Form 3160-3 (June 2015)			OMB No	APPROVED 0. 1004-0137
UNITED STATES	S		Expires: Ja	nuary 31, 2018
DEPARTMENT OF THE I	5. Lease Serial No.			
BUREAU OF LAND MANA				
APPLICATION FOR PERMIT TO D	6. If Indian, Allotee	or Tribe Name		
1a. Type of work:	EENTER		7. If Unit or CA Agr	eement, Name and No.
1b. Type of Well: Oil Well Gas Well O	ther			
	-	Multiple Zone	8. Lease Name and	Well No.
ic. Type of Completion. I Hydraune Fracturing Si	ingle Zone			
2. Name of Operator			9. API Well No.	
				0-015-55471
3a. Address	3b. Phone N	o. (include area code)	10. Field and Pool, o	
4. Location of Well (Report location clearly and in accordance w	with any State	requirements.*)	11. Sec., T. R. M. or	Blk. and Survey or Area
At surface				
At proposed prod. zone				
14. Distance in miles and direction from nearest town or post offi	ìce*		12. County or Parish	n 13. State
	1			
15. Distance from proposed* location to nearest	16. No of ac	res in lease 17. Spaci	ng Unit dedicated to the	his well
property or lease line, ft.			Ÿ	
(Also to nearest drig. unit line, if any)	10 D		/BIA Bond No. in file	
18. Distance from proposed location* to nearest well, drilling, completed,	19. Proposed	20. BLM	/BIA Bond No. In life	
applied for, on this lease, ft.				
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxin	mate date work will start*	23. Estimated durati	on
	24. Attac	hments		
The following, completed in accordance with the requirements of (as applicable)	f Onshore Oil	and Gas Order No. 1, and the I	Hydraulic Fracturing r	ule per 43 CFR 3162.3-3
1. Well plat certified by a registered surveyor.		4. Bond to cover the operation	ns unless covered by ar	n existing bond on file (see
2. A Drilling Plan.		Item 20 above).	5	0
3. A Surface Use Plan (if the location is on National Forest System		 Operator certification. Such other site specific info 	rmation and/or plans as	may be requested by the
SUPO must be filed with the appropriate Forest Service Office	:).	BLM.	iniation and/or plans as	may be requested by the
25. Signature	Name	(Printed/Typed)		Date
Title				<u> </u>
Approved by (Signature)	Name	(Printed/Typed)		Date
Title	Office			L
Application approval does not warrant or certify that the applicar applicant to conduct operations thereon.	nt holds legal of	or equitable title to those rights	in the subject lease w	hich would entitle the
Conditions of approval, if any, are attached.				
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n				iny department or agency
of the United States any false, fictitious or fraudulent statements	or representati	ons as to any matter within its	jurisdiction.	



*(Instructions on page 2)

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(Continued on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

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

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

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

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

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

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

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

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

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

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

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: SWSE / 280 FSL / 1730 FEL / TWSP: 24S / RANGE: 31E / SECTION: 5 / LAT: 32.239882 / LONG: -103.796912 (TVD: 0 feet, MD: 0 feet) PPP: NENE / 2 FNL / 1000 FEL / TWSP: 24S / RANGE: 31E / SECTION: 8 / LAT: 32.239107 / LONG: -103.794551 (TVD: 10590 feet, MD: 10839 feet) PPP: NENE / 100 FNL / 1000 FEL / TWSP: 24S / RANGE: 31E / SECTION: 8 / LAT: 32.238838 / LONG: -103.794557 (TVD: 10662 feet, MD: 11142 feet) PPP: NENE / 5 FNL / 1000 FEL / TWSP: 24S / RANGE: 31E / SECTION: 17 / LAT: 32.224588 / LONG: -103.794539 (TVD: 10714 feet, MD: 16137 feet) BHL: SESE / 20 FSL / 1000 FEL / TWSP: 24S / RANGE: 31E / SECTION: 17 / LAT: 32.210137 / LONG: -103.794528 (TVD: 10770 feet, MD: 21392 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>ived b</u> <u>C-10</u>		/24/2024 10			State of New nerals & Natural	Mexico Resources Depa	urtment			Page 5 Revised July 9, 2024	
	it Electronica CD Permitting			OIL CONSERVATION DIVISION					ttal	d Report	
WELL LOCATION INFORMATION							ed				
API N	lumber		Pool Code								
	5- 55471		Pool Code 13367 Pool Name COTTON DRAW; BONE SPRIN								
Proper 334580	rty Code 0		Property N	^{ame} CH	UCK SMIT	TH MDP1 8	3_17 FE	ED CO	M ^{Well Numb} 34H	er	
OGRI 16696			Operator N		Y USA I	NC.			Ground Lev 3455'	el Elevation	
	-	State 🗆 Fee 🗆				Mineral Owner:	□ State □ F	ee 🗆 Tribal			
					Surfa	ce Location					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitud	e	Longitude	County	
Ο	5	24S	31E		280 FSL	1730 FE	32.2398	8238	103.79691248	EDDY	
					Bottom	Hole Location					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitud	-	Longitude	County	
Ρ	17	24S	31E		20 FSL	1000 FE	32.2101	3722	103.79452763	EDDY	
Dedic	ated Acres	Infill or Def	ining Well	Defining	g Well API	Overlapping Spa	cing Unit (Y/N	D Consoli	dation Code		
640		INFILL	ining wen	-	5-54092	N					
Order	Numbers.					Well setbacks are	e under Comm	nder Common Ownership: □Yes □No			
					Kick Of	f Point (KOP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitud	e	Longitude	County	
Ρ	5	24S	31E		300 FSL	_ 1000 FE	L 32.23	993768	103.79455141	EDDY	
* **						ke Point (FTP)					
UL A	Section 8	Township 24S	Range	Lot	Ft. from N/S	Ft. from E/W	Latitud		Longitude 103.79455683	County EDDY	
/ \	0	240				L TOOOT L		000010	100.10400000	LDDI	
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitud	e	Longitude	County	
Ρ	17	24S	31E		100 FSL	1000 FE	L 32.21	035713	103.79452778	EDDY	
			•	1							
Unitiz	ed Area or A	rea of Uniform	Interest	Spacing	Unit Type 🖬 Horizo	ontal 🗆 Vertical	G	round Floor	Elevation:		
I hereb my kno organiz includi locatio interes	ny certify that th wledge and be zation either ov ng the propose n pursuant to a	lief, and, if the we wns a working into d bottom hole loc. c contract with an tary pooling agree	ell is a vertical of erest or unleased ation or has a ri owner of a work	r directional w l mineral inte ght to drill the king interest of	rest in the land	¹³ SURVEYOR CERTIFIC. I hereby certify that the well shown on this plat was plotte under my supervision, and th is true and correct to the bes belify Date of Survey: NOVEMBI Signature and Seal of Profession	location d from field by me or at the same of my in 16, 2023 al Surveyor	shown on this		m field notes of actual d correct to the best of	
consen in each interva	t of at least one 1 tract (in the ta 1 vill be locare	e lessee or owner	of a working inte ation) in which ompulsory pooli	erest or unlea anv part of th	has received the sed mineral interest e well's completed the division.	LOND P. SM LOND P. SM MEXA 21653					
Signatu	ire		Date			STONAL S	urve	yor			
-	ni Mathew										
Printed	Name	@oxy.com				Certificate Number	Date of S	Survey S/2023			

