool F	Depth (ft)	n To) Survey	2/6/2023 • (Wellbore) ing Plan (Well	pore #1)	Tool Name B001Mb_MWI OWSG MWD		Remarks			
Depth From (ft) 1 0.00	23,42									
(ft) 1 0.00	23,42									
(ft) 1 0.00 Plan Sections Measured Depth Incli	nation (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
(ft) 1 0.00 Plan Sections Measured Depth Incli	nation		Depth		+E/-W	Dogleg Rate	Rate	Rate		Target

.

Database:	HOPSPP	Local Co-ordinate Reference:	Well Iridium MDP1 28_21 Federal Com 44H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3413.50ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3413.50ft
Site:	Iridium MDP1 28_21 Fed Com	North Reference:	Grid
Well:	Iridium MDP1 28_21 Federal Com 44H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

0.00 0.00 <th< th=""><th>0.00 0.00 0.00 0.00</th><th>0.00 0.00</th><th>0.00</th></th<>	0.00 0.00 0.00 0.00	0.00 0.00	0.00
	0.00 0.00 0.00		
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500.00 0.00 0.00 500.00 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
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
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1,300.00 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
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1,900.00 0.00 0.00 1,900.00 0.00 0.00 0.00	0.00	0.00	0.00
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2,300.00 0.00 0.00 2,300.00 0.00 0.00 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
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3,300.00 0.00 0.00 3,300.00 0.00 0.00 0.	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
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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.	0.00	0.00	0.00
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4,200.00 0.00 0.00 4,200.00 0.00 0.00 0.00 0.00	0.00	0.00	0.00
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5,000.00 0.00 5,000.00 0.00 0.00 0.00	0.00	0.00	0.00
5,042.00 0.00 0.00 5,042.00 0.00 0.00 0.00	0.00	0.00	0.00
5,100.00 1.16 227.69 5,100.00 -0.40 -0.43 -0.33	2.00	2.00	0.00
5,200.00 3.16 227.69 5,199.92 -2.93 -3.22 -2.43	2.00	2.00	0.00
5,300.00 5.16 227.69 5,299.65 -7.81 -8.59 -6.48	2.00	2.00	0.00

