Form 3160-3 (June 2015)				FORM A OMB No Expires: Jai	. 1004-0	137
UNITED STATES DEPARTMENT OF THE II BUREAU OF LAND MANA	NTERIOR			5. Lease Serial No. NMNM128362		, 2010
APPLICATION FOR PERMIT TO D	6. If Indian, Allotee	or Tribe	Name			
	EENTER			7. If Unit or CA Agr NMNM1058259		Name and No.
	ther	—		8. Lease Name and V	Well No.	
1c. Type of Completion: Hydraulic Fracturing Si	ngle Zone	✔ Multiple Zone		DR PI UNIT		
				102H		
2. Name of Operator				9. API Well No.		
OXY USA INCORPORATED				30-025	-5421	1
3a. Address P.O. BOX 1002, TUPMAN, CA 93276-1002	3b. Phone 1 (661) 763-	No. (include area cod 6046	le)	10. Field and Pool, of BILBREY BASIN/B	1	5
4. Location of Well (<i>Report location clearly and in accordance v</i>	with any State	e requirements.*)		11. Sec., T. R. M. or		I Survey or Area
At surface SESW / 346 FSL / 1815 FWL / LAT 32.3852	295 / LONG	-103.699461		SEC 17/T22S/R32	E/NMP	
At proposed prod. zone NENW / 20 FNL / 1990 FWL / LA	AT 32.41332	21 / LONG -103.698	3933			
14. Distance in miles and direction from nearest town or post offi	ice*			12. County or Parish LEA	l	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	ocation to nearest 540 leet oroperty or lease line, ft. 64			 7. Spacing Unit dedicated to this well 40.0 		
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet 	19. Propose 11180 feet	ed Depth t / 21449 feet		BLM/BIA Bond No. in file D: ESB000226		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3689 feet	22. Approx 05/01/202	Approximate date work will start* 23. Estimate 245 days			on	
	24. Atta	chments		1		
The following, completed in accordance with the requirements of (as applicable)	f Onshore Oi	l and Gas Order No.	l, and the H	Iydraulic Fracturing ru	ale per 4	3 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover the Item 20 above).	e operation	as unless covered by an	existing	bond on file (see
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office				mation and/or plans as	may be r	requested by the
25. Signature (Electronic Submission)		Name (Printed/Typed) MELISSA GUIDRY / Ph: (713) 366-5716			Date 05/13/2	2024
Title Advisor Regulatory Sr.	·					
Approved by (Signature) (Electronic Submission)		e (Printed/Typed) ISTOPHER WALLS	6 / Ph: (57	5) 234-2234	Date 12/27/2	2024
Title Petroleum Engineer	Offic Carls	^e bad Field Office				
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds legal	or equitable title to the	hose rights	in the subject lease wh	nich wou	ld entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of					ny depai	tment or agency



(Continued on page 2)

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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: SESW / 346 FSL / 1815 FWL / TWSP: 22S / RANGE: 32E / SECTION: 17 / LAT: 32.385295 / LONG: -103.698461 (TVD: 0 feet, MD: 0 feet) PPP: SESW / 100 FSL / 1990 FWL / TWSP: 22S / RANGE: 32E / SECTION: 17 / LAT: 32.384622 / LONG: -103.698895 (TVD: 11180 feet, MD: 11534 feet) PPP: SESW / 0 FSL / 1989 FWL / TWSP: 22S / RANGE: 32E / SECTION: 8 / LAT: 32.398864 / LONG: -103.698913 (TVD: 11180 feet, MD: 16189 feet) PPP: SENW / 2640 FSL / 1989 FWL / TWSP: 22S / RANGE: 32E / SECTION: 8 / LAT: 32.406118 / LONG: -103.698923 (TVD: 11180 feet, MD: 20228 feet) BHL: NENW / 20 FNL / 1990 FWL / TWSP: 22S / RANGE: 32E / SECTION: 8 / LAT: 32.413321 / LONG: -103.698933 (TVD: 11180 feet, MD: 21449 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

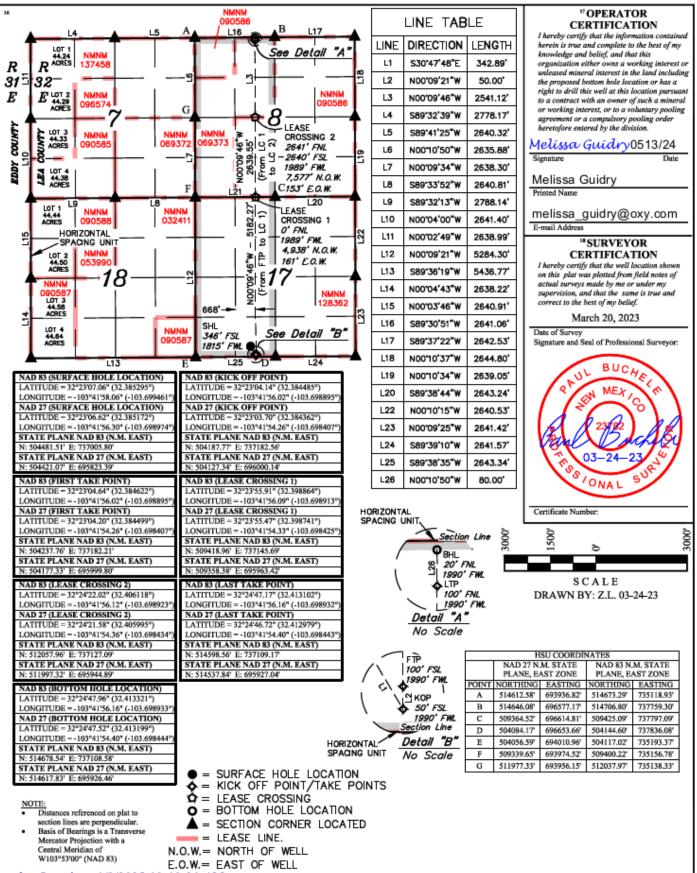
A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North 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>ved b</u> <u>C-1</u>		/7/2025 1:1		0.		al Resources Departm	nent			Revised July 9, 2024
	it Electronica			OIL CONSERVATION DIVISIO					☑ Initial St	ıbmittal
		<u>,</u>						Submittal Type:	□ Amende	d Report
								rype.	□ As Drille	ed
					WELL LOCAT	TION INFORMATION				
		25-54211	Pool Code 97366			Pool Name BILBRE	Y BASIN	I; BON		
Proper	rty Code 33	36643	Property N	Name DF	r pi uni	Г			Well Numb 102H	er
OGRI 16696			Operator N	Name O	(Y USA	INC.			Ground Lev 3688.9'	el Elevation
Surfac	ce Owner: 🗆	State 🗆 Fee 🗆	🛛 Tribal 🗹 Fe	deral		Mineral Owner:	State 🗆 Fee 🗆	Tribal 🗹	Federal	
					Surf	ace Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
Ν	17	22S	32E		346' FS	L 1815' FWL	. 32.385	295 -	103.699461	LEA
			1	1		Hole Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
C	8	22S	32E		20' FNL	_ 1990' FWL	. 32.413	321 -	103.698933	LEA
Dedic	ated Acres	Infill or Def	ining Well	Definin	g Well API	Overlapping Spacing	Unit (Y/N)	Consolida	tion Code	
640		INFILL			30-025-4828		()			
Order	Numbers.			I		Well setbacks are under Common Ownership: Yes No				
					Kick O	ff Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County
Ν	17	22S	32E		50' FSL	_ 1990' FWL	32.384	485 -	103.698895	LEA
			1		First Ta	ake Point (FTP)	T			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W			Longitude	County
N	17	22S	32E		100' FS		. 32.384	022 -	103.698895	LEA
UL	Section	Township	Range	Lot	Last Ta Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
Ĉ	8	22S	32E	Lot	100' FN				-	•
0	U	220	UZL					102		
Unitiz	ed Area or A	rea of Uniform	Interest	Spacing	; Unit Type 🖬 Horiz	zontal 🗆 Vertical	Groun 3688.	d Floor Ele 9'	vation:	
OPER	ATOR CER	TIFICATIONS				SURVEYOR CERTIFI	CATIONS			
I hereb my kno organiz	ry certify that th wledge and be zation either ov	he information con lief, and, if the we wns a working inte	ll is a vertical o erest or unlease	r directional d mineral inte	erest in the land	I hereby certify that the w surveys made by me or una my belief.	ell location show		he same is true ar "SURVEYOR	nd correct to the best of
locatio interes	n pursuant to a	tary pooling agree	owner of a wor	king interest	us well at this or unleased mineral ng order heretofore				CERTIFICATIO I hereby certify that the well loca on this plat was plotted from field actual surveys made by me or und supervision, and that the same is correct to the best of my belief. March 20, 2023 Date of Survey	tion shown d notes of
consen in each	t of at least one tract (in the to	e lessee or owner	of a working int ation) in which	erest or unlea any part of th	n has received the ased mineral interest he well's completed n the division.				Signature and Seal of Professional	Surveyor:
Me	líssa	Guídry	01/07/2	5					1 03-24-23	<u> </u>
Signatu	ire		Date			Signature and Seal of Profess	sional Surveyor		SUSTONAL SU	<u>~</u>
Melis	sa Guidry						r <u>—</u>		Certificate Number:	
Printed	Name					Certificate Number	Date of Survey		•	
	ssa_guidi Address	ry@oxy.cor	n				March 2	0, 202	3	

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.

Received by OCD: 1/7/2025 1:11:31 PM ACREAGE DEDICATION PLATS

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.



Released to Imaging: 1/8/2025 10:10:21 AM

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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								
	Ν	ATURAL G	AS MANA(GEMENT P	LAN			
This Natural Gas Manag	gement Plan m	ust be submitted w	vith each Applicat	ion for Permit to I	Drill (A	PD) for a ne	ew or recompleted well	
			<u>1 – Plan Do</u> ffective May 25,					
I. Operator: OXY US	A INC.		OGRID: <u>16</u>	696		Date: _C	0 5/ 1 0/ 2 4	
II. Type: 🗹 Original 🛛	∃ Amendment	due to □ 19.15.27	2.9.D(6)(a) NMA	C 🗆 19.15.27.9.D((6)(b) N	MAC 🗆 Ot	her.	
If Other, please describe	e:							
III. Well(s): Provide the recompleted from a s					wells pr	oposed to b	e drilled or proposed to	
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		Anticipated Anticipated Gas MCF/D Produced Water BBL/D		
SEE ATTACHED								
	<u> </u>		I	1		[See 19.	15.27.9(D)(1) NMAC]	
V. Anticipated Schedu	le: Provide the	e following informa	ation for each new		vell or s	et of wells p	proposed to be drilled o	
IV. Central Delivery P V. Anticipated Schedu proposed to be recomple Well Name	le: Provide the	e following informa	ation for each new		L	et of wells p Initial Flo Back Da	ow First Production	
V. Anticipated Schedu proposed to be recomple	le: Provide the eted from a sin	e following informa gle well pad or con	ation for each new nnected to a centr TD Reached	al delivery point.	L	Initial Flo	ow First Production	

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<u>Section 2 – Enhanced Plan</u> EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature: Melíssa Guídry

Printed Name: Melissa Guidry

Title: Regulatory Advisor Sr.

E-mail Address: melissa_guidry@oxy.com

Date: 05/10/2024

Phone: 713-497-2481

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
DR PI UNIT 101H	PENDING	N-17-T22S-R32E	346 FSL 1785 FWL	1500	3,800	2000
DR PI UNIT 102H	PENDING	N-17-T22S-R32E	346 FSL 1815 FWL	1500	3,800	2000
DR PI UNIT 103H	PENDING	O-17-T22S-R32E	979 FSL 1495 FEL	1500	3,800	2000
DR PI UNIT 104H	PENDING	O-17-T22S-R32E	979 FSL 1465 FEL	1500	3,800	2000

V. Anticipated Schedule

Well Name	ΑΡΙ	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
DR PI UNIT 101H	PENDING	12/1/2025	1/15/2026	2/15/2026	3/1/2026	3/2/2026
DR PI UNIT 102H	PENDING	12/1/2025	1/15/2026	2/15/2026	3/1/2026	3/2/2026
DR PI UNIT 103H	PENDING	12/1/2025	1/15/2026	2/15/2026	3/1/2026	3/2/2026
DR PI UNIT 104H	PENDING	12/1/2025	1/15/2026	2/15/2026	3/1/2026	3/2/2026

Central Delivery Point Name: LOST TANK 18 CTB

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 Mark West ("MPLX") and is connected to MPLX high pressure gathering system located in Lea County, New Mexico. OXY USA INC. ("OXY") provides (periodically) to MPLX a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, OXY and MPLX have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at various processing plants located downstream of our facilities in 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 MPLX's 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 – Om lease

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

Compressed Natural Gas – On lease

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

NGL Removal – On lease

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



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

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.

