Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5 Lease Serial No. NMNM45236 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. ✓ DRILL REENTER 1a. Type of work: NMNM139924/STERLING SILVER 1b. Type of Well: ✓ Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing ✓ Single Zone Multiple Zone STERLING SILVER MDP1 33-4 FED COM 71H 9. API Well No. 30-015-56057 2. Name of Operator **OXY USA INCORPORATED** 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory INGLE WELLS/BONE SPRING P.O. BOX 1002, TUPMAN, CA 93276-1002 (661) 763-6046 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 33/T23S/R31E/NMP At surface NENW / 105 FNL / 1854 FWL / LAT 32.2678918 / LONG -103.7852927 At proposed prod. zone SWSW / 20 FSL / 440 FWL / LAT 32.2391692 / LONG -103.7898965 12. County or Parish 14. Distance in miles and direction from nearest town or post office* 13 State **EDDY** NM 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 105 feet location to nearest 640.0 property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 30 feet 10556 feet / 21498 feet FED: ESB000226 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3380 feet 07/01/2024 45 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date LESLIE REEVES / Ph: (713) 366-5716 (Electronic Submission) 09/13/2023 Title Advisor Regulatory Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 12/11/2024 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

APPROVED WITH CONDITIONS Released to Imaging: 1/25/2025 9:29:15 AM Approval Date: 12/11/2024

(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: 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 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., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: NENW / 105 FNL / 1854 FWL / TWSP: 23S / RANGE: 31E / SECTION: 33 / LAT: 32.2678918 / LONG: -103.7852927 (TVD: 0 feet, MD: 0 feet)
PPP: NWNW / 100 FNL / 440 FWL / TWSP: 23S / RANGE: 31E / SECTION: 33 / LAT: 32.2679044 / LONG: -103.7898668 (TVD: 10486 feet, MD: 11043 feet)
PPP: LOT 4 / 0 FNL / 430 FWL / TWSP: 24S / RANGE: 31E / SECTION: 4 / LAT: 32.2536605 / LONG: -103.7898813 (TVD: 10521 feet, MD: 16225 feet)
BHL: SWSW / 20 FSL / 440 FWL / TWSP: 24S / RANGE: 31E / SECTION: 4 / LAT: 32.2391692 / LONG: -103.7898965 (TVD: 10556 feet, MD: 21498 feet)

BLM Point of Contact

Name: TENILLE C MOLINA Title: Land Law Examiner Phone: (575) 234-2224

Email: TCMOLINA@BLM.GOV

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.



		<u>2/31/2024 8.</u>	10:43 AM		CALL CAT		M'					Page 5	
<u>C-1</u>	<u>02</u>		Fn	State of New Mexico Energy, Minerals & Natural Resources Department						Revised July 9, 202			
Suhm	it Electronica	llv	Lii	OIL CONSERVATION DIVISION									
Via OCD Permitting				912	001(0211)					Submitta	☑ Initial Su	bmittal	
										Type:	☐ Amended	l Report	
											☐ As Drille	ed	
					WELL LOCA	ATIC	N INFOR	MATION					
	lumber 5- <mark>56057</mark>	7	Pool Code 33740			Poo	ol Name	NGLE	WEL	LS;	BONES	SPRING	
Prope	rty Code 322740		Property N	ame STE	ERLING S	IL\	/ER M	IDP1 3	3_4 FE	D COI	Mell Number 71H	er	
OGRI 1669			Operator N		Y USA	. 11	NC.				Ground Lev 3380'	el Elevation	
Surfac	ce Owner: 🗆	State ☐ Fee ☐	Tribal 🗹 Fed	deral			Mineral	Owner: 🗆 S	State □ Fee	🗆 Tribal 🗷	Federal		
					Su	rface	Location						
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from		Latitude		Longitude	County	
C	33	23S	31E		105' FN	۱L	1854	' FWL	32.2678	39182 -	103.78529272	EDDY	
		<u>l</u>		1	Botto	m H	ole Locatio	n	I	L.		I	
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from	E/W	Latitude		Longitude	County	
M	4	24S	31E		20' FS	L	440'	FWL	32.2391	6923 -	103.78989651	EDDY	
		I	1	1			I			I			
	ated Acres	Infill or Def	ining Well	Defining	g Well API		Overlapp	ing Spacing	Unit (Y/N)	Consolida	ation Code		
640	.56	INFILL		30-01	5-45390		NO						
Order	Numbers.						Well setb	acks are und	ler Common (Ownership:	: □Yes □No		
					Kick	Off l	Point (KOl	?)					
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from		Latitude		Longitude	County	
M	28	23S	31E		300' FS	SL	440'	FWL	32.2690	00397 -	103.78986858	EDDY	
				1	First	Take	Point (FT	P)		I		<u> </u>	
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from	E/W	Latitude		Longitude	County	
D	33	23S	31E		100' FN	۱L	440'	FWL	32.2679	90445 -	103.78986681	EDDY	
		I	<u> </u>	1	Last	Take	Point (LT	P)		II.			
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from	E/W	Latitude		Longitude	County	
M	4	24S	31E		100' FS	SL	440'	FWL	32.2393	38914 -	103.78989580	EDDY	
		1	1										
Unitiz	ed Area or A	rea of Uniform	Interest	Spacing	Unit Type 🗹 Ho	rizon	tal 🗆 Verti	cal	Groun 3380	nd Floor El	evation:		
				•					1				
OPER	ATOR CER	TIFICATIONS				S	SURVEYO:	R CERTIFIC	CATIONS				
my kno organi includi locatio interes	wledge and be zation either ov ing the propose n pursuant to a	lief, and, if the we wns a working inte d bottom hole locd a contract with an tary pooling agree	ll is a vertical or rrest or unleased ation or has a rig owner of a work	directional v mineral inte ght to drill thi ing interest o	rest in the land	s					the same is true an 18 SURVEYOR CER I hereby certify that to shown on this plat we notes of actual survey under my supervision is true and correct to	he well location us plotted from field ws made by me or u, and that the same the best of my	
		ntal well, I further e lessee or owner o			has received the sed mineral interes	t					Date of Survey: JU	Shori JLY 10, 2023	

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.

Certificate Number

21653

Signature and Seal of Professional Surveyor

Date of Survey

July 10, 2023

TISTONAL SURVEY

sara_guthrie@oxy.com

Signature

Printed Name

Email Address

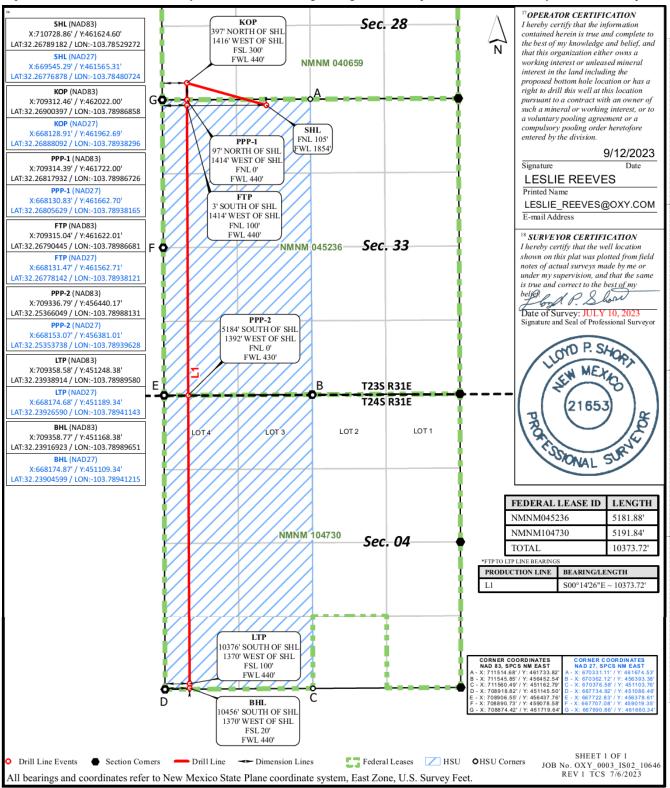
Sara Guthrie

in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

12/19/2024

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.



Distances/areas relative to NAD 83 Combined Scale Factor: 0.99978068 Convergence Angle: 0.32751111

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Manag	gement Plan m	ust be submitted w	ith each Applicat	tion for Permit to I	Orill (APD) for a	new or	recompleted well.
			1 – Plan D ffective May 25,				
I. Operator: OXY US	A INC.		OGRID: <u>16</u>	6696	Date:	1 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 s					wells proposed to	o be dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D		
SEE ATTACHED							
IV. Central Delivery P V. Anticipated Schedul proposed to be recomple	le: Provide the	following informa	tion for each nev	v or recompleted w			. , , , ,
Well Name	API	Spud Date	TD Reached Date	Completion Commencement			First Production Date
SEE ATTACHED							
VI. Separation Equipm VII. Operational Prac Subsection A through F	tices: ☑ Attac	h a complete descr		-		-	
VIII. Best Managemer during active and planne			te description of	Operator's best n	nanagement prac	tices to	minimize venting

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. \square 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 \square will \square will not have capacity to gather 100% of the anticipate	ed natural gas
production volume from the well prior to the date of first production.	

XIII. Line P	ressure. (Operator [□ does □ d	does not a	anticipate	that its ex	kisting we	ell(s) com	nected to	the same	segment	, or por	tion, c	of the
natural gas ga	athering s	ystem(s)	lescribed al	bove will	continue	to meet a	nticipate	d increase	s in line	pressure	caused by	y the ne	w wel	ll(s).

		· •	1 .		1	•	1		1.
1 1	Affach (Inerator's	nlan to	manage	nroduction	in resnonce	to the	increased	line pressure

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information of the informa	nation 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 s	pecific information
for which confidentiality is asserted and the basis for such assertion.	

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Section 3 - Certifications Effective May 25, 2021

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

Departor 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 ☐ 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.

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.

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:

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

Section 4 - Notices

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

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.

Signature: Romi Mathew
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:

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	O-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	O-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

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).

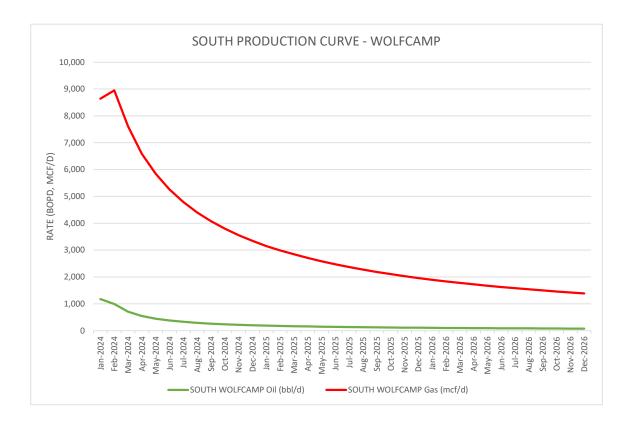
Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

VIII. Best Management Practices

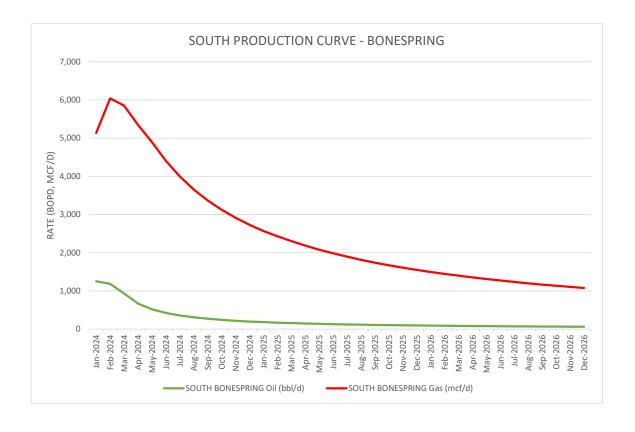
Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- •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

	SOUTH WOLFCAMP			
	Oil (bbl/d)	Gas (mcf/d)		
Jan-2024	1,178	8,636		
Feb-2024	995	8,951		
Mar-2024	706	7,614		
Apr-2024	544	6,588		
May-2024	445	5,841		
Jun-2024	377	5,261		
Jul-2024	328	4,794		
Aug-2024	291	4,402		
Sep-2024	261	4,076		
Oct-2024	238	3,797		
Nov-2024	218	3,555		
Dec-2024	201	3,343		
Jan-2025	187	3,152		
Feb-2025	175	2,990		
Mar-2025	165	2,844		
Apr-2025	156	2,708		
May-2025	148	2,584		
Jun-2025	140	2,471		
Jul-2025	133	2,368		
Aug-2025	127	2,272		
Sep-2025	122	2,184		
Oct-2025	117	2,104		
Nov-2025	112	2,029		
Dec-2025	108	1,959		
Jan-2026	104	1,893		
Feb-2026	101	1,834		
Mar-2026	97	1,778		
Apr-2026	94	1,725		
May-2026	91	1,674		
Jun-2026	89	1,626		
Jul-2026	86	1,581		
Aug-2026	84	1,538		
Sep-2026	81	1,498		
Oct-2026	79	1,460		
Nov-2026	77	1,423		
Dec-2026	75	1,389		