OXY Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Iridium MDP1 28_21 Federal Com 44H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3413.50ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3413.50ft
Site:	Iridium MDP1 28_21 Fed Com	North Reference:	Grid
Well:	Iridium MDP1 28_21 Federal Com 44H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	7.16	227.69	5,399.07	-15.04	-16.52	-12.46	2.00	2.00	0.00
5,500.00	9.16	227.69	5,498.05	-24.59	-27.02	-20.38	2.00	2.00	0.00
5,600.00	11.16	227.69	5,596.48	-36.46	-40.06	-30.23	2.00	2.00	0.00
5,700.00	13.16	227.69	5,694.23	-50.64	-55.64	-41.98	2.00	2.00	0.00
5,791.85	15.00	227.69	5,783.31	-65.68	-72.16	-54.44	2.00	2.00	0.00
5,800.00	15.00	227.69	5,791.19	-67.10	-73.72	-55.62	0.00	0.00	0.00
5,900.00	15.00	227.69	5,887.78	-84.52	-92.86	-70.06	0.00	0.00	0.00
6,000.00	15.00	227.69	5,984.38	-101.94	-111.99	-84.50	0.00	0.00	0.00
6,100.00	15.00	227.69	6,080.97	-119.35	-131.13	-98.94	0.00	0.00	0.00
6,200.00	15.00	227.69	6,177.57	-136.77	-150.27	-113.37	0.00	0.00	0.00
6,300.00	15.00	227.69	6.274.16	-154.19	-169.40	-127.81	0.00	0.00	0.00
6,400.00	15.00	227.69	6,370.75	-171.61	-188.54	-142.25	0.00	0.00	0.00
6,500.00	15.00	227.69	6,467.35	-189.03	-207.68	-156.69	0.00	0.00	0.00
6,600.00	15.00	227.69	6,563.94	-206.45	-226.81	-171.13	0.00	0.00	0.00
6,700.00	15.00	227.69	6,660.54	-223.86	-245.95	-185.57	0.00	0.00	0.00
6,800.00	15.00	227.69	6,757.13	-241.28	-265.09	-200.00	0.00	0.00	0.00
6,900.00	15.00	227.69	6,853.72	-258.70	-284.23	-214.44	0.00	0.00	0.00
7,000.00	15.00	227.69	6,950.32	-276.12	-303.36	-228.88	0.00	0.00	0.00
7,100.00 7,200.00	15.00	227.69 227.69	7,046.91 7,143.51	-293.54 -310.95	-322.50 -341.64	-243.32 -257.76	0.00 0.00	0.00 0.00	0.00 0.00
	15.00								
7,300.00	15.00	227.69	7,240.10	-328.37	-360.77	-272.19	0.00	0.00	0.00
7,400.00	15.00	227.69	7,336.69	-345.79	-379.91	-286.63	0.00	0.00	0.00
7,500.00	15.00	227.69	7,433.29	-363.21	-399.05	-301.07	0.00	0.00	0.00
7,600.00	15.00	227.69	7,529.88	-380.63	-418.18	-315.51	0.00	0.00	0.00
7,700.00	15.00	227.69	7,626.47	-398.04	-437.32	-329.95	0.00	0.00	0.00
7,800.00	15.00	227.69	7,723.07	-415.46	-456.46	-344.39	0.00	0.00	0.00
7,900.00	15.00	227.69	7,819.66	-432.88	-475.59	-358.82	0.00	0.00	0.00
8,000.00	15.00	227.69	7,916.26	-450.30	-494.73	-373.26	0.00	0.00	0.00
8,100.00	15.00	227.69	8,012.85	-467.72	-513.87	-387.70	0.00	0.00	0.00
8,200.00	15.00	227.69	8,109.44	-485.14	-533.00	-402.14	0.00	0.00	0.00
8,300.00	15.00	227.69	8,206.04	-502.55	-552.14	-416.58	0.00	0.00	0.00
8,400.00	15.00	227.69	8,302.63	-502.55	-552.14	-431.02	0.00	0.00	0.00
8,400.00	15.00	227.69	8,399.23	-537.39	-590.41	-445.45	0.00	0.00	0.00
8,600.00	15.00	227.69	8,495.82	-554.81	-609.55	-459.89	0.00	0.00	0.00
8,700.00	15.00	227.69	8,592.41	-572.23	-628.69	-474.33	0.00	0.00	0.00
8,800.00	15.00	227.69	8,689.01	-589.64	-647.82	-488.77	0.00	0.00	0.00
8,900.00	15.00	227.69	8,785.60	-607.06	-666.96	-503.21	0.00	0.00	0.00
9,000.00	15.00	227.69	8,882.20	-624.48	-686.10	-517.64	0.00	0.00	0.00
9,100.00	15.00	227.69	8,978.79	-641.90	-705.23	-532.08	0.00	0.00	0.00
9,200.00	15.00	227.69	9,075.38	-659.32	-724.37	-546.52	0.00	0.00	0.00
9,300.00	15.00	227.69	9,171.98	-676.73	-743.51	-560.96	0.00	0.00	0.00
9,400.00	15.00	227.69	9,268.57	-694.15	-762.64	-575.40	0.00	0.00	0.00
9,500.00	15.00	227.69	9,365.17	-711.57	-781.78	-589.84	0.00	0.00	0.00
9,600.00	15.00	227.69	9,461.76	-728.99	-800.92	-604.27	0.00	0.00	0.00
9,700.00	15.00	227.69	9,558.35	-746.41	-820.05	-618.71	0.00	0.00	0.00
9,800.00	15.00	227.69	9,654.95	-763.83	-839.19	-633.15	0.00	0.00	0.00
9,900.00	15.00	227.69	9,751.54	-781.24	-858.33	-647.59	0.00	0.00	0.00
10,000.00	15.00	227.69	9,848.14	-798.66	-877.46	-662.03	0.00	0.00	0.00
10,100.00	15.00	227.69	9,944.73	-816.08	-896.60	-676.47	0.00	0.00	0.00
10,200.00	15.00	227.69	10,041.32	-833.50	-915.74	-690.90	0.00	0.00	0.00
10,300.00	15.00	227.69	10,137.92	-850.92	-934.87	-705.34	0.00	0.00	0.00
10,300.00	15.00	227.69	10,137.92	-850.92 -868.33	-934.87 -954.01	-705.34 -719.78	0.00	0.00	0.00
10,400.00	15.00	227.69	10,234.51	-885.75	-954.01	-734.22	0.00	0.00	0.00
10,600.00	15.00	227.69	10,427.70	-903.17	-992.29	-748.66	0.00	0.00	0.00
10,700.00	15.00	227.69	10,524.29	-920.59	-1,011.42	-763.10	0.00	0.00	0.00
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Database:	HOPSPP	Local Co-ordinate Reference:	Well Iridium MDP1 28_21 Federal Com 44H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3413.50ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3413.50ft
Site:	Iridium MDP1 28_21 Fed Com	North Reference:	Grid
Well:	Iridium MDP1 28_21 Federal Com 44H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	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)
	10.800.00	15.00	227.69	10.620.89	-938.01	-1.030.56	-777.53	0.00	0.00	0.00
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	11,000.00	15.00	227.69	10,814.08	-972.84		-806.41	0.00	0.00	0.00
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	11,100.00	15.00	227.69	10,910.67	-990.26	-1,087.97	-820.85	0.00	0.00	0.00
$ \begin{bmatrix} 1 + 400.00 & 15.00 & 227.69 & 11.200.45 & -1.042.52 & -1.145.38 & -864.16 & 0.00 & 0.00 & 0.00 \\ 11.600.00 & 15.00 & 227.69 & 11.393.64 & -1.077.35 & -1.164.52 & -878.60 & 0.00 & 0.00 & 0.00 \\ 11.600.00 & 15.00 & 227.69 & 11.393.64 & -1.077.35 & -1.183.65 & -893.40 & 0.00 & 0.00 & 0.00 \\ 11.800.00 & 15.00 & 227.69 & 11.896.43 & -1.122.19 & -1.221.93 & -921.92 & 0.00 & 0.00 & 0.00 \\ 11.800.00 & 15.00 & 227.69 & 11.866.43 & -1.122.19 & -1.221.93 & -921.92 & 0.00 & 0.00 & 0.00 \\ 11.976.62 & 15.00 & 227.69 & 11.786.47 & -1.142.78 & -1.255.53 & -947.27 & 0.00 & 0.00 & 0.00 \\ 12.900.00 & 13.52 & 235.59 & 11.780.10 & -1.146.51 & -1.259.12 & 10.00 & -5.05 & 24.40 \\ 12.100.00 & 13.52 & 235.59 & 11.780.10 & -1.146.51 & -1.259.12 & 10.00 & -5.02 & 36.65 \\ 12.200.00 & 16.76 & 318.16 & 11.975.66 & -1.138.16 & -1.299.14 & -936.34 & 10.00 & 5.22 & 36.65 \\ 12.200.00 & 43.68 & 347.56 & -1.283.45 & -1.375.27 & -954.19 & 10.00 & 8.26 & 16.16 \\ 12.400.00 & 34.18 & 342.54 & 12.153.37 & -1.062.31 & -1.335.61 & -855.98 & 10.00 & 9.16 & 8.21 \\ 12.600.00 & 53.33 & 351.07 & 12.289.29 & -928.12 & -1.365.22 & -718.90 & 10.00 & 9.65 & 5.02 \\ 12.600.00 & 53.33 & 351.07 & 12.289.29 & -73.77 & -1.384.40 & -541.64 & 10.00 & 9.77 & 2.27 \\ 12.600.00 & 72.83 & 366.08 & 12.389.45 & -751.77 & -1.384.40 & -541.64 & 10.00 & 9.77 & 2.27 \\ 12.800.00 & 72.83 & 356.64 & 12.441.48 & -254.54 & -1.392.81 & -445.50 & 0.00 & 0.00 & 0.00 \\ 13.300.00 & 90.18 & 359.64 & 12.414.84 & -254.54 & -1.392.63 & -0.00 & 0.00 & 0.00 \\ 13.300.00 & 90.18 & 359.64 & 12.414.84 & -254.54 & -1.394.05 & 149.53 & 0.00 & 0.00 & 0.00 \\ 13.600.00 & 90.18 & 359.64 & 12.414.84 & -254.54 & -1.394.67 & 248.55 & 0.00 & 0.00 & 0.00 \\ 13.600.00 & 90.18 & 359.64 & 12.414.84 & -254.54 & -1.394.05 & 149.53 & 0.00 & 0.00 & 0.00 \\ 13.600.00 & 90.18 & 359.64 & 12.414.84 & -254.54 & -1.394.05 & 149.53 & 0.00 & 0.00 & 0.00 \\ 13.600.00 & 90.18 & 359.64 & 12.414.84 & -254.54 & -1.394.05 & 149.53 & 0.00 & 0.00 & 0.00 \\ 13.600.00 & 90.18 & 359.64 & 12.414.84 & -244.54 & -1.394.65 & 1.495.53 & 0.0$	11,200.00	15.00	227.69	11,007.26	-1,007.68	-1,107.11	-835.29	0.00	0.00	0.00
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$ \begin{bmatrix} 12,400.00 & 34.18 & 342.54 & 12,155.37 & -1,062.31 & -1,335.61 & -2,036.4 & 10.00 & 9.16 & 8.21 \\ 12,600.00 & 53.33 & 351.07 & 12,299.29 & -928.12 & -1,365.22 & -738.94 & 10.00 & 9.65 & 3.51 \\ 12,700.00 & 63.06 & 353.79 & 12,351.94 & -843.98 & -1,376.29 & -634.05 & 10.00 & 9.73 & 2.72 \\ 12,800.00 & 72.83 & 356.08 & 12,299.45 & -751.77 & -1,384.40 & -541.64 & 10.00 & 9.77 & 2.28 \\ 12,900.00 & 82.63 & 358.13 & 12,410.67 & -654.30 & -1,389.40 & -541.64 & 10.00 & 9.80 & 2.05 \\ 12,977.01 & 90.18 & 359.64 & 12,415.50 & -577.51 & -1,390.79 & -366.32 & 10.00 & 9.80 & 2.05 \\ 13,200.00 & 90.18 & 359.64 & 12,415.43 & -554.53 & -1,390.94 & -345.56 & 0.00 & 0.00 & 0.00 \\ 13,000.0 & 90.18 & 359.64 & 12,414.80 & -354.53 & -1,392.18 & -474.52 & 0.00 & 0.00 & 0.00 \\ 13,300.00 & 90.18 & 359.64 & 12,414.80 & -354.53 & -1,392.18 & -475.2 & 0.00 & 0.00 & 0.00 \\ 13,300.00 & 90.18 & 359.64 & 12,414.80 & -354.53 & -1,392.18 & -48.51 & 0.00 & 0.00 & 0.00 \\ 13,000.0 & 90.18 & 359.64 & 12,414.80 & -354.53 & -1,392.18 & -48.51 & 0.00 & 0.00 & 0.00 \\ 13,000.0 & 90.18 & 359.64 & 12,413.85 & -54.54 & -1,393.43 & 50.51 & 0.00 & 0.00 & 0.00 \\ 13,000.0 & 90.18 & 359.64 & 12,413.22 & 145.46 & -1,394.57 & 248.55 & 0.00 & 0.00 & 0.00 \\ 13,000.0 & 90.18 & 359.64 & 12,413.22 & 145.46 & -1,394.51 & 0.00 & 0.00 & 0.00 \\ 13,000.0 & 90.18 & 359.64 & 12,412.82 & 445.45 & -1,395.59 & 446.58 & 0.00 & 0.00 & 0.00 \\ 14,000.0 & 90.18 & 359.64 & 12,412.27 & 445.45 & -1,395.49 & 347.56 & 0.00 & 0.00 & 0.00 \\ 14,000.0 & 90.18 & 359.64 & 12,412.27 & 445.45 & -1,395.49 & 248.55 & 0.00 & 0.00 & 0.00 \\ 14,000.0 & 90.18 & 359.64 & 12,412.87 & 445.45 & -1,395.49 & 248.55 & 0.00 & 0.00 & 0.00 \\ 14,000.0 & 90.18 & 359.64 & 12,412.87 & 445.45 & -1,397.77 & 644.62 & 0.00 & 0.00 & 0.00 \\ 14,000.0 & 90.18 & 359.64 & 12,412.27 & 445.45 & -1,397.77 & 644.62 & 0.00 & 0.00 & 0.00 \\ 14,000.0 & 90.18 & 359.64 & 12,412.27 & 445.45 & -1,397.47 & 640.62 & 0.00 & 0.00 \\ 14,000.0 & 90.18 & 359.64 & 12,412.87 & 144.54 & -1,397.47 & 0.00 & 0.00 & 0.00 \\ 14,000.0 & 90.18 & 359.64 & $,	,	,				
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	12,700.00	63.06	353.79	12,351.94	-843.98	-1,376.29	-634.05	10.00	9.73	2.72
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	12,900.00	82.63	358.13	12,410.67	-654.30	-1,389.30	-444.50	10.00	9.80	2.05
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	12,977.01			12,415.50		-1,390.79				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	13,000.00	90.18	359.64	12,415.43	-554.53	-1,390.94	-345.56	0.00	0.00	0.00
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	14,100.00	90.18	359.64	12,411.95	545.45	-1,397.79	743.63	0.00	0.00	0.00
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$,		,				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	14,300.00	90.18	359.64	12,411.32	745.44	-1,399.04	941.67	0.00	0.00	0.00
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$										
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	14,500.00	90.18	359.64	12,410.69	945.44	-1,400.28	1,139.70	0.00	0.00	0.00
14,800.00 90.18 359.64 12,409.74 1,245.43 -1,402.15 1,436.76 0.00 0.00 0.00 14,900.00 90.18 359.64 12,409.42 1,345.43 -1,402.77 1,535.77 0.00 0.00 0.00 15,000.00 90.18 359.64 12,409.11 1,445.42 -1,403.40 1,634.79 0.00 0.00 0.00 15,100.00 90.18 359.64 12,408.79 1,545.42 -1,404.02 1,733.81 0.00 0.00 0.00 15,200.00 90.18 359.64 12,408.79 1,545.42 -1,404.64 1,832.83 0.00 0.00 0.00 15,300.00 90.18 359.64 12,408.16 1,745.42 -1,404.64 1,832.83 0.00 0.00 0.00 15,300.00 90.18 359.64 12,407.85 1,845.41 -1,405.27 1,931.84 0.00 0.00 0.00 15,400.00 90.18 359.64 12,407.85 1,845.41 -1,405.89 2,030.86				,						
14,900.00 90.18 359.64 12,409.42 1,345.43 -1,402.77 1,535.77 0.00 0.00 0.00 15,000.00 90.18 359.64 12,409.11 1,445.42 -1,403.40 1,634.79 0.00 0.00 0.00 15,100.00 90.18 359.64 12,408.79 1,545.42 -1,404.02 1,733.81 0.00 0.00 0.00 15,200.00 90.18 359.64 12,408.79 1,545.42 -1,404.02 1,733.81 0.00 0.00 0.00 15,200.00 90.18 359.64 12,408.48 1,645.42 -1,404.64 1,832.83 0.00 0.00 0.00 15,300.00 90.18 359.64 12,408.16 1,745.42 -1,405.27 1,931.84 0.00 0.00 0.00 15,400.00 90.18 359.64 12,407.85 1,845.41 -1,405.89 2,030.86 0.00 0.00 0.00 15,500.00 90.18 359.64 12,407.53 1,945.41 -1,406.51 2,129.88										
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15,200.00 90.18 359.64 12,408.48 1,645.42 -1,404.64 1,832.83 0.00 0.00 0.00 15,300.00 90.18 359.64 12,408.16 1,745.42 -1,405.27 1,931.84 0.00 0.00 0.00 15,400.00 90.18 359.64 12,407.85 1,845.41 -1,405.89 2,030.86 0.00 0.00 0.00 15,500.00 90.18 359.64 12,407.53 1,945.41 -1,406.51 2,129.88 0.00 0.00 0.00 15,600.00 90.18 359.64 12,407.21 2,045.41 -1,407.14 2,228.90 0.00 0.00 0.00				,		,				
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	15,600.00	90.18	359.64	12,407.21	2,045.41	-1,407.14	2,228.90	0.00	0.00	0.00
	15,700.00	90.18	359.64	12,406.90	2,145.41	-1,407.76	2,327.91	0.00	0.00	0.00
15,800.00 90.18 359.64 12,406.58 2,245.40 -1,408.38 2,426.93 0.00 0.00 0.00					,	,				
15,900.00 90.18 359.64 12,406.27 2,345.40 -1,409.01 2,525.95 0.00 0.00 0.00						,				
16,000.00 90.18 359.64 12,405.95 2,445.40 -1,409.63 2,624.97 0.00 0.00 0.00	16,000.00	90.18	359.64	12,405.95	2,445.40	-1,409.63	2,624.97	0.00	0.00	0.00