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12/27/2024

Operator Certification Data Report

NAME: MELISSA GUIDRY		Signed on: 05/13/2024
Title: Advisor Regulatory Sr.		
Street Address: 5 GREENWAY PL	AZA SUITE 110	
City: HOUSTON	State: TX	Zip: 77026
Phone: (713)497-2481		
Email address: MELISSA_GUIDR	@OXY.COM	
Field		
Representative Name:		
Street Address:		
City: S	tate:	Zip:
Phone:		
Email address:		

AFMSS

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

APD ID: 10400098483

Operator Name: OXY USA INCORPORATED Well Name: DR PI UNIT

Section 1 - General

Well Type: OIL WELL

Submission Date: 05/13/2024

100

Highlighted data reflects the most recent changes Show Final Text

Application Data

APD ID: 10400098483	Tie to previous NOS? N	Submission Date: 05/13/2024
BLM Office: Carlsbad	User: MELISSA GUIDRY	Title: Advisor Regulatory Sr.
Federal/Indian APD: FED	Is the first lease penetrated fo	r production Federal or Indian? FED
Lease number: NMNM128362	Lease Acres:	
Surface access agreement in place?	Allotted? Res	ervation:
Agreement in place? YES	Federal or Indian agreement:	FEDERAL
Agreement number: NMNM105825907		
Agreement name:		
Keep application confidential? N		
Permitting Agent? NO	APD Operator: OXY USA INCO	PRPORATED
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? NO	Master Development Plan name	9:
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: DR PI UNIT	Well Number: 102H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: BILBREY BASIN	Pool Name: BONE SPRING, SOUTH

Zip: 93276-1002

12/27/2024

Well Number: 102H Well Work Type: Drill Operator Name: OXY USA INCORPORATED Well Name: DR PI UNIT

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

Is the propos	sed well in a Helium produ	ction area? N	Use Existing Well Pad?	Ν	New surface disturbance?	
Type of Well	pe of Well Pad: MULTIPLE WELL		Multiple Well Pad Name: LSTTNK T22SR32E		Number: 1703	
Well Class: ⊦	IORIZONTAL		Number of Legs: 1			
Well Work Ty	/pe: Drill					
Well Type: O	IL WELL					
Describe We	II Туре:					
Well sub-Typ	e: INFILL					
Describe sub	o-type:					
Distance to t	own:	Distance to ne	arest well: 30 FT	Distanc	e to lease line: 346 FT	
Reservoir we	ell spacing assigned acres	Measurement:	640 Acres			
Well plat:	I plat: DRPIUNIT102H_C102_20240513122720.pdf					
	DRPIUNIT102H_SITEPLA	N_20241024135	917.pdf			
Well work sta	art Date: 05/01/2025		Duration: 45 DAYS			

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Survey number:

Vertical Datum: NAVD88

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	346	FSL	181 5	FW L	22S	32E	17	Aliquot SESW	32.38529 5	- 103.6994 61	LEA	NEW MEXI CO		F		368 9	0	0	Ν
KOP Leg #1	50	FSL	199 0	FW L	22S	32E	17	Aliquot SESW	32.38448 5	- 103.6988 95	LEA	NEW MEXI CO		F	NMNM 128362	- 682 9	105 43	105 18	N

Well Name: DR PI UNIT

Well Number: 102H

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	FSL		FW	22S	32E	17	Aliquot	32.38462	-	LEA	NEW	NEW	F	NMNM	-	115	111	Y
Leg			0	L				SESW	2	103.6988 95		MEXI CO	MEXI CO		128362	749 1	34	80	
#1-1										55			00			•			
PPP	0	FSL	198	FW	22S	32E	8	Aliquot	32.39886		LEA	NEW	NEW	F	NMNM	-	161	111	Y
Leg			9	L				SESW	4	103.6989 13		MEXI CO	CO		90586	749 1	89	80	
#1-2										10		00	00			•			
PPP	264	FSL		FW	22S	32E	8	Aliquot	32.40611	-	LEA	NEW	NEW	F	NMNM	-	202	111	Y
Leg	0		9	L				SENW	8	103.6989 23		MEXI CO	MEXI CO		69373	749 1	28	80	
#1-3										20		00	0			1			
EXIT	100	FNL	199	FW	22S	32E		Aliquot	32.41310		LEA	NEW	NEW	F	NMNM	-	213	111	Y
Leg			0	L				NENW	2	103.6989		MEXI	MEXI CO		69373	749 1	69	80	
#1										32		со	0			1			
BHL	20	FNL		FW	22S	32E	8	Aliquot	32.41332		LEA	NEW		F	NMNM	-	214		N
Leg			0	L				NENW	1	103.6989 33		MEXI CO	MEXI CO		69373	749 1	49	80	
#1										33						1			



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

APD ID: 10400098483

Operator Name: OXY USA INCORPORATED

Well Name: DR PI UNIT

Well Type: OIL WELL

Submission Date: 05/13/2024

Well Number: 102H Well Work Type: Drill Highlighted data reflects the most recent changes

12/27/2024

Drilling Plan Data Report

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14741291	RUSTLER	3689	890	890	ANHYDRITE, DOLOMITE, SHALE	USEABLE WATER	N
14741292	SALADO	2497	1192	1192	ANHYDRITE, DOLOMITE, HALITE, SHALE	OTHER : SALT	N
14741293	CASTILE	886	2803	2803	ANHYDRITE	OTHER : SALT	N
14741294	DELAWARE	-1084	4773	4773	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
14741295	BELL CANYON	-1155	4844	4844	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
14741296	CHERRY CANYON	-1999	5688	5688	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
14741297	BRUSHY CANYON	-3197	6886	6886	SANDSTONE, SILTSTONE	OTHER : LOSSES	N
14741298	BONE SPRING	-4930	8619	8619	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
14741299	BONE SPRING 1ST	-6026	9715	9727	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
14741300	BONE SPRING 2ND	-6682	10371	10393	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 11180

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: DR PI UNIT

Well Number: 102H

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:

DRPIUNIT102H_ChkManifolds_20240513124934.pdf

BOP Diagram Attachment:

DRPIUNIT102H_BOP_20240513125015.pdf

DRPIUNIT102H_13inADAPT_4S_10x15_20240513125021.pdf

DRPIUNIT102H_FlexHoseCert_20240513125038.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	950	0	950	3689	2739	950	J-55	54.5	BUTT	1	1.1	BUOY	1.4	BUOY	1.4
2	l	9.87 5	7.625	NEW	API	N	0	10443	0	10418	3698	-6729	10443	HCL -80	26.4	BUTT	1	1.1	BUOY	1.4	BUOY	1.4
3	PRODUCTI ON	6.75	5.5	NEW	API	N	0	21449	0	11180	3698	-7491	21449	P- 110	-	OTHER - WEDGE 461	1	1.1	BUOY	1.4	BUOY	1.4

Casing Attachments

Casing ID: 1 String SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

DRPIUNIT102H_CsgCriteria_20240513125131.pdf

Operator Name: OXY USA INCORPORATED

Well Name: DR PI UNIT

Well Number: 102H

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Casing Attachments

Casing ID: 2 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Casing Design Assumptions and Worksheet(s).
DRPIUNIT102H_CsgCriteria_20240513125157.pdf
Casing ID: 3 String PRODUCTION
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
DRPIUNIT102H_CsgCriteria_20240513125222.pdf
DRPIUNIT102H_TNSWedge461_5.500in_20.00ppf_P110CY_20240513125230.pdf

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead	1	0	950	992	1.33	14.8	1319	100	Class C	Accelerator

INTERMEDIATE	Lead	2	0	7136	1277	1.71	13.3	2184	25	Class C	Accelerator

Well Name: DR PI UNIT

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead	1	7136	1044 3	452	1.65	13.2	746	5	Class H	Accelerator, Dispersant, Salt

PRODUCTION	Lead	1	9943	2144 9	652	1.84	13.3	1200	25	Class C	Retarder

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 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.

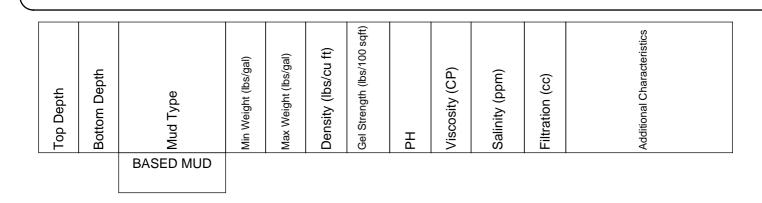
Describe the mud monitoring system utilized: PVT/MD Totco/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	950	WATER-BASED MUD	8.6	8.8							
950	1044 3	OTHER : SATURATED BRINE-BASED OR OIL-BASED MUD	8	10							
1044 3	2144 9	OTHER : WATER-BASED MUD OR OIL-	9.5	12.5							

Released to Imaging: 1/8/2025 10:10:21 AM

Well Name: DR PI UNIT



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 Bone Spring - TD CBL (production string) - to be ran by completions.

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

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

Coring operation description for the well:

No coring is planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7267

Anticipated Surface Pressure: 4807

Anticipated Bottom Hole Temperature(F): 170

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

DRPIUNIT102H_H2S1_20240513125909.pdf DRPIUNIT102H_H2S2_20240513125917.pdf

Well Name: DR PI UNIT

Well Number: 102H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

DRPIUNIT102H_DirectPlan_20240513125938.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

DRPIUNIT102H_DrillPlan_20240513125956.pdf DRPIUNIT102H_SpudRigData_20240513130005.pdf DRPIUNIT102H_DrillPlan4S_20240513130110.pdf DRPIUNIT102H_13inADAPT_4S_10x15_20240513130136.pdf DRPIUNIT102H_API_BTC_SC_10.750in_45.50ppf_L80IC_20240513130144.pdf

Other Variance attachment:

DRPIUNIT102H_5MAnnBOPVariance_20240513130156.pdf DRPIUNIT102H_BOPBreakTestingVariance_20240513130207.pdf DRPIUNIT102H_BradenheadCBLVariance_20240513130213.pdf DRPIUNIT102H_OfflineCementVariance_20240513130221.pdf DRPIUNIT102H_ProdCsgAnnClearanceVariance_20240513130226.pdf

WAFMSS

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

APD ID: 10400098483

Operator Name: OXY USA INCORPORATED

Well Name: DR PI UNIT

Well Type: OIL WELL

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

DRPIUNIT102H_ExistRoads_20241024140354.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? NO

Submission Date: 05/13/2024

Well Number: 102H

Well Work Type: Drill

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 Recon	structed Access Roads
Will new roads be need	led? YES	
New Road Map:		
DRPIUNIT102H_NewRo	ads_2024102414002	4.pdf
New road type: LOCAL		
Length: 2431	Feet	Width (ft.): 30
Max slope (%): 0		Max grade (%): 0
Army Corp of Engineer	s (ACOE) permit req	juired? N
ACOE Permit Number(s):	
New road travel width:	20	
New road access erosi	on control: Watershe	ed diversion every 200', if needed.
New road access plan	or profile prepared?	Ν
New road access plan		



12/27/2024

Highlighted data reflects the most

recent changes

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Operator Name: OXY USA INCORPORATED

Well Name: DR PI UNIT

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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:

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:

DRPIUNIT102H_ExistingWells_20240513130419.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description:

Production Facilities map:

DRPIUNIT102H_LeaseFacility_20241024140505.pdf

Operator Name: OXY USA INCORPORATED

Well Name: DR PI UNIT

Well Number: 102H

Section 5 - Location a	nd Types of Water S	Sup
Water Source Tab	le	
Water source type: GW WELL		
Water source use type:	SURFACE CASING	
	OTHER	
	INTERMEDIATE/PRODUCT CASING	IC
Source latitude:		
Source datum:		
Water source permit type:	WATER WELL	
Water source transport method:	PIPELINE	
	TRUCKING	
Source land ownership: COMMER	RCIAL	
Source transportation land owner	rship: COMMERCIAL	
Water source volume (barrels): 20	000	
Source volume (gal): 84000		

Water source and transportation

DRPIUNIT102H_WtrSrcGRR_20240513130513.pdf

DRPIUNIT102H_WtrSrcMesq_20240513130520.pdf

DRPIUNIT102H_Water___Caliche_Source_Map_20241024140559.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:			
Aquifer documentation:			
Well depth (ft):	Well casing type:		

Well Name: DR PI UNIT

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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:Completion Method:		
Drilling method:Drill material:Grout material:Grout depth:Casing length (ft.):Casing top depth (ft.):Well Production type:Completion Method:Water well additional information:Completion Method:	Well casing outside diameter (in.):	Well casing inside diameter (in.):
Grout material:Grout depth:Casing length (ft.):Casing top depth (ft.):Well Production type:Completion Method:Water well additional information:Completion Method:	New water well casing?	Used casing source:
Casing length (ft.): Casing top depth (ft.): Well Production type: Completion Method: Water well additional information: Completion Method:	Drilling method:	Drill material:
Well Production type: Completion Method: Water well additional information:	Grout material:	Grout depth:
Water well additional information:	Casing length (ft.):	Casing top depth (ft.):
	Well Production type:	Completion Method:
State appropriation permit:	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 as depicted in the site plan included with this APD.

Construction Materials source location

DRPIUNIT102H_Water___Caliche_Source_Map_20241024140621.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

Amount of waste: 1670 barrels

Waste disposal frequency : Daily

Safe containment description: Haul-Off Bins

Safe containmant attachment:

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. Methods of Handling Waste Material: a. A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins.

Well Name: DR PI UNIT

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

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:

Operator Name: OXY USA INCORPORATED

Well Name: DR PI UNIT

Well Number: 102H

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Section 9 - Well Site

Well Site Layout Diagram:

DRPIUNIT102H_ClosedLoop_20241024140754.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: LSTTNK_T22SR32E

Multiple	Well	Pad	Number:	1703
----------	------	-----	---------	------

Recontouring

DRPIUNIT102H_Cut_Fill_20240513130753.pdf

DRPIUNIT102H_SITEPLAN_20241024140829.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	Well pad interim reclamation (acres): 0 Well pad long term disturbance		
(acres): 9	(acres): 9		
Road proposed disturbance (acres): 2	Road interim reclamation (acres): 1	Road long term disturbance (acres): 1	
Powerline proposed disturbance	Powerline interim reclamation (acres):	Powerline long term disturbance	
(acres): 1	1	(acres): 0	
Pipeline proposed disturbance	Pipeline interim reclamation (acres):	Pipeline long term disturbance	
(acres): 23	16	(acres): 8	
Other proposed disturbance (acres): 0	0 Other interim reclamation (acres): 0	Other long term disturbance (acres): 0	
Total proposed disturbance: 35	Total interim reclamation: 18	Total long term disturbance: 18	

Disturbance Comments:

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, to the original topography and the area will be seeded with an approved BLM mixture to re-estable to the original topography and the area will be seeded with an approved BLM mixture to re-estable, 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 BLM.

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

Existing Vegetation at the well pad

Operator Name: OXY USA INCORPORATED

Well Name: DR PI UNIT

Well Number: 102H

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

Existing Vegetation Community at the road

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

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: To be determined by 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 Table

			_	
	Seed Summary Seed Type Pounds/Acre		Total pounds/Acre:	
			1	
Seed	reclamation			
	Operator Co	ontact/Responsibl	e Official	
Fire	st Name: Mike		Last Name: Wilson	
Phone: (575)631-6618		Email: michael_wilson@oxy.com		
Seed	bed prep:			
Seed	BMP:			
Seed	method:			
Existi	ng invasive species?	N		
Existi	ng invasive species tr	eatment description:		

Operator Name: OXY USA INCORPORATED

Well Name: DR PI UNIT

Pit closure attachment:

Disturbance type: WELL PAD

USFS Forest/Grassland:

Well Number: 102H

Existing invasive species treatment Weed treatment plan description: To be determined by BLM. Weed treatment plan Monitoring plan description: To be determined by BLM. Monitoring plan Success standards: To be determined by BLM. Pit closure description: NA

Section 11 - Surface Ownership

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 Ranger District:

Disturbance type: NEW ACCESS ROAD Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office:

Well Name: DR PI UNIT

Well Number: 102H

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: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office: USFWS Local Office: USFS Region: USFS Forest/Grassland:

USFS Ranger District:

Operator Name: OXY USA INCORPORATED

Well Name: DR PI UNIT

Well Number: 102H

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Disturbance type: OTHER	
Describe: ELECTRIC LINES	
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: US	SFS 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,288101 ROW – O&G Facility Sites,289001 ROW- O&G Well Pad



SUPO Additional Information: Permian Basin MOA : To be submitted after APD acceptance. GIS shapefiles available for BLM. **Use a previously conducted onsite?** N

Previous Onsite information:

Other SUPO

DRPIUNIT102H_NGMP_20240513131010.pdf DRPIUNIT102H_StakingSheet_20240513131022.pdf

WAFMSS

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

APD ID: 10400098483

Operator Name: OXY USA INCORPORATED

Well Name: DR PI UNIT

Well Type: OIL WELL

Submission Date: 05/13/2024

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12/27/2024

PWD Data Report

Well Number: 102H 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

PWD disturbance (acres):

Operator Name: OXY USA INCORPORATED

Well Name: DR PI UNIT

Well Number: 102H

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?