	SOUTH BONESPRING				
	Oil (bbl/d)	Gas (mcf/d)			
Jan-2024	1,250	5,135			
Feb-2024	1,184	6,041			
Mar-2024	933	5,849			
Apr-2024	670	5,349			
May-2024	517	4,893			
Jun-2024	421	4,401			
Jul-2024	355	3,994			
Aug-2024	306	3,652			
Sep-2024	270	3,368			
Oct-2024	240	3,125			
Nov-2024	217	2,915			
Dec-2024	197	2,731			
Jan-2025	181	2,566			
Feb-2025	167	2,426			
Mar-2025	155	2,301			
Apr-2025	145	2,184			
May-2025	136	2,078			
Jun-2025	127	1,982			
Jul-2025	120	1,894			
Aug-2025	114	1,812			
Sep-2025	108	1,739			
Oct-2025	102	1,670			
Nov-2025	98	1,607			
Dec-2025	93	1,549			
Jan-2026	89	1,493			
Feb-2026	85	1,444			
Mar-2026	82	1,398			
Apr-2026	79	1,353			
May-2026	76	1,311			
Jun-2026	73	1,271			
Jul-2026	71	1,234			
Aug-2026	68	1,198			
Sep-2026	66	1,165			
Oct-2026	64	1,133			
Nov-2026	62	1,104			
Dec-2026	60	1,075			



Oxy USA Inc. - STERLING SILVER MDP1 33_4 FED COM 71H Drill Plan

1. Geologic Formations

TVD of Target (ft):	10557	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	21498	Deepest Expected Fresh Water (ft):	435

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	435	435	
Salado	785	785	Salt
Castile	2728	2728	Salt
Delaware	4207	4207	Oil/Gas/Brine
Bell Canyon	4229	4229	Oil/Gas/Brine
Cherry Canyon	5106	5106	Oil/Gas/Brine
Brushy Canyon	6433	6404	Losses
Bone Spring	8149	8036	Oil/Gas
Bone Spring 1st	9255	9088	Oil/Gas
Bone Spring 2nd	9948	9747	Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		N	ID	TVD					
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	495	0	495	13.375	54.5	J-55	втс
Salt	12.25	0	4307	0	4307	9.625	40	L-80 HC	втс
Intermediate	8.75	0	9973	0	9766	7.625	26.4	L-80 HC	Wedge 425
Production	6.75	0	21498	0	10557	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	SF	Body SF	Inint SE			
31	31	bouy 3F	JUILL 3F			
Collapse		Tension				

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).	1
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	1
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
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?	

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3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	517	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	141	1.33	14.8	20%	3,807	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	1003	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	207	1.68	13.2	5%	6,683	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 2S - Tail BH	206	1.71	13.3	25%	3,807	Bradenhead Post-Frac	Class C+Accel.
Prod.	1	Production - Tail	681	1.84	13.3	25%	9,473	Circulate	Class C+Ret.

Offline Cementing Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

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

4. Pressure Control Equipment

BOP installed and		Min.				TVD Depth
tested before drilling	Size?	Required	Туре		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	4307
		SIVI	Double Ram	✓	250 psi / 5000 psi	
			Other*			
		5M	Annular	✓	70% of working pressure	
			Blind Ram	✓		9766
8.75" Hole	13-5/8"	5 N A	Pipe Ram		250 psi / 5000 psi	
		5M	Double Ram	✓	250 psi / 5000 psi	
			Other*			
		5M	Annular	✓	100% of working pressure	
			Blind Ram	✓		
6.75" Hole	13-5/8"	10M	Pipe Ram		250 poi / 10000 poi	10557
			Double Ram ✓ 250 psi / 10000 psi		230 psi / 10000 psi	1
			Other*			

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.

^{*}Specify if additional ram is utilized

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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.

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.

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5. Mud Program

	Dep	th	Depth -	TVD		Weight		Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	495	0	495	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	495	4307	495	4307	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4307	9973	4307	9766	Water-Based or Oil- Based Mud	8.0 - 10.0	38-50	N/C
Production	9973	21498	9766	10557	Water-Based or Oil- Based Mud	9.5 - 12.5	38-50	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

What will be used to monitor the	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	PV1/IVID TOLCO/VISUAL IVIOLITOTING

6. Logging and Testing Procedures

Loggi	ng, Coring and Testing.					
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).					
ies	Stated logs run will be in the Completion Report and submitted to the BLM.					
No	Logs are planned based on well control or offset log information.					
No	Drill stem test? If yes, explain					
No	Coring? If yes, explain					

Additional logs planned		Interval
No	Resistivity	
No	Density	
Yes	CBL	Production string
Yes	Mud log	Bone Spring – TD
No	PEX	

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7. Drilling Conditions

Condition	Specify what type and where?			
BH Pressure at deepest TVD	6863 psi			
Abnormal Temperature	No			
BH Temperature at deepest TVD	165°F			

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

шев	LIVI.
N	H2S is present
Υ	H2S Plan attached

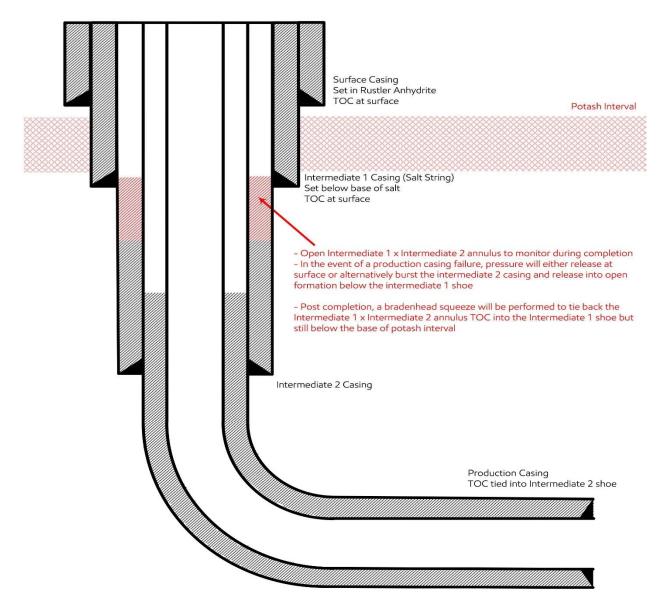
8. Other facets of operation

	Y es/No
Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the 3 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

Total Estimated Cuttings Volume: 1635 bbls

Revision Date – May 21, 2024

4-String Design - Open Int 1 x Int 2 Annulus



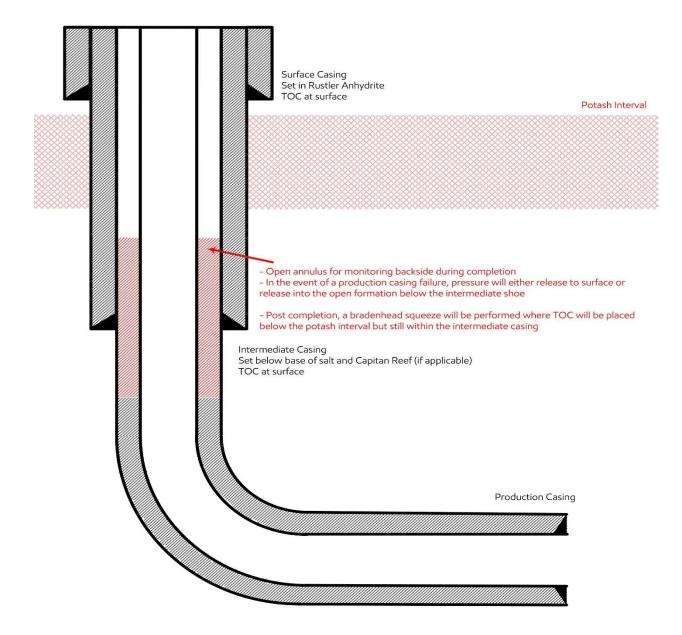
Update May 2024:

OXY is aware of the R111-Q update and will comply with these requirements including (but not limited to):

- 1) Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that meets API standards
- 2) Contingency plans in place to divert formation fluids away from salt interval in event of production casing failure
- 3) Bradenhead squeeze to be completed within 180days to tie back TOC to salt string at least 500ft but with top below Marker Bed 126
- 4) Production cement to be tied back no less than 500ft inside previous casing shoe
- 5) While drilling salt interval, separation distance to any active/inactive producing offset well will be ensured such that SF > 1.0; Anti-Collision Reports will be provided with APD Packages for review where SF < 1.5 against any applicable offset well, or where center-to-center separation against a blind or inclination only surveyed offset well is less than 500ft

Revision Date – May 21, 2024

3-String Design – Open Production Casing Annulus



Update May 2024:

OXY is aware of the R111-Q update and will comply with these requirements including (but not limited to):

- 1) Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that meets API standards
- 2) Contingency plans in place to divert formation fluids away from salt interval in event of production casing failure
- 3) Bradenhead squeeze for Production cement to be completed within 180days to tie back TOC to previous casing string at least 500ft but with top below Marker Bed 126
- 4) While drilling salt interval, separation distance to any active/inactive producing offset well will be ensured such that SF > 1.0; Anti-Collision Reports will be provided with APD Packages for review where SF < 1.5 against any applicable offset well, or where center-to-center separation against a blind or inclination only surveyed offset well is less than 500ft

5M Annluar BOP Variance 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 Well Control Plan below.

Oxy Well Control Plan

A. Component and Preventer Compatibility Table

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

Pilot hole and Lateral sections, 10M requirement

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

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

HWDP = Heavy Weight Drill Pipe

MWD = Measurement While Drilling

B. Well Control Procedures

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

General Procedure While Drilling

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

General Procedure While Tripping

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

General Procedure While Running Casing

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

General Procedure With No Pipe In Hole (Open Hole)

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

General Procedures While Pulling BHA thru Stack

- 1. PRIOR to pulling last joint of drill pipe thru the stack.
 - a. Perform flow check, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper pipe ram
 - e. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify tool pusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - iv. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the compatible pipe ram
 - d. Shut-in using compatible pipe ram. (The HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify tool pusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - iv. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.

- a. Sound alarm (alert crew)
- b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario
- c. If impossible to pick up high enough to pull the string clear of the stack
- d. Stab crossover, make up one joint/stand of drill pipe, and full opening safety valve and close
- e. Space out drill string with tool joint just beneath the upper pipe ram
- f. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
- g. Confirm shut-in
- h. Notify tool pusher/company representative
- i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
- j. Regroup and identify forward plan

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.

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.
- When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper.

If the kill line is broken prior to skid, two tests will be performed.

- 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
- 2) Wellhead flange, HCR valve, check valve, upper pipe rams

If the kill line is not broken prior to skid, only one test will be performed.

1)Wellhead flange, co-flex hose, check valve, upper pipe rams

See supporting information below:

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

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

Background

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

Supporting Rationale

43 CFR part 3170 Subpart 3172 became effective on December 19, 1988, and has remained the standard for regulating BLM onshore drilling operations for almost 30 years. During this time there have been significant changes in drilling technology. **BLM** continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since 43 CFR part 3170 Subpart 3172 was originally released. The drilling rig fleet OXY utilizes in New Mexico was built with many modern upgrades. One of which allows the rigs to skid between wells on multi-well pads. A part of this rig package is a hydraulic winch system which safely installs and removes the BOP from the wellhead and carries it during skidding operations. This technology has made break testing a safe and reliable procldure.

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry. 43 CFR part 3170 Subpart 3172 recognized API Recommended Practices (RP) 53 in its original development. API Standard 53,

Blowout Prevention Equipment Systems for Drilling Wells (Fourth Edition, November 2012, Addendum 1, July 2016) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 6.5.3.4.1.b states "Pressure tests on the well control equipment shall be conducted after the disconnection or repair of any pressure containment seal in the **BOP** stack, choke line, kill line, choke manifold, or wellhead assembly but limited to the affected component."

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

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

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

Procedures

- 1) OXY to submit the break testing plan in the APD or Sundry Notice (SN) and receive approval prior to implementing (See Appendix for examples)
- 2) OXY would perform BOP break testing on multi-well pads where multiple intermediate sections can be drilled and cased within the 30-day BOP test window
- 3) After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP.
 - ➤ Between the check valve and the kill line
 - ➤ Between the HCR valve and the co-flex hose or the co-flex hose and the manifold
 - ➤ Between the BOP flange and the wellhead
- 4) The BOP is then lifted and removed from the wellhead by the hydraulic winch system
- 5) After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed
- 6) The choke line and kill line are reconnected
- 7) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed
- 8) A shell teit is performed against the upper pipe rams testing all thlee breaks
- 9) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 10) These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
- Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 12) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
- 13) A second break test would only be done if the third hole section could be completed within the 30-day BOP test window
- 14) If a second break test is performed, additional components that were not tested on the initial break test will be tested on this break test

Notes:

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

Summary

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

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) Sterling Silver MDP1 33_4 Federal Com Sterling Silver MDP1 33_4 Fed Com 71H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

07 February, 2023

OXY

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Sterling Silver MDP1 33_4 Federal Com

Well: Sterling Silver MDP1 33_4 Fed Com 71H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Sterling Silver MDP1 33_4 Fed Com 71H

RKB 26.5' @ 3406.50ft RKB 26.5' @ 3406.50ft

Grid

Minimum Curvature

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: US State Plane 1983

Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Using geodetic scale factor

Sterling Silver MDP1 33_4 Federal Com

 Site Position:
 Northing:
 461,634.30 usft
 Latitude:
 32.267933

 From:
 Map
 Easting:
 709,709.04 usft
 Longitude:
 -103.788592

Position Uncertainty: 49.91 ft Slot Radius: 13.200 in

Well Sterling Silver MDP1 33_4 Fed Com 71H

Well Position +N/-S 0.00 ft 461.624.60 usf Latitude: 32.267892 Northing: 710,728.86 usf +E/-W 0.00 ft Easting: Longitude: -103.785293 **Position Uncertainty** 2.00 ft Wellhead Elevation: ft **Ground Level:** 3,380.00 ft