Database:	HOPSPP	Local Co-ordinate Reference:	Well Iridium MDP1 28_21 Federal Com 44H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3413.50ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3413.50ft
Site:	Iridium MDP1 28_21 Fed Com	North Reference:	Grid
Well:	Iridium MDP1 28_21 Federal Com 44H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

16 100 90 16 356 64 12 405 2 2745 389 0.00 0.00 0.00 0.00 16 000.00 90.18 356 64 12 405 2 2745 39 -14 11.08 2 22202 0.00 0.00 0.00 0.00 16 000.00 90.18 356 41 12 404.37 2 443.37 3120.05 0.00 0.00 0.00 0.00 16 000.00 90.18 356.44 12 404.37 314.53 7 3120.05 0.00	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)
1 1	16.100.00	90.18	359.64	12,405.63	2,545.40	-1,410.25	2,723.98	0.00	0.00	0.00
1 10.300.00 90.18 3359.64 12.404.69 2.465.39 -1.411.50 2.922.02 0.00 0.00 0.00 16.500.00 90.18 3359.64 12.404.67 2.945.39 -1.412.74 3.120.05 0.00 0.00 0.00 16.600.00 90.18 3559.64 12.403.47 2.945.39 -1.413.39 3.318.09 0.00 0.00 0.00 16.900.00 90.18 3559.64 12.403.47 3.445.38 -1.415.24 3.516.12 0.00 0.00 0.00 17.900.00 90.18 3559.64 12.402.74 3.454.53 -1.415.86 3.516.12 0.00 0.00 0.00 17.900.00 90.18 3559.64 12.402.76 3.454.53 -1.417.14 3.311.31 0.00 0.00 0.00 17.900.00 90.18 3559.64 12.402.74 3.454.53 -1.417.74 3.312.19 0.00 0.00 0.00 17.900.00 90.18 3559.64 12.402.84 3.445.35 -1.417.71					,					
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	21,500.00	90.18	359.64	12,388.57	7,945.27	-1,443.90	8,070.93	0.00	0.00	0.00

Database:	HOPSPP	Local Co-ordinate Reference:	Well Iridium MDP1 28_21 Federal Com 44H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3413.50ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3413.50ft
Site:	Iridium MDP1 28_21 Fed Com	North Reference:	Grid
Well:	Iridium MDP1 28_21 Federal Com 44H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
21,600.00 21,700.00 21,800.00 21,900.00 22,000.00	90.18 90.18 90.18 90.18 90.18 90.18	359.64 359.64 359.64 359.64 359.64	12,388.26 12,387.94 12,387.62 12,387.31 12,386.99	8,045.26 8,145.26 8,245.26 8,345.26 8,445.25	-1,444.52 -1,445.15 -1,445.77 -1,446.39 -1,447.02	8,169.95 8,268.96 8,367.98 8,467.00 8,566.02	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
22,100.00 22,200.00 22,300.00 22,400.00 22,500.00	90.18 90.18 90.18 90.18 90.18 90.18	359.64 359.64 359.64 359.64 359.64	12,386.68 12,386.36 12,386.05 12,385.73 12,385.41	8,545.25 8,645.25 8,745.25 8,845.24 8,945.24	-1,447.64 -1,448.26 -1,448.88 -1,449.51 -1,450.13	8,665.03 8,764.05 8,863.07 8,962.09 9,061.10	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
22,600.00 22,700.00 22,800.00 22,900.00 23,000.00	90.18 90.18 90.18 90.18 90.18 90.18	359.64 359.64 359.64 359.64 359.64	12,385.10 12,384.78 12,384.47 12,384.15 12,383.83	9,045.24 9,145.24 9,245.23 9,345.23 9,445.23	-1,450.75 -1,451.38 -1,452.00 -1,452.62 -1,453.25	9,160.12 9,259.14 9,358.16 9,457.17 9,556.19	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
23,100.00 23,200.00 23,300.00 23,400.00 23,422.05	90.18 90.18 90.18 90.18 90.18	359.64 359.64 359.64 359.64 359.64	12,383.52 12,383.20 12,382.89 12,382.57 12,382.50	9,545.23 9,645.22 9,745.22 9,845.22 9,867.27	-1,453.87 -1,454.49 -1,455.12 -1,455.74 -1,455.88	9,655.21 9,754.23 9,853.24 9,952.26 9,974.09	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00

Desi	ign T	arge	ts
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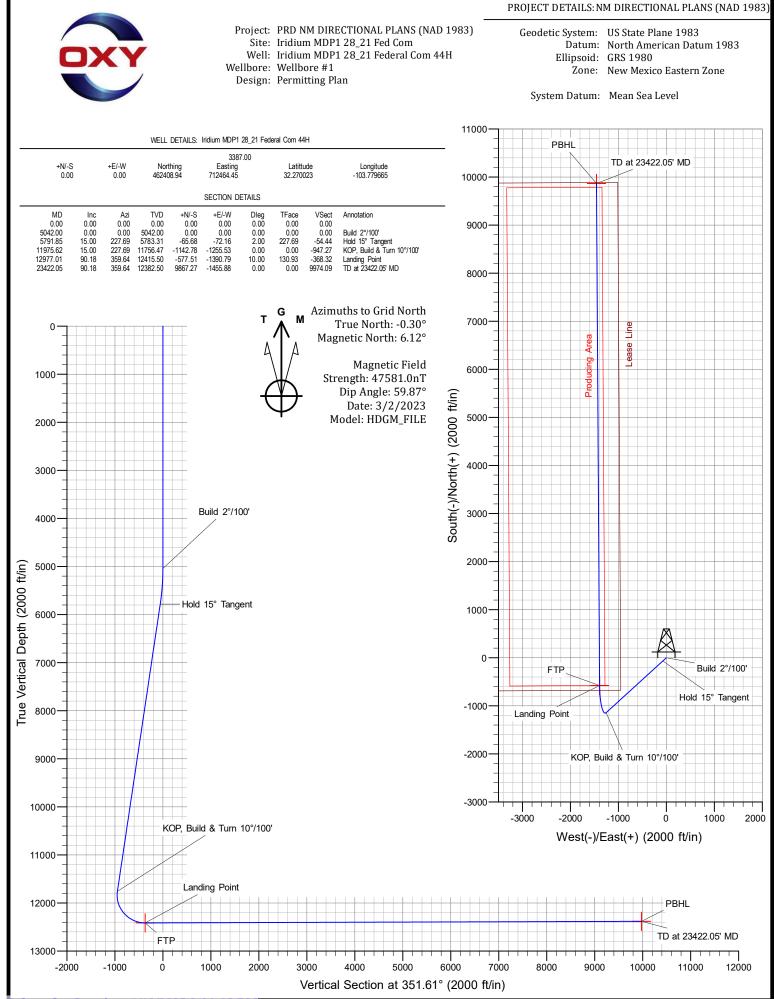
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Iridium MDP1 - plan hits target cen - Point	0.00 ter	0.00	12,382.50	9,867.27	-1,455.88	472,275.62	711,008.66	32.297165	-103.784211
FTP (Iridium MDP1 - plan hits target cen - Point	0.00 ter	0.00	12,415.50	-577.51	-1,390.79	461,831.46	711,073.74	32.268456	-103.784174