Operator Name: OXY USA INCORPORATED

Well Name: DR PI UNIT

Well Number: 102H

PWD disturbance (acres):

Injection well name:

Injection well API number:

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:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

PWD surface owner:

Injection well number:

Assigned 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):
 PWD disturbance (acres):

 Surface Discharge NPDES Permit?
 Surface Discharge NPDES Permit attachment:

 Surface Discharge site facilities information:
 Surface discharge site facilities map:

 Section 6 Section 6

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

Other PWD discharge volume (bbl/day):

PWD disturbance (acres):

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Operator Name: OXY USA INCORPORATED

Well Name: DR PI UNIT

Well Number: 102H

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Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

WAFMSS

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

APD ID: 10400098483 Operator Name: OXY USA INCORPORATED Well Name: DR PI UNIT Well Type: OIL WELL Submission Date: 05/13/2024

Well Number: 102H Well Work Type: Drill Highlighted data reflects the most recent changes <u>Show Final Text</u>

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

Bond Info Data 12/27/2024

Oxy USA Inc. - DR PI FED UNIT 17_8 DA 2H Drill Plan

1. Geologic Formations

TVD of Target (ft):	11180	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	21449	Deepest Expected Fresh Water (ft):	890

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	890	890	
Salado	1192	1192	Salt
Castile	2803	2803	Salt
Delaware	4773	4773	Oil/Gas/Brine
Bell Canyon	4844	4844	Oil/Gas/Brine
Cherry Canyon	5688	5688	Oil/Gas/Brine
Brushy Canyon	6886	6886	Losses
Bone Spring	8619	8619	Oil/Gas
Bone Spring 1st	9727	9715	Oil/Gas
Bone Spring 2nd	10393	10371	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	1D	Τ١	TVD				
	Hole	From	n To Fr		То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	950	0	950	13.375	54.5	J-55	BTC
Intermediate	9.875	0	10443	0	10418	7.625	26.4	L-80 HC	BTC
Production	6.75	0	21449	0	11180	5.5	20	P-110	Wedge 461

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

*Oxy requests the option to run the 10.75" Intermediate I as a contingency string to be run only if severe hole conditions dictate an additional casing string necessary. This would make the planned 7.625" / 7.827" Casing the Intermediate II.

**If 4S Contingency is not required, Oxy requests permission to transition from 12.25" to 9.875" Intermediate I at 1st trip point below Brushy top (estimated top in formation table above). Cement volumes will be updated on C103 submission.

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

Annular Clearance Variance Request

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

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	ľ
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	V
the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-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?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
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 (Ib/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	992	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	452	1.65	13.2	5%	7,136	Circulate	Class H+Accel., Disper., Salt
Int.	2	Intermediate 2S - Tail BH	1277	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	652	1.84	13.3	25%	9,943	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

Bradenhead CBL Request

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

-

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	~	Tested to:	Deepest TVD Depth (ft) per Section:
		5M		Annular	✓	70% of working pressure	
				Blind Ram	√		
9.875" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	10418
		5101	Double Ram		\checkmark	200 p317 0000 p31	
			Other*				
		5M		Annular	\checkmark	100% of working pressure	
				Blind Ram	\checkmark		
6.75" Hole	13-5/8"	10M		Pipe Ram		250 psi / 10000 psi	11180
				Double Ram		230 psi / 10000 psi	
			Other*				

*Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and

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

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.

5. Mud Program

Occidental - Permian New Mexico

Section	Depth - MD		Depth - TVD		True	Weight	Viceosity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	950	0	950	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	950	10443	950	10418	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	10443	21449	10418	11180	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

What will be used to monitor the	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	F V I/IVID TOLCO/ VISUAI IVIOIIILOIIIIg

6. Logging and Testing Procedures

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

No Coring? If yes, explain

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

•

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7267 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	170°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

Hydro	ogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is
detec	ted in concentrations greater than 100 ppm, the operator will comply with the provisions of
43 CF	R part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and
forma	ations will be provided to the BLM.
Ν	H2S is present

Y H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.	
We plan to drill the 2 well pad in batch by section: all surface sections, intermediate	Vac
sections and production sections. The wellhead will be secured with a night cap whenever	Yes
the rig is not over the well.	
Vill 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,	Yes
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.	
Total Estimated Cuttings Volume: 1670 bbls	•

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Oxy USA Inc. - DR PI FED UNIT 17_8 DA 2H Drill Plan

1. Geologic Formations

TVD of Target (ft):	11180	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	21449	Deepest Expected Fresh Water (ft):	890

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	890	890	
Salado	1192	1192	Salt
Castile	2803	2803	Salt
Delaware	4773	4773	Oil/Gas/Brine
Bell Canyon	4844	4844	Oil/Gas/Brine
Cherry Canyon	5688	5688	Oil/Gas/Brine
Brushy Canyon	6886	6886	Losses
Bone Spring	8619	8619	Oil/Gas
Bone Spring 1st	9727	9715	Oil/Gas
Bone Spring 2nd	10393	10371	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	950	0	950	13.375	54.5	J-55	BTC
Salt	12.25	0	4873	0	4873	10.75	45.5	L-80 HC	BTC-SC
Intermediate	9.875	0	10443	0	10418	7.625	26.4	L-80 HC	BTC
Production	6.75	0	21449	0	11180	5.5	20	P-110	Wedge 461

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

Occidental - Permian New Mexico	

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

Annular Clearance Variance Request

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

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	
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 to estad in D 111 D and SODA?	N
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
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/Varst?	NI
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 (Ib/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	992	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	4,373	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	689	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	211	1.65	13.2	5%	7,136	Circulate	Class H+Accel., Disper., Salt
Int. 2	2	Intermediate 2S - Tail BH	801	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	652	1.84	13.3	25%	9,943	Circulate	Class C+Ret.

Offline Cementing Request

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

Bradenhead CBL Request

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

-

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре	~	Tested to:	TVD Depth (ft) per Section:	
		5M	Annular	✓	70% of working pressure		
			Blind Ram	✓			
12.25" Hole	13-5/8"	5M	Pipe Ram		250 psi / 5000 psi	4873	
			Double Ram	✓	200 p317 0000 p31		
			Other*				
	13-5/8"	5M	Annular	\checkmark	70% of working pressure	10418	
		5M	Blind Ram	\checkmark			
9.875" Hole			Pipe Ram		250 pai / 5000 pai		
			Double Ram	\checkmark	250 psi / 5000 psi		
			Other*				
		5M	Annular	\checkmark	100% of working pressure		
6.75" Hole			Blind Ram	\checkmark			
	13-5/8"	4014	Pipe Ram		250 pai / 10000 pai	11180	
		10M	Double Ram	\checkmark	250 psi / 10000 psi		
			Other*				

*Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke

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.

Occidental - Permian New Mexico

Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

Y Are anchors required by manufacturer?

A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached schematics.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

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

5. Mud Program

Section	Depth		Depth -	TVD	Turno	Weight	Viceocity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	950	0	950	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	950	4873	950	4873	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4873	10443	4873	10418	Water-Based or Oil- Based Mud	8.0 - 10.0	38-50	N/C
Production	10443	21449	10418	11180	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,

What will be used to monitor the	DV/T/ND Tatas (Visual Manitaring
loss or gain of fluid?	PVT/MD Totco/Visual Monitoring

6. Logging and Testing Procedures

0								
Logg	ing, Coring and Testing.							
Vac	Will run GR from TD to surface (horizontal well – vertical portion of hole).							
Yes	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 yos ovnlain							

No Coring? If yes, explain

Addi	tional 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	7267 psi				
Abnormal Temperature	No				
BH Temperature at deepest TVD	170°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

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.

Ν	H2S is present	
Y	H2S Plan attached	

8. Other facets of operation

	Yes/No			
Will the well be drilled with a walking/skidding operation? If yes, describe.				
We plan to drill the 2 well pad in batch by section: all surface sections, intermediate	Yes			
sections and production sections. The wellhead will be secured with a night cap whenever	res			
the rig is not over the well.				
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.				
Total Estimated Cuttings Volume: 1870 bbls	-			

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OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) Dr Awkward 17_8 Federal Com Dr Pi Fed Unit 17_8 DA 2H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

04 April, 2024

OXY Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	HOPSPP ENGINEERING DESIGNS PRD NM DIRECTIONAL PLANS (NAD 1983) Dr Awkward 17_8 Federal Com Dr Pi Fed Unit 17_8 DA 2H Wellbore #1 Permitting Plan			Local Co-ordinate Reference:Well Dr Pi Fed Unit 17_8 DA 2HTVD Reference:RKB=25' @ 3713.90ftMD Reference:RKB=25' @ 3713.90ftNorth Reference:GridSurvey Calculation Method:Minimum Curvature					I	
Project	PRD N	M DIRECTION	NAL PLANS (1	NAD 1983)						
Map System: Geo Datum: Map Zone:	North Am	e Plane 1983 nerican Datum tico Eastern Z			System Da	tum:		ean Sea Level sing geodetic sc	ale factor	
Site	Dr Awk	ward 17_8 Fe	deral Com							
Site Position: From: Position Uncertai	Map nty:	44.72 f	North Eastii t Slot F	•	739,7	34.74 usft 95.94 usft 3.200 in	Latitude: Longitude:			32.384846 -103.690426
Well	Dr Pi Fe	ed Unit 17_8 E	A 2H							
Well Position Position Uncertain Grid Convergence	•	0.0 2.0	00 ft Ea	orthing: asting: ellhead Elev	ation:	504,481.51 737,005.80	usf Lo	titude: ngitude: ound Level:		32.385299 -103.699462 3,688.90 ft
Wellbore	Wellbo	re #1								
Magnetics	Мос	lel Name	Sampl	e Date	Declina (°)	tion		Angle °)	Field Stre (nT)	•
		HDGM_FILE		4/4/2024		6.32		59.97	47,541.	7000000
Design	Permitti	ng Plan								
Audit Notes: Version:			Phas	e:	PROTOTYPE	Tie	e On Depth:		0.00	
Vertical Section:		D	epth From (T (ft) 0.00	VD)	+N/-S (ft) 0.00	(:/-W ft) .00		ection (°) .58	
Plan Survey Tool Depth From (ft) 1 0.00	Depth (ft)	To Survey	4/4/2024 • (Wellbore) ing Plan (Well	bore #1)	Tool Name B005Mc_MWI MWD+HRGM		Remarks			
Plan Sections Measured Depth Inc (ft)	lination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00 8,252.00 9,252.46 10,542.58	0.00 0.00 10.00 10.00 90.00	0.00 0.00 155.51 155.51 359.60	0.00 8,252.00 9,247.39 10,517.88 11,180.00	0.00 0.00 -79.29 -283.25 282.78	0.00 0.00 36.12 129.03 172.71	0.00 0.00 1.00 0.00 10.00	0.00 0.00 1.00 0.00 8.07	0.00 0.00 0.00	0.00 0.00 155.51 0.00 -155.58	
11,533.84	00.00									