Grid Convergence: 0.29 °

Wellbore #1

Magnetics Model Name Sample Date Declination Dip Angle Field Strength (°) (°) (nT)

HDGM_FILE 2/6/2023 6.42 59.87 47,585.70000000

Design Permitting Plan

Audit Notes:

Site

 Version:
 Phase:
 PROTOTYPE
 Tie On Depth:
 0.00

 Vertical Section:
 Depth From (TVD)
 +N/-S
 +E/-W
 Direction

(ft) (ft) (ft) (°)
0.00 0.00 0.00 187.47

Plan Survey Tool Program Date 2/6/2023

Depth From Depth To

(ft) (ft) Survey (Wellbore) Tool Name Remarks

1 0.00 21,497.81 Permitting Plan (Wellbore #1) B001Mb_MWD+HRGM

OWSG MWD + HRGM

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,237.00	0.00	0.00	5,237.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,137.01	18.00	294.50	6,122.28	58.16	-127.59	2.00	2.00	0.00	294.50	
10,072.93	18.00	294.50	9,865.55	562.63	-1,234.31	0.00	0.00	0.00	0.00	
11,043.57	89.62	179.76	10,486.50	-2.59	-1,413.90	10.00	7.38	-11.82	-113.78	FTP Sterling Silver
21,498.15	89.62	179.76	10,556.50	-10,456.85	-1,370.17	0.00	0.00	0.00	0.00	PBHL Sterling Silver

Planning Report

Database: Company: Project:

Site:

Well:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983) Sterling Silver MDP1 33_4 Federal Com

Wellbore: Wellbore #1

Design: Permitting Plan

Sterling Silver MDP1 33_4 Fed Com 71H Wellbore #1

Local Co-ordinate Reference:

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Survey Calculation Method:

Well Sterling Silver MDP1 33_4 Fed Com 71H

RKB 26.5' @ 3406.50ft RKB 26.5' @ 3406.50ft

Grid

esign:	Permitting Pla	an							
lanned Survey									
iailileu Suivey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00		1,800.00	0.00	0.00		0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3.600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00		5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00 0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
			,					0.00	0.00
5,200.00 5,237.00	0.00 0.00	0.00 0.00	5,200.00 5,237.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00
5,237.00 5,300.00									
5.300.00	1.26	294.50	5,300.00	0.29	-0.63	-0.20	2.00	2.00	0.00

Planning Report

Database: Company: Project:

Site:

Well:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983) Sterling Silver MDP1 33_4 Federal Com

Sterling Silver MDP1 33_4 Fed Com 71H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Sterling Silver MDP1 33_4 Fed Com 71H

RKB 26.5' @ 3406.50ft RKB 26.5' @ 3406.50ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	3.26	294.50	5,399.91	1.92	-4.22	-1.36	2.00	2.00	0.00
5,500.00	5.26	294.50	5,499.63	5.00	-10.98	-3.54	2.00	2.00	0.00
5,600.00	7.26	294.50	5,599.03	9.53	-20.90	-6.73	2.00	2.00	0.00
5,700.00	9.26	294.50	5,697.99	15.48	-33.97	-10.94	2.00	2.00	0.00
5,800.00	11.26	294.50	5,796.38	22.87	-50.18	-16.16	2.00	2.00	0.00
					-69.50		2.00	2.00	0.00
5,900.00	13.26	294.50	5,894.10	31.68		-22.38			
6,000.00	15.26	294.50	5,991.01	41.89	-91.91	-29.60	2.00	2.00	0.00
6,100.00	17.26	294.50	6,087.01	53.51	-117.39	-37.80	2.00	2.00	0.00
6,137.01	18.00	294.50	6,122.28	58.16	-127.59	-41.09	2.00	2.00	0.00
6,200.00	18.00	294.50	6,182.19	66.23	-145.30	-46.79	0.00	0.00	0.00
6,300.00	18.00	294.50	6,277.29	79.05	-173.42	-55.85	0.00	0.00	0.00
6,400.00	18.00	294.50	6,372.40	91.86	-201.54	-64.90	0.00	0.00	0.00
6,500.00	18.00	294.50	6,467.50	104.68	-229.65	-73.96	0.00	0.00	0.00
6,600.00	18.00	294.50	6,562.61	117.50	-257.77	-83.01	0.00	0.00	0.00
6,700.00	18.00	294.50	6,657.71	130.32	-285.89	-92.07	0.00	0.00	0.00
6,800.00	18.00	294.50	6,752.82	143.13	-314.01	-101.12	0.00	0.00	0.00
6,900.00	18.00	294.50	6,847.92	155.95	-342.13	-110.18	0.00	0.00	0.00
7,000.00	18.00	294.50	6,943.03	168.77	-370.25	-119.23	0.00	0.00	0.00
7,100.00	18.00	294.50	7,038.13	181.58	-398.37	-128.29	0.00	0.00	0.00
7,200.00	18.00	294.50	7,133.24	194.40	-426.48	-137.35	0.00	0.00	0.00
7,300.00	18.00	294.50	7,228.35	207.22	-454.60	-146.40	0.00	0.00	0.00
7,400.00	18.00	294.50	7,323.45	220.04	-482.72	-155.46	0.00	0.00	0.00
7,500.00	18.00	294.50	7,418.56	232.85	-510.84	-164.51	0.00	0.00	0.00
7,600.00	18.00	294.50	7,513.66	245.67	-538.96	-173.57	0.00	0.00	0.00
7,700.00	18.00	294.50	7,608.77	258.49	-567.08	-182.62	0.00	0.00	0.00
7,800.00	18.00	294.50	7,703.87	271.31	-595.20	-191.68	0.00	0.00	0.00
7,900.00	18.00	294.50	7,798.98	284.12	-623.32	-200.73	0.00	0.00	0.00
8,000.00	18.00	294.50	7,894.08	296.94	-651.43	-209.79	0.00	0.00	0.00
8,100.00	18.00	294.50	7,989.19	309.76	-679.55	-218.84	0.00	0.00	0.00
8,200.00	18.00	294.50	8,084.30	322.57	-707.67	-227.90	0.00	0.00	0.00
8,300.00	18.00	294.50	8,179.40	335.39	-735.79	-236.95	0.00	0.00	0.00
8,400.00	18.00	294.50	8,274.51	348.21	-763.91	-246.01	0.00	0.00	0.00
8,500.00	18.00	294.50	8,369.61	361.03	-792.03	-255.06	0.00	0.00	0.00
8,600.00	18.00	294.50	8,464.72	373.84	-820.15	-264.12	0.00	0.00	0.00
8,700.00	18.00	294.50	8,559.82	386.66	-848.26	-273.18	0.00	0.00	0.00
8,800.00	18.00	294.50	8,654.93	399.48	-876.38	-282.23	0.00	0.00	0.00
8,900.00	18.00	294.50	8,750.03	412.29	-904.50	-291.29	0.00	0.00	0.00
9,000.00	18.00	294.50	8,845.14	425.11	-932.62	-300.34	0.00	0.00	0.00
9,100.00	18.00	294.50	8,940.25	437.93	-960.74	-309.40	0.00	0.00	0.00
9,200.00	18.00	294.50	9,035.35	450.75	-988.86	-318.45	0.00	0.00	0.00
9,300.00	18.00	294.50	9,130.46	463.56	-1,016.98	-327.51	0.00	0.00	0.00
9,400.00	18.00	294.50	9,130.46	403.30	-1,016.96	-327.51	0.00	0.00	0.00
9,500.00	18.00	294.50	9,320.67	489.20	-1,073.21	-345.62	0.00	0.00	0.00
9,600.00	18.00	294.50	9,415.77	502.01	-1,101.33	-354.67	0.00	0.00	0.00
9,700.00	18.00	294.50	9,510.88	514.83	-1,129.45	-363.73	0.00	0.00	0.00
9,800.00	18.00	294.50	9,605.98	527.65	-1,157.57	-372.78	0.00	0.00	0.00
9,900.00	18.00	294.50	9,701.09	540.47	-1,185.69	-381.84	0.00	0.00	0.00
10,000.00	18.00	294.50	9,796.20	553.28	-1,213.81	-390.89	0.00	0.00	0.00
10,072.93	18.00	294.50	9,865.55	562.63	-1,234.31	-397.50	0.00	0.00	0.00
10,100.00	17.08	286.04	9,891.37	565.46	-1,241.94	-399.32	10.00	-3.39	-31.25
10,200.00	17.22	251.67	9,987.17	564.87	-1,270.18	-395.06	10.00	0.14	-34.38
10,300.00	22.27	225.71	10,081.44	546.93	-1,297.86	-373.68	10.00	5.04	-25.96
10,400.00	29.82	210.60	10,171.32	512.22	-1,324.15	-335.84	10.00	7.56	-15.11
10,500.00	38.43	201.46	10,254.07	461.76	-1,348.24	-282.68	10.00	8.61	-9.14
10,600.00	47.52	195.31	10,327.20	397.11	-1,369.40	-215.83	10.00	9.09	-6.15
10,000.00	₹1.02	100.01	10,021.20	557.11	1,500.40	_ 10.00	10.00	0.00	0.10

Planning Report

Database: Company: Project:

Site:

Well:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983) Sterling Silver MDP1 33_4 Federal Com

Sterling Silver MDP1 33_4 Fed Com 71H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Sterling Silver MDP1 33_4 Fed Com 71H

RKB 26.5' @ 3406.50ft RKB 26.5' @ 3406.50ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,700.00	56.85	190.75	10,388.46	320.22	-1,386.99	-137.31	10.00	9.33	-4.56
10,800.00	66.32	187.08	10,436.01	233.43	-1,400.47	-49.50	10.00	9.47	-3.67
10,900.00	75.86	183.91	10,468.39	139.38	-1,409.44	44.92	10.00	9.54	-3.17
11,000.00	85.44	181.00	10,484.62	40.92	-1,413.62	143.08	10.00	9.58	-2.91
11,043.57	89.62	179.76	10,486.50	-2.59	-1,413.90	186.26	10.00	9.59	-2.83
11,100.00	89.62	179.76	10,486.88	-59.02	-1,413.67	242.19	0.00	0.00	0.00
11,200.00	89.62	179.76	10,487.55	-159.02	-1,413.25	341.28	0.00	0.00	0.00
11,300.00	89.62	179.76	10,488.22	-259.02	-1,412.83	440.38	0.00	0.00	0.00
11,400.00	89.62	179.76	10,488.89	-359.01	-1,412.41	539.47	0.00	0.00	0.00
11,500.00	89.62	179.76	10,489.56	-459.01	-1,412.00	638.57	0.00	0.00	0.00
11,600.00 11,700.00 11,800.00 11,900.00 12,000.00	89.62 89.62 89.62 89.62	179.76 179.76 179.76 179.76 179.76	10,490.23 10,490.90 10,491.57 10,492.23 10,492.90	-559.01 -659.00 -759.00 -859.00 -958.99	-1,411.58 -1,411.16 -1,410.74 -1,410.32 -1,409.90	737.66 836.76 935.85 1,034.95 1,134.04	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
12,100.00	89.62	179.76	10,493.57	-1,058.99	-1,409.49	1,233.14	0.00	0.00	0.00
12,200.00	89.62	179.76	10,494.24	-1,158.99	-1,409.07	1,332.23	0.00	0.00	0.00
12,300.00	89.62	179.76	10,494.91	-1,258.99	-1,408.65	1,431.33	0.00	0.00	0.00
12,400.00	89.62	179.76	10,495.58	-1,358.98	-1,408.23	1,530.42	0.00	0.00	0.00
12,500.00	89.62	179.76	10,496.25	-1,458.98	-1,407.81	1,629.52	0.00	0.00	0.00
12,600.00	89.62	179.76	10,496.92	-1,558.98	-1,407.39	1,728.61	0.00	0.00	0.00
12,700.00	89.62	179.76	10,497.59	-1,658.97	-1,406.98	1,827.71	0.00	0.00	0.00
12,800.00	89.62	179.76	10,498.26	-1,758.97	-1,406.56	1,926.80	0.00	0.00	0.00
12,900.00	89.62	179.76	10,498.93	-1,858.97	-1,406.14	2,025.90	0.00	0.00	0.00
13,000.00	89.62	179.76	10,499.60	-1,958.96	-1,405.72	2,124.99	0.00	0.00	0.00
13,100.00	89.62	179.76	10,500.27	-2,058.96	-1,405.30	2,224.09	0.00	0.00	0.00
13,200.00	89.62	179.76	10,500.94	-2,158.96	-1,404.88	2,323.18	0.00	0.00	0.00
13,300.00	89.62	179.76	10,501.61	-2,258.95	-1,404.47	2,422.28	0.00	0.00	0.00
13,400.00	89.62	179.76	10,502.28	-2,358.95	-1,404.05	2,521.37	0.00	0.00	0.00
13,500.00	89.62	179.76	10,502.95	-2,458.95	-1,403.63	2,620.47	0.00	0.00	0.00
13,600.00	89.62	179.76	10,503.62	-2,558.94	-1,403.21	2,719.56	0.00	0.00	0.00
13,700.00	89.62	179.76	10,504.29	-2,658.94	-1,402.79	2,818.66	0.00	0.00	0.00
13,800.00	89.62	179.76	10,504.96	-2,758.94	-1,402.37	2,917.75	0.00	0.00	0.00
13,900.00	89.62	179.76	10,505.63	-2,858.94	-1,401.96	3,016.85	0.00	0.00	0.00
14,000.00	89.62	179.76	10,506.30	-2,958.93	-1,401.54	3,115.94	0.00	0.00	0.00
14,100.00	89.62	179.76	10,506.96	-3,058.93	-1,401.12	3,215.04	0.00	0.00	0.00
14,200.00	89.62	179.76	10,507.63	-3,158.93	-1,400.70	3,314.13	0.00	0.00	0.00
14,300.00	89.62	179.76	10,508.30	-3,258.92	-1,400.28	3,413.23	0.00	0.00	0.00
14,400.00	89.62	179.76	10,508.97	-3,358.92	-1,399.86	3,512.32	0.00	0.00	0.00
14,500.00	89.62	179.76	10,509.64	-3,458.92	-1,399.45	3,611.42	0.00	0.00	0.00
14,600.00	89.62	179.76	10,510.31	-3,558.91	-1,399.03	3,710.51	0.00	0.00	0.00
14,700.00	89.62	179.76	10,510.98	-3,658.91	-1,398.61	3,809.61	0.00	0.00	0.00
14,800.00	89.62	179.76	10,511.65	-3,758.91	-1,398.19	3,908.70	0.00	0.00	0.00
14,900.00	89.62	179.76	10,512.32	-3,858.90	-1,397.77	4,007.80	0.00	0.00	0.00
15,000.00	89.62	179.76	10,512.99	-3,958.90	-1,397.35	4,106.89	0.00	0.00	0.00
15,100.00	89.62	179.76	10,513.66	-4,058.90	-1,396.94	4,205.99	0.00	0.00	0.00
15,200.00	89.62	179.76	10,514.33	-4,158.89	-1,396.52	4,305.08	0.00	0.00	0.00
15,300.00	89.62	179.76	10,515.00	-4,258.89	-1,396.10	4,404.18	0.00	0.00	0.00
15,400.00	89.62	179.76	10,515.67	-4,358.89	-1,395.68	4,503.27	0.00	0.00	0.00
15,500.00	89.62	179.76	10,516.34	-4,458.89	-1,395.26	4,602.37	0.00	0.00	0.00
15,600.00	89.62	179.76	10,517.01	-4,558.88	-1,394.84	4,701.46	0.00	0.00	0.00
15,700.00	89.62	179.76	10,517.68	-4,658.88	-1,394.43	4,800.56	0.00	0.00	0.00
15,800.00	89.62	179.76	10,518.35	-4,758.88	-1,394.01	4,899.65	0.00	0.00	0.00
15,900.00	89.62	179.76	10,519.02	-4,858.87	-1,393.59	4,998.75	0.00	0.00	0.00
16,000.00	89.62	179.76	10,519.69	-4,958.87	-1,393.17	5,097.84	0.00	0.00	0.00