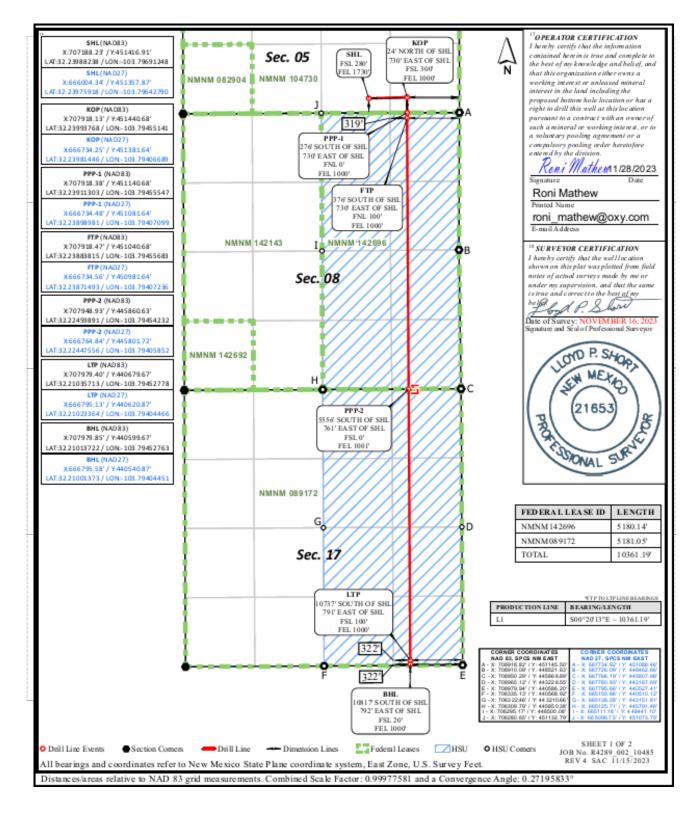
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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Received by OCD: 9/24/2024 10:17:20 AM ACREAGE DEDICATION PLATS

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

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



	E	nergy, Minerals a Oil Co 1220 S	te of New Mex and Natural Res onservation Di South St. Fran ata Fe, NM 87	ources Departme vision cis Dr.	ent		Submit Electronically Via E-permitting
	Ν	ATURAL G	AS MANA	GEMENT P	LAN		
This Natural Gas Manag	ement Plan m	ust be submitted w	ith each Applicat	ion for Permit to I	Drill (Al	PD) for a ne	ew or recompleted well.
			<u>1 – Plan D</u> ffective May 25,				
. Operator: <u>OXY US</u>	A INC.		OGRID: 16	696		Date: _1	2/ 1 4/ 2 2
I. Type: 🗹 Original 🗆] Amendment	due to □ 19.15.27	.9.D(6)(a) NMA	C 🗆 19.15.27.9.D((6)(b) N	MAC 🗆 Ot	her.
f Other, please describe	:						
II. Well(s): Provide the e recompleted from a since the second					wells pr	oposed to b	e drilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D		Anticipated Produced Water BBL/D
SEE ATTACHED							
V. Central Delivery Po 7. Anticipated Schedul proposed to be recomple	e: Provide the	following informa	tion for each nev		vell or s	L	15.27.9(D)(1) NMAC] roposed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial Flo Back Da	
SEE ATTACHED							
7I. Separation Equipm 7II. Operational Pract ubsection A through F	ices: 🗹 Attac	h a complete desc	· ·	1			
/III. Best Managemen uring active and planne	t Practices:	Attach a comple	ete description of	`Operator's best n	nanager	nent practic	es to minimize venting

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
SEE ATTACHED						

Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
SEE ATTACHED						

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Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

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Section 3 - Certifications Effective May 25, 2021

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: Leslie T. Reeves						
Printed Name: LESLIE REEVES						
Title: REGULATORY MANAGER						
E-mail Address: LESLIE_REEVES@OXY.COM						
Date: 12/14/2022						
^{Phone:} 713-497-2492						
OIL CONSERVATION DIVISION						
(Only applicable when submitted as a standalone form)						
(Only applicable when submitted as a standalone form)						
(Only applicable when submitted as a standalone form) Approved By:						
Approved By:						
Approved By: Title:						
Approved By: Title: Approval Date:						
Approved By: Title: Approval Date:						
Approved By: Title: Approval Date:						

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III. Well(s)