	easured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	459.00	459.00	RUSTLER			
	837.00	837.00	SALADO			
	2,743.00	2,743.00	CASTILE			
	4,239.00	4,239.00	DELAWARE			
	4,267.00	4,267.00	BELL CANYON			
	5,139.02	5,139.00	CHERRY CANYON			
	6,455.12	6,424.00	BRUSHY CANYON			
	8,128.11	8,040.00	BONE SPRING			
	9,229.63	9,104.00	BONE SPRING 1ST			
	9,908.76	9,760.00	BONE SPRING 2ND			
1	1,098.27	10,909.00	BONE SPRING 3RD			
1	1,580.70	11,375.00	WOLFCAMP			
1	1,734.96	11,524.00	WOLFCAMP A			

OXY Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	mpany:ENGINEERING DESIGNSiject:PRD NM DIRECTIONAL PLANS (NAD 1983)i:Iridium MDP1 28_21 Fed ComII:Iridium MDP1 28_21 Federal Com 44HIlbore:Wellbore #1sign:Permitting Plan		3) MD Refe North R	o-ordinate Reference: ference: erence: eference: Calculation Method:	Well Iridium MDP1 28_21 Federal Com 44H RKB=26.5' @ 3413.50ft RKB=26.5' @ 3413.50ft Grid Minimum Curvature	
Plan Annotations Meas Dep (fi	oth	Vertical Depth (ft)	Local Coord +N/-S (ft)	linates +E/-W (ft)	Comment	
5,7 11,9 12,9	42.00 91.85 75.62 77.01 22.05	5,042.00 5,783.32 11,756.47 12,415.50 12,382.50	0.00 -65.68 -1,142.78 -577.52 9,867.27	0.00 -72.16 -1,255.53 -1,390.79 -1,455.88	Build 2°/100' Hold 15° Tangent KOP, Build & Turn 10°/1 Landing Point TD at 23422.05' MD	100'

.



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Received by OCD: 12/16/2024 11:49:53 AM

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INCORPORATED
WELL NAME & NO.:	IRIDIUM MDP1 28-21 FEDERAL COM 44H
SURFACE HOLE FOOTAGE:	669'/S & 1567'/E
BOTTOM HOLE FOOTAGE	20'/S & 540'/E
LOCATION:	Section 28, T.23 S., R.31 E.
COUNTY:	Eddy County, New Mexico

COA

H2S	• Yes	O No	
Potash	O None	O Secretary	• R-111-P
Cave/Karst Potential	• Low	O Medium	O High
Cave/Karst Potential	Critical		
Variance	O None	Flex Hose	O Other
Wellhead	Conventional	Multibowl	© Both
Wellhead Variance	O Diverter		
Other	✓ 4 String	Capitan Reef	WIPP
Other	□ Fluid Filled	🗆 Pilot Hole	🗆 Open Annulus
Cementing	□ Contingency	EchoMeter	Primary Cement
	Cement Squeeze		Squeeze
Special Requirements	🗆 Water Disposal	COM	🗆 Unit
Special Requirements	□ Batch Sundry		
Special Requirements	Break Testing	☑ Offline	Casing
Variance		Cementing	Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

1. The **13-3/8** inch surface casing shall be set at approximately **518** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>24 hours in the Potash Area</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The **9-5/8** inch intermediate casing shall be set at approximately **4,338** feet. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. R111P salt protection string. Highly critical. If cement does not circulate see B.1.a, c-d above.
- In <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing salt string must come to surface.
- 3. The **7-5/8** inch intermediate casing shall be set at approximately **11,874** feet. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. **POST FRAC BRADENHEAD OK AS PER UPDATED KPLA BEST PRACTICES.** Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. **REVIEW BRADENHEAD VOLUME. EXCESS SHOULD BE 25% TO ACHIEVE TOPOUT.**

In <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing salt string must come to surface.

As per KPLA best practices, this bradenhead portion will be completed post frac. Pre-frac, the uncemented portion of the annulus will act as a relief valve either surface or into the Delaware group during frac operations.

Operator has proposed to pump down 7-5/8" X 9-5/8" annulus. <u>Operator must top</u> <u>out cement after the bradenhead squeeze and verify cement to surface. Operator</u> <u>can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8"</u> <u>casing to surface if confidence is lacking on the quality of the bradenhead squeeze</u> <u>cement job. Submit results to BLM.</u>

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

Bradenhead squeeze in the production interval is only as an edge case remediation measure and is NOT approved in this COA. If production cement job experiences losses and a bradenhead squeeze is needed for tie-back, BLM Engineering should be notified prior to job with volumes and planned wellbore schematic. CBL will be needed when this occurs.

4. The **5-1/2** inch production casing shall be set at approximately **23,421** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

• Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Annular which shall be tested to 3500 (70% Working Pressure) psi.
- 3. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on surface casing. Minimum working pressure of the blowout

Page 3 of 9

preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. Variance is approved to use a **5000 (5M)** Annular which shall be tested to **3500 (70% Working Pressure)** psi.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 43 CFR part 3170 Subpart 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

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

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.

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- Any well control event while drilling require notification to the BLM Petroleum Engineer (**575-706-2779**) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- 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 part 3170 Subpart 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

OK for surface and intermediate intervals. Notify the BLM prior to the commencement of any offline cementing procedure.

Casing Clearance:

Clearance OK in production overlap.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822

- Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

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- a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
- b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive

strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

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- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR part 3170
 Subpart 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever

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is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

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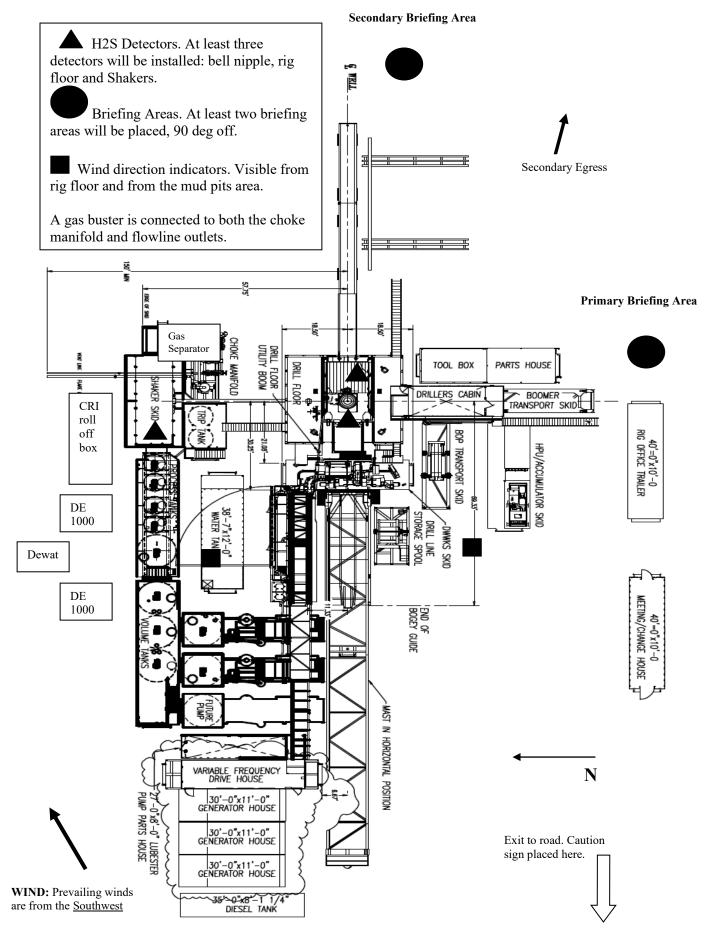


Permian Drilling Hydrogen Sulfide Drilling Operations Plan

Open drill site. No homes or buildings are near the proposed location.