Planning Report

Database: Company: Project:

Site:

Well:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983) Sterling Silver MDP1 33_4 Federal Com Sterling Silver MDP1 33_4 Fed Com 71H

Wellbore: Wellbore #1

Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Sterling Silver MDP1 33_4 Fed Com 71H

RKB 26.5' @ 3406.50ft RKB 26.5' @ 3406.50ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,100.00	89.62	179.76	10,520.36	-5,058.87	-1,392.75	5,196.94	0.00	0.00	0.00
16,200.00	89.62	179.76	10,521.03	-5,158.86	-1,392.34	5,296.03	0.00	0.00	0.00
16,300.00	89.62	179.76	10,521.70	-5,258.86	-1,391.92	5,395.13	0.00	0.00	0.00
16,400.00	89.62	179.76	10,522.36	-5,358.86	-1,391.50	5,494.22	0.00	0.00	0.00
16,500.00	89.62	179.76	10,523.03	-5,458.85	-1,391.08	5,593.32	0.00	0.00	0.00
16,600.00	89.62	179.76	10,523.70	-5,558.85	-1,390.66	5,692.41	0.00	0.00	0.00
16,700.00	89.62	179.76	10,524.37	-5,658.85	-1,390.24	5,791.51	0.00	0.00	0.00
16,800.00	89.62	179.76	10,525.04	-5,758.84	-1,389.83	5,890.60	0.00	0.00	0.00
16,900.00	89.62	179.76	10,525.71	-5,858.84	-1,389.41	5,989.70	0.00	0.00	0.00
17,000.00	89.62	179.76	10,526.38	-5,958.84	-1,388.99	6,088.79	0.00	0.00	0.00
17,100.00	89.62	179.76	10,527.05	-6,058.84	-1,388.57	6,187.89	0.00	0.00	0.00
17,200.00	89.62	179.76	10,527.72	-6,158.83	-1,388.15	6,286.98	0.00	0.00	0.00
17,300.00	89.62	179.76	10,528.39	-6,258.83	-1,387.73	6,386.08	0.00	0.00	0.00
17,400.00	89.62	179.76	10,529.06	-6,358.83	-1,387.32	6,485.17	0.00	0.00	0.00
17,500.00	89.62	179.76	10,529.73	-6,458.82	-1,386.90	6,584.27	0.00	0.00	0.00
17,600.00	89.62	179.76	10,530.40	-6,558.82	-1,386.48	6,683.36	0.00	0.00	0.00
17,700.00	89.62	179.76	10,531.07	-6,658.82	-1,386.06	6,782.46	0.00	0.00	0.00
17,800.00	89.62	179.76	10,531.74	-6,758.81	-1,385.64	6,881.55	0.00	0.00	0.00
17,900.00	89.62	179.76	10,532.41	-6,858.81	-1,385.22	6,980.65	0.00	0.00	0.00
18,000.00	89.62	179.76	10,533.08	-6,958.81	-1,384.81	7,079.74	0.00	0.00	0.00
18,100.00	89.62	179.76	10,533.75	-7,058.80	-1,384.39	7,178.84	0.00	0.00	0.00
18,200.00	89.62	179.76	10,534.42	-7,158.80	-1,383.97	7,277.93	0.00	0.00	0.00
18,300.00	89.62	179.76	10,535.09	-7,258.80	-1,383.55	7,377.03	0.00	0.00	0.00
18,400.00	89.62	179.76	10,535.76	-7,358.80	-1,383.13	7,476.12	0.00	0.00	0.00
18,500.00	89.62	179.76	10,536.43	-7,458.79	-1,382.71	7,575.22	0.00	0.00	0.00
18,600.00	89.62	179.76	10,537.10	-7,558.79	-1,382.30	7,674.31	0.00	0.00	0.00
18,700.00	89.62	179.76	10,537.76	-7,658.79	-1,381.88	7,773.41	0.00	0.00	0.00
18,800.00	89.62	179.76	10,538.43	-7,758.78	-1,381.46	7,872.50	0.00	0.00	0.00
18,900.00	89.62	179.76	10,539.10	-7,858.78	-1,381.04	7,971.60	0.00	0.00	0.00
19,000.00	89.62	179.76	10,539.77	-7,958.78	-1,380.62	8,070.69	0.00	0.00	0.00
19,100.00	89.62	179.76	10,540.44	-8,058.77	-1,380.20	8,169.79	0.00	0.00	0.00
19,200.00	89.62	179.76	10,541.11	-8,158.77	-1,379.79	8,268.88	0.00	0.00	0.00
19,300.00	89.62	179.76	10,541.78	-8,258.77	-1,379.37	8,367.98	0.00	0.00	0.00
19,400.00	89.62 89.62	179.76 179.76	10,542.45 10,543.12	-8,358.76 -8,458.76	-1,378.95 -1,378.53	8,467.07	0.00 0.00	0.00 0.00	0.00 0.00
19,500.00						8,566.17			
19,600.00	89.62	179.76	10,543.79	-8,558.76	-1,378.11	8,665.26	0.00	0.00	0.00
19,700.00	89.62	179.76	10,544.46	-8,658.75	-1,377.69	8,764.36	0.00	0.00	0.00
19,800.00	89.62	179.76	10,545.13	-8,758.75	-1,377.28	8,863.45	0.00	0.00	0.00
19,900.00 20,000.00	89.62 89.62	179.76 179.76	10,545.80 10,546.47	-8,858.75 -8,958.75	-1,376.86 -1,376.44	8,962.55 9,061.64	0.00 0.00	0.00 0.00	0.00 0.00
1									
20,100.00	89.62	179.76	10,547.14	-9,058.74	-1,376.02	9,160.74	0.00	0.00	0.00
20,200.00	89.62	179.76	10,547.81	-9,158.74 0.258.74	-1,375.60	9,259.83 9,358.93	0.00	0.00	0.00
20,300.00 20,400.00	89.62 89.62	179.76 179.76	10,548.48 10,549.15	-9,258.74 -9,358.73	-1,375.18 -1,374.77	9,358.93 9,458.02	0.00 0.00	0.00 0.00	0.00 0.00
20,500.00	89.62	179.76	10,549.15	-9,356.73 -9,458.73	-1,374.77	9,456.02	0.00	0.00	0.00
·					,				
20,600.00 20,700.00	89.62 89.62	179.76 179.76	10,550.49 10,551.16	-9,558.73 -9,658.72	-1,373.93 -1,373.51	9,656.21 9,755.31	0.00 0.00	0.00 0.00	0.00 0.00
20,700.00	89.62	179.76	10,551.16	-9,058.72 -9,758.72	-1,373.51 -1,373.09	9,755.31 9,854.40	0.00	0.00	0.00
20,900.00	89.62	179.76	10,552.50	-9,858.72	-1,373.69	9,953.50	0.00	0.00	0.00
21,000.00	89.62	179.76	10,553.16	-9,958.71	-1,372.26	10,052.59	0.00	0.00	0.00
21,100.00	89.62	179.76	10,553.83	-10,058.71	-1,371.84	10,151.69	0.00	0.00	0.00
21,100.00	89.62	179.76	10,553.83	-10,058.71 -10,158.71	-1,371.84 -1,371.42	10,151.69	0.00	0.00	0.00
21,300.00	89.62	179.76	10,555.17	-10,158.71	-1,371.42	10,230.78	0.00	0.00	0.00
21,400.00	89.62	179.76	10,555.84	-10,358.70	-1,370.58	10,448.97	0.00	0.00	0.00
21,498.15	89.62	179.76	10,556.50	-10,456.85	-1,370.17	10,546.23	0.00	0.00	0.00

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Sterling Silver MDP1 33_4 Federal Com
Well: Sterling Silver MDP1 33_4 Fed Com 71H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Sterling Silver MDP1 33_4 Fed Com 71H

RKB 26.5' @ 3406.50ft RKB 26.5' @ 3406.50ft

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP Sterling Silver - plan hits target cen - Point	0.00 ter	0.00	10,486.50	-2.59	-1,413.90	461,622.01	709,315.04	32.267905	-103.789867
PBHL Sterling Silver - plan hits target cen - Point	0.00 ter	0.00	10,556.50	-10,456.85	-1,370.17	451,168.38	709,358.77	32.239169	-103.789897

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	434.50	434.50	RUSTLER			
	784.50	784.50	SALADO			
	2,727.50	2,727.50	CASTILE			
	4,206.50	4,206.50	DELAWARE			
	4,228.50	4,228.50	BELL CANYON			
	5,105.50	5,105.50	CHERRY CANYON			
	6,432.70	6,403.50	BRUSHY CANYON			
	8,148.69	8,035.50	BONE SPRING			
	9,254.83	9,087.50	BONE SPRING 1ST			
	9,947.75	9,746.50	BONE SPRING 2ND			

Plan Annotati	ons				
	Measured	Vertical	Local Coor	dinates	
	Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
	5,237.00 6,137.01 10,072.93 11,043.57 21,498.15	5,237.00 6,122.28 9,865.56 10,486.50 10,556.50	0.00 58.16 562.63 -2.59 -10,456.85	0.00 -127.59 -1,234.31 -1,413.90 -1,370.17	Build 2°/100' Hold 18° Inc KOP, Build & Turn 10°/100' Landing Point TD at 21498.15' MD

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME: Oxy USA Inc.