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Database:	HOPSPP	Local Co-ordinate Reference:	Well Dr Pi Fed Unit 17_8 DA 2H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3713.90ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3713.90ft
Site:	Dr Awkward 17_8 Federal Com	North Reference:	Grid
Well:	Dr Pi Fed Unit 17_8 DA 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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Database:	HOPSPP	Local Co-ordinate Reference:	Well Dr Pi Fed Unit 17_8 DA 2H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3713.90ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3713.90ft
Site:	Dr Awkward 17_8 Federal Com	North Reference:	Grid
Well:	Dr Pi Fed Unit 17_8 DA 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,252.00	0.00	0.00	8,252.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.48	155.51	8,300.00	-0.18	0.08	-0.18	1.00	1.00	0.00
8,400.00	1.48	155.51	8,399.98	-1.74	0.79	-1.73	1.00	1.00	0.00
8,400.00	2.48	155.51	8,499.92	-1.74 -4.88	2.22	-1.73	1.00	1.00	0.00
8,600.00	3.48	155.51	8,599.79	-4.88	4.38	-4.00	1.00	1.00	0.00
8,700.00	4.48	155.51	8,699.54	-15.93	7.26	-15.86	1.00	1.00	0.00
8,800.00	5.48	155.51	8,799.17	-23.83	10.86	-23.72	1.00	1.00	0.00
8,900.00	6.48 7.48	155.51 155.51	8,898.62 8,997.88	-33.31 -44.37	15.17 20.21	-33.16 -44.16	1.00 1.00	1.00 1.00	0.00 0.00
9,000.00 9,100.00	7.48 8.48	155.51	8,997.88 9,096.91	-44.37 -57.00	20.21	-44.16 -56.74	1.00	1.00	0.00
9,100.00	8.48 9.48	155.51	9,096.91 9,195.68	-57.00	25.97 32.44	-56.74 -70.88	1.00	1.00	0.00
9,252.46	10.00	155.51	9,247.39	-79.29	36.12	-70.88	1.00	1.00	0.00
9,300.00	10.00	155.51	9,294.20	-86.80	39.54	-86.40	0.00	0.00	0.00
9,400.00	10.00	155.51	9,392.68	-102.61	46.74	-102.14	0.00	0.00	0.00
9,500.00	10.00	155.51	9,491.16	-118.42	53.94	-117.87	0.00	0.00	0.00
9,600.00 9,700.00	10.00 10.00	155.51 155.51	9,589.64 9,688.12	-134.23 -150.04	61.15 68.35	-133.61 -149.35	0.00 0.00	0.00 0.00	0.00 0.00
9,800.00	10.00	155.51	9,786.60	-165.85	75.55	-165.08	0.00	0.00	0.00
9,900.00	10.00	155.51	9,885.08	-181.66	82.75	-180.82	0.00	0.00	0.00
10,000.00	10.00	155.51	9,983.56	-197.47	89.95	-196.55	0.00	0.00	0.00
10,100.00	10.00	155.51	10,082.04	-213.28	97.15	-212.29	0.00	0.00	0.00
10,200.00	10.00	155.51	10,180.52	-229.09	104.36	-228.03	0.00	0.00	0.00
10,300.00	10.00	155.51	10,278.99	-244.90	111.56	-243.76	0.00	0.00	0.00
10,400.00	10.00	155.51	10,377.47	-260.71	118.76	-259.50	0.00	0.00	0.00
10,500.00	10.00	155.51	10,475.95	-276.52	125.96	-275.24	0.00	0.00	0.00
10,542.58	10.00	155.51	10,517.88	-283.25	129.03	-281.94	0.00	0.00	0.00
10,600.00	5.33	129.06	10,574.79	-289.48	133.17	-288.12	10.00	-8.14	-46.06
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Database:	HOPSPP	Local Co-ordinate Reference:	Well Dr Pi Fed Unit 17_8 DA 2H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3713.90ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3713.90ft
Site:	Dr Awkward 17_8 Federal Com	North Reference:	Grid
Well:	Dr Pi Fed Unit 17_8 DA 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,700.00	7.79	31.36	10,674.37	-286.61	140.32	-285.18	10.00	2.46	-97.71
10,800.00	17.11	13.13	10,771.94	-266.45	147.20	-264.95	10.00	9.32	-18.23
10,900.00	26.91	7.75	10,864.55	-229.61	153.61	-228.05	10.00	9.80	-5.37
11,000.00	36.82	5.12	10,949.38	-177.21	159.35	-175.60	10.00	9.90	-2.64
11,100.00	46.76	3.48	11,023.86	-110.85	164.24	-109.18	10.00	9.94	-1.64
11,200.00	56.71	2.31	11,085.71	-32.53	168.14	-30.83	10.00	9.96	-1.17
11,300.00	66.68	1.37	11,133.06	55.36	170.93	57.08	10.00	9.97	-0.93
11,400.00	76.65	0.57	11,164.48	150.15	172.52	151.88	10.00	9.97	-0.80
11,500.00	86.63 90.00	359.84 359.60	11,179.00	248.96 282.78	172.87 172.71	250.69 284.50	10.00	9.97 9.97	-0.74 -0.72
11,533.84			11,180.00				10.00		
11,600.00 11,700.00	90.00 90.00	359.60 359.60	11,180.00 11,180.00	348.94 448.94	172.24 171.53	350.66 450.64	0.00 0.00	0.00 0.00	0.00 0.00
11,800.00	90.00	359.60	11,180.00	440.94 548.93	171.55	450.64 550.63	0.00	0.00	0.00
11,900.00	90.00	359.60	11,180.00	648.93	170.03	650.61	0.00	0.00	0.00
12,000.00	90.00	359.60	11,180.00	748.93	169.42	750.60	0.00	0.00	0.00
12,100.00	90.00	359.60	11,180.00	848.93	168.71	850.58	0.00	0.00	0.00
12,100.00	90.00	359.60	11,180.00	948.92	168.01	950.57	0.00	0.00	0.00
12,300.00	90.00	359.60	11,180.00	1,048.92	167.30	1,050.56	0.00	0.00	0.00
12,400.00	90.00	359.60	11,180.00	1,148.92	166.60	1,150.54	0.00	0.00	0.00
12,500.00	90.00	359.60	11,180.00	1,248.92	165.89	1,250.53	0.00	0.00	0.00
12,600.00	90.00	359.60	11,180.00	1,348.91	165.19	1,350.51	0.00	0.00	0.00
12,700.00	90.00	359.60	11,180.00	1,448.91	164.48	1,450.50	0.00	0.00	0.00
12,800.00	90.00	359.60	11,180.00	1,548.91	163.78	1,550.48	0.00	0.00	0.00
12,900.00	90.00	359.60	11,180.00	1,648.91	163.07	1,650.47	0.00	0.00	0.00
13,000.00	90.00	359.60	11,180.00	1,748.91	162.37	1,750.45	0.00	0.00	0.00
13,100.00	90.00 90.00	359.60 359.60	11,180.00 11,180.00	1,848.90 1,948.90	161.66 160.96	1,850.44 1,950.42	0.00 0.00	0.00 0.00	0.00 0.00
13,200.00 13,300.00	90.00	359.60	11,180.00	2,048.90	160.96	2,050.42	0.00	0.00	0.00
13,400.00	90.00	359.60	11,180.00	2,148.90	159.55	2,050.41	0.00	0.00	0.00
13,500.00	90.00	359.60	11,180.00	2,248.89	158.84	2,250.38	0.00	0.00	0.00
13,600.00	90.00	359.60	11,180.00	2,348.89	158.13	2,350.36	0.00	0.00	0.00
13,700.00	90.00	359.60	11,180.00	2,448.89	157.43	2,450.35	0.00	0.00	0.00
13,800.00	90.00	359.60	11,180.00	2,548.89	156.72	2,550.34	0.00	0.00	0.00
13,900.00	90.00	359.60	11,180.00	2,648.88	156.02	2,650.32	0.00	0.00	0.00
14,000.00	90.00	359.60	11,180.00	2,748.88	155.31	2,750.31	0.00	0.00	0.00
14,100.00	90.00	359.60	11,180.00	2,848.88	154.61	2,850.29	0.00	0.00	0.00
14,200.00	90.00	359.60	11,180.00	2,948.88	153.90	2,950.28	0.00	0.00	0.00
14,300.00	90.00	359.60	11,180.00	3,048.87	153.20	3,050.26	0.00	0.00	0.00
14,400.00 14,500.00	90.00 90.00	359.60 359.60	11,180.00 11,180.00	3,148.87 3,248.87	152.49 151.79	3,150.25 3,250.23	0.00 0.00	0.00 0.00	0.00 0.00
14,600.00	90.00	359.60		3,348.87	151.08	3,350.22	0.00	0.00	0.00
14,800.00	90.00	359.60 359.60	11,180.00 11,180.00	3,348.87 3,448.86	151.08	3,350.22 3,450.20	0.00	0.00	0.00
14,800.00	90.00	359.60	11,180.00	3,548.86	149.67	3,550.19	0.00	0.00	0.00
14,900.00	90.00	359.60	11,180.00	3,648.86	148.97	3,650.17	0.00	0.00	0.00
15,000.00	90.00	359.60	11,180.00	3,748.86	148.26	3,750.16	0.00	0.00	0.00
15,100.00	90.00	359.60	11,180.00	3,848.85	147.56	3,850.14	0.00	0.00	0.00
15,200.00	90.00	359.60	11,180.00	3,948.85	146.85	3,950.13	0.00	0.00	0.00
15,300.00	90.00	359.60	11,180.00	4,048.85	146.15	4,050.12	0.00	0.00	0.00
15,400.00	90.00	359.60	11,180.00	4,148.85	145.44	4,150.10	0.00	0.00	0.00
15,500.00	90.00	359.60	11,180.00	4,248.84	144.74	4,250.09	0.00	0.00	0.00
15,600.00	90.00	359.60	11,180.00	4,348.84	144.03	4,350.07	0.00	0.00	0.00
15,700.00 15,800.00	90.00 90.00	359.60 359.60	11,180.00 11,180.00	4,448.84 4,548.84	143.33 142.62	4,450.06 4,550.04	0.00 0.00	0.00 0.00	0.00 0.00
15,800.00	90.00	359.60 359.60	11,180.00	4,548.84 4,648.83	142.62	4,550.04 4,650.03	0.00	0.00	0.00
16,000.00	90.00	359.60	11,180.00	4,748.83	141.92	4,050.03	0.00	0.00	0.00
			,	.,0.00		.,			

Database:	HOPSPP	Local Co-ordinate Reference:	Well Dr Pi Fed Unit 17_8 DA 2H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3713.90ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3713.90ft
Site:	Dr Awkward 17_8 Federal Com	North Reference:	Grid
Well:	Dr Pi Fed Unit 17_8 DA 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,100.00	90.00	359.60	11,180.00	4,848.83	140.50	4,850.00	0.00	0.00	0.00
16,200.00	90.00	359.60	11,180.00	4,948.83	139.80	4,949.98	0.00	0.00	0.00
16,300.00	90.00	359.60	11,180.00	5,048.82	139.09	5,049.97	0.00	0.00	0.00
16,400.00 16,500.00	90.00 90.00	359.60 359.60	11,180.00 11,180.00	5,148.82 5,248.82	138.39 137.68	5,149.95 5,249.94	0.00 0.00	0.00 0.00	0.00 0.00
16,600.00 16,700.00	90.00 90.00	359.60 359.60	11,180.00 11,180.00	5,348.82 5,448.81	136.98 136.27	5,349.92 5,449.91	0.00 0.00	0.00 0.00	0.00 0.00
16,800.00	90.00	359.60	11,180.00	5,548.81	135.57	5,549.90	0.00	0.00	0.00
16,900.00	90.00	359.60	11,180.00	5,648.81	134.86	5.649.88	0.00	0.00	0.00
17,000.00	90.00	359.60	11,180.00	5,748.81	134.16	5,749.87	0.00	0.00	0.00
17,100.00	90.00	359.60	11,180.00	5,848.80	133.45	5,849.85	0.00	0.00	0.00
17,200.00	90.00	359.60	11,180.00	5,948.80	132.75	5,949.84	0.00	0.00	0.00
17,300.00	90.00	359.60	11,180.00	6,048.80	132.04	6,049.82	0.00	0.00	0.00
17,400.00	90.00	359.60	11,180.00	6,148.80	131.34	6,149.81	0.00	0.00	0.00
17,500.00	90.00	359.60	11,180.00	6,248.79	130.63	6,249.79	0.00	0.00	0.00
17,600.00	90.00	359.60	11,180.00	6,348.79	129.93	6,349.78	0.00	0.00	0.00
17,700.00 17,800.00	90.00 90.00	359.60 359.60	11,180.00 11,180.00	6,448.79 6,548.79	129.22 128.52	6,449.76 6,549.75	0.00 0.00	0.00 0.00	0.00 0.00
17,800.00	90.00	359.60	11,180.00	6,648.78	120.52	6,649.73	0.00	0.00	0.00
18,000.00	90.00	359.60	11,180.00	6,748.78	127.11	6,749.72	0.00	0.00	0.00
18,100.00	90.00	359.60	11,180.00	6,848.78	126.40	6,849.70	0.00	0.00	0.00
18,200.00	90.00	359.60	11,180.00	6,948.78	125.70	6,949.69	0.00	0.00	0.00
18,300.00	90.00	359.60	11,180.00	7,048.77	124.99	7,049.68	0.00	0.00	0.00
18,400.00	90.00	359.60	11,180.00	7,148.77	124.29	7,149.66	0.00	0.00	0.00
18,500.00	90.00	359.60	11,180.00	7,248.77	123.58	7,249.65	0.00	0.00	0.00
18,600.00	90.00	359.60	11,180.00	7,348.77	122.87	7,349.63	0.00	0.00	0.00
18,700.00	90.00	359.60	11,180.00	7,448.76	122.17	7,449.62	0.00	0.00	0.00
18,800.00 18,900.00	90.00 90.00	359.60 359.60	11,180.00 11,180.00	7,548.76 7,648.76	121.46 120.76	7,549.60 7,649.59	0.00 0.00	0.00 0.00	0.00 0.00
19,000.00	90.00	359.60	11,180.00	7,748.76	120.70	7,749.57	0.00	0.00	0.00
19,100.00	90.00	359.60	11,180.00	7,848.75	119.35	7,849.56	0.00	0.00	0.00
19,200.00	90.00	359.60	11,180.00	7,948.75	118.64	7,949.54	0.00	0.00	0.00
19,300.00	90.00	359.60	11,180.00	8,048.75	117.94	8,049.53	0.00	0.00	0.00
19,400.00	90.00	359.60	11,180.00	8,148.75	117.23	8,149.51	0.00	0.00	0.00
19,500.00	90.00	359.60	11,180.00	8,248.74	116.53	8,249.50	0.00	0.00	0.00
19,600.00	90.00	359.60	11,180.00	8,348.74	115.82	8,349.48	0.00	0.00	0.00
19,700.00	90.00	359.60	11,180.00	8,448.74	115.12	8,449.47	0.00	0.00	0.00
19,800.00 19,900.00	90.00 90.00	359.60 359.60	11,180.00 11,180.00	8,548.74 8,648.73	114.41 113.71	8,549.45 8,649.44	0.00 0.00	0.00 0.00	0.00 0.00
20,000.00	90.00	359.60	11,180.00	8,748.73	113.00	8,749.43	0.00	0.00	0.00
20,100.00	90.00	359.60	11.180.00	8,848.73	112.30	8,849.41	0.00	0.00	0.00
20,200.00	90.00	359.60	11,180.00	8,948.73	111.59	8,949.40	0.00	0.00	0.00
20,300.00	90.00	359.60	11,180.00	9,048.72	110.89	9,049.38	0.00	0.00	0.00
20,400.00	90.00	359.60	11,180.00	9,148.72	110.18	9,149.37	0.00	0.00	0.00
20,500.00	90.00	359.60	11,180.00	9,248.72	109.48	9,249.35	0.00	0.00	0.00
20,600.00	90.00	359.60	11,180.00	9,348.72	108.77	9,349.34	0.00	0.00	0.00
20,700.00	90.00	359.60	11,180.00	9,448.71	108.07	9,449.32	0.00	0.00	0.00
20,800.00 20,900.00	90.00 90.00	359.60 359.60	11,180.00 11,180.00	9,548.71 9,648.71	107.36 106.66	9,549.31 9,649.29	0.00 0.00	0.00 0.00	0.00 0.00
20,900.00	90.00	359.60	11,180.00	9,040.71 9,748.71	105.95	9,049.29 9,749.28	0.00	0.00	0.00
21,100.00	90.00	359.60	11,180.00	9,848.70	105.25	9,849.26	0.00	0.00	0.00
21,200.00	90.00	359.60	11,180.00	9,948.70	103.23	9,949.25	0.00	0.00	0.00
21,300.00	90.00	359.60	11,180.00	10,048.70	103.83	10,049.23	0.00	0.00	0.00
21,400.00	90.00	359.60	11,180.00	10,148.70	103.13	10,149.22	0.00	0.00	0.00
21,448.84	90.00	359.60	11,180.00	10,197.53	102.79	10,198.05	0.00	0.00	0.00
·									