1. Escape

Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the Southeast side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction, then a secondary egress route should be taken.





Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

<u>Scope</u>

This contingency plan establishes guidelines for the public, all company employees, and contract employees who's work activities may involve exposure to hydrogen sulfide (H2S) gas.

While drilling this well, it is possible to encounter H2S bearing formations. At all times, the first barrier to control H2S emissions will be the drilling fluid, which will have a density high enough to control influx.

Objective

- 1. Provide an immediate and predetermined response plan to any condition when H2S is detected. All H2S detections in excess of 10 parts per million (ppm) concentration are considered an Emergency.
- 2. Prevent any and all accidents, and prevent the uncontrolled release of hydrogen sulfide into the atmosphere.
- 3. Provide proper evacuation procedures to cope with emergencies.
- 4. Provide immediate and adequate medical attention should an injury occur.

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Discussion

Implementation:	This plan with all details is to be fully implemented before drilling to <u>commence</u> .
Emergency response Procedure:	This section outlines the conditions and denotes steps to be taken in the event of an emergency.
Emergency equipment Procedure:	This section outlines the safety and emergency equipment that will be required for the drilling of this well.
Training provisions:	This section outlines the training provisions that must be adhered to prior to drilling.
Drilling emergency call lists:	Included are the telephone numbers of all persons to be contacted should an emergency exist.
Briefing:	This section deals with the briefing of all people involved in the drilling operation.
Public safety:	Public safety personnel will be made aware of any potential evacuation and any additional support needed.
Check lists:	Status check lists and procedural check lists have been included to insure adherence to the plan.
General information:	A general information section has been included to supply support information.

Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on the well:

- 1. The hazards and characteristics of H2S.
- 2. Proper use and maintenance of personal protective equipment and life support systems.
- 3. H2S detection.
- 4. Proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures and prevailing winds.
- 5. Proper techniques for first aid and rescue procedures.
- 6. Physical effects of hydrogen sulfide on the human body.
- 7. Toxicity of hydrogen sulfide and sulfur dioxide.
- 8. Use of SCBA and supplied air equipment.
- 9. First aid and artificial respiration.
- 10. Emergency rescue.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H2S on metal components. If high tensile strength tubular is to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling a well, blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan.

H2S training refresher must have been taken within one year prior to drilling the well. Specifics on the well to be drilled will be discussed during the pre-spud meeting. H2S and well control (choke) drills will be performed while drilling the well, at least on a weekly basis. This plan shall be available in the well site. All personnel will be required to carry the documentation proving that the H2S training has been taken.

Service company and visiting personnel

- A. Each service company that will be on this well will be notified if the zone contains H2S.
- B. Each service company must provide for the training and equipment of their employees before they arrive at the well site.
- C. Each service company will be expected to attend a well site

Emergency Equipment Requirements

1. <u>Well control equipment</u>

The well shall have hydraulic BOP equipment for the anticipated pressures. Equipment is to be tested on installation and follow Oxy Well Control standard, as well as 43 CFR part 3170 Subpart 3172.

Special control equipment:

- A. Hydraulic BOP equipment with remote control on ground. Remotely operated choke.
- B. Rotating head
- C. Gas buster equipment shall be installed before drilling out of surface pipe.

2. <u>Protective equipment for personnel</u>

- A. Four (4) 30-minute positive pressure air packs (2 at each briefing area) on location.
- B. Adequate fire extinguishers shall be located at strategic locations.
- C. Radio / cell telephone communication will be available at the rig.
 - Rig floor and trailers.
 - Vehicle.

3. <u>Hydrogen sulfide sensors and alarms</u>

- A. H2S sensor with alarms will be located on the rig floor, at the bell nipple, and at the flow line. These monitors will be set to alarm at 10 ppm with strobe light, and audible alarm.
- B. Hand operated detectors with tubes.
- C. H2S monitor tester (to be provided by contract Safety Company.)
- D. There shall be one combustible gas detector on location at all times.

4. <u>Visual Warning Systems</u>

A. One sign located at each location entrance with the following language:

Caution – potential poison gas Hydrogen sulfide No admittance without authorization

Wind sock – *wind streamers*:

- A. One 36" (in length) wind sock located at protection center, at height visible from rig floor.
- B. One 36" (in length) wind sock located at height visible from pit areas.

Condition flags

A. One each condition flag to be displayed to denote conditions.

green – normal conditions yellow – potential danger red – danger, H2S present

B. Condition flag shall be posted at each location sign entrance.

5. <u>Mud Program</u>

The mud program is designed to minimize the risk of having H2S and other formation fluids at surface. Proper mud weight and safe drilling practices will be applied. H2S scavengers will be used to minimize the hazards while drilling. Below is a summary of the drilling program.

Mud inspection devices:

Garrett gas train or hatch tester for inspection of sulfide concentration in mud system.

6. <u>Metallurgy</u>

- A. Drill string, casing, tubing, wellhead, blowout preventers, drilling spools or adapters, kill lines, choke manifold, lines and valves shall be suitable for the H2S service.
- B. All the elastomers, packing, seals and ring gaskets shall be suitable for H2S service.

7. <u>Well Testing</u>

No drill stem test will be performed on this well.

8. <u>Evacuation plan</u>

Evacuation routes should be established prior to well spud for each well and discussed with all rig personnel.

- 9. <u>Designated area</u>
 - A. Parking and visitor area: all vehicles are to be parked at a predetermined safe distance from the wellhead.
 - B. There will be a designated smoking area.
 - C. Two briefing areas on either side of the location at the maximum allowable distance from the well bore so they offset prevailing winds perpendicularly, or at a 45-degree angle if wind direction tends to shift in the area.

Emergency procedures

- A. In the event of any evidence of H2S level above 10 ppm, take the following steps:
 - 1. The Driller will pick up off bottom, shut down the pumps, slow down the pipe rotation.
 - 2. Secure and don escape breathing equipment, report to the upwind designated safe briefing / muster area.
 - 3. All personnel on location will be accounted for and emergency search should begin for any missing, the Buddy System will be implemented.
 - 4. Order non-essential personnel to leave the well site, order all essential personnel out of the danger zone and upwind to the nearest designated safe briefing / muster area.
 - 5. Entrance to the location will be secured to a higher level than our usual "Meet and Greet" requirement, and the proper condition flag will be displayed at the entrance to the location.
 - 6. Take steps to determine if the H2S level can be corrected or suppressed and, if so, proceed as required.
- B. If uncontrollable conditions occur:
 - 1. Take steps to protect and/or remove any public in the down-wind area from the rig – partial evacuation and isolation. Notify necessary public safety personnel and appropriate regulatory entities (i.e. BLM) of the situation.

- 2. Remove all personnel to the nearest upwind designated safe briefing / muster area or off location.
- 3. Notify public safety personnel of safe briefing / muster area.
- 4. An assigned crew member will blockade the entrance to the location. No unauthorized personnel will be allowed entry to the location.
- 5. Proceed with best plan (at the time) to regain control of the well. Maintain tight security and safety procedures.
- C. Responsibility:
 - 1. Designated personnel.
 - a. Shall be responsible for the total implementation of this plan.
 - b. Shall be in complete command during any emergency.
 - c. Shall designate a back-up.

All personnel:	1. 2. 3. 4.	On alarm, don escape unit and report to the nearest upwind designated safe briefing / muster area upw Check status of personnel (buddy system). Secure breathing equipment. Await orders from supervisor.
Drill site manager:	1.	Don escape unit if necessary and report to nearest upwind designated safe briefing / muster area.
	2.	Coordinate preparations of individuals to return to point of release with tool pusher and driller (using the buddy system).
	3.	Determine H2S concentrations.
	4.	Assess situation and take control measures.
Tool pusher:	1.	Don escape unit Report to up nearest upwind designated safe briefing / muster area.
	2.	Coordinate preparation of individuals to return to point of release with tool pusher drill site manager
	2	(using the buddy system).
	3.	Determine H2S concentration.
	4.	Assess situation and take control measures.
Driller:	1.	Don escape unit, shut down pumps, continue

		rotating DP.
	2.	Check monitor for point of release.
	3.	Report to nearest upwind designated safe briefing / muster area.
	4.	Check status of personnel (in an attempt to rescue, use the buddy system).
	5.	Assigns least essential person to notify Drill Site Manager and tool pusher by quickest means in case of their absence.
	6.	Assumes the responsibilities of the Drill Site Manager and tool pusher until they arrive should they be absent.
Derrick man Floor man #1 Floor man #2	1.	Will remain in briefing / muster area until instructed by supervisor.
Mud engineer:	1.	Report to nearest upwind designated safe briefing / muster area.
	2.	When instructed, begin check of mud for ph and H2S level. (Garett gas train.)
Safety personnel:	1.	Mask up and check status of all personnel and secure operations as instructed by drill site manager.

<u>Taking a kick</u>

When taking a kick during an H2S emergency, all personnel will follow standard Well control procedures after reporting to briefing area and masking up.