LEASE NO.: NMNM038464, NMNM040659, NMNM045236, NMNM104730

COUNTY: Eddy

Wells:

Proposed Well Name	Mineral Lease Number	Mineral Ownership	
SNDDNS 2801 Sterling Silver MDP1 33-4 Fed C 21 Fed Com 12H-14H, 24H-26H, 44H-47H, 73H		6H, and Iridium MDP1 28-	
Sterling Silver MDP1 33-4 Fed Com 13H			
Sterling Silver MDP1 33-4 Fed Com 14H			
Sterling Silver MDP1 33-4 Fed Com 24H			
Sterling Silver MDP1 33-4 Fed Com 25H	NMNM 040659		
Sterling Silver MDP1 33-4 Fed Com 26H	NMNM 045236 NMNM 104730		
Sterling Silver MDP1 33-4 Fed Com 44H	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Sterling Silver MDP1 33-4 Fed Com 45H			
Sterling Silver MDP1 33-4 Fed Com 46H			
Iridium MDP1 28-21 Fed Com 12H			
Iridium MDP1 28-21 Fed Com 13H			
Iridium MDP1 28-21 Fed Com 14H			
Iridium MDP1 28-21 Fed Com 24H		BLM CFO	
Iridium MDP1 28-21 Fed Com 25H	NMNM 038464		
Iridium MDP1 28-21 Fed Com 26H	NMNM 040659 NMNM 045236		
Iridium MDP1 28-21 Fed Com 44H	111111111111111111111111111111111111111		
Iridium MDP1 28-21 Fed Com 45H			
Iridium MDP1 28-21 Fed Com 46H			
Iridium MDP1 28-21 Fed Com 47H			
Iridium MDP1 28-21 Fed Com 73H	NMNM 038464		
	NMNM 040659		
	NMNM 045236		
Iridium MDP1 28-21 Fed Com 74H	NMNM 040659 NMNM 045236		
	NMNM 104730		
SNDDNS 2803 Sterling Silver MDP1 33-4 Fed (21 Fed Com 22H, 23H, 42H, 43H, 71H, and 72H	Com 11H, 12H, 21H-23H, 41H-4	3H, and Iridium MDP1 28-	
Sterling Silver MDP1 33-4 Fed Com 11H	NMNM 040659	DI M CEO	
Sterling Silver MDP1 33-4 Fed Com 12H	NMNM 045236	BLM CFO	

Proposed Well Name	Mineral Lease Number	Mineral Ownership						
Sterling Silver MDP1 33-4 Fed Com 21H	NMNM 104730							
Sterling Silver MDP1 33-4 Fed Com 22H								
Sterling Silver MDP1 33-4 Fed Com 23H								
Sterling Silver MDP1 33-4 Fed Com 41H								
Sterling Silver MDP1 33-4 Fed Com 42H								
Sterling Silver MDP1 33-4 Fed Com 43H								
Iridium MDP1 28-21 Fed Com 22H								
Iridium MDP1 28-21 Fed Com 23H								
Iridium MDP1 28-21 Fed Com 42H	NMNM 038464 NMNM 040659							
Iridium MDP1 28-21 Fed Com 43H	NMNM 045236							
Iridium MDP1 28-21 Fed Com 71H								
Iridium MDP1 28-21 Fed Com 72H								
SNDDNS 3304 Sterling Silver MDP1 33-4 Fed Com 71H-73H								
Sterling Silver MDP1 33-4 Fed Com 71H	NMNM 040659							
Sterling Silver MDP1 33-4 Fed Com 72H	NMNM 045236	BLM CFO						
Sterling Silver MDP1 33-4 Fed Com 73H	NMNM 104730							

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

 ☐ General Provisions ☐ Permit Expiration ☐ Archaeology, Paleontology, and Historical Sites ☐ Noxious Weeds
Special Requirements
Range
Lesser Prairie Chicken
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
☐ Road Section Diagram
□ Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
☐ Interim Reclamation
☐ Final Abandonment & Reclamation

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See information below discussing NAGPRA.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Range:

Livestock Watering Requirement

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

Lesser Prairie Chicken:

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Ground-level Abandoned Well Marker to avoid raptor perching:

Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed twenty (20) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

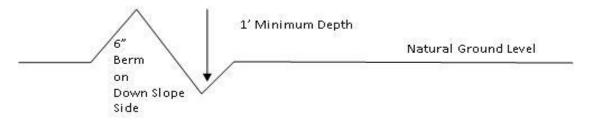
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be

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determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

- 1. Salvage topsoil
- 3. Redistribute topsoil
- 2. Construct road 4. Revegetate slopes

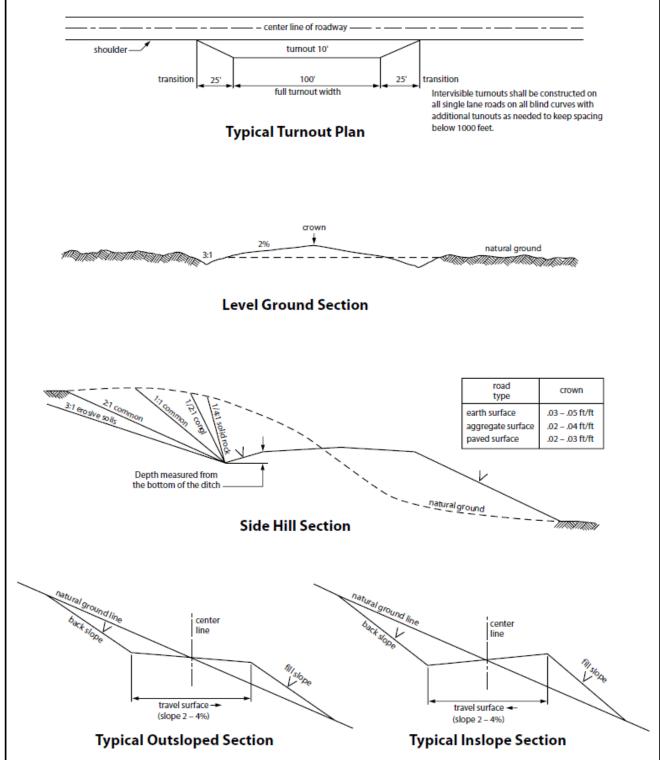


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

Α. **WELL STRUCTURES & FACILITIES**

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.) Production equipment includes, but may not be limited to, tanks, heatertreaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval
 prior to pipeline installation. The method could incorporate gauges to detect pressure
 drops, situating values and lines so they can be visually inspected periodically or
 installing electronic sensors to alarm when a leak is present. The leak detection plan will
 incorporate an automatic shut off system that will be installed for proposed pipelines to
 minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the

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Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

- 4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.
- 5. All construction and maintenance activity will be confined to the authorized right-of-way.
- 6. The pipeline will be buried with a minimum cover of ______ inches between the top of the pipe and ground level.
- 7. The maximum allowable disturbance for construction in this right-of-way will be **30** feet:
 - Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>20</u> feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation*.)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)
 - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)
- 8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6__ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
- 9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

- 10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

seeding requirements, using the following seed mix.
☐ Seed Mixture 1 ☑X Seed Mixture 2
Seed Mixture 2/LPC
Seed Mixture 3
Seed Mixture 4
Seed Mixture Aplomado Falcon Mixture

12. The helder will record all disturbed areas. Seeding will be done according to the attended

- 13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2.
- 14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.
- 15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.
- 16. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."
- 17. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An

evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

- 18. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 19. <u>Escape Ramps</u> The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:
 - a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
 - b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the Grant and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 *et seq.* (1982) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (see 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity

on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.

- 4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:
 - a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;
 - b. Activities of other parties including, but not limited to:
 - (1) Land clearing
 - (2) Earth-disturbing and earth-moving work
 - (3) Blasting
 - (4) Vandalism and sabotage;
 - c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

- 5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.
- 6. All construction and maintenance activity shall be confined to the authorized right-of-way width of 30 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.
- 7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.
- 8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.
- 9. The pipeline shall be buried with a minimum of ______ 6 ____ inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

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- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line. the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" - Shale Green, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
- 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadwav.
- 15. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."
- 16. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 18. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

C. ELECTRIC LINES

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems. Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction.
- No further construction will be done until clearance has been issued by the Authorized Officer.
- Special restoration stipulations or realignment may be required.

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
- 5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all

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powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

- 6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 10. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."
- 11. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 12. Special Stipulations:

For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species

I <u>b/acre</u>
1.0
1.0
2.0

^{*}Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA INC.

WELL NAME & NO.: STERLING SILVER MDP1 33-4 FED COM 71H

LOCATION: Sec33, T23S, R31E

COUNTY: Eddy County, New Mexico

COA

H_2S	O No		• Yes	
Potash /	O None	Secretary	• R-111-Q	Open Annulus
WIPP	4-String Design: Ope	n 1st Int x 2nd Annulus (ICP 2 below Relief Z	Zone) \square WIPP
Cave / Karst	• Low	O Medium	O High	Critical
Wellhead	Conventional	Multibowl	O Both	Diverter
Cementing	Primary Squeeze	☐ Cont. Squeeze	EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	✓ COM	☐ Unit
Waste Prev.	O Self-Certification	O Waste Min. Plan	• APD Submitted prior to 06/10/2024	
Additional	▼ Flex Hose	Casing Clearance	☐ Pilot Hole	Break Testing
Language	Four-String	Offline Cementing	☐ Fluid-Filled	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

B. CASING

Set points in COA reflects requirements from BLM Geology. Please review.

- 1. The 13-3/8 inch surface casing shall be set at approximately 565 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. BLM Geology Note: BLM proposes to set the surface casing at 565' Eddy county the Rustler fm. managing BLM identified groundwater zones and karst surface to groundwater transport structures.
 - 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

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- 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>8 hours</u> or <u>500 pounds compressive strength</u>, 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 salt protection casing shall be set at approximately 4157 feet TVD. Please set Salt Protection string prior to entering hydrocarbon bearing zone (Delaware). The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.
- 3. The **7-5/8** inch second intermediate casing shall be set at approximately **9973** feet. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

NOTE: CEMENT PROGRAM LISTED IN THE ATTACHED DRILL PLAN IS INADEQUATE TO COVER THE DEPTHS ON BOTH PRIMARY AND BRADENHEAD. PLEASE REVIEW VOLUMES PRIOR TO CEMENTING THE INTERVAL TO ACHIEVE REQUIREMENTS BELOW. KEEP CASING FULL FOR COLLAPSE SF.

Option 1 (Primary + Post Frac Bradenhead):

- Cement should tie-back 500 feet into the previous casing but not higher than
 USGS Marker Bed No. 126. Operator must verify top of cement per R-111-Q
 requirements. Submit results to the BLM. If cement does not circulate, contact
 the appropriate BLM office. Wait on cement (WOC) time for a primary
 cement job is to include the lead cement slurry due to cave/karst, Capitan
 Reef, or potash.
- ❖ A monitored open annulus will be incorporated during completion by leaving the Intermediate Casing 1 x Intermediate Casing 2 annulus un-cemented and monitored inside the Intermediate String. Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within 180 days.

Operator has proposed to pump down **intermediate 1 x intermediate 2** annulus post completion. **Operator must run Echo-meter to verify Cement Slurry/Fluid top in the**

annulus OR operator shall run a CBL from TD of the intermediate 2 casing to surface after the second stage BH to verify TOC. Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on both the intermediate annulus and the production annulus for the life of the well.

In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and (575-361-2822 Eddy County).

4. The **5-1/2** inch production casing shall be set at approximately **21,498** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

Cement should tie-back 500 feet into the previous casing but not higher than
USGS Marker Bed No. 126. Operator must verify top of cement per R-111-Q
requirements. Submit results to the BLM. If cement does not circulate, contact
the appropriate BLM office. Wait on cement (WOC) time for a primary
cement job is to include the lead cement slurry due to cave/karst, Capitan
Reef, or potash.

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).
 - Operator has proposed a multi-bowl wellhead assembly. 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. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 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 43 CFR 3172 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 43 CFR 3171 and 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. When the Communitization Agreement number is known, it shall also be on the sign.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 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.
- 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 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

Casing Clearance

Overlap clearance OK.

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)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM_NM_CFO_DrillingNotifications@BLM.GOV**; (575) 361-2822

- 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.
 - 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
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. 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.
 - iii. BOP/BOPE test to be conducted per **43 CFR 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

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.

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- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. 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-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.
- 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.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. 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.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. 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.
 - i. 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).
 - ii. 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.)
- iii. 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 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. 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 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.

KPI -12/01/2024

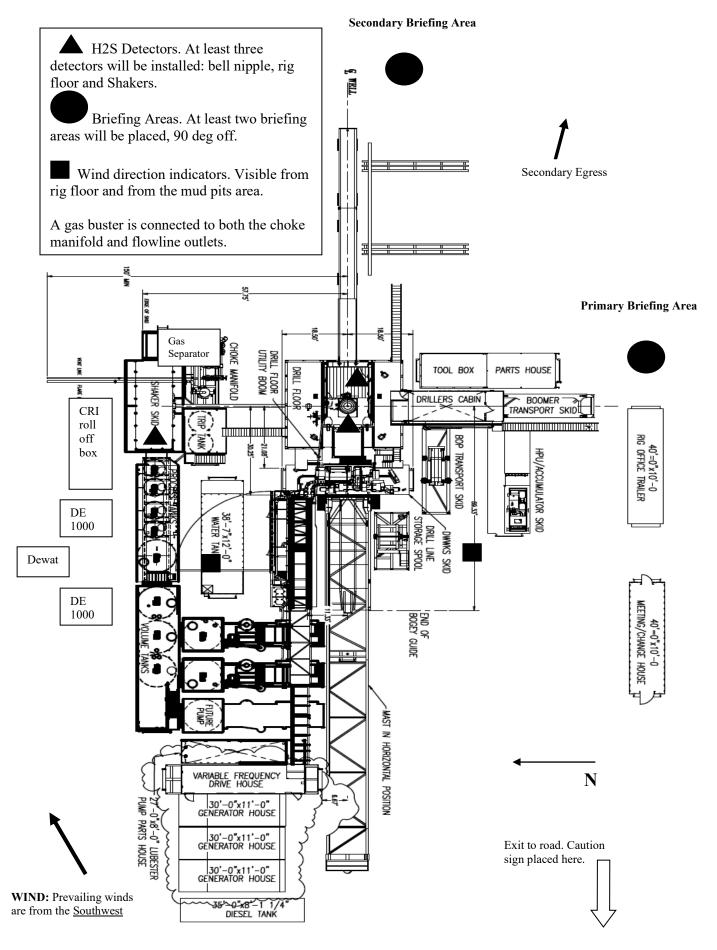


Permian Drilling Hydrogen Sulfide Drilling Operations Plan

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

Scope

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.

Discussion

Implementation: This plan with all details is to be fully implemented

before drilling to commence.

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. Well control equipment

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. Hydrogen sulfide sensors and alarms

- 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. Metallurgy

- 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. Well Testing

No drill stem test will be performed on this well.