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
CHUCK SMITH MDP1 8_17 FED COM 1H	PENDING	C-8-T24S-R31E	361' FNL 2535' FWL	2000	4500	3900
CHUCK SMITH MDP1 8_17 FED COM 2H	PENDING	C-8-T24S-R31E	361' FNL 2565' FWL	2000	4500	3900
CHUCK SMITH MDP1 8_17 FED COM 3H	PENDING	C-8-T24S-R31E	361' FNL 2595' FWL	2000	4500	3900
CHUCK SMITH MDP1 8_17 FED COM 4H	PENDING	B-8-T24S-R31E	731' FNL 1335' FEL	2000	4500	3900
CHUCK SMITH MDP1 8_17 FED COM 5H	PENDING	B-8-T24S-R31E	701' FNL 1335' FEL	2000	4500	3900
CHUCK SMITH MDP1 8_17 FED COM 11H	PENDING	C-8-T24S-R31E	360' FNL 2445' FWL	1100	4600	3000
CHUCK SMITH MDP1 8_17 FED COM 12H	PENDING	C-8-T24S-R31E	360' FNL 2475' FWL	1100	4600	3000
CHUCK SMITH MDP1 8_17 FED COM 13H	PENDING	B-8-T24S-R31E	821' FNL 1335' FEL	1100	4600	3000
CHUCK SMITH MDP1 8_17 FED COM 14H	PENDING	B-8-T24S-R31E	791' FNL 1335' FEL	1100	4600	3000
CHUCK SMITH MDP1 8_17 FED COM 21H	PENDING	M-5-T24S-R31E	280' FSL 1305' FWL	1500	7300	2100
CHUCK SMITH MDP1 8_17 FED COM 22H	PENDING	N-5-T24S-R31E	280' FSL 1335' FWL	1500	7300	2100
CHUCK SMITH MDP1 8_17 FED COM 23H	PENDING	N-5-T24S-R31E	280' FSL 1365' FWL	1500	7300	2100
CHUCK SMITH MDP1 8_17 FED COM 24H	PENDING	O-5-T24S-R31E	279' FSL 1550' FEL	1500	7300	2100
CHUCK SMITH MDP1 8_17 FED COM 25H	PENDING	O-5-T24S-R31E	279' FSL 1520' FEL	1500	7300	2100
CHUCK SMITH MDP1 8_17 FED COM 26H	PENDING	O-5-T24S-R31E	279'FSL 1490'FEL	1500	7300	2100
CHUCK SMITH MDP1 8_17 FED COM 31H	PENDING	M-5-T24S-R31E	280' FSL 1215' FWL	2100	4700	2400
CHUCK SMITH MDP1 8_17 FED COM 32H	PENDING	M-5-T24S-R31E	280' FSL 1245' FWL	2100	4700	2400
CHUCK SMITH MDP1 8_17 FED COM 33H	PENDING	O-5-T24S-R31E	280' FSL 1760' FEL	2100	4700	2400
CHUCK SMITH MDP1 8_17 FED COM 34H	PENDING	O-5-T24S-R31E	280' FSL 1730' FEL	2100	4700	2400
CHUCK SMITH MDP1 8_17 FED COM 41H	PENDING	C-8-T24S-R31E	360' FNL 2325' FWL	800	7800	3900
CHUCK SMITH MDP1 8_17 FED COM 42H	PENDING	C-8-T24S-R31E	360' FNL 2355' FWL	800	7800	3900
CHUCK SMITH MDP1 8_17 FED COM 43H	PENDING	C-8-T24S-R31E	360' FNL 2385' FWL	800	7800	3900
CHUCK SMITH MDP1 8_17 FED COM 44H	PENDING	O-5-T24S-R31E	279' FSL 1670' FEL	800	7800	3900
CHUCK SMITH MDP1 8_17 FED COM 45H	PENDING	O-5-T24S-R31E	279' FSL 1640' FEL	800	7800	3900
CHUCK SMITH MDP1 8_17 FED COM 46H	PENDING	O-5-T24S-R31E	279' FSL 1610' FEL	800	7800	3900

V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
CHUCK SMITH MDP1 8_17 FED COM 1H	PENDING	7/15/2023	10/1/2023	10/27/2023	11/6/2023	11/7/2023
CHUCK SMITH MDP1 8_17 FED COM 2H	PENDING	7/16/2023	9/7/2023	10/27/2023	11/6/2023	11/7/2023
CHUCK SMITH MDP1 8_17 FED COM 3H	PENDING	7/17/2023	9/19/2023	10/27/2023	11/6/2023	11/7/2023
CHUCK SMITH MDP1 8_17 FED COM 4H	PENDING	7/18/2023	10/2/2023	10/25/2023	11/2/2023	11/3/2023
CHUCK SMITH MDP1 8_17 FED COM 5H	PENDING	7/19/2023	10/14/2023	10/25/2023	11/2/2023	11/3/2023
CHUCK SMITH MDP1 8_17 FED COM 11H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 12H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 13H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 14H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 21H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 22H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 23H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 24H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 25H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 26H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 31H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 32H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 33H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 34H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 41H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 42H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 43H	PENDING	TBD	TBD	TBD	TBD	TBD
CHUCK SMITH MDP1 8_17 FED COM 44H	PENDING	10/1/2023	12/16/2023	1/31/2024	2/10/2024	2/11/2024
CHUCK SMITH MDP1 8_17 FED COM 45H	PENDING	10/2/2023	1/15/2024	1/31/2024	2/10/2024	2/11/2024
CHUCK SMITH MDP1 8_17 FED COM 46H	PENDING	10/3/2023	12/31/2023	1/31/2024	2/10/2024	2/11/2024

•

Part VI. Separation Equipment

Operator will size the flowback separator to handle 11,000 Bbls of fluid and 6-10MMscfd which is more than the expected peak rates for these wells. Each separator is rated to 1440psig, and pressure control valves and automated communication will cause the wells to shut in in the event of an upset at the facility, therefore no gas will be flared on pad during an upset. Current Oxy practices avoid use of flare or venting on pad, therefore if there is an upset or emergency condition at the facility, the wells will immediately shut down, and reassume production once the condition has cleared.

VII. Operational Practices

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, where a gas transporter system is in place. The gas produced from production facility is dedicated to Enterprise Field Services, LLC ("Enterprise") and is connected to Enterprise low/high pressure gathering system located in Eddy County, New Mexico. OXY USA INC. ("OXY") provides (periodically) to Enterprise a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, OXY and Enterprise have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Enterprise's Processing Plant located in Sec. 36, Twn. 24S, Rng. 30E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Enterprise system at that time. Based on current information, it is OXY's belief the system can take this gas upon completion of the well(s).

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

VIII. Best Management Practices

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

• Power Generation – On lease

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

•Compressed Natural Gas – On lease

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

•NGL Removal – On lease

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

Oxy USA Inc. - Chuck Smith MDP1 8_17 Fed Com 34H Drill Plan

1. Geologic Formations

TVD of Target (ft):	10763	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	21384	Deepest Expected Fresh Water (ft):	542

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	542	542	
Salado	869	869	Salt
Castile	2750	2750	Salt
Delaware	4287	4287	Oil/Gas/Brine
Bell Canyon	4321	4321	Oil/Gas/Brine
Cherry Canyon	5223	5222	Oil/Gas/Brine
Brushy Canyon	6448	6419	Losses
Bone Spring	8241	8159	Oil/Gas
Bone Spring 1st	9298	9185	Oil/Gas
Bone Spring 2nd	9964	9831	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	Τ\	/D					
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	14.75	0	809	0	809	10.75	45.5	J-55	BTC
Intermediate	9.875	0	10141	0	9999	7.625	26.4	L-80 HC	BTC
Production	6.75	0	21384	0	10763	5.5	20	P-110	Wedge 461

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

*Oxy requests the option to run production casing with DQX, TORQ DQW, Wedge 425, Wedge 461, and/or Wedge 441 connections to accommodate hole conditions or drilling operations.

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

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

- 1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
- 2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	I
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	I
Is well located within Capitan Reef?	Ν
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	Y
500' into previous casing?	1
Is well located in R-111-P and SOPA?	Ν
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?	Ν
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?	Ν
If yes, are there three strings cemented to surface?	