OXY Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Dr Pi Fed Unit 17 8 DA 2H
Database.		Local Co-ordinate Reference.	Well DI PI Fed Utill 17_0 DA 2H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3713.90ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3713.90ft
Site:	Dr Awkward 17_8 Federal Com	North Reference:	Grid
Well:	Dr Pi Fed Unit 17_8 DA 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Dr Pi Fed Unit - plan misses target - Point	0.00 center by 34	0.00 I2.84ft at 0.0	0.00 0ft MD (0.0	-293.75 0 TVD, 0.00 N	176.77 N, 0.00 E)	504,187.77	737,182.56	32.384485	-103.698895
PBHL (Dr Pi Fed Unit - plan hits target cer - Point	0.00 nter	0.00	11,180.00	10,197.53	102.79	514,678.54	737,108.58	32.413321	-103.698933
FTP (Dr Pi Fed Unit - plan misses target - Point	0.00 center by 20		11,180.00 100.00ft ME	-243.76 0 (11023.86 T	176.42 VD, -110.85 N	504,237.76 N, 164.24 E)	737,182.21	32.384622	-103.698895

Formations

Decian Terreto

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
889.90	889.90	RUSTLER			
1,191.90	1,191.90	SALADO			
2,802.90	2,802.90	CASTILE			
4,772.90	4,772.90	DELAWARE			
4,843.90	4,843.90	BELL CANYON			
5,687.90	5,687.90	CHERRY CANYON			
6,885.90	6,885.90	BRUSHY CANYON			
8,619.15	8,618.90	BONE SPRING			
9,727.20	9,714.90	BONE SPRING 1ST			
10,393.32	10,370.90	BONE SPRING 2ND			

an Annotations Measured	Vertical	Local Coor	dinates		
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
8,252.00	8,252.00	0.00	0.00	Build 1°/100'	
9,252.46	9,247.39	-79.29	36.12	Hold 10° Tangent	
10,542.58	10,517.88	-283.25	129.03	KOP, Build & Turn 10°/100'	
11,533.84	11,180.00	282.78	172.71	Landing Point	
21,448.84	11,180.00	10,197.53	102.79	TD at 21448.84' MD	

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Oxy USA Inc.
LEASE NO.:	NMNM32411
COUNTY:	Lea County, New Mexico

Wells:

Dr Pi Fed Unit 17_8 DA 11H Dr Pi Fed Unit 17_8 DA 12H Dr Pi Unit 101H Dr Pi Unit 102H Dr Pi Fed Unit 17_8 DA 41H Dr Pi Fed Unit 17_8 DA 42H Dr Pi Fed Unit 17_8 DA 71H Dr Pi Fed Unit 17_8 DA 72H Dr Pi Fed Unit 18_7 IPP 11H Dr Pi Fed Unit 18_7 IPP 12H Dr Pi Fed Unit 18_7 IPP 1H Dr Pi Fed Unit 18_7 IPP 2H Dr Pi Fed Unit 18_7 IPP 71H Dr Pi Fed Unit 18_7 IPP 72H Dr Pi Fed Unit 18_7 IPP 21H Dr Pi Fed Unit 18_7 IPP 22H Dr Pi Fed Unit 18_7 IPP 41H Dr Pi Fed Unit 18_7 IPP 42H Dr Pi Fed Unit 18_7 IPP 15H Dr Pi Fed Unit 18_7 IPP 24H Dr Pi Fed Unit 18_7 IPP 25H Dr Pi Fed Unit 18_7 IPP 3H Dr Pi Fed Unit 18_7 IPP 4H Dr Pi Fed Unit 18_7 IPP 43H Dr Pi Fed Unit 18_7 IPP 44H Dr Pi Fed Unit 18_7 IPP 73H Dr Pi Fed Unit 18_7 IPP 74H

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Dr Pi Fed Unit 17_8 DA 24H Dr Pi Unit 103H Dr Pi Fed Unit 17_8 DA 43H Dr Pi Fed Unit 17_8 DA 44H Dr Pi Unit 104H Dr Pi Fed Unit 17_8 DA 73H Dr Pi Fed Unit 17_8 DA 74H

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1. GENERAL PROVISIONS

The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

1.1. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the operator, or any person working on the operator's behalf, on the public or federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area (within 100ft) 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, in conjunction with a BLM Cultural Resource Specialist, to determine appropriate actions to prevent the loss of significant scientific values. The operator shall 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 operator.

Traditional Cultural Properties (TCPs) are protected by NHPA as codified in 36 CFR 800 for possessing traditional, religious, and cultural significance tied to a certain group of individuals. Though there are currently no designated TCPs within the project area or within a mile of the project area, but it is possible for a TCP to be designated after the approval of this project. **If a TCP is designated in the project area after the project's approval, the BLM Authorized Officer will notify the operator of the following conditions and the duration for which these conditions are required.**

- 1. Temporary halting of all construction, drilling, and production activities to lower noise.
- 2. Temporary shut-off of all artificial lights at night.

The operator is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA), specifically NAGPRA Subpart B regarding discoveries, to protect human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered during project work. 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 a BLM-CFO Authorized Officer will be notified immediately. The BLM will then be required to be notified, in writing, within 24 hours of the discovery. The written notification should include the geographic location by county and state, the contents of the discovery and the steps taken to protect said discovery. You must also include any potential threats to the discovery and a conformation that all activity within 100ft of the discovery has ceased and work will not resume until written certification is issued. All work on the entire project must halt for a minimum of 3 days and work cannot resume until an Authorized Officer grants permission to do so.

Any paleontological resource discovered by the operator, or any person working on the operator's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. The operator 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 operator.

1.2. RANGELAND RESOURCES

1.2.1. Cattleguards

Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road 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 cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

1.2.2. Fence Requirement

Where entry granted across a fence line, the fence must be braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

1.2.3. 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.

1.3. 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, New Mexico Department of Agriculture, and BLM requirements and policies.

1.3.1 African Rue (Peganum harmala)

Spraying: The spraying of African Rue must be completed by a licensed or certified applicator. In order to attempt to kill or remove African Rue the proper mix of chemical is needed. The mix consists of 2% Arsenal (Imazapyr) and 2% Roundup (Glyphosate) along with a nonionic surfactant. Any other chemicals or combinations shall be approved by the BLM Noxious Weeds Coordinator prior to treatment. African Rue shall be sprayed in connection to any dirt working activities or disturbances to the site being sprayed. Spraying of African Rue shall be done on immature plants at initial growth through flowering and mature plants between budding and flowering stages. Spraying shall not be conducted after flowering when plant is fruiting. This will ensure optimal intake of chemical and decrease chances of developing herbicide resistance. After spraying, the operator or necessary parties must contact the Carlsbad Field Office to inspect the effectiveness of the application treatment to the plant species. No ground disturbing activities can take place until the inspection by the authorized officer is complete. The operator may contact the Environmental Protection Department or the BLM Noxious Weed Coordinator at (575) 234-5972 or BLM_NM_CFO_NoxiousWeeds@blm.gov.

Management Practices: In addition to spraying for African Rue, good management practices should be followed. All equipment should be washed off using a power washer in a designated containment area. The containment area shall be bermed to allow for containment of the seed to prevent it from entering any open areas of the nearby landscape. The containment area shall be excavated near or adjacent to the well pad at a depth of three feet and just large enough to get equipment inside it to be washed off. This will allow all seeds to be in a centrally located area that can be treated at a later date if the need arises.

1.4. LIGHT POLLUTION

1.4.1. Downfacing

All permanent lighting will be pointed straight down at the ground in order to prevent light spill beyond the edge of approved surface disturbance.

1.4.2. Shielding

All permanent lighting will use full cutoff luminaires, which are fully shielded (i.e., not emitting direct or indirect light above an imaginary horizontal plane passing through the lowest part of the light source).

1.4.3. Lighting Color

Lighting shall be 3,500 Kelvin or less (Warm White) except during drilling, completion, and workover operations. No bluish-white lighting shall be used in permanent outdoor lighting.

2. SPECIAL REQUIREMENTS

2.1 WILDLIFE

2.1.1 Lesser Prairie Chicken

2.1.1.1 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.

2.1.1.2 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.

2.1.1.3 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 BLM_NM_CFO_Construction_Reclamation@blm.gov.

3. CONSTRUCTION REQUIRENMENTS

3.1 CONSTRUCTION NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov 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 COAs on the well site and they shall be made available upon request by the Authorized Officer.

3.2 TOPSOIL

The operator shall strip the topsoil (the A horizon) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. No more than the top 6 inches of topsoil shall be removed. 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.

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Other subsoil (the B horizon and below) 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.

3.3 CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No reserve pits will be used for drill cuttings. The operator shall properly dispose of drilling contents at an authorized disposal site.

3.4 FEDERAL MINERAL 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.

3.5 WELL PAD & SURFACING

Any surfacing material used to surface the well pad will be removed at the time of interim and final reclamation.

3.6 EXCLOSURE FENCING (CELLARS & PITS)

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 well cellar 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.)

The operator will also install and maintain mesh netting for all open well cellars to prevent access to smaller wildlife before and after drilling operations until the well cellar is free of fluids and the operator. Use a maximum netting mesh size of 1 ½ inches. The netting must not have holes or gaps.

3.7 ON LEASE ACESS ROAD

3.7.1 Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

3.7.2 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 will 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.

3.7.3 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.

3.7.4 Ditching

Ditching shall be required on both sides of the road.

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3.7.5 **Turnouts**

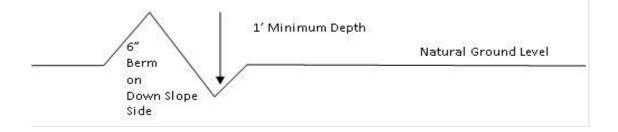
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

3.7.6 Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, leadoff 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 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 %);

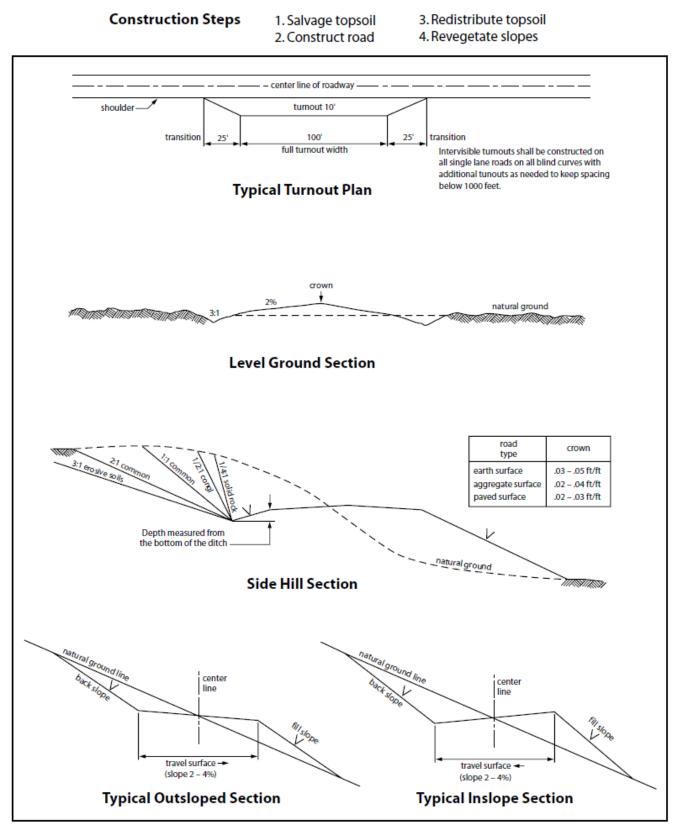
Formula for Spacing Interval of Lead-off Ditches

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: 400' + 100' = 200' lead-off ditch interval 4

3.7.7 Public Access

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





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4. 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.
- A leak detection plan <u>will be submitted to the BLM Carlsbad Field Office for approval</u> 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.

4.1 BURIED PIPELINES

A copy of the application (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 a copy of your permit during construction to ensure compliance with all stipulations.

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

- 1. The Operator 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 APD.
- 2. The Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator 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 pipeline corridor or on facilities authorized under this APD. (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 operator 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 Pipeline corridor (unless the release or threatened release is wholly unrelated to the operator's activity on the pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This agreement applies without regard to whether a release is caused by the operator, 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 is 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 operator, regardless of fault. Upon failure of operator 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

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Approval Date: 12/27/2024

fish and wildlife habitats, at the full expense of the operator. Such action by the Authorized Officer shall not relieve operator of any responsibility as provided herein.

- 5. All construction and maintenance activity will be confined to the authorized pipeline corridor.
- 6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
- 7. The maximum allowable disturbance for construction in this pipeline corridor will be 30 feet:
 - Blading of vegetation within the pipeline corridor 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 pipeline corridor 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 pipeline corridor (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)
- 8. The operator shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately <u>6</u> 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. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this pipeline corridor and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire pipeline corridor 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.
- 10. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator'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.
- 11. The operator 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 operator before maintenance begins. The operator 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 operator to construct temporary deterrence structures.
- 12. 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.
- 13. <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:

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- 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 alive 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. Before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.

4.2 SURFACE PIPELINES

A copy of the APD 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.

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

- 1. Operator 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 APD.
- 2. Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Operator 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 pipeline corridoror on facilities authorized under this APD (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. Operator 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 Pipeline corridor (unless the release or threatened release is wholly unrelated to activity of the Operator's activity on the Pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This provision applies without regard to whether a release is caused by Operator, its agent, or unrelated third parties.
- 4. Operator shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Operator 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 pipeline corridor or permit area:
 - a. Activities of Operator 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)

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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 is 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 Operator, regardless of fault. Upon failure of Operator 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 they deem 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 Operator. Such action by the Authorized Officer shall not relieve Operator of any responsibility as provided herein.
- 6. All construction and maintenance activity shall be confined to the authorized pipeline corridor width of 30-feet. If the pipeline route follows an existing road or buried pipeline corridor, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline corridor. 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 pipeline corridors.
- 7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.
- 8. Operator 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.
- 10. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator 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 operator 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 operator 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 pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

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- 14. The operator 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 operator. The operator will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
- 15. 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.
- 16. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

4.3 OVERHEAD ELECTRIC LINES

A copy of the APD 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.

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

- 1. The operator 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 APD.
- 2. The operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator 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 powerline corridor or on facilities authorized under this powerline corridor. (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 operator 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 Powerline corridor(unless the release or threatened release is wholly unrelated to the operator's activity on the powerline corridor), or resulting from the activity of the Operator on the powerline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.
- 4. There will be no clearing or blading of the powerline corridor 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 operator 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 powerline structures placed on this powerline corridor, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the operator without liability or expense to the United States.

- 6. 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.
- 7. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator 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.
- 8. 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.
- 9. Upon cancellation, relinquishment, or expiration of this APD, the operator shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 10. 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 APD, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 11. Special Stipulations:
 - For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.

4.4 RANGLAND MITIGATION FOR PIPELINES

4.5.1 Fence Requirement

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment operator prior to crossing any fence(s).