8. Evacuation plan

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. On alarm, don escape unit and report to the nearest upwind designated safe briefing / muster area upw
- 2. Check status of personnel (buddy system).
- 3. Secure breathing equipment.
- 4. 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 (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:

- 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.

Taking a kick

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.

<u>Instructions for igniting the well</u>

- 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:
encerca oy.	Bate.

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.

Table i Toxicity of various gases

Common name	Chemical formula	Specific gravity (sc=1)	Threshold limit (1)	Hazardous limit (2)	Lethal concentration (3)
Hydrogen Cyanide	Hen	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

- 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.

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 face-piece 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.

Rescue First aid for H2S poisoning

Do not panic!

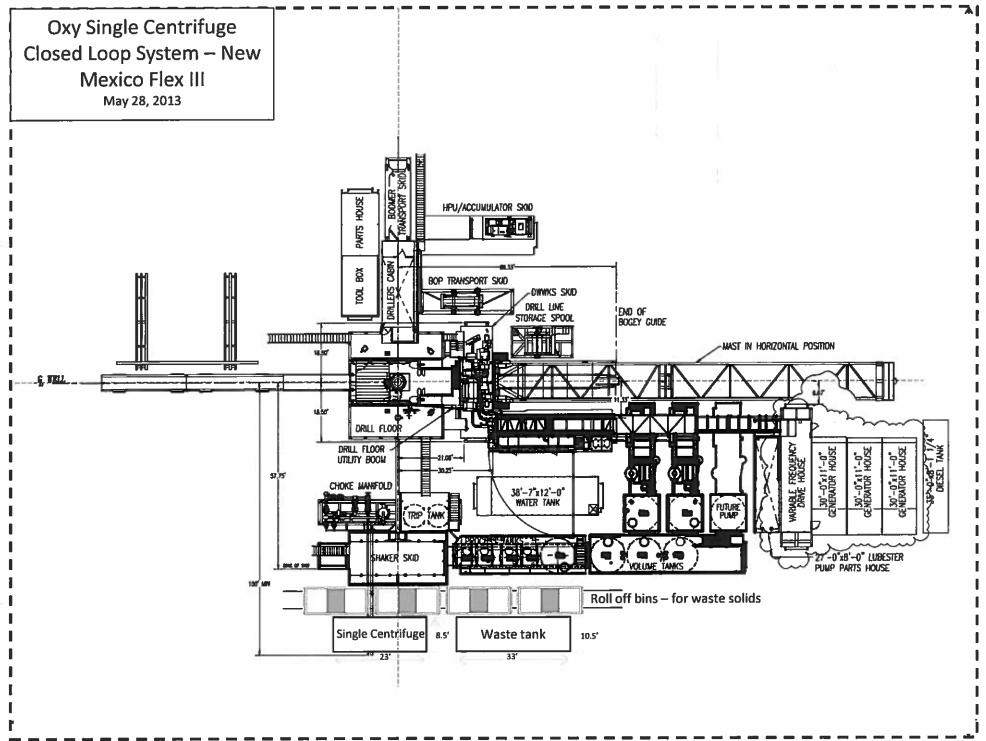
Remain calm – think!

- 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.

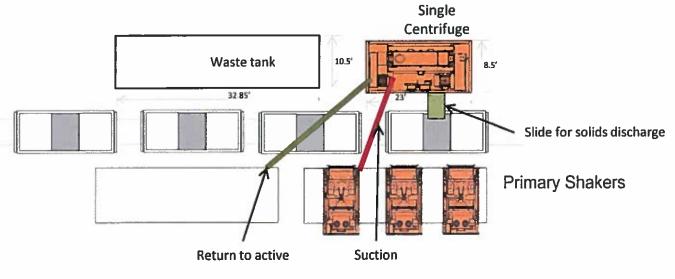
Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration.

Revised CM 6/27/2012

Received by OCD: 12/31/2024 8:10:43 AM Page 90 of 126 -360'-NORTH 1. STERLING SILVER MDP1 33-4 FED COM 71H 2. STERLING SILVER MDP1 33-4 FED COM 72H
3. STERLING SILVER MDP1 33-4 FED COM 73H -220' **—100'**— ACCESS ROAD **REVISION BLOCK** ENGINEERING RECORD PAD 2803 RIG DIAGRAM V-DOOR EAST STERLING SILVER MPD1 33-4 FED COM 71H, 72H, 73H DESCRIPTION APP DATE NO. DATE CHK BY SECTION 33, TOWNSHIP 23S, RANGE 31E LEA COUNTY, NEW MEXICO KJS 2/23/2023 Released to Imaging: 1/25/2025 9:29:15 AM











Oxy Single Centrifuge Closed Loop System – New Mexico Flex III May 28, 2013



SITE PLAN

SNDDNS T23S R31E 3304 SEC. 28 & 33 TWP. 23-S RGE. 31-E

SURVEY: N.M.P.M. COUNTY: LEA

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M.

FAA PERMIT NEEDED: NO



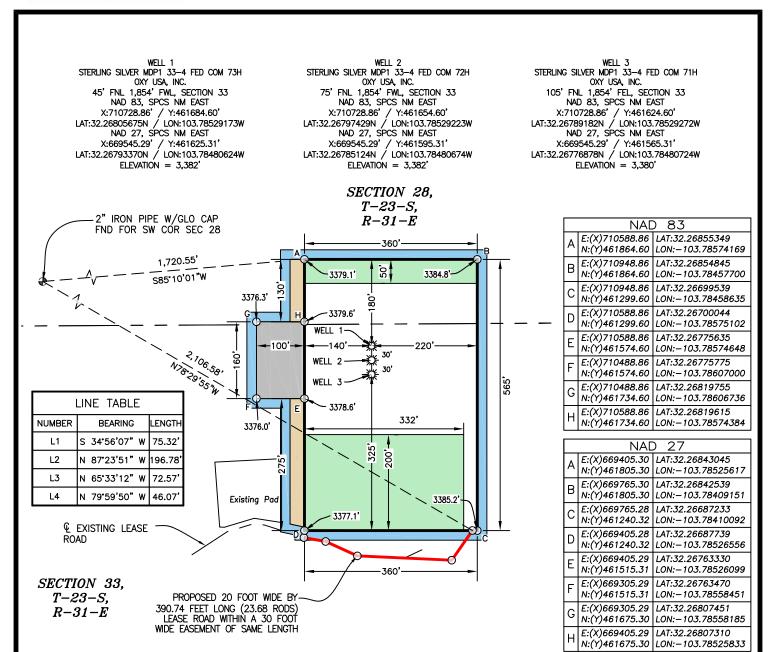
20' DISTURBANCE AREA





Page 93 of 126

100 200 SCALE: 1"



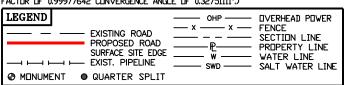
DAVID W. MYERS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 11403, DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL survey in the ground upon which it is based were perturned by Me ir under My direct supervision; that I am responsible for This survey; that this survey meets the minimum standards for surveying in New Mexico; and that it is true and correct to the Best of My knowledge and Belief. I futher certify that this survey is not a land division or subdivision as defined in the New Mexico subdivision act and that this instrument is an easement survey plat crossing an existing tract or tracts

BASIS OF BEARING

10/24/2022

DATE SURVEYED DATE DRAWN

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99977642 CONVERGENCE ANGLE OF 0.32751111*.)



W. M ME DECEMBER 1, 2022 SSIONAL SN

PREPARED BY: -SQUARED GLOBAL, 510 TRENTON STREET, WEST MONROE, LA 71291 318-323-6900 OFFICE JOB No. OXY_0003_IS SHEET 1 OF 1

DATE

BY

RFV.

DAVID W. MYERS 11403

11/29/2022



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

NAME STEPHEN JANACEK

Email address:

Operator Certification Data Report 12/23/2024

Signed on: 08/26/2024

Operator

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

MAINE: OTETTIEN OAT	MOLIN	Oigned on: 00/20/2024
Title: Regulatory Engir	neer	
Street Address: 5 Gre	eenway Plaza, Suite 110	
City: Houston	State: TX	Zip: 77046
Phone: (713)497-2417	,	
Email address: stephe	en_janacek@oxy.com	
Field	d	
Representative Name	:	
Street Address:		
City:	State:	Zip:
Phone:		



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

Application Data

TED

Submission Date: 09/13/2023

Zip: 93276-1002

Highlighted data reflects the most recent changes

Show Final Text

Operator Name: OXY USA INCORPORATED

Well Name: STERLING SILVER MDP1 33-4 FED COM

Well Type: OIL WELL

APD ID: 10400056907

Well Work Type: Drill

Well Number: 71H

Section 1 - General

BLM Office: Carlsbad User: STEPHEN JANACEK Title: Regulatory Engineer

Federal/Indian APD: FED Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM45236 Lease Acres:

Surface access agreement in place? Allotted? Reservation:

Agreement in place? YES Federal or Indian agreement: FEDERAL

Agreement number: NMNM139924

Agreement name: STERLING SILVER

Keep application confidential? Y

Permitting Agent? NO APD Operator: OXY USA INCORPORATED

Operator letter of

Operator Info

Operator Organization Name: OXY USA INCORPORATED

Operator Address: P.O. BOX 1002

Operator PO Box:

Operator City: TUPMAN State: CA

Operator Phone: (661)763-6046

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? EXISTING Master Development Plan name: Sand Dunes Area

Well in Master SUPO? Master SUPO name:

Well in Master Drilling Plan? Master Drilling Plan name:

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H Well API Number:

Field/Pool or Exploratory? Field and Pool Field Name: INGLE WELLS Pool Name: BONE SPRING

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Is the proposed well in an area containing other mineral resources? USEABLE WATER, NATURAL GAS, OIL, POTASH

Is the proposed well in a Helium production area? N Use Existing Well Pad? N New surface disturbance?

Type of Well Pad: MULTIPLE WELL Multiple Well Pad Name: Number: 3304

SNDDNS

Well Class: HORIZONTAL Number of Legs: 1

Well Work Type: Drill
Well Type: OIL WELL
Describe Well Type:
Well sub-Type: INFILL
Describe sub-type:

Distance to town: Distance to nearest well: 30 FT Distance to lease line: 105 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: STERLINGSILVERMDP133_4FEDCOM71H_C102_20230913111251.pdf

STERLINGSILVERMDP133_4FEDCOM71H_SitePlan_20230913111257.pdf

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NAVD88

Survey number: Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	105	FNL	185 4	FW L	23S	31E	33	Aliquot NENW	32.26789 18	- 103.7852 927	EDD Y	1	NEW MEXI CO	F	NMNM 45236	338 0	0	0	N
KOP Leg #1	300	FSL	440	FW L	23S	31E	28	Aliquot SWS W	32.26900 39	- 103.7898 686	EDD Y		NEW MEXI CO	F	NMNM 40659	- 648 5	100 72	986 5	Υ

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP	100	FNL	440	FW	23S	31E	33	Aliquot	32.26790		EDD	NEW		F	NMNM	-	110	104	Υ
Leg				L				NWN	44	103.7898 668	Υ	MEXI CO	MEXI CO		45236	710 6	43	86	
#1-1								W		000			CO			O			
PPP	0	FNL	430	FW	24S	31E	4	Lot	32.25366		EDD	1		F	NMNM		162	105	Υ
Leg				L				4	05	103.7898 813	Y	MEXI	MEXI CO	1	104730	714	25	21	
#1-2										013		CO	3						
EXIT	100	FSL	440	FW	24S	31E	4	Aliquot	32.23938		EDD		14-74	F	NMNM	-	214	105	Υ
Leg				L				SWS	91	103.7898	Υ		MEXI		104730	717	18	55	
#1								W		958		СО	СО			5			
BHL	20	FSL	440	FW	24S	31E	4	Aliquot	32.23916	-	EDD	NEW	14-74	F	NMNM	-	214	105	Υ
Leg				L				sws	92	103.7898	Y	MEXI	MEXI		104730	717	98	56	
#1								W		965		СО	СО			6			

Highlighted data reflects the most

recent changes



APD ID: 10400056907

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

Drilling Plan Data Report

Submission Date: 09/13/2023

Operator Name: OXY USA INCORPORATED

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Well Type: OIL WELL Well Work Type: Drill Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14663833	RUSTLER	,		ANHYDRITE, DOLOMITE, SHALE	USEABLE WATER	N	
14663834	SALADO	2595	785	785	ANHYDRITE, DOLOMITE, HALITE, SHALE	OTHER : SALT	N
14663831	CASTILE	652	2728	2728	ANHYDRITE	OTHER : salt	N
14663835	DELAWARE	-827	4207	4207	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	N
14663836	BELL CANYON	-849	4229	4229	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER, USEABLE WATER : BRINE	N
14663837	CHERRY CANYON	-1726	5106	5106	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	N
14663838	BRUSHY CANYON	-3024	6404	6433	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	N
14663832	BONE SPRING	-4656	8036	8149	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	N
14663843	BONE SPRING 1ST	-5708	9088	9255	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	N
14663844	BONE SPRING 2ND	-6367	9747	9948	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M Rating Depth: 10557

Equipment: 13-5/8" 5M Annular, 10M Blind Ram, 10M Double Ram

Requesting Variance? YES

Variance request: Request for the use of a flexible choke line from the BOP to Choke Manifold.

Testing Procedure: 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. OXY requests permission to adjust the BOP

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. See the attached BOP Break Testing variance.