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (Ib/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	677	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	471	1.65	13.2	5%	6,698	Circulate	Class H+Accel., Disper., Salt
Int.	2	Intermediate 2S - Tail BH	1035	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	887	1.38	13.2	25%	9,641	Circulate	Class H+Ret., Disper., Salt

Offline Cementing

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.

The summarized operational sequence will be as follows:

Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).

Land casing.

Fill pipe with kill weight fluid, and confirm well is static.

If well 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.

The summarized operational sequence will be as follows:

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
- 2. Land casing.
- 3. Fill pipe with kill weight fluid, and confirm well is static.
 - a. If well is not static notify BLM and kill well.
 - b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
- 4. Set and pressure test annular packoff.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed.
- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange.
- 8. If well is not static notify BLM and kill well prior to cementing or nippling up for further remediation.
- 9. Install offline cement tool.
- 10. Rig up cement equipment.
 - a. Notify BLM prior to cement job.
- 11. Perform cement job.
- 12. Confirm well is static and floats are holding after cement job.
- 13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

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.

Three string wells:

- CBL will be required on one well per pad
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

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:
		3M		Annular	\	70% of working pressure	
	13-5/8"			Blind Ram	\		
9.875" Hole		ЗМ		Pipe Ram		250 psi / 3000 psi	9999
		SIVI	Double Ram		<	230 psi / 3000 psi	
			Other*				
	13-5/8"	5M		Annular	√	70% of working pressure	
			Blind Ram 🖌]	
6.75" Hole		514		Pipe Ram		250 poi / 5000 poi	10763
		5M		Double Ram	\	250 psi / 5000 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 Onshore Order 2 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.

Formation integrity test will be performed per Onshore Order #2.

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 Onshore Oil and Gas Order #2 III.B.1.i.

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 Onshore Order #2 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.

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.

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

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

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

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

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 - MD		Depth - TVD		Trme	Weight	Viscosity	Water	
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	viscosity	Loss	
Surface	0	809	0	809	Water-Based Mud	8.6 - 8.8	40-60	N/C	
Intermediate	809	10141	809	9999	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C	
Production	10141	21384	9999	10763	Water-Based or Oil- Based Mud	9.5 - 12.5	38-50	N/C	

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

What will be used to monitor the	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6996 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	167°F

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. 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 sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe.Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

Total Estimated Cuttings Volume: 1553 bbls

Attachments

- _x__ Directional Plan
- _x__ H2S Contingency Plan
- _x__ Flex III Attachments
- _x__ Spudder Rig Attachment
- _x__ Premium Connection Specs

9. Company Personnel

Name	<u>Title</u>	Office Phone	Mobile Phone
Garrett Granier	Drilling Engineer	713-513-6633	832-265-0581
Derek Adam	Drilling Engineer Supervisor	713-366-5170	916-802-8873
Casey Martin	Drilling Superintendent	713-497-2530	337-764-4278
Kevin Threadgill	Drilling Manager	713-366-5958	361-815-0788

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) Chuck Smith MDP1 8_17 Chuck Smith MDP1 8_17 Fed Com 34H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

03 November, 2022

OXY Planning Report

Database: Company: Project: Site: Well: Well: Wellbore: Design:	PRD N Chuck Chuck Wellbo	IEERING DES IM DIRECTIC Smith MDP1 Smith MDP1	NAL PLANS	,	TVD Refe MD Refer North Ref	ence:		Well Chuck Smi RKB=25' @ 348 RKB=25' @ 348 Grid Minimum Curva	0.00ft	Fed Com 34H
Project	PRD N	VI DIRECTION	NAL PLANS (NAD 1983)						
Map System: Geo Datum: Map Zone:	North Am	e Plane 1983 herican Datum kico Eastern Z			System Da	tum:		an Sea Level	ale factor	
Site	Chuck S	Smith MDP1 8	3_17							
Site Position: From: Position Uncertain	Map ty:	0.89 f	North Easti ft Slot F	•	705,7	65.22 usft 84.47 usft 3.200 in	Latitude: Longitude:			32.23783 -103.80146
Well	Chuck S	smith MDP1 8	3_17 Fed Com	34H						
Well Position Position Uncertain Grid Convergence	•	0.0 2.0	00 ft E a	orthing: asting: ellhead Elev	ation:	451,416.91 707,188.23	usf Lor	tude: igitude: und Level:		32.23988 -103.79691 3,455.00 ft
Wellbore	Wellbo	re #1								
Magnetics	Мос	del Name	Sampl	e Date	Declina (°)	tion	Dip A (°		Field Stro (nT)	•
		HDGM_FILE	1	2/26/2019		6.72		59.90	47,874	8000000
Design	Permitti	ng Plan								
Audit Notes: Version:			Phas	e:	PROTOTYPE	Tie	On Depth:	(0.00	
Vertical Section:		D	epth From (T (ft) 7.50	VD)	+N/-S (ft) 0.00	(f	/ -W ft) 00	(ection (°) 2.56	
Plan Survey Tool I Depth From (ft) 1 0.00	Depth (ft)	i To) Survey	11/3/2022 / (Wellbore) ing Plan (Wel	lbore #1)	Tool Name B001Mb_MW OWSG MWD		Remarks			
Plan Sections										
Measured	ination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
Depth Incl				0.00	0.00	0.00	0.00	0.00	0.00	
Depth Incl	0.00 0.00 14.00 14.00 89.40	0.00 0.00 89.92 89.92 179.66	0.00 4,545.00 5,930.97 10,106.36 10,662.02	0.00 0.00 0.24 1.68 -564.60	0.00 170.16 1,211.09 1,351.46	0.00 1.00 0.00 10.00	0.00 1.00 0.00 8.44	0.00 0.00 0.00 10.04	0.00 89.92 0.00 89.90	

Database:	HOPSPP	Local Co-ordinate Reference:	Well Chuck Smith MDP1 8_17 Fed Com 34H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3480.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3480.00ft
Site:	Chuck Smith MDP1 8_17	North Reference:	Grid
Well:	Chuck Smith MDP1 8_17 Fed Com 34H	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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1.800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
								0.00	
2,500.00 2,600.00	0.00 0.00	0.00 0.00	2,500.00 2,600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00 0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,545.00	0.00	0.00	4,545.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.55	89.92	4,600.00	0.00	0.26	0.03	1.00	1.00	0.00
4,700.00	1.55	89.92	4,699.98	0.00	2.10	0.27	1.00	1.00	0.00
4,800.00	2.55	89.92	4,799.92	0.01	5.67	0.73	1.00	1.00	0.00
4,900.00	3.55	89.92	4,899.77	0.02	10.99	1.41	1.00	1.00	0.00
5,000.00	4.55	89.92	4,999.52	0.03	18.06	2.31	1.00	1.00	0.00
5,100.00	5.55	89.92	5,099.13	0.04	26.86	3.44	1.00	1.00	0.00
5,200.00	6.55	89.92	5,198.57	0.05	37.40	4.79	1.00	1.00	0.00
5,300.00	7.55	89.92	5,297.82	0.07	49.67	6.36	1.00	1.00	0.00