4.5.2 Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at road-fence crossing(s). Any existing cattleguard(s) on the access road 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 cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

4.5.3 Livestock Watering Requirement

Structures that provide water to livestock, such as windmills, pipelines, drinking troughs, and earthen reservoirs, will be avoided by moving the proposed action.

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 operator if any damage occurs to structures that provide water to livestock.

- Livestock operators will be contacted, and adequate crossing facilities will be provided as needed to ensure livestock are not prevented from reaching water sources because of the open trench.
- Wildlife and livestock trails will remain open and passable by adding soft plugs (areas where the trench is excavated and replaced with minimal compaction) during the construction phase. Soft plugs with ramps on either side will be left at all well-defined livestock and wildlife trails along

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the open trench to allow passage across the trench and provide a means of escape for livestock and wildlife that may enter the trench.

• Trenches will be backfilled as soon as feasible to minimize the amount of open trench. The Operator will avoid leaving trenches open overnight to the extent possible and open trenches that cannot be backfilled immediately will have escape ramps (wooden) placed at no more than 2,500 feet intervals and sloped no more than 45 degrees.

5. PRODUCTION (POST DRILLING)

5.1 WELL STRUCTURES & FACILITIES

5.1.1 Placement of Production Facilities

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

5.1.2 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 gaps.

5.1.3. 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.

5.1.4. 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, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

5.1.5. 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.

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6. RECLAMATION

Stipulations required by the Authorized Officer on specific actions may differ from the following general guidelines

6.1 ROAD AND SITE RECLAMATION

Any roads constructed during the life of the well will have the caliche removed or linear burial. If contaminants are indicated then testing will be required for chlorides and applicable contaminate anomalies for final disposal determination (disposed of in a manner approved by the Authorized Officer within Federal, State and Local statutes, regulations, and ordinances) and seeded to the specifications in sections 6.5 and 6.6.

6.2 EROSION CONTROL

Install erosion control berms, windrows, and hummocks. Windrows must be level and constructed perpendicular to down-slope drainage; steeper slopes will require greater windrow density. Topsoil between windrows must be ripped to a depth of at least 12", unless bedrock is encountered. Any large boulders pulled up during ripping must be deep-buried on location. Ripping must be perpendicular to down-slope. The surface must be left rough in order to catch and contain rainfall on-site. Any trenches resulting from erosion cause by run-off shall be addressed immediately.

6.3 INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations must 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 must work with BLM surface protection specialists (BLM_NM_CFO_Construction_Reclamation@blm.gov) to devise the best strategies to reduce the size of the location. Interim reclamation must allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche and any other surface material is required. 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 in section 6.6.

Upon completion of interim reclamation, the operator shall submit a Sundry Notice, Subsequent Report of Reclamation (Form 3160-5).

6.4 FINAL ABANDONMENT & RECLAMATION

Prior to surface abandonment, the operator shall submit a Notice of Intent Sundry Notice and reclamation plan.

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.

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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 will 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. After earthwork and seeding is completed, the operator is required to submit a Sundry Notice, Subsequent Report of Reclamation.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (BLM_NM_CFO_Construction_Reclamation@blm.gov).

6.5 SEEDING TECHNIQUES

Seeds shall be hydro-seeded, mechanically drilled, or broadcast, with the broadcast-seeded area raked, ripped or dragged to aid in covering the seed. The seed mixture shall be evenly and uniformly planted over the disturbed area.

6.6 SOIL SPECIFIC SEED MIXTURE

The lessee/permitee 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 no 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 land application will be accomplished by mechanical planting 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 tend to drop the bottom of the drill and are planted first; the operator 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 BLM or Soil Conservation

District 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 or until several months of precipitation have occurred, enabling a full four months of growth, with one or more seed generations being established.

Seed Mixture #5 for LPC Sand/Shinnery Sites

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

Species	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	11bs/A

*Pounds of pure live seed:

Pounds of seed \mathbf{x} percent purity \mathbf{x} percent germination = pounds pure live seed

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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INCORPORATED
WELL NAME & NO.:	DR PI UNIT 102H
LOCATION:	Section 17, T.22 S., R.32 E.
COUNTY:	Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Only one design approved. Please contact BLM Engineering if casing design change and sundry as needed. Please review cement volumes to ensure tieback is achieved as required below(25% excess required.)

Primary Casing Design:

- 1. The **13-3/8** inch surface casing shall be set at approximately **950** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>24 hours in the Potash Area</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- The 7-5/8 inch intermediate casing shall be set at approximately 10,443 fee. KEEP CASING 1/2 FULL FOR COLLAPSE SF. PRESSURE TEST NEEDS EXTERNAL PRESSURE REVIEW AS WELL. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2 (Bradenhead):

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

- a. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified
- 3. The **5-1/2** inch production casing shall be set at approximately **21,449** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

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Option 1 (Single Stage):

• Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

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

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- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- 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 Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

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

Contact Lea County Petroleum Engineering Inspection Staff:

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

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

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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.

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

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the

Page 5 of 7

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

Page 6 of 7

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 12/15/2024

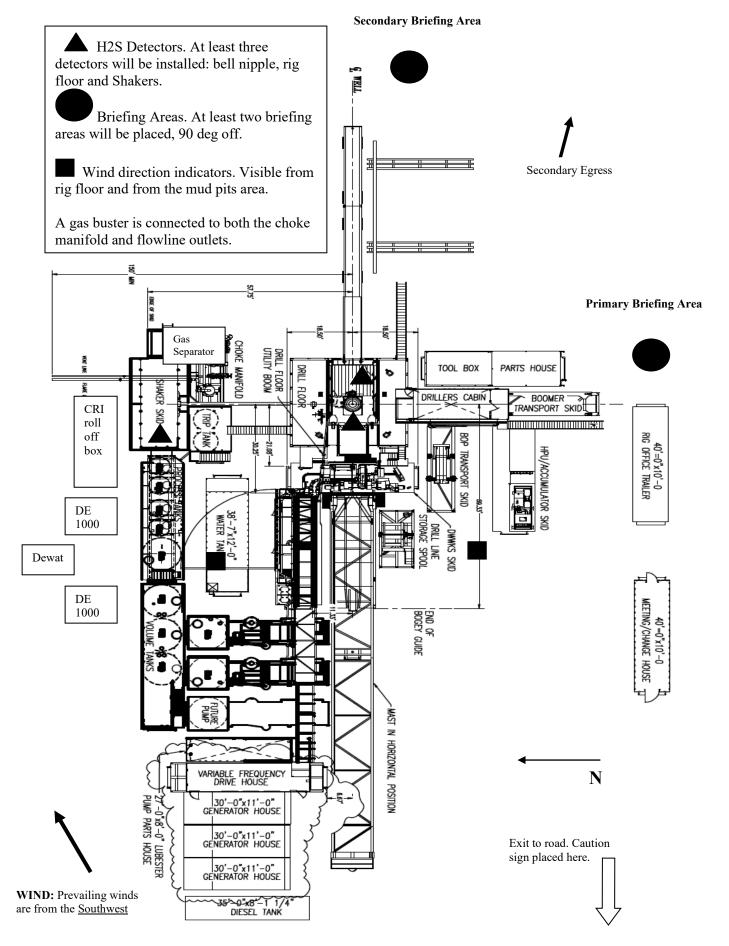


Permian Drilling Hydrogen Sulfide Drilling Operations Plan

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

<u>Scope</u>

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

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

Objective

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

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Discussion

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

Hydrogen Sulfide Training

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

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

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

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

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

Service company and visiting personnel

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

Emergency Equipment Requirements

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

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

Special control equipment:

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

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

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

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

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

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

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

Caution – potential poison gas Hydrogen sulfide No admittance without authorization

Wind sock – *wind streamers*:

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

Condition flags

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

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

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

5. <u>Mud Program</u>

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

Mud inspection devices:

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

6. <u>Metallurgy</u>

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

7. <u>Well Testing</u>

No drill stem test will be performed on this well.

8. <u>Evacuation plan</u>

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

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

Emergency procedures

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

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

All personnel:	1. 2.	On alarm, don escape unit and report to the nearest upwind designated safe briefing / muster area upw 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.
	<i>4</i> .	Assess situation and take control measures.
Driller:	1.	Don escape unit, shut down pumps, continue

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

<u>Taking a kick</u>

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

Open-hole logging

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

Running casing or plugging

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

Ignition procedures

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

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

Instructions for igniting the well

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

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

Status check list

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

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

Checked by: _____ Date:

Procedural check list during H2S events

Perform each tour:

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

Perform each week:

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

General evacuation plan

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

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

Emergency actions

Well blowout – if emergency

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

Person down location/facility

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

Toxic effects of hydrogen sulfide

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

Common	Chemical	Specific	Threshold	Hazardous	Lethal concentration
name	formula	gravity	limit	limit	(3)
	10111010	(sc=1)	(1)	(2)	
Hydrogen	Hcn	0.94	10 ppm	150 ppm/hr	300 ppm
Cyanide					
Hydrogen	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfide					
Sulfur	So2	2.21	5 ppm	-	1000 ppm
Dioxide					
Chlorine	C12	2.45	1 ppm	4 ppm/hr	1000 ppm
Carlan	C	0.07	50	400 //	1000
Carbon Monoxide	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
	C_{2}	1.50	5000 mmm	50/	100/
Carbon	Co2	1.52	5000 ppm	5%	10%
Dioxide	C1 4	0.55	00.000	C 1 1	1 1 50/
Methane	Ch4	0.55	90,000 ppm	Combustib	le above 5% in air

Table i Toxicity of various gases

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

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

Toxic effects of hydrogen sulfide

Table ii <u>Physical effects of hydrogen sulfide</u>

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

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

*at 15.00 psia and 60'f.

Use of self-contained breathing equipment (SCBA)

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

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

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

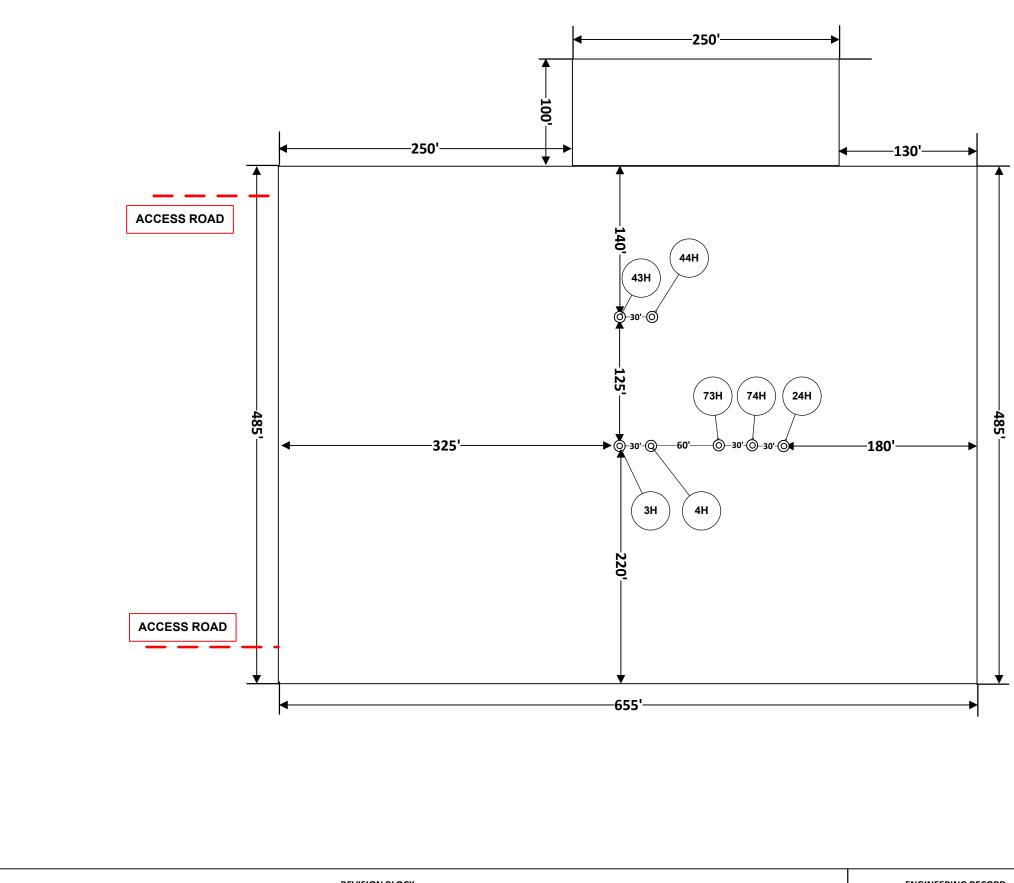
Do not panic!

Remain calm – think!