Choke Diagram Attachment:

STERLINGSILVERMDP133_4FEDCOM71H_ChkManifolds_20230913112733.pdf

BOP Diagram Attachment:

STERLINGSILVERMDP133_4FEDCOM71H_BOP_20230913112743.pdf STERLINGSILVERMDP133_4FEDCOM71H_13inADAPT_4S_10x15_20230913112747.pdf STERLINGSILVERMDP133_4FEDCOM71H_FlexHoseCert_20240826155426.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	495	0	495	3380	2885	495	J-55	54.5	BUTT	1.12 5	1.2	BUOY	1.4	BUOY	1.4
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4307	0	4307	3476	-927	4307	HCL -80	40	BUTT	1.12 5	1.2	BUOY	1.4	BUOY	1.4
3	INTERMED IATE	8.75	7.625	NEW	API	N	0	9973	0	9766	3476	-6386	9973	HCL -80			1.12 5	1.2	BUOY	1.4	BUOY	1.4
4	PRODUCTI ON	6.75	5.5	NEW	API	N	0	21498	0	10557	3380	-7177	21498	P- 110			1.12 5	1.2	BUOY	1.4	BUOY	1.4

Casing Attachments

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Casino	Attachments	3
Casilia	1 Allacilliciti	,

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

STERLINGSILVERMDP133_4FEDCOM71H_CsgCriteria_20230913113257.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

STERLINGSILVERMDP133_4FEDCOM71H_CsgCriteria_20230913112931.pdf

Casing ID: 3

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

STERLINGSILVERMDP133_4FEDCOM71H_CsgCriteria_20230913113007.pdf

STERLINGSILVERMDP133_4FEDCOM71H_TNSWedge425_7.625in_26.40ppf_L80IC_20230913113029.pdf

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Casing Attachments

Casing ID: 4

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $STERLINGSILVERMDP133_4FEDCOM71H_CsgCriteria_20230913113330.pdf$

STERLINGSILVERMDP133_4FEDCOM71H_TNSWedge461_5.500in_20.00ppf_P110CY_20230913113334.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Тор МБ	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	495	517	1.33	14.8	687	100	CIC	Accelerator

INTERMEDIATE	Lead		0	3807	1003	1.73	12.9	1735	50	pozzolan C	retarder
INTERMEDIATE	Tail		3807	4307	141	1.33	14.8	187	20	class c	accelerator
INTERMEDIATE	Lead	2	0	6683	448	1.71	13.3	766	25	class c	accelerator

INTERMEDIATE	Lead	2	6683	9973	207	1.68	13.2	348	5	Class c	retarder, dispersant

	_									
PRODUCTION	Lead	9473	2149	681	1.84	13.3	1253	20	class c	retarder,
			8							

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements. 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.

Describe the mud monitoring system utilized: PVT/MD Totco/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
495	4307	OTHER: Saturated Brine- Based or Oil- Based Mud	8	10							
4307	9973	OTHER: Water- Based and/or Oil-Based Mud	8	10							
0	495	WATER-BASED MUD	8.6	8.8							
9973	2149 8	OTHER : water based and or oil based	9.5	12.5							

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

GR from TD to surface (horizontal well vertical portion of hole). Mud Log from intermediate shoe to TD. Prod string CBL to be ran by completions.

List of open and cased hole logs run in the well:

GAMMA RAY LOG,MUD LOG/GEOLOGIC LITHOLOGY LOG,MUD LOG/GEOLOGICAL LITHOLOGY LOG,DIRECTIONAL SURVEY,CEMENT BOND LOG.

Coring operation description for the well:

No coring is planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6863 Anticipated Surface Pressure: 4540

Anticipated Bottom Hole Temperature(F): 165

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

STERLINGSILVERMDP133_4FEDCOM71H_H2S1_20230913121132.pdf STERLINGSILVERMDP133_4FEDCOM71H_H2S2_20230913121136.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

STERLINGSILVERMDP133_4FEDCOM71H_DirecPlan_20230913121226.pdf STERLINGSILVERMDP133_4FEDCOM71H_DirectPlot_20230913121231.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

STERLINGSILVERMDP133_4FEDCOM71H_SpudRigData_20230913121256.pdf STERLINGSILVERMDP133_4FEDCOM71H_DrillPlan_10dayLtr_20240826191057.pdf STERLINGSILVERMDP133_4FEDCOM71H_2024_KPLA_Addendum_WellboreSchematics_20240826191102.pdf

Other Variance attachment:

STERLINGSILVERMDP133_4FEDCOM71H_5MAnnBOPVariance_20230913121301.pdf STERLINGSILVERMDP133_4FEDCOM71H_BOPBreakTestingVariance_20230913121306.pdf STERLINGSILVERMDP133_4FEDCOM71H_BradenheadCBLVariance_20230913121309.pdf STERLINGSILVERMDP133_4FEDCOM71H_OfflineCementVariance_20230913121319.pdf

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

 $STERLING SILVERMDP133_4FEDCOM71H_ProdCsgAnnClearance Variance_20230913121324.pdf$



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

SUPO Data Repor

APD ID: 10400056907

Submission Date: 09/13/2023

Operator Name: OXY USA INCORPORATED

Well Name: STERLING SILVER MDP1 33-4 FED COM

Well Type: OIL WELL

Well Number: 71H

Well Work Type: Drill

Highlighted data reflects the most recent changes Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

STERLINGSILVERMDP133_4FEDCOM71H_ExistRoads_20230913121345.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

STERLINGSILVERMDP133_4FEDCOM71H_NewRoads_20230913121411.pdf

New road type: LOCAL

Length: 2705

Feet

Width (ft.): 30

Max slope (%): 0

Max grade (%): 0

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

New road access erosion control: Watershed Diversion every 200' if needed.

New road access plan or profile prepared? N

New road access plan

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Access road engineering design? N

Access road engineering design

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 0

Offsite topsoil source description:

Onsite topsoil removal process: If available

Access other construction information: None - Turnouts every 1000', as needed.

Access miscellaneous information:

Number of access turnouts: Access turnout map:

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: Watershed Diversion every 200' if needed.

Road Drainage Control Structures (DCS) description: Watershed Diversion every 200' if needed.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

STERLINGSILVERMDP133_4FEDCOM71H_ExistWells_20230913121502.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: 20435.35' GAS LIFT/BULKLINES - 2943.06' ELEC/FIBER - 19746.53' FLOWLINES -

1484.12' WATER REROUTE **Production Facilities map:**

STERLINGSILVERMDP133_4FEDCOM71H_LeaseFacilityInfo_20230913121526.pdf

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: GW WELL

Water source use type: SURFACE CASING

INTERMEDIATE/PRODUCTION

CASING

OTHER Describe use type: Drilling

Source latitude: Source longitude:

Source datum:

Water source permit type: WATER WELL

Water source transport method: TRUCKING

PIPELINE

Source land ownership: COMMERCIAL

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 2000 Source volume (acre-feet): 0.25778618

Source volume (gal): 84000

Water source and transportation

SterlingSilverMDP1_33_4_FedCom23H_MesqWtrSrc_20200506154854.pdf SterlingSilverMDP1_33_4_FedCom23H_GRRWtrSrc_20200506154855.pdf Water_Caliche_Source_Map_Irdium___Sterling_Silver_20240826191238.pdf

Water source comments: This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations (Gregory Rockhouse, Mesquite) in the area and will be hauled to location by transport truck using existing and proposed roads.

New water well? N

New Water Well Info

Well latitude: Well Longitude: Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft): Est thickness of aquifer:

Aquifer comments:

Aguifer documentation:

Well depth (ft): Well casing type:

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Well casing outside diameter (in.): Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

Casing length (ft.): Casing top depth (ft.):

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Primary - All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM/State/Fee approved pit or from prevailing deposits found on the location. Will use BLM recommended extra caliche from other locations close by for roads, if available. Secondary - The secondary way of obtaining caliche to build locations and roads will be by turning over the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cubic yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel: a. The top 6 of topsoil is pushed off and stockpiled along the side of the location. b. An approximate 120 X 120 area is used within the proposed well site to remove caliche. c. Subsoil is removed and piled alongside the 120 X 120 within the pad site. d. When caliche is found, material will be stockpiled within the pad site to build the location and road. e. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road. f. Once the well is drilled the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad. Caliche will be provided from a pit. Water will be provided from a frac pond. See the attached map.

Construction Materials source location

Water Caliche Source Map Irdium Sterling Silver 20240826191300.pdf

Section 7 - Methods for Handling

Waste type: DRILLING

Waste content description: Water-Based Cuttings, Water-Based Mud, Oil-Based Cuttings, Oil-Based Mud, Produced Water Methods of Handling Waste Material: a. A closed loop system will be utilized consisting of above ground steel tanks and hauloff bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility. Solids-CRI, Liquids-Laguna b. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill. c. The supplier, including broken sacks, will pickup slats remaining after completion of well. d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete. e. Disposal of fluids to be transported will be by the following companies. TFH Ltd, Laguna SWD Facility

Amount of waste: 1635 barrels

Waste disposal frequency: Daily

Safe containment description: Haul-Off Bins

Safe containment attachment:

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: An approved facility that can process drill cuttings, drill fluids, flowback water, produced water, contaminated soils, and other non-hazardous wastes.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility.

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Well Number: 71H Well Name: STERLING SILVER MDP1 33-4 FED COM

Section 9 - Well Site

Well Site Layout Diagram:

STERLINGSILVERMDP133_4FEDCOM71H_ClosedLoop_20230913121720.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: SNDDNS

Multiple Well Pad Number: 3304

Recontouring

STERLINGSILVERMDP133_4FEDCOM71H_CutFill_20230913121731.pdf STERLINGSILVERMDP133 4FEDCOM71H SitePlan 20230913121736.pdf

Drainage/Erosion control construction: Reclamation to be wind rowed as needed to control erosion

Drainage/Erosion control reclamation: Reclamation to be wind rowed as needed to control erosion

Well pad proposed disturbance

(acres): 4.67

Road proposed disturbance (acres):

Powerline proposed disturbance

(acres): 2.03

Pipeline proposed disturbance

(acres): 28.7

Other proposed disturbance (acres):

Disturbance Comments: See Below

0.37

37.62999999999995

Total proposed disturbance:

Well pad interim reclamation (acres):

(acres): 0.2

Road interim reclamation (acres): 0.62 Road long term disturbance (acres):

1.24

Powerline interim reclamation (acres): Powerline long term disturbance

2.03

Pipeline interim reclamation (acres):

19.13

Other interim reclamation (acres): 0

Pipeline long term disturbance

(acres): 9.57

(acres): 0

Other long term disturbance (acres):

Well pad long term disturbance

0.37

Total interim reclamation: 26.25 Total long term disturbance:

11.37999999999999

Reconstruction method: If the well is deemed commercially productive, caliche from the areas of the pad site not required for operations will be reclaimed. The original topsoil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original topsoil will again be returned to the pad and contoured, as close as possible, to the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

Topsoil redistribution: The original topsoil will be returned to the area of the drill pad not necessary to operate the well.

Soil treatment: To be determined by the BLM.

Existing Vegetation at the well pad: To be determined by the BLM at Onsite.

Existing Vegetation at the well pad

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Existing Vegetation Community at the road: To be determined by the BLM at Onsite.

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: To be determined by the BLM at Onsite.

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: To be determined by the BLM at Onsite.

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Type

Seed Table

Seed Summary

Pounds/Acre

Total pounds/Acre:

Seed reclamation

Operator Contact/Responsible Official

First Name: Mike Last Name: Wilson

Phone: (575)631-6618 Email: Michael_Wilson@oxy.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Existing invasive species treatment

Weed treatment plan description: To be determined by the BLM.

Weed treatment plan

Monitoring plan description: To be determined by the BLM.

Monitoring plan

Success standards: To be determined by the BLM.

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

Operator Name: OXY USA INCORPORATED Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H **BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office:** Other Local Office: **USFS** Region: **USFS Forest/Grassland: USFS** Ranger District: Disturbance type: OTHER Describe: Electric Line Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: **BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office:** Other Local Office: **USFS** Region:

USFS Ranger District:

USFS Forest/Grassland:

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other

Right of Way needed? Y

Use APD as ROW? Y

ROW Type(s): 281001 ROW - ROADS,285003 ROW - POWER TRANS,288100 ROW - O&G Pipeline,289001 ROW - O&G Well Pad

ROW

SUPO Additional Information: Permian Basin MOA - To be submitted after APD acceptance. GIS Shapefiles available for BLM download from shared FTP site after APD submittal. **Use a previously conducted onsite?** N

Previous Onsite information:

Other SUPO

STERLINGSILVERMDP133_4FEDCOM71H_StaekForm_20230913121950.pdf



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT PWD Data Report

PWD disturbance (acres):

APD ID: 10400056907 **Submission Date:** 09/13/2023

Operator Name: OXY USA INCORPORATED

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Well Type: OIL WELL Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Released to Imaging: 1/25/2025 9:29:15 AM

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Lined pit Monitor description:

Lined pit Monitor

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

State

Unlined Produced Water Pit Estimated

Unlined pit: do you have a reclamation bond for the pit?