Database:	HOPSPP	Local Co-ordinate Reference:	Well Chuck Smith MDP1 8_17 Fed Com 34H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3480.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3480.00ft
Site:	Chuck Smith MDP1 8_17	North Reference:	Grid
Well:	Chuck Smith MDP1 8_17 Fed Com 34H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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5,500.00 9.55 89.92 5,495.58 0.11 79.41 10.17 1.00 1.00 0.0 5,600.00 10.55 89.92 5,594.05 0.13 96.86 12.40 1.00 1.00 0.0 5,700.00 11.55 89.92 5,692.19 0.16 116.02 14.86 1.00 1.00 0.0 5,800.00 12.55 89.92 5,789.99 0.19 136.90 17.53 1.00 1.00 0.0 5,900.00 13.55 89.92 5,887.40 0.22 159.48 20.42 1.00 1.00 0.0 5,944.86 14.00 89.92 5,930.97 0.24 170.16 21.79 1.00 1.00 0.0 6,000.00 14.00 89.92 5,984.48 0.26 183.50 23.50 0.00 0.00 0.0	
5,600.00 10.55 89.92 5,594.05 0.13 96.86 12.40 1.00 1.00 0.0 5,700.00 11.55 89.92 5,692.19 0.16 116.02 14.86 1.00 1.00 0.0 5,800.00 12.55 89.92 5,789.99 0.19 136.90 17.53 1.00 1.00 0.0 5,900.00 13.55 89.92 5,887.40 0.22 159.48 20.42 1.00 1.00 0.0 5,944.86 14.00 89.92 5,930.97 0.24 170.16 21.79 1.00 1.00 0.0 6,000.00 14.00 89.92 5,984.48 0.26 183.50 23.50 0.00 0.00 0.0	
5,700.00 11.55 89.92 5,692.19 0.16 116.02 14.86 1.00 1.00 0.0 5,800.00 12.55 89.92 5,789.99 0.19 136.90 17.53 1.00 1.00 0.0 5,900.00 13.55 89.92 5,887.40 0.22 159.48 20.42 1.00 1.00 0.0 5,944.86 14.00 89.92 5,930.97 0.24 170.16 21.79 1.00 1.00 0.0 6,000.00 14.00 89.92 5,984.48 0.26 183.50 23.50 0.00 0.00 0.0	
5,800.00 12.55 89.92 5,789.99 0.19 136.90 17.53 1.00 1.00 0.0 5,900.00 13.55 89.92 5,887.40 0.22 159.48 20.42 1.00 1.00 0.0 5,944.86 14.00 89.92 5,930.97 0.24 170.16 21.79 1.00 1.00 0.0 6,000.00 14.00 89.92 5,984.48 0.26 183.50 23.50 0.00 0.00 0.0	
5,900.0013.5589.925,887.400.22159.4820.421.001.000.05,944.8614.0089.925,930.970.24170.1621.791.001.000.06,000.0014.0089.925,984.480.26183.5023.500.000.000.0	
5,944.86 14.00 89.92 5,930.97 0.24 170.16 21.79 1.00 1.00 0.0 6,000.00 14.00 89.92 5,984.48 0.26 183.50 23.50 0.00 0.00 0.00	
6,000.00 14.00 89.92 5,984.48 0.26 183.50 23.50 0.00 0.00 0.0	
6,200.00 14.00 89.92 6,178.54 0.32 231.88 29.70 0.00 0.00 0.00	0
6,300.00 14.00 89.92 6,275.57 0.36 256.07 32.79 0.00 0.00 0.0	
6,400.00 14.00 89.92 6,372.60 0.39 280.26 35.89 0.00 0.00 0.0	0
6,500.00 14.00 89.92 6,469.63 0.42 304.45 38.99 0.00 0.00 0.0	0
6,600.00 14.00 89.92 6,566.66 0.46 328.64 42.09 0.00 0.00 0.0	0
6,700.00 14.00 89.92 6,663.69 0.49 352.83 45.19 0.00 0.00 0.0	
6,800.00 14.00 89.92 6,760.72 0.52 377.02 48.28 0.00 0.00 0.0	0
6,900.00 14.00 89.92 6,857.75 0.56 401.21 51.38 0.00 0.00 0.0	
7,000.00 14.00 89.92 6,954.78 0.59 425.40 54.48 0.00 0.00 0.00	
7,100.00 14.00 89.92 7,051.81 0.63 449.58 57.58 0.00 0.00 0.0	
7,200.00 14.00 89.92 7,148.84 0.66 473.77 60.68 0.00 0.00 0.00 0.00	
7,300.00 14.00 89.92 7,245.87 0.69 497.96 63.77 0.00 0.00 0.0	
7,400.00 14.00 89.92 7,342.90 0.73 522.15 66.87 0.00 0.00 0.00	
7,500.00 14.00 89.92 7,342.90 0.75 522.15 66.67 0.00 0.00 0.00 0.00 0.00	
7,600.00 14.00 89.92 7,536.96 0.79 570.53 73.07 0.00 0.00 0.00 7,700.00 14.00 80.02 7,632.00 0.82 504.72 76.47 0.00 0.00 0.00	
7,700.00 14.00 89.92 7,633.99 0.83 594.72 76.17 0.00 0.00 0.0	
7,800.00 14.00 89.92 7,731.02 0.86 618.91 79.26 0.00 0.00 0.00 7,000.00 14.00 80.92 7,731.02 0.86 618.91 79.26 0.00 <t< th=""><td></td></t<>	
7,900.00 14.00 89.92 7,828.05 0.89 643.10 82.36 0.00 0.00 0.0	
8,000.00 14.00 89.92 7,925.08 0.93 667.29 85.46 0.00 0.00 0.00	
8,100.00 14.00 89.92 8,022.11 0.96 691.48 88.56 0.00 0.00 0.00	
8,200.00 14.00 89.92 8,119.14 0.99 715.67 91.66 0.00 0.00 0.0	
8,300.00 14.00 89.92 8,216.17 1.03 739.86 94.75 0.00 0.00 0.00	
8,400.00 14.00 89.92 8,313.20 1.06 764.05 97.85 0.00 0.00 0.0	
8,500.00 14.00 89.92 8,410.23 1.10 788.24 100.95 0.00 0.00 0.0	
8,600.00 14.00 89.92 8,507.26 1.13 812.43 104.05 0.00 0.00 0.0	0
8,700.00 14.00 89.92 8,604.29 1.16 836.62 107.14 0.00 0.00 0.00	0
8,800.00 14.00 89.92 8,701.32 1.20 860.81 110.24 0.00 0.00 0.0	
8,900.00 14.00 89.92 8,798.35 1.23 885.00 113.34 0.00 0.00 0.0	
9,000.00 14.00 89.92 8,895.38 1.26 909.19 116.44 0.00 0.00 0.0	
9,100.00 14.00 89.92 8,992.41 1.30 933.38 119.54 0.00 0.00 0.0	
9,200.00 14.00 89.92 9,089.44 1.33 957.57 122.63 0.00 0.00 0.0	
9.300.00 14.00 89.92 9.186.47 1.36 981.76 125.73 0.00 0.00 0.0	0
9,400.00 14.00 89.92 9,283.50 1.40 1,005.95 128.83 0.00 0.00 0.0	
9,500.00 14.00 89.92 9,380.53 1.43 1,030.14 131.93 0.00 0.00 0.0	
9,600.00 14.00 89.92 9,477.56 1.47 1,054.33 135.03 0.00 0.00 0.0	
9,700.00 14.00 89.92 9,574.59 1.50 1,078.52 138.12 0.00 0.00 0.00	
9,800.00 14.00 89.92 9,671.62 1.53 1,102.71 141.22 0.00 0.00 0.0	
9,900.00 14.00 89.92 9,768.65 1.57 1,126.90 144.32 0.00 0.00 0.0	
10,000.00 14.00 89.92 9,865.68 1.60 1,151.09 147.42 0.00 0.00 0.00	
10,100.00 14.00 89.92 9,962.71 1.63 1,175.28 150.52 0.00 0.00 0.0	
10,100.00 14.00 89.92 9,902.71 1.03 1,173.28 130.32 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
10,248.04 14.00 89.92 10,106.36 1.68 1,211.09 155.10 0.00 0.00 0.0	
10,248.04 14.00 89.92 10,106.36 1.66 1,211.09 135.10 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
10,500.00 28.62 152.63 10,343.01 -52.75 1,270.26 216.73 10.00 8.05 14.4 10,600.00 37.56 160.90 10.426.74 -102.95 1,291.30 269.24 10.00 8.94 8.2	
10,600.00 37.56 160.90 10,426.74 -102.95 1,291.30 269.24 10.00 8.94 8.2	.1