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

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

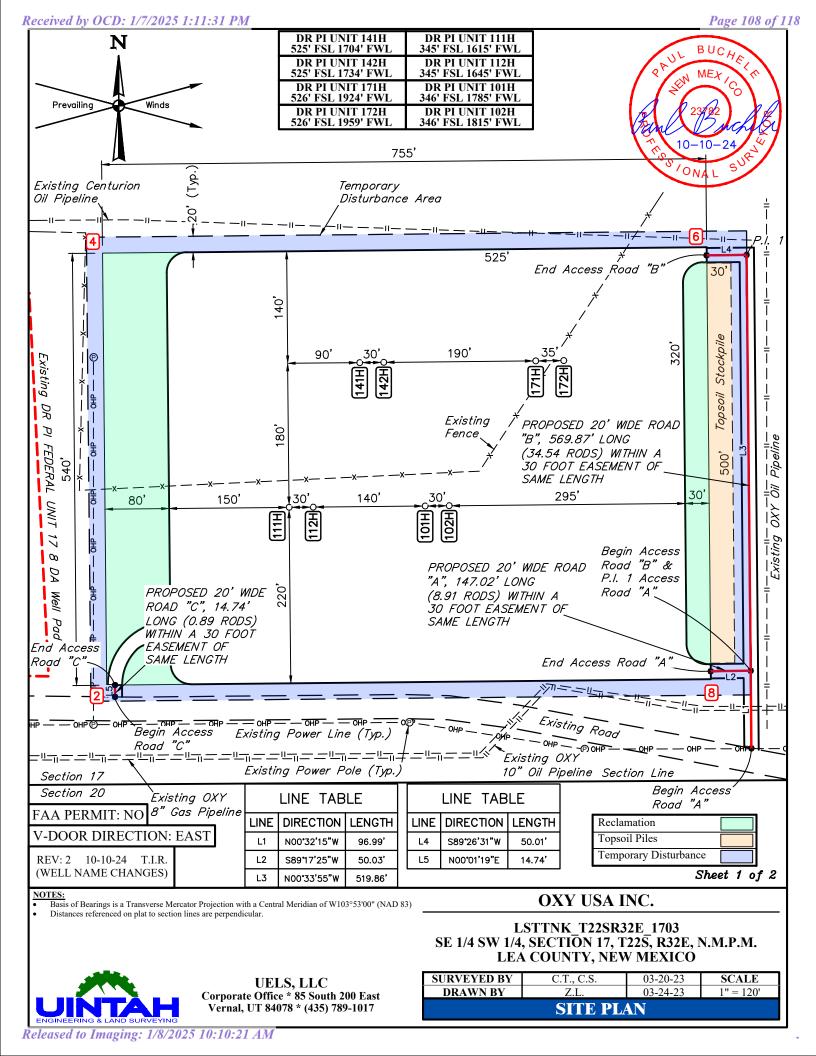
Revised CM 6/27/2012



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PAD 1704 RIG DIAGRAM V-DOOR EAST DR PI FED UNIT 17_8 DA COM 43H, 44H, 3H, 4H, 73H, 74H, 24H SECTION 17, TOWNSHIP 22S, RANGE 32E LEA COUNTY, NEW MEXICO



101H - EL: 3688.1'	102H - EL: 3688.9'	111H - EL: 3692.0'	112H - EL: 3693.8'
NAD 83	NAD 83	NAD 83	NAD 83
LATITUDE = 32°23'07.06" (32.385294°)	LATITUDE = 32°23'07.06" (32.385295°)	LATITUDE = 32°23'07.05" (32.385290°)	LATITUDE = 32°23'07.05" (32.385291°)
LONGITUDE = $-103^{\circ}41'58.41''$ (-103.699559°)	LONGITUDE = -103°41'58.06" (-103.699461°)	LONGITUDE = -103°42'00.39" (-103.700109°)	LONGITUDE = -103°42'00.04" (-103.700012
NAD 27	NAD 27	NAD 27	NAD 27
LATITUDE = $32^{\circ}23'06.62''$ (32.385171°)	LATITUDE = $32^{\circ}23'06.62''$ (32.385172°)	LATITUDE = $32^{\circ}23'06.60''$ (32.385168°)	LATITUDE = $32^{\circ}23'06.61''$ (32.385168°)
LONGITUDE = $-103^{\circ}41'56.65"$ (-103.699071°)	$LONGITUDE = -103^{\circ}41'56.30" (-103.698974^{\circ})$	LONGITUDE = $-103^{\circ}41'58.64''$ (-103.699621°)	LONGITUDE = $-103^{\circ}41'58.29''$ (-103.699524
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 504481.09' E: 736975.81'	N: 504481.51' E: 737005.80'	N: 504478.70' E: 736805.86'	N: 504479.13' E: 736835.85'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 504420.65' E: 695793.40'	N: 504421.07' E: 695823.39'	N: 504418.26' E: 695623.45'	N: 504418.69' E: 695653.44'
141H - EL: 3694.9'	142H - EL: 3694.1'	171H - EL: 3690.8'	172H - EL: 3691.4'
NAD 83	NAD 83	NAD 83	NAD 83
LATITUDE = $32^{\circ}23'08.83''$ (32.385787°)	LATITUDE = $32^{\circ}23'08.84''$ (32.385788°)	LATITUDE = $32^{\circ}23'08.85''$ (32.385792°)	LATITUDE = $32^{\circ}23'08.85''$ (32.385793°)
LONGITUDE = $-103^{\circ}41'59.36"$ (-103.699822°)	LONGITUDE = $-103^{\circ}41'59.01"$ (-103.699725°)	LONGITUDE = $-103^{\circ}41'56.80"$ (-103.699110°)	$LONGITUDE = -103^{\circ}41'56.39'' (-103.69899)$
NAD 27 $(-105, 41, 59, 30, (-105, 099822))$	NAD 27	NAD 27	NAD 27
LATITUDE = 32°23'08.39" (32.385664°)	LATITUDE = 32°23'08.39" (32.385665°)	LATITUDE = 32°23'08.41" (32.385669°)	LATITUDE = 32°23'08.41" (32.385670°)
LONGITUDE = -103°41'57.60" (-103.699335°)	LONGITUDE = -103°41'57.25" (-103.699237°)	LONGITUDE = -103°41'55.04" (-103.698622°)	LONGITUDE = -103°41'54.63" (-103.69850
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 504659.92' E: 736893.30'	N: 504660.34' E: 736923.30'	N: 504663.01' E: 737113.24'	N: 504663.50' E: 737148.23'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 504599.47' E: 695710.90'	N: 504599.89' E: 695740.89'	N: 504602.56' E: 695930.84'	N: 504603.05' E: 695965.83'
2 - EL: 3681.4'	4 - EL: 3697.5'	6 - EL: 3683.8'	8 - EL: 3676.0'
2 - EL: 5081.4 NAD 83	NAD 83	NAD 83	NAD 83
LATITUDE = 32°23'04.85" (32.384681°)	LATITUDE = 32°23'10.19" (32.386165°)	LATITUDE = 32°23'10.25" (32.386182°)	LATITUDE = 32°23'04.91" (32.384698°)
LONGITUDE = -103°42'03.05" (-103.700848°)	LONGITUDE = -103°42'03.11" (-103.700863°)	LONGITUDE = -103°41'54.30" (-103.698417°)	LONGITUDE = -103°41'54.25" (-103.69840
NAD 27	NAD 27	NAD 27	NAD 27
LATITUDE = 32°23'04.41" (32.384558°)	LATITUDE = 32°23'09.75" (32.386042°)	LATITUDE = 32°23'09.81" (32.386059°)	LATITUDE = 32°23'04.47" (32.384575°)
LONGITUDE = $-103^{\circ}42'01.30''$ (-103.700360°)	LONGITUDE = -103°42'01.35" (-103.700375°)	LONGITUDE = -103°41'52.55" (-103.697929°)	LONGITUDE = -103°41'52.50" (-103.69791
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 504255.54' E: 736579.01'	N: 504795.39' E: 736571.43'	N: 504805.99' E: 737326.22'	N: 504266.14' E: 737333.80'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 504195.10' E: 695396.60'	N: 504734.94' E: 695389.03'	N: 504745.54' E: 696143.81'	N: 504205.70' E: 696151.38'
BEGIN ACCESS ROAD "A"	P.I. 1 ACCESS ROAD "A" - EL: 3675.5'	END ACCESS ROAD "A" - EL: 3675.8'	BEGIN ACCESS ROAD "B" - EL: 3675.
NAD 83	NAD 83	NAD 83	NAD 83
LATITUDE = $32^{\circ}23'04.06''$ (32.384460°)	LATITUDE = 32°23'05.02" (32.384726°)	LATITUDE = 32°23'05.01" (32.384725°)	LATITUDE = 32°23'05.02" (32.384726°)
LONGITUDE = $-103^{\circ}41'53.66"$ (-103.698239°)	LONGITUDE = $-103^{\circ}41'53.67"$ (-103.698241°)	LONGITUDE = $-103^{\circ}41'54.25''$ (-103.698403°)	LONGITUDE = $-103^{\circ}41'53.67''$ (-103.69824
NAD 27	NAD 27	NAD 27	NAD 27
LATITUDE = 32°23'03.61" (32.384337°)	LATITUDE = 32°23'04.57" (32.384604°)	LATITUDE = 32°23'04.57" (32.384602°)	LATITUDE = 32°23'04.57" (32.384604°)
LONGITUDE = -103°41'51.90" (-103.697751°)	LONGITUDE = -103°41'51.91" (-103.697754°)	LONGITUDE = -103°41'52.50" (-103.697916°)	LONGITUDE = -103°41'51.91" (-103.69775
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 504179.98' E: 737384.99'	N: 504276.94' E: 737383.67'	N: 504276.11' E: 737333.66'	N: 504276.94' E: 737383.67'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 504119.55' E: 696202.57'	N: 504216.51' E: 696201.25'	N: 504215.68' E: 696151.24'	N: 504216.51' E: 696201.25'
P.I. 1 ACCESS ROAD "B" - EL: 3682.8'	END ACCESS ROAD "B" - EL: 3683.6'	BEGIN ACCESS ROAD "C" - EL: 3680.6'	END ACCESS ROAD "C" - EL: 3681.4'
NAD 83	NAD 83	NAD 83	NAD 83
		LATITUDE = $32^{\circ}23'04.71"$ (32.384640°)	LATITUDE = $32^{\circ}23'04.85''$ (32.384681°)
LATITUDE = 32°23'10.16" (32.386155°)	LATITUDE = 32°23'10.15" (32.386154°)		
LONGITUDE = -103°41'53.72" (-103.698255°)	LONGITUDE = -103°41'54.30" (-103.698417°)	LONGITUDE = -103°42'02.94" (-103.700816°)	LONGITUDE = -103°42'02.94" (-103.7008
NAD 27	NAD 27	NAD 27	NAD 27
LATITUDE = 32°23'09.72" (32.386032°)	LATITUDE = 32°23'09.71" (32.386031°)	LATITUDE = 32°23'04.26" (32.384518°)	LATITUDE = 32°23'04.41" (32.384558°)
LONGITUDE = -103°41'51.96" (-103.697767°)	LONGITUDE = -103°41'52.54" (-103.697929°)	LONGITUDE = -103°42'01.18" (-103.700328°)	LONGITUDE = -103°42'01.18" (-103.70032
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
	N: 504795.96' E: 737326.36'	N: 504240.95' E: 736589.17'	N: 504255.68' E: 736589.12'
N: 504796 66' E: 737376 26'	11. JUT / 73.70 E. /3/320.30		
N: 504796.66' E: 737376.36'		STATE DI ANE NAD 27 (N.M. FACT)	
N: 504796.66' E: 737376.36' STATE PLANE NAD 27 (N.M. EAST) N: 504736.21' E: 696193.95'	STATE PLANE NAD 27 (N.M. EAST) N: 504735.51' E: 696143.96'	STATE PLANE NAD 27 (N.M. EAST) N: 5041780.51' E: 695406.76'	STATE PLANE NAD 27 (N.M. EAST) N: 504195.25' E: 695406.70'

Sheet 2 of 2

REV: 2 10-10-24 T.I.R. (WELL NAME CHANGES)

OXY USA INC.

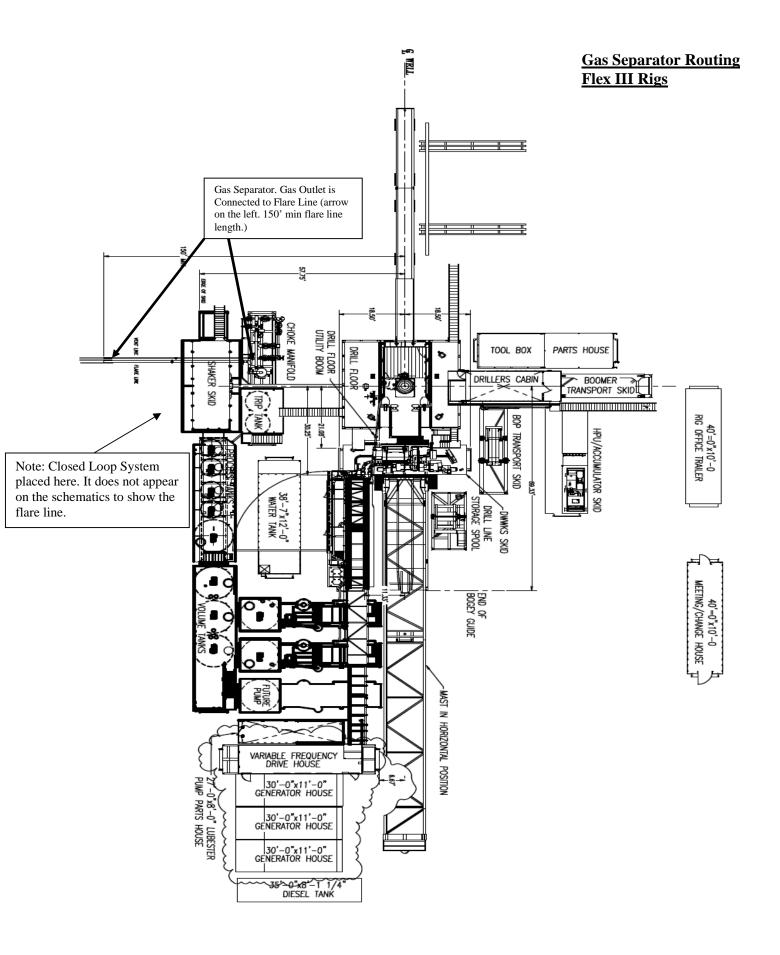
LSTTNK_T22SR32E_1703 SE 1/4 SW 1/4, SECTION 17, T22S, R32E, N.M.P.M. LEA COUNTY, NEW MEXICO