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: Injection well name:

Assigned injection well API number? Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Released to Imaging: 1/25/2025 9:29:15 AM

Well Name: STERLING SILVER MDP1 33-4 FED COM Well Number: 71H

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements



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

Bond Info Data

APD ID: 10400056907

Submission Date: 09/13/2023

Highlighted data reflects the most recent changes

Show Final Text

Operator Name: OXY USA INCORPORATED

Well Name: STERLING SILVER MDP1 33-4 FED COM

Well Type: OIL WELL

Well Work Type: Drill

Well Number: 71H

Bond

Federal/Indian APD: FED

BLM Bond number: ESB000226

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond

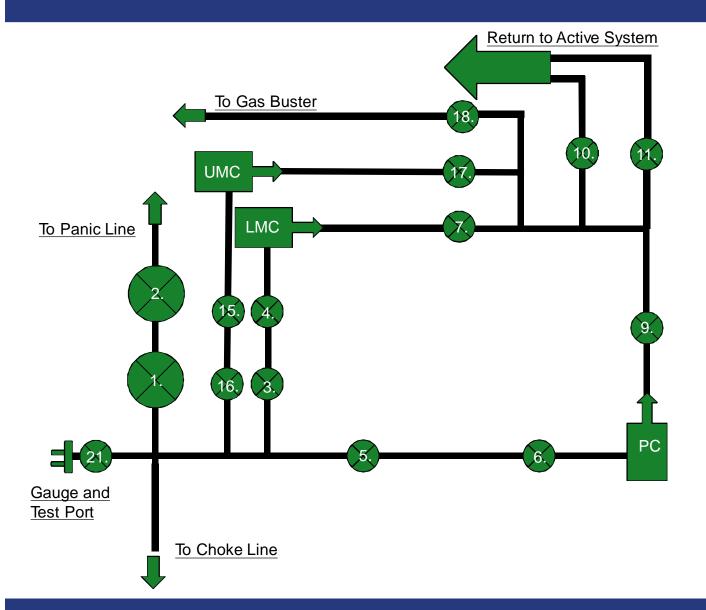
Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information

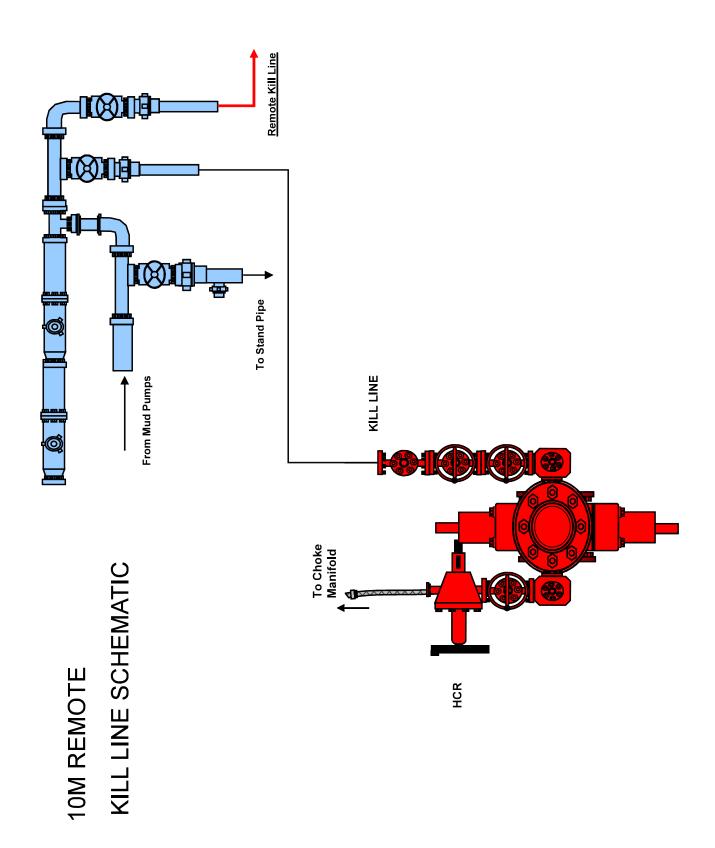
10M Choke Panel

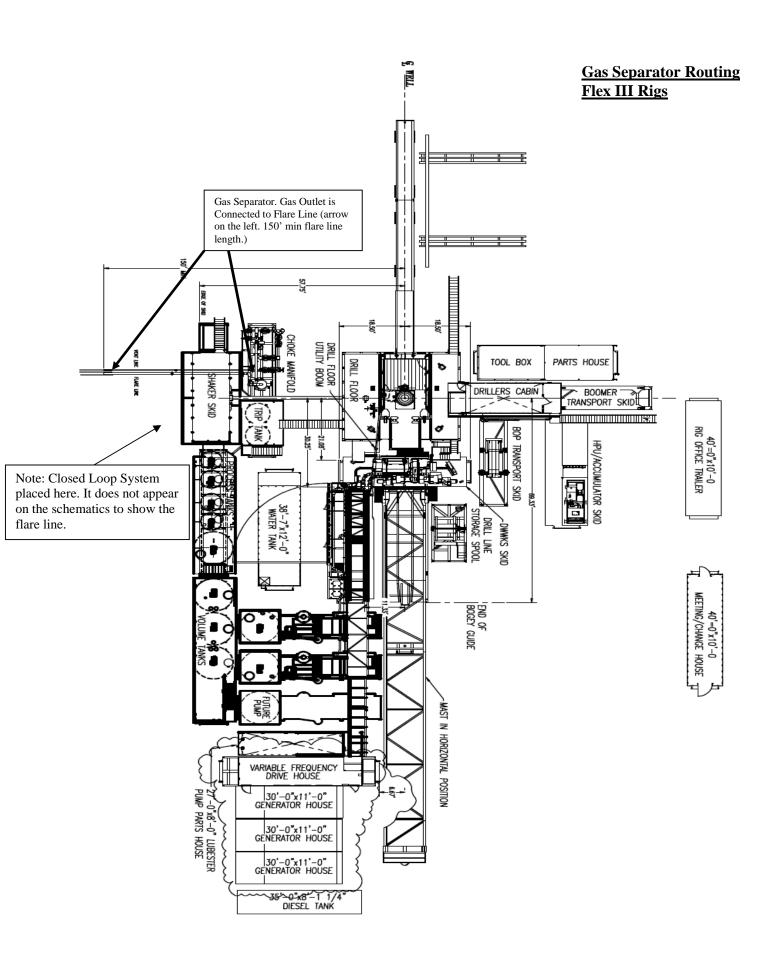


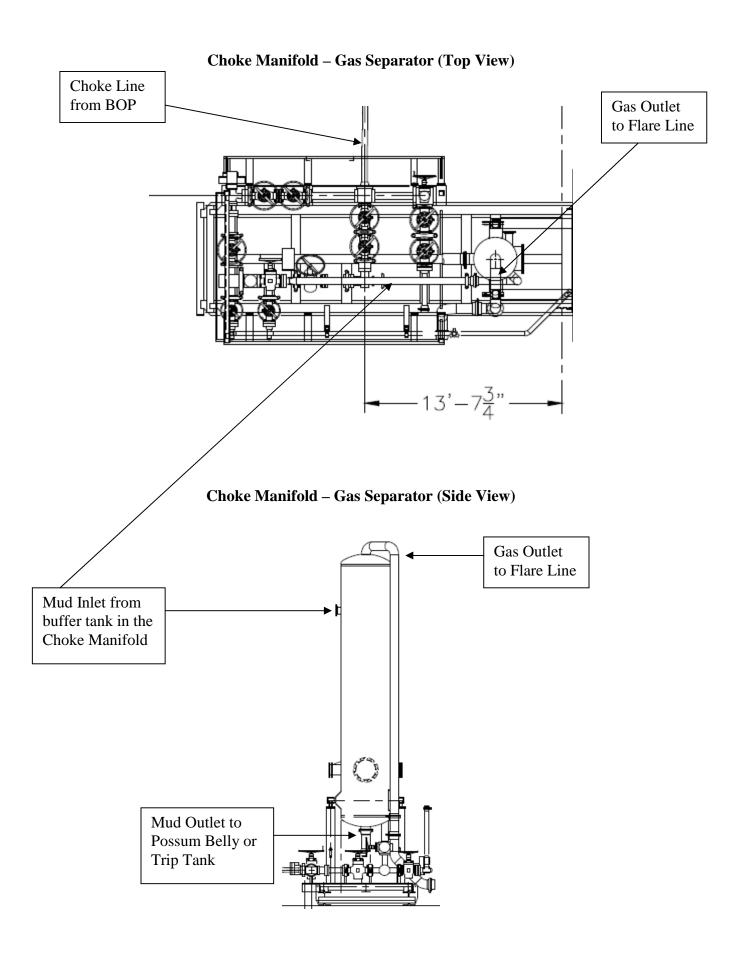
- 1. Choke Manifold Valve
- 2. Choke Manifold Valve
- 3. Choke Manifold Valve
- 4. Choke Manifold Valve
- 5. Choke Manifold Valve
- 6. Choke Manifold Valve
- 7. Choke Manifold Valve
- 8. PC Power Choke
- 9. Choke Manifold Valve
- 10. Choke Manifold Valve
- 11. Choke Manifold Valve
- 12. LMC Lower Manual Choke
- 13. UMC Upper manual choke
- 15. Choke Manifold Valve
- 16. Choke Manifold Valve
- 17. Choke Manifold Valve
- 18. Choke Manifold Valve
- 21. Vertical Choke Manifold Valve

*All Valves 3" minimum

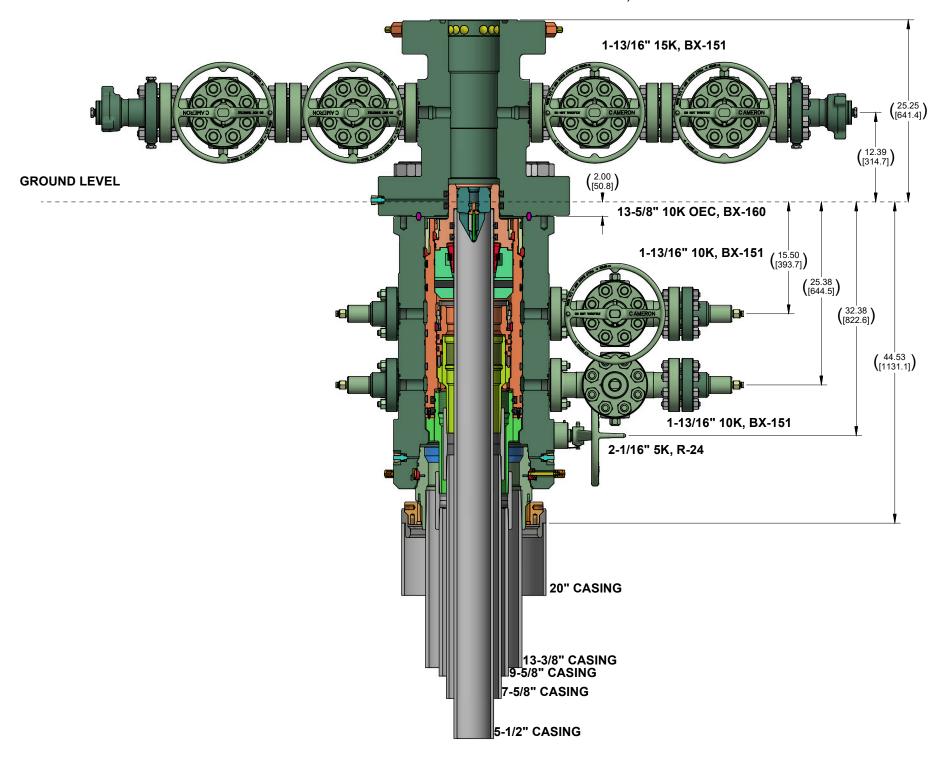




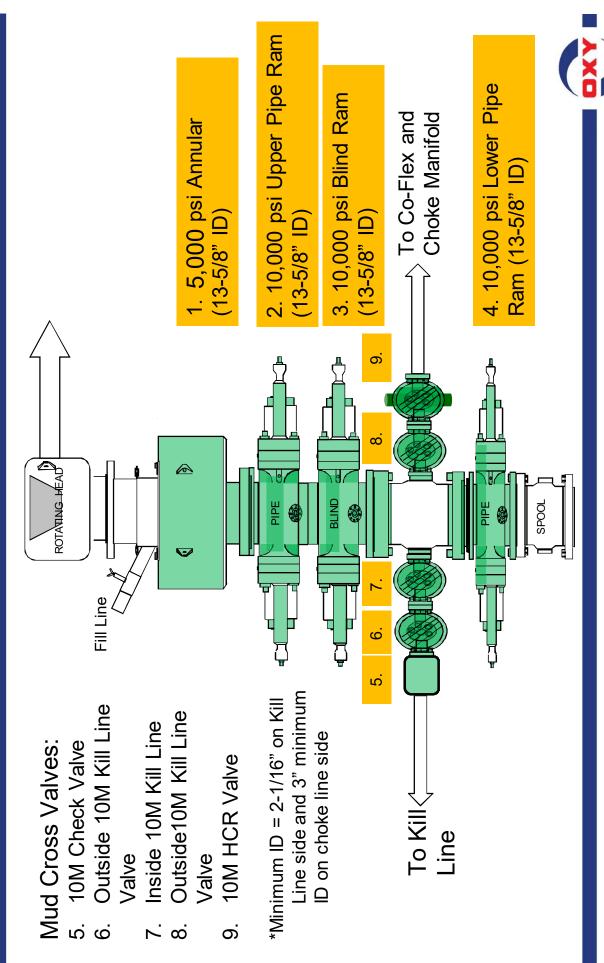




7-1/16" 15K, BX-156



5/10M BOP Stack



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

Action 415993

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	415993
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
guthries	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/31/2024
guthries	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/31/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	1/25/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/25/2025
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.	1/25/2025
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.	1/25/2025
ward.rikala	Operator must comply with all of the R-111-Q requirements.	1/25/2025