Database:	HOPSPP	Local Co-ordinate Reference:	Well Chuck Smith MDP1 8_17 Fed Com 34H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3480.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3480.00ft
Site:	Chuck Smith MDP1 8_17	North Reference:	Grid
Well:	Chuck Smith MDP1 8_17 Fed Com 34H	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	46.89	166.32	10,500.74	-167.38	1,309.96	335.54	10.00	9.32	5.42
10,800.00	56.40	170.28	10,562.74	-244.09	1,325.67	413.64	10.00	9.51	3.96
10,900.00	66.00	173.44	10,610.87	-330.73	1,337.95	501.14	10.00	9.61	3.16
11,000.00	75.67	176.16	10,643.66	-424.69	1,346.43	595.40	10.00	9.67	2.72
11,100.00	85.36	178.66	10,660.12	-523.10	1,350.85	693.56	10.00	9.69	2.49
11,141.56	89.40 89.40	179.66 179.66	10,662.02 10.662.63	-564.60 -623.03	1,351.46 1,351.80	734.79 792.78	10.00 0.00	9.70 0.00	2.43 0.00
	89.40	179.66	10,663.69	-723.03	1,351.80	892.01	0.00	0.00	0.00
11,300.00	89.40	179.66	10,664.74	-823.02	1,352.39	991.23	0.00	0.00	0.00
11,400.00	89.40	179.66	10,665.79	-023.02	1,352.96	1,090.46	0.00	0.00	0.00
						,			
11,600.00	89.40	179.66	10,666.85	-1,023.01	1,354.15	1,189.69	0.00	0.00	0.00
11,700.00	89.40	179.66	10,667.90	-1,123.00	1,354.74	1,288.92	0.00	0.00	0.00
11,800.00	89.40	179.66	10,668.95	-1,222.99	1,355.33	1,388.14	0.00	0.00	0.00
11,900.00	89.40	179.66	10,670.01	-1,322.98	1,355.91	1,487.37	0.00	0.00	0.00
12,000.00	89.40	179.66	10,671.06	-1,422.98	1,356.50	1,586.60	0.00	0.00	0.00
12,100.00	89.40	179.66	10,672.11	-1,522.97	1,357.09	1,685.83	0.00	0.00	0.00
12,200.00	89.40	179.66	10,673.17	-1,622.96	1,357.68	1,785.05	0.00	0.00	0.00
12,300.00	89.40	179.66	10,674.22	-1,722.95	1,358.27	1,884.28	0.00	0.00	0.00
12,400.00	89.40	179.66	10,675.27	-1,822.95	1,358.85	1,983.51	0.00	0.00	0.00
12,500.00	89.40	179.66	10,676.33	-1,922.94	1,359.44	2,082.74	0.00	0.00	0.00
12,600.00	89.40	179.66	10,677.38	-2,022.93	1,360.03	2,181.96	0.00	0.00	0.00
12,700.00	89.40	179.66	10,678.43	-2,122.93	1,360.62	2,281.19	0.00	0.00	0.00
12,800.00	89.40	179.66	10,679.49	-2,222.92	1,361.20	2,380.42	0.00	0.00	0.00
12,900.00	89.40	179.66	10,680.54	-2,322.91	1,361.79	2,479.65	0.00	0.00	0.00
13,000.00	89.40	179.66	10,681.59	-2,422.90	1,362.38	2,578.87	0.00	0.00	0.00
13,100.00	89.40	179.66	10,682.65	-2,522.90	1,362.97	2,678.10	0.00	0.00	0.00
13,200.00	89.40	179.66	10,683.70	-2,622.89	1,363.55	2,777.33	0.00	0.00	0.00
13,300.00	89.40	179.66	10,684.76	-2,722.88	1,364.14	2,876.56	0.00	0.00	0.00
13,400.00	89.40	179.66	10,685.81	-2,822.87	1,364.73	2,975.78	0.00	0.00	0.00
13,500.00	89.40	179.66	10,686.86	-2,922.87	1,365.32	3,075.01	0.00	0.00	0.00
13,600.00	89.40	179.66	10,687.92	-3,022.86	1,365.91	3,174.24	0.00	0.00	0.00
13,700.00	89.40	179.66	10,688.97	-3,122.85	1,366.49	3,273.47	0.00	0.00	0.00
13,800.00	89.40	179.66	10,690.02	-3,222.85	1,367.08	3,372.69	0.00	0.00	0.00
13,900.00	89.40	179.66	10,691.08	-3,322.84	1,367.67	3,471.92	0.00	0.00	0.00
14,000.00	89.40	179.66	10,692.13	-3,422.83	1,368.26	3,571.15	0.00	0.00	0.00
14,100.00	89.40	179.66	10,693.18	-3,522.82	1,368.84	3,670.38	0.00	0.00	0.00
14,200.00	89.40	179.66	10,694.24	-3,622.82	1,369.43	3,769.60	0.00	0.00	0.00
14,300.00	89.40	179.66	10,695.29	-3,722.81	1,370.02	3,868.83	0.00	0.00	0.00
14,400.00	89.40	179.66	10,696.34	-3,822.80	1,370.61	3,968.06	0.00	0.00	0.00
14,500.00	89.40	179.66	10,697.40	-3,922.79	1,371.20	4,067.29	0.00	0.00	0.00
14,600.00	89.40	179.66	10,698.45	-4,022.79	1,371.78	4,166.51	0.00	0.00	0.00
14,700.00	89.40	179.66	10,699.50	-4,122.78	1,372.37	4,265.74	0.00	0.00	0.00
14,800.00	89.40	179.66	10,700.56	-4,222.77	1,372.96	4,364.97	0.00	0.00	0.00
14,900.00	89.40	179.66	10,701.61	-4,322.77	1,373.55	4,464.20	0.00	0.00	0.00
15,000.00	89.40	179.66	10,702.66	-4,422.76	1,374.13	4,563.42	0.00	0.00	0.00
15,100.00	89.40	179.66	10,703.72	-4,522.75	1,374.72	4,662.65	0.00	0.00	0.00
15,200.00	89.40	179.66	10,704.77	-4,622.74	1,375.31	4,761.88	0.00	0.00	0.00
15,300.00	89.40	179.66	10,705.83	-4,722.74	1,375.90	4,861.11	0.00	0.00	0.00
15,400.00	89.40	179.66	10,706.88	-4,822.73	1,376.48	4,960.33	0.00	0.00	0.00
15,500.00	89.40	179.66	10,707.93	-4,922.72	1,377.07	5,059.56	0.00	0.00	0.00
15,600.00	89.40	179.66	10,708.99	-5,022.71	1,377.66	5,158.79	0.00	0.00	0.00
15,700.00	89.40	179.66	10,710.04	-5,122.71	1,378.25	5,258.02	0.00	0.00	0.00
15,800.00	89.40	179.66	10,711.09	-5,222.70	1,378.84	5,357.24	0.00	0.00	0.00
15,900.00	89.40	179.66	10,712.15	-5,322.69	1,379.42	5,456.47	0.00	0.00	0.00
16,000.00	89.40	179.66	10,713.20	-5,422.69	1,380.01	5,555.70	0.00	0.00	0.00