Open-hole logging

All unnecessary personnel off floor. Drill Site Manager and safety personnel should monitor condition, advise status and determine need for use of air equipment.

Running casing or plugging

Following the same "tripping" procedure as above. Drill Site Manager and safety personnel should determine if all personnel have access to protective equipment.

Ignition procedures

The decision to ignite the well is the responsibility of the operator (Oxy Drilling Management). The decision should be made only as a last resort and in a situation where it is clear that:

- 1. Human life and property are endangered.
- 2. There is no hope controlling the blowout under the prevailing conditions at the well.

Instructions for igniting the well

- 1. Two people are required for the actual igniting operation. They must wear self-contained breathing units and have a safety rope attached. One man (tool pusher or safety engineer) will check the atmosphere for explosive gases with the gas monitor. The other man is responsible for igniting the well.
- 2. Primary method to ignite: 25 mm flare gun with range of approximately 500 feet.
- 3. Ignite upwind and do not approach any closer than is warranted.
- 4. Select the ignition site best for protection, and which offers an easy escape route.
- 5. Before firing, check for presence of combustible gas.
- 6. After lighting, continue emergency action and procedure as before.
- 7. All unassigned personnel will remain in briefing area until instructed by supervisor or directed by the Drill Site Manager.

<u>Remember</u>: After well is ignited, burning hydrogen sulfide will convert to sulfur dioxide, which is also highly toxic. **<u>Do not assume the area is safe after the well is ignited.</u>**

Status check list

Note: All items on this list must be completed before drilling to production casing point.

- 1. H2S sign at location entrance.
- 2. Two (2) wind socks located as required.
- 3. Four (4) 30-minute positive pressure air packs (2 at each Briefing area) on location for all rig personnel and mud loggers.
- 4. Air packs inspected and ready for use.
- 5. Cascade system and hose line hook-up as needed.
- 6. Cascade system for refilling air bottles as needed.
- 7. Condition flag on location and ready for use.
- 8. H2S detection system hooked up and tested.
- 9. H2S alarm system hooked up and tested.
- 10. Hand operated H2S detector with tubes on location.
- 11. 1-100' length of nylon rope on location.
- 12. All rig crew and supervisors trained as required.
- 13. All outside service contractors advised of potential H2S hazard on well.
- 14. No smoking sign posted and a designated smoking area identified.
- 15. Calibration of all H2S equipment shall be noted on the IADC report.

Checked by: _____ Date:

Procedural check list during H2S events

Perform each tour:

- 1. Check fire extinguishers to see that they have the proper charge.
- 2. Check breathing equipment to ensure that it in proper working order.
- 3. Make sure all the H2S detection system is operative.

Perform each week:

- 1. Check each piece of breathing equipment to make sure that demand or forced air regulator is working. This requires that the bottle be opened and the mask assembly be put on tight enough so that when you inhale, you receive air or feel air flow.
- 2. BOP skills (well control drills).
- 3. Check supply pressure on BOP accumulator stand by source.
- 4. Check breathing equipment mask assembly to see that straps are loosened and turned back, ready to put on.
- 5. Check pressure on breathing equipment air bottles to make sure they are charged to full volume. (Air quality checked for proper air grade "D" before bringing to location)
- 6. Confirm pressure on all supply air bottles.
- 7. Perform breathing equipment drills with on-site personnel.
- 8. Check the following supplies for availability.
 - A. Emergency telephone list.
 - B. Hand operated H2S detectors and tubes.

General evacuation plan

- 1. When the company approved supervisor (Drill Site Manager, consultant, rig pusher, or driller) determines the H2S gas cannot be limited to the well location and the public will be involved, he will activate the evacuation plan.
- 2. Drill Site Manager or designee will notify local government agency that a hazardous condition exists and evacuation needs to be implemented.
- 3. Company or contractor safety personnel that have been trained in the use of H2S detection equipment and self-contained breathing equipment will monitor H2S concentrations, wind directions, and area of exposure. They will delineate the outer perimeter of the hazardous gas area. Extension to the evacuation area will be determined from information gathered.
- 4. Law enforcement personnel (state police, police dept., fire dept., and sheriff's dept.) Will be called to aid in setting up and maintaining road blocks. Also, they will aid in evacuation of the public if necessary.
- 5. After the discharge of gas has been controlled, company safety personnel will determine when the area is safe for re-entry.

<u>Important:</u> Law enforcement personnel will not be asked to come into a contaminated area. Their assistance will be limited to uncontaminated areas. Constant radio contact will be maintained with them.

Emergency actions

Well blowout – if emergency

- 1. Evacuate all personnel to "Safe Briefing / Muster Areas" or off location if needed.
- 2. If sour gas evacuate rig personnel.
- 3. If sour gas evacuate public within 3000 ft radius of exposure.
- 4. Don SCBA and shut well in if possible using the buddy system.
- 5. Notify Drilling Superintendent and call 911 for emergency help (fire dept and ambulance) if needed.
- 6. Implement the Blowout Contingency Plan, and Drilling Emergency Action Plan.
- 6. Give first aid as needed.

Person down location/facility

- 1. If immediately possible, contact 911. Give location and wait for confirmation.
- 2. Don SCBA and perform rescue operation using buddy system.

Toxic effects of hydrogen sulfide

Hydrogen sulfide is extremely toxic. The acceptable ceiling concentration for eight-hour exposure is 10 ppm, which is .001% by volume. Hydrogen sulfide is heavier than air (specific gravity -1.192) and colorless. It forms an explosive mixture with air between 4.3 and 46.0 percent by volume. Hydrogen sulfide is almost as toxic as hydrogen cyanide and is between five and six times more toxic than carbon monoxide. Toxicity data for hydrogen sulfide and various other gases are compared in table i. Physical effects at various hydrogen sulfide exposure levels are shown in table ii.

Common name	Chemical formula	Specific gravity (sc=1)	Threshold limit (1)	Hazardous limit (2)	Lethal concentration (3)
Hydrogen Cyanide	Hcn	0.94	10 ppm	150 ppm/hr	300 ppm
Hydrogen Sulfide	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfur Dioxide	So2	2.21	5 ppm	-	1000 ppm
Chlorine	C12	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	Co2	1.52	5000 ppm	5%	10%
Methane	Ch4	0.55	90,000 ppm	Combustib	le above 5% in air

Table i Toxicity of various gases

1) threshold limit – concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects.

- 2) hazardous limit concentration that will cause death with short-term exposure.
- 3) lethal concentration concentration that will cause death with short-term exposure.

Toxic effects of hydrogen sulfide

Table ii Physical effects of hydrogen sulfide

		Concentration	Physical effects
Percent (%)	Ppm	Grains	
	-	100 std. Ft3*	
0.001	<10	00.65	Obvious and unpleasant odor.

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0.002	10	01.30	Safe for 8 hours of exposure.
0.010	100	06.48	Kill smell in $3 - 15$ minutes. May sting eyes and throat.
0.020	200	12.96	Kills smell shortly; stings eyes and throat.
0.050	500	32.96	Dizziness; breathing ceases in a few minutes; needs prompt artificial respiration.
0.070	700	45.36	Unconscious quickly; death will result if not rescued promptly.
0.100	1000	64.30	Unconscious at once; followed by death within minutes.

*at 15.00 psia and 60'f.

Use of self-contained breathing equipment (SCBA)

- 1. Written procedures shall be prepared covering safe use of SCBA's in dangerous atmosphere, which might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available SCBA.
- 2 SCBA's shall be inspected frequently at random to insure that they are properly used, cleaned, and maintained.
- 3. Anyone who may use the SCBA's shall be trained in how to insure proper facepiece to face seal. They shall wear SCBA's in normal air and then wear them in a test atmosphere. (note: such items as facial hair {beard or sideburns} and eyeglasses will not allow proper seal.) Anyone that may be reasonably expected to wear SCBA's should have these items removed before entering a toxic atmosphere. A special mask must be obtained for anyone who must wear eyeglasses or contact lenses.
- 4. Maintenance and care of SCBA's:
 - a. A program for maintenance and care of SCBA's shall include the following:
 - 1. Inspection for defects, including leak checks.
 - 2. Cleaning and disinfecting.
 - 3. Repair.
 - 4. Storage.
 - b. Inspection, self-contained breathing apparatus for emergency use shall be inspected monthly.
 - 1. Fully charged cylinders.
 - 2. Regulator and warning device operation.
 - 3. Condition of face piece and connections.
 - 4. Rubber parts shall be maintained to keep them pliable and prevent deterioration.
 - c. Routinely used SCBA's shall be collected, cleaned and disinfected as frequently as necessary to insure proper protection is provided.
- 5. Persons assigned tasks that requires use of self-contained breathing equipment shall be certified physically fit (medically cleared) for breathing equipment usage at least annually.
- 6. SCBA's should be worn when:
 - A. Any employee works near the top or on top of any tank unless test reveals less than 10 ppm of H2S.

- B. When breaking out any line where H2S can reasonably be expected.
- C. When sampling air in areas to determine if toxic concentrations of H2S exists.
- D. When working in areas where over 10 ppm H2S has been detected.
- E. At any time there is a doubt as to the H2S level in the area to be entered.