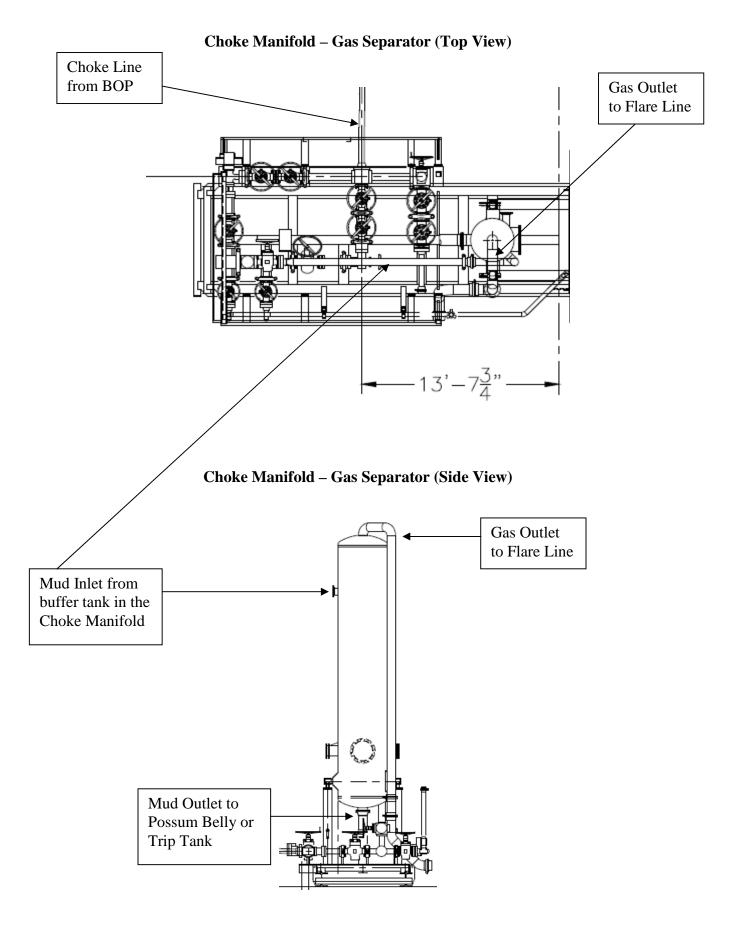


UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

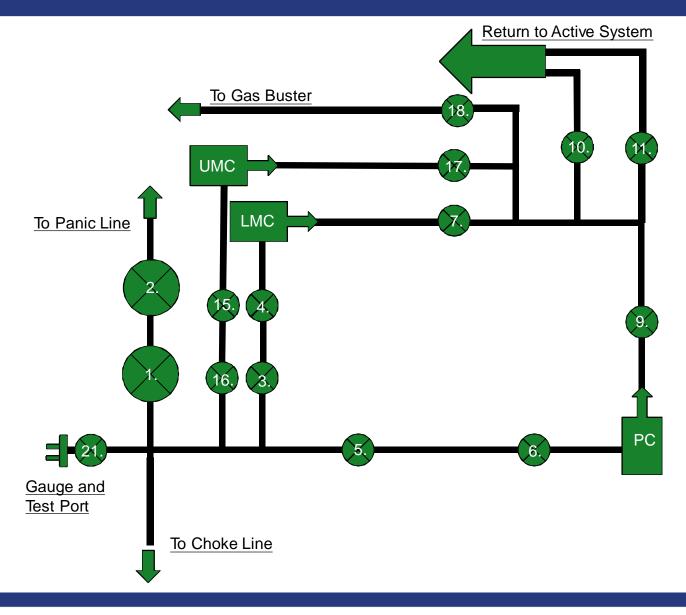
SURVEYED BY	C.T., C.S.	03-20-23	SCALE	
DRAWN BY	Z.L.	03-24-23	N/A	
SITE PLAN				

Released to Imaging: 1/8/2025 10:10:21 AM



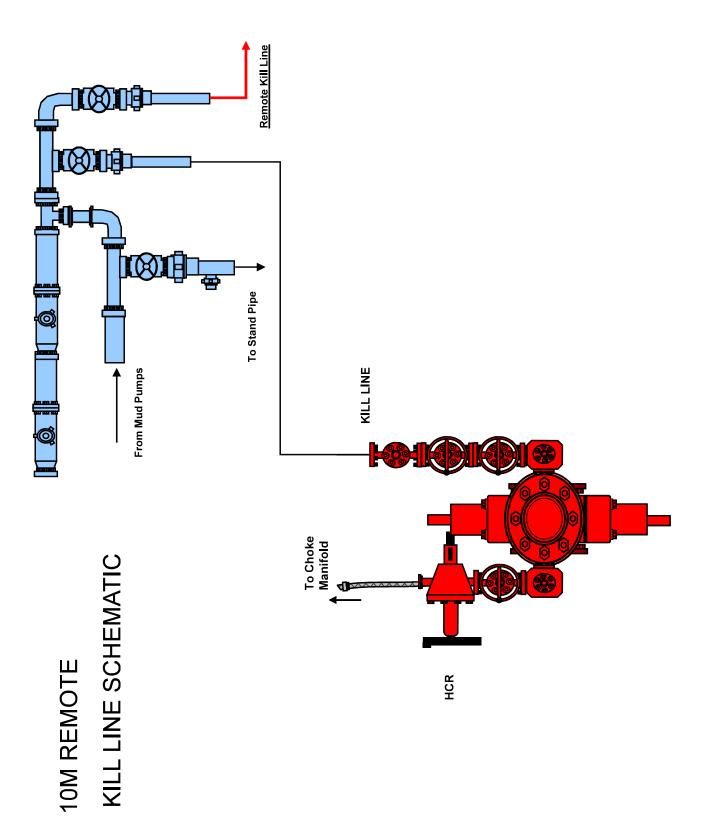


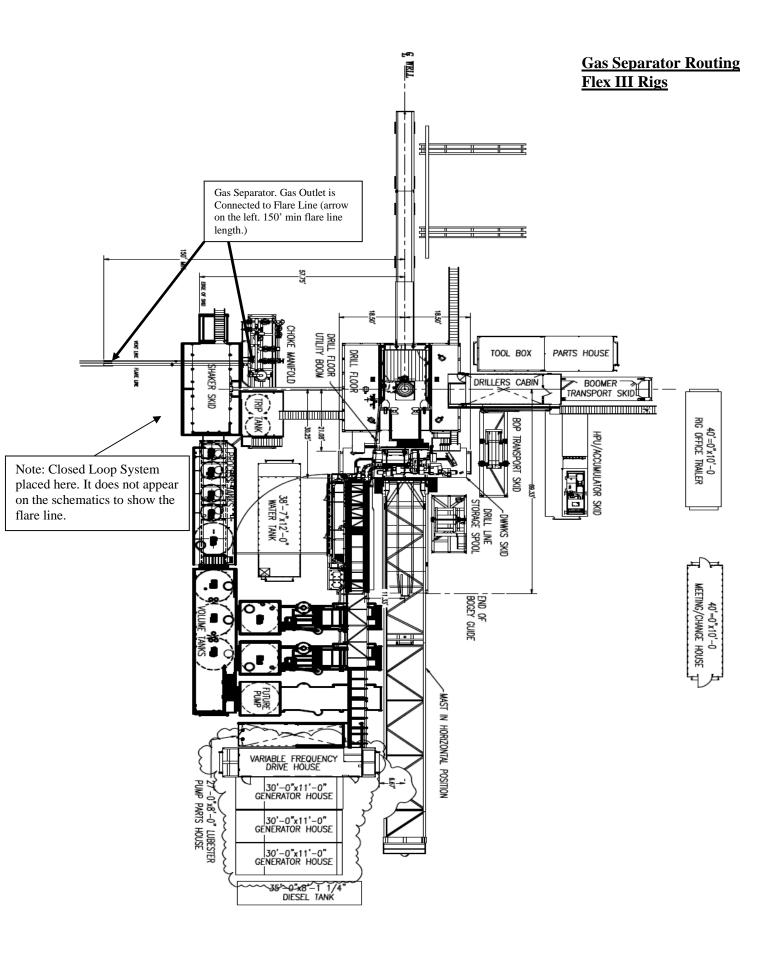
10M Choke Panel

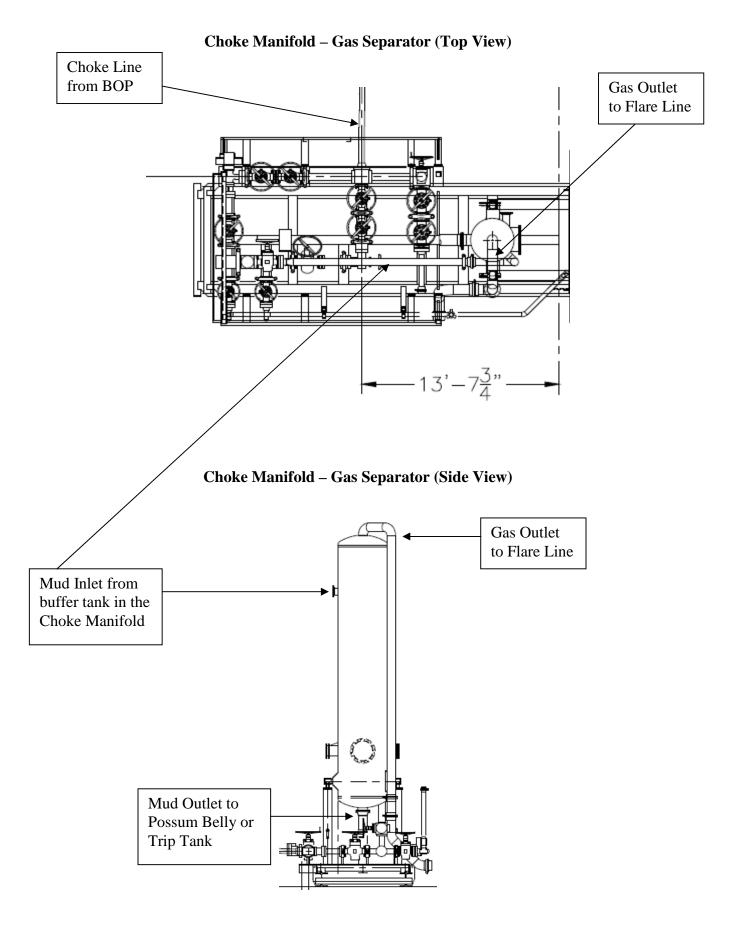


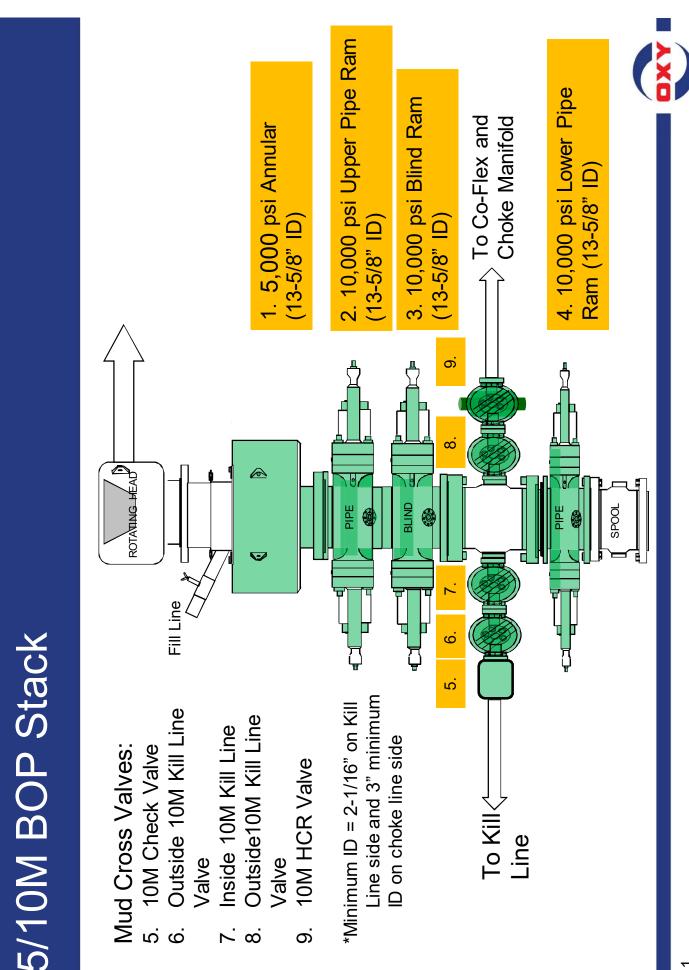
- 1. Choke Manifold Valve
- 2. Choke Manifold Valve
- 3. Choke Manifold Valve
- 4. Choke Manifold Valve
- 5. Choke Manifold Valve
- 6. Choke Manifold Valve
- 7. Choke Manifold Valve
- 8. PC Power Choke
- 9. Choke Manifold Valve
- 10. Choke Manifold Valve
- 11. Choke Manifold Valve
- 12. LMC Lower Manual 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

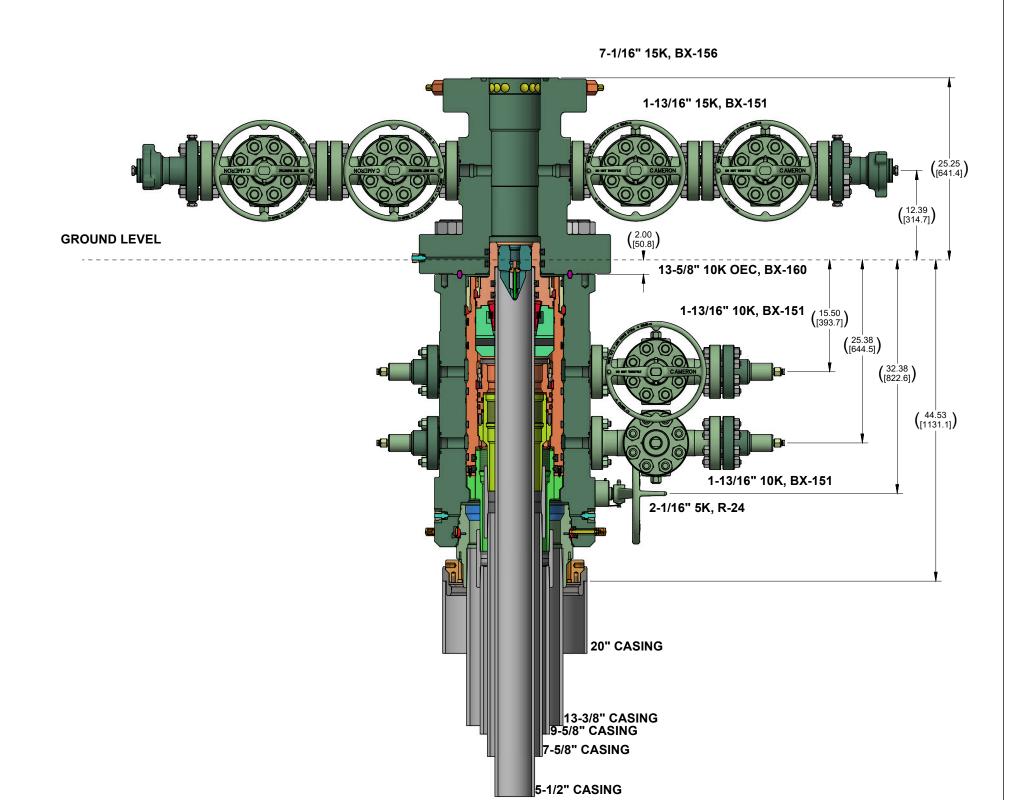












CONFIDENTIAL						
SURFACE TREATMENT	DO NOT SCALE		CAMERON		SURFACE	
	DRAWN BY: A. SKLENKA	26 Apr 22	Y	A Schlumberger Company	SYSTEMS	
MATERIAL & HEAT TREAT	CHECKED BY: A. SKLENKA	26 Apr 22	OXY ADAPT NST 10K 3 STAGE WELLHEAD			
	APPROVED BY: A. SKLENKA	26 Apr 22	STANDARD / EMERGENCY SY			
ESTIMATED 7 WEIGHT:	968.4 LBS INITIAL USE B/M: 3614.4 KG T# 7836394		SHEET 1 OF 1	LO-096232-6	2 REV: 01	

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

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	417995
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

CONDITIONS		
Created By	Condition	Condition Date
melissaguidry	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/7/2025
melissaguidry	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	1/7/2025
pkautz	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/8/2025
pkautz	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.	1/8/2025
pkautz	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.	1/8/2025

Action 417995