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Database:	HOPSPP	Local Co-ordinate Reference:	Well Chuck Smith MDP1 8_17 Fed Com 34H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3480.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3480.00ft
Site:	Chuck Smith MDP1 8_17	North Reference:	Grid
Well:	Chuck Smith MDP1 8_17 Fed Com 34H	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	89.40	179.66	10,714.25	-5,522.68	1,380.60	5,654.93	0.00	0.00	0.00
16,200.00	89.40	179.66	10,715.31	-5,622.67	1,381.19	5,754.15	0.00	0.00	0.00
16,300.00	89.40	179.66	10,716.36	-5,722.66	1,381.77	5,853.38	0.00	0.00	0.00
16,400.00	89.40	179.66	10,717.41	-5,822.66	1,382.36	5,952.61	0.00	0.00	0.00
16,500.00	89.40	179.66	10,718.47	-5,922.65	1,382.95	6,051.84	0.00	0.00	0.00
16,600.00	89.40	179.66	10,719.52	-6,022.64	1,383.54	6,151.06	0.00	0.00	0.00
16,700.00	89.40	179.66	10,720.57	-6,122.63	1,384.12	6,250.29	0.00	0.00	0.00
16,800.00	89.40	179.66	10,721.63	-6,222.63	1,384.71	6,349.52	0.00	0.00	0.00
16,900.00	89.40	179.66	10,722.68	-6,322.62	1,385.30	6,448.75	0.00	0.00	0.00
17,000.00	89.40	179.66	10,723.73	-6,422.61	1,385.89	6,547.97	0.00	0.00	0.00
17,100.00	89.40	179.66	10,724.79	-6,522.61	1,386.48	6,647.20	0.00	0.00	0.00
17,200.00	89.40	179.66	10,725.84	-6,622.60	1,387.06	6,746.43	0.00	0.00	0.00
17,300.00	89.40	179.66	10,726.90	-6,722.59	1,387.65	6,845.66	0.00	0.00	0.00
17,400.00	89.40	179.66	10,727.95	-6,822.58	1,388.24	6,944.88	0.00	0.00	0.00
17,500.00	89.40	179.66	10,729.00	-6,922.58	1,388.83	7,044.11	0.00	0.00	0.00
17,600.00	89.40	179.66	10,730.06	-7,022.57	1,389.41	7,143.34	0.00	0.00	0.00
17,700.00	89.40	179.66	10,731.11	-7,122.56	1,390.00	7,242.57	0.00	0.00	0.00
17,800.00	89.40	179.66	10,732.16	-7,222.55	1,390.59	7,341.79	0.00	0.00	0.00
17,900.00	89.40	179.66	10,733.22	-7,322.55	1,391.18	7,441.02	0.00	0.00	0.00
18,000.00	89.40	179.66	10,734.27	-7,422.54	1,391.76	7,540.25	0.00	0.00	0.00
18,100.00	89.40	179.66	10,735.32	-7,522.53	1,392.35	7,639.48	0.00	0.00	0.00
18,200.00	89.40	179.66	10,736.38	-7,622.53	1,392.94	7,738.70	0.00	0.00	0.00
18,300.00	89.40	179.66	10,737.43	-7,722.52	1,393.53	7,837.93	0.00	0.00	0.00
18,400.00	89.40	179.66	10,738.48	-7,822.51	1,394.12	7,937.16	0.00	0.00	0.00
18,500.00	89.40	179.66	10,739.54	-7,922.50	1,394.70	8,036.39	0.00	0.00	0.00
18,600.00	89.40	179.66	10,740.59	-8,022.50	1,395.29	8,135.61	0.00	0.00	0.00
18,700.00	89.40	179.66	10,741.64	-8,122.49	1,395.88	8,234.84	0.00	0.00	0.00
18,800.00	89.40	179.66	10,742.70	-8,222.48	1,396.47	8,334.07	0.00	0.00	0.00
18,900.00	89.40	179.66	10,743.75	-8,322.47	1,397.05	8,433.30	0.00	0.00	0.00
19,000.00	89.40	179.66	10,744.81	-8,422.47	1,397.64	8,532.52	0.00	0.00	0.00
19,100.00	89.40	179.66	10,745.86	-8,522.46	1,398.23	8,631.75	0.00	0.00	0.00
19,200.00	89.40	179.66	10,746.91	-8,622.45	1,398.82	8,730.98	0.00	0.00	0.00
19,300.00	89.40	179.66	10,747.97	-8,722.45	1,399.40	8,830.21	0.00	0.00	0.00
19,400.00	89.40	179.66	10,749.02	-8,822.44	1,399.99	8,929.43	0.00	0.00	0.00
19,500.00	89.40	179.66	10,750.07	-8,922.43	1,400.58	9,028.66	0.00	0.00	0.00
19,600.00	89.40	179.66	10.751.13	-9,022.42	1,401.17	9,127.89	0.00	0.00	0.00
19,700.00	89.40	179.66	10,752.18	-9,122.42	1,401.76	9,227.12	0.00	0.00	0.00
19,800.00	89.40	179.66	10,753.23	-9,222.41	1,402.34	9,326.34	0.00	0.00	0.00
19,900.00	89.40	179.66	10,754.29	-9,322.40	1,402.93	9,425.57	0.00	0.00	0.00
20,000.00	89.40	179.66	10,755.34	-9,422.39	1,403.52	9,524.80	0.00	0.00	0.00
20,100.00	89.40	179.66	10,756.39	-9,522.39	1,404.11	9,624.03	0.00	0.00	0.00
20,200.00	89.40	179.66	10,757.45	-9,622.38	1,404.69	9,723.25	0.00	0.00	0.00
20,300.00	89.40	179.66	10,758.50	-9,722.37	1,405.28	9,822.48	0.00	0.00	0.00
20,400.00	89.40	179.66	10,759.55	-9,822.37	1,405.87	9,921.71	0.00	0.00	0.00
20,500.00	89.40	179.66	10,760.61	-9,922.36	1,406.46	10,020.94	0.00	0.00	0.00
20.600.00	89.40	179.66	10,761.66	-10,022.35	1,407.04	10,120.16	0.00	0.00	0.00
20,700.00	89.40	179.66	10,762.71	-10,122.34	1,407.63	10,219.39	0.00	0.00	0.00
20,800.00	89.40	179.66	10,763.77	-10,222.34	1,408.22	10,318.62	0.00	0.00	0.00
20,900.00	89.40	179.66	10,764.82	-10,322.33	1,408.81	10,417.85	0.00	0.00	0.00
21,000.00	89.40	179.66	10,765.88	-10,422.32	1,409.40	10,517.07	0.00	0.00	0.00
21,100.00	89.40	179.66	10,766.93	-10,522.31	1,409.98	10,616.30	0.00	0.00	0.00
21,100.00	89.40 89.40	179.66	10,766.93	-10,522.31	1,409.98	10,616.30	0.00	0.00	0.00
21,200.00	89.40 89.40	179.66	10,767.98	-10,622.31	1,410.57	10,715.53	0.00	0.00	0.00
21,300.00	89.40 89.40	179.66	10,769.04	-10,722.30	1,411.10	10,814.76	0.00	0.00	0.00
21,591.50	03.40	179.00	10,770.00	10,013.03	1,-11.70	10,000.01	0.00	0.00	0.00