<u>Rescue</u> <u>First aid for H2S poisoning</u>

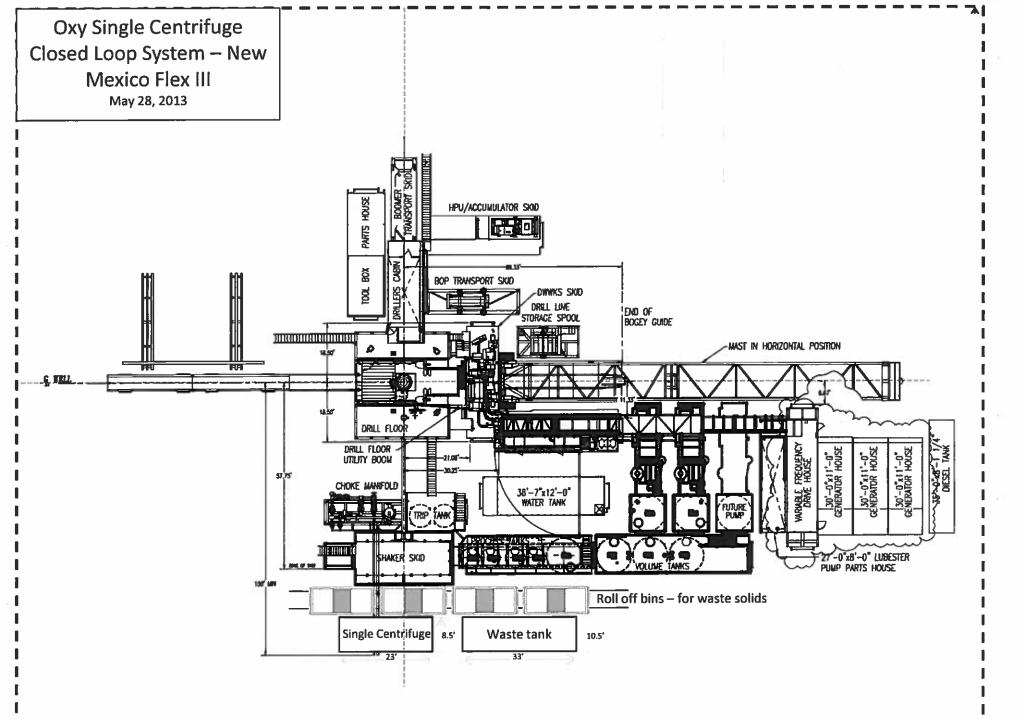
Do not panic!

Remain calm – think!

- 1. Don SCBA breathing equipment.
- 2. Remove victim(s) utilizing buddy system to fresh air as quickly as possible. (go up-wind from source or at right angle to the wind. Not down wind.)
- 3. Briefly apply chest pressure arm lift method of artificial respiration to clean the victim's lungs and to avoid inhaling any toxic gas directly from the victim's lungs.
- 4. Provide for prompt transportation to the hospital, and continue giving artificial respiration if needed.
- 5. Hospital(s) or medical facilities need to be informed, before-hand, of the possibility of H2S gas poisoning no matter how remote the possibility is.
- 6. Notify emergency room personnel that the victim(s) has been exposed to H2S gas.

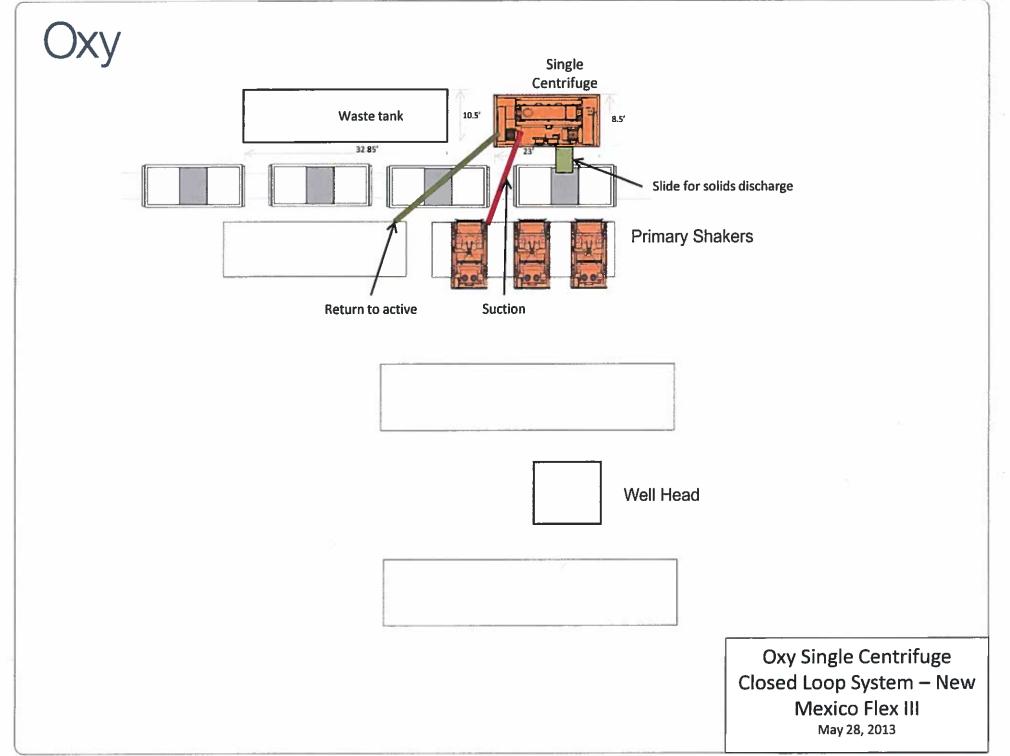
Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration.

Revised CM 6/27/2012

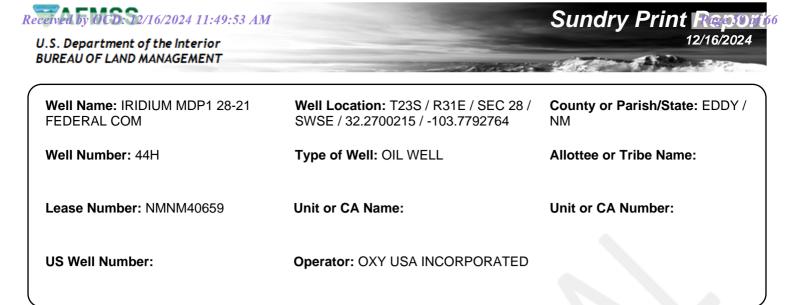


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Received by OCD: 12/16/2024 11:49:53 AM



Released to Imaging: 1/10/2025 2:31:05 PM



Notice of Intent

Sundry ID: 2812449

Type of Submission: Notice of Intent

Date Sundry Submitted: 09/18/2024

Date proposed operation will begin: 09/18/2024

Type of Action: APD Change Time Sundry Submitted: 09:24

Procedure Description: OXY USA INC. REQUESTS TO CORRECT THE SHL AND BHL FOR THE SUBJECT APD WHICH WAS BLM APPROVED 12/15/2023. THE C102 PLAT THAT WAS SUBMITTED WITH THE AFMSS APPLICATION WAS FOR A DIFFERENT WELL. THE C102 PLAT FOR IRIDIUM 47H WAS INCORRECTLY SUBMITTED AS PART OF THE APD APPLICATION FOR THE SUBJECT WELL (IRIDIUM 44H). THIS SUNDRY IS BEING SUBMITTED TO CORRECT BOTH THE SHL AND BHL. ATTACHED IS THE CORRECT C102 PLAT AND APD CHANGE SUNDRY LIST. APPROVED SHL: 669 FSL X 1567 FEL APPROVED BHL: 20 FNL X 540 FEL CORRECTED SHL: 670 FSL X 1687 FEL CORRECTED BHL: 20 FNL X 2200 FWL

NOI Attachments

Procedure Description

IRIDIUM_MDP1_28_21_FED_COM_44H_CORRECTEDC102_9.18.24_20240918091846.pdf

Iridium_MDP1_28_21_Federal_Com_44H_OXY_APD_CHANGE_SUNDRY_LIST_9.17.24_20240918091843.p df

R	eceived by OCD: 12/16/2024 11:49:53 AM Well Name: IRIDIUM MDP1 28-21 FEDERAL COM	Well Location: T23S / R31E / SEC 28 / SWSE / 32.2700215 / -103.7792764	County or Parish/State: EBDY of 60
	Well Number: 44H	Type of Well: OIL WELL	Allottee or Tribe Name:
	Lease Number: NMNM40659	Unit or CA Name:	Unit or CA Number:
	US Well Number:	Operator: OXY USA INCORPORATED	

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: RONI MATHEW
Name: OXY USA INCORPORATED
Title: REGULATORY SPECIALIST
Street Address: 5 Greenway Plaza, Suite 110
City: Houston State: TX
Phone: (713) 215-7827