OXY **Planning Report**

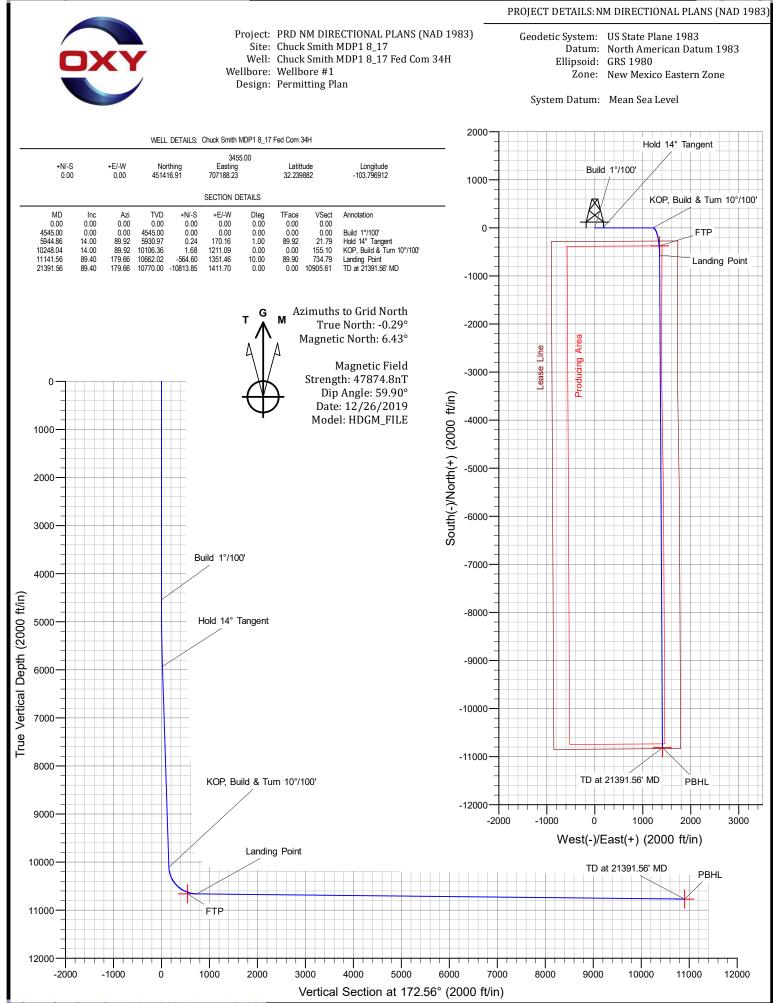
Database: Company: Project: Site: Well: Wellbore: Design:	HOPSPP ENGINEERIN PRD NM DIR Chuck Smith Chuck Smith Wellbore #1 Permitting Pla	ECTIONAL MDP1 8_1 MDP1 8_1	. PLANS (N/ 7	,	TVD Refer MD Refere North Refe	ence:	RKB=25' RKB=25' Grid	ick Smith MDP1 8_17 @ 3480.00ft @ 3480.00ft I Curvature	