Signed on: SEP 18, 2024 09:19 AM

Email address: RONI_MATHEW@OXY.COM

Field

Representative Name: JIM WILSONStreet Address: 6001 DEAUVILLE BLVD.City: MIDLANDState: TXPhone: (575)631-2442Email address: JIM_WILSON@OXY.COM

Zip: 79710

BLM Point of Contact

BLM POC Name: KEITH P IMMATTY BLM POC Phone: 5759884722 Disposition: Approved Signature: KEITH IMMATTY

BLM POC Title: ENGINEER

BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition Date: 12/15/2024

Received by OCD: 12/16/2024 11:49:53 AM

eceived by OCD. 12/10/2024	11.47.55 /11/1	Tuge of of
	UNITED STATES PARTMENT OF THE INTERIOR REAU OF LAND MANAGEMENT	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021 5. Lease Serial No.
SUNDRY I Do not use this	NOTICES AND REPORTS ON WELLS form for proposals to drill or to re-enter an Use Form 3160-3 (APD) for such proposals.	6. If Indian, Allottee or Tribe Name
SUBMIT IN	TRIPLICATE - Other instructions on page 2	7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well	Well Other	8. Well Name and No.
2. Name of Operator		9. API Well No. 30-015-55971
3a. Address	3b. Phone No. <i>(include area code)</i>	10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T.,	R.,M., or Survey Description)	11. Country or Parish, State
12. CHI	ECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE C	DF NOTICE, REPORT OR OTHER DATA
TYPE OF SUBMISSION	ТҮРЕ	C OF ACTION
Notice of Intent	Acidize Deepen [Alter Casing Hydraulic Fracturing]	Production (Start/Resume) Water Shut-Off Reclamation Well Integrity
Subsequent Report	Casing Repair New Construction Change Plans Plug and Abandon	Recomplete Other Temporarily Abandon
Final Abandonment Notice	Convert to Injection Plug Back	Water Disposal
the proposal is to deepen direction the Bond under which the work wi completion of the involved operati	ally or recomplete horizontally, give subsurface locations and mea ill be perfonned or provide the Bond No. on file with BLM/BIA. F ions. If the operation results in a multiple completion or recomplet	tarting date of any proposed work and approximate duration thereof. If asured and true vertical depths of all pertinent markers and zones. Attach Required subsequent reports must be filed within 30 days following tion in a new interval, a Form 3160-4 must be filed once testing has been tion, have been completed and the operator has detennined that the site

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)		
	Title	
Signature	Date	
THE SPACE FOR FEDE	RAL OR STATE O	OFICE USE
Approved by		
	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant certify that the applicant holds legal or equitable title to those rights in the subject lea which would entitle the applicant to conduct operations thereon.		
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any any false, fictitious or fraudulent statements or representations as to any matter within		villfully to make to any department or agency of the United States

(Instructions on page 2)

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.

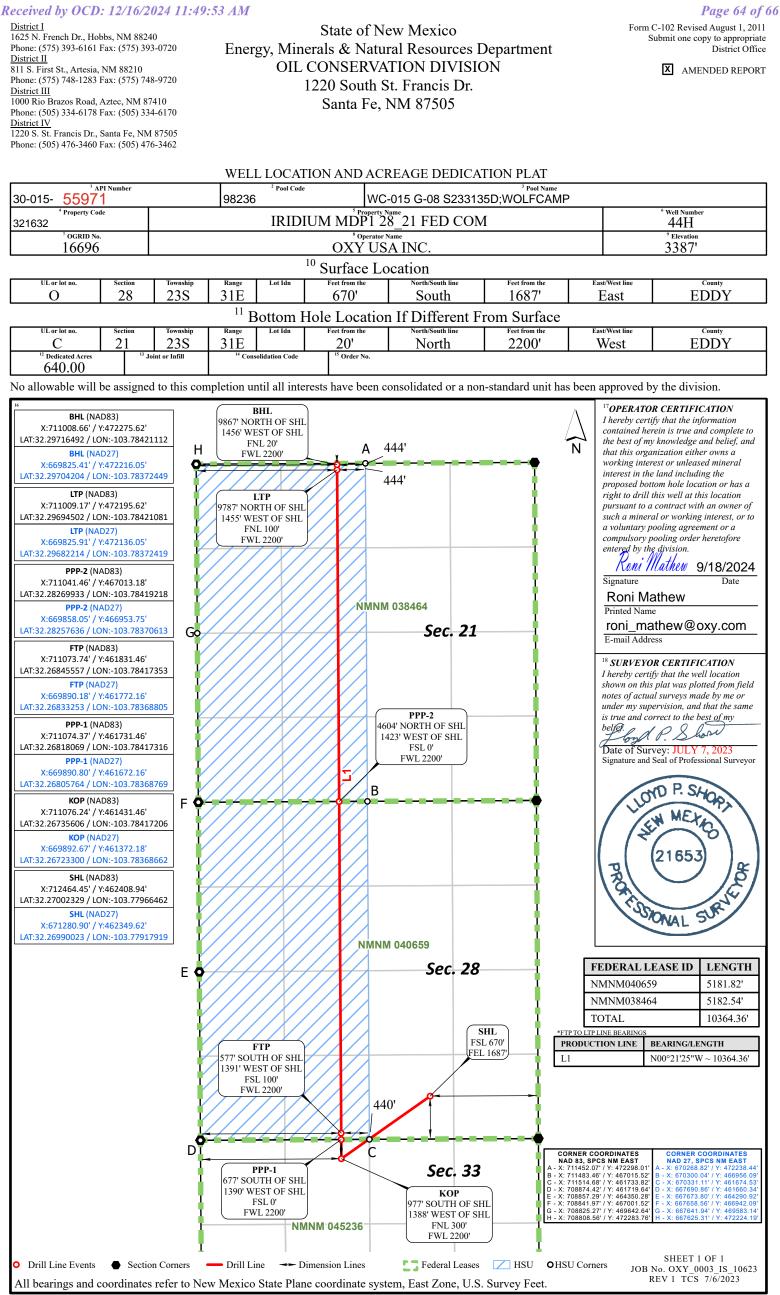
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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 of this form to U.S. Department of the Interior, Bureau of Land 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: SWSE / 669 FSL / 1567 FEL / TWSP: 23S / RANGE: 31E / SECTION: 28 / LAT: 32.2700215 / LONG: -103.7792764 (TVD: 0 feet, MD: 0 feet) PPP: SESE / 3 FNL / 540 FEL / TWSP: 23S / RANGE: 31E / SECTION: 21 / LAT: 32.2827003 / LONG: -103.7759608 (TVD: 12399 feet, MD: 18172 feet) PPP: SESE / 100 FSL / 540 FEL / TWSP: 23S / RANGE: 31E / SECTION: 28 / LAT: 32.268457 / LONG: -103.7759373 (TVD: 12415 feet, MD: 12977 feet) BHL: NENE / 20 FNL / 540 FEL / TWSP: 23S / RANGE: 31E / SECTION: 21 / LAT: 32.2971665 / LONG: -103.7754815 (TVD: 12382 feet, MD: 23422 feet)



Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977581 Convergence Angle: 0.27195833° Released to Imaging: 1/10/2025 2:31:05 PM

OXY APD CHANGE SUNDRY LIST

DATE	9/18/2024
WELL NAME	Iridium MDP1 28-21 Federal Com 44H
API NUMBER	PENDING

ITEM	PREVIOUS	UPDATE
NAME	NA	
NSL	NA	
SHL	669 FSL X 1567 FEL	670 FSL X 1687 FEL
PAD	NA	
BHL	20 FNL X 540 FEL	20 FNL X 2200 FWL
HSU SIZE, ACRES	NA	
POOL	NA	
TARGET FORMATION	NA	
TVD	NA	
SURFACE CASING	NA	
INTERMEDIATE CASING	NA	
INTERMEDIATE 2 CASING	NA	
PRODUCTION CASING	NA	
LINER OR TIE BACK	NA	
CEMENT	NA	
FACILITIES	NA	
OTHER	NA	

OTHER COMMENTS

SHL & BHL CHANGE FROM ORIGINAL APD APPROVAL. THE SUBJECT APD WAS BLM APPROVED ON 12/15/2023 BUT THE C102 PLAT THAT WAS SUBMITTED IN THE AFMSS APPLICATION WAS FOR A DIFFERENT WELL. THE C102 PLAT THAT WAS INCLUDED WITH THE APPLICATION HAD THE SHL/BHL FOR THE IRIDIUM 47H WELL. THIS SUNDRY IS BEING SUBMITTED TO CORRECT BOTH THE SHL & BHL

ATTACHEMENTS

CORRECTED C102 ATTACHED.

Sante Fe Main Office Phone: (505) 476-3441

General Information 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

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Action 412239

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	412239
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

CONDITIONS		
Created By	Condition	Condition Date
ronimathew	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/16/2024
ronimathew	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/16/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	1/10/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/10/2025
ward.rikala	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.	1/10/2025
ward.rikala	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.	1/10/2025
ward.rikala	Operator must comply with all of the R-111-Q requirements.	1/10/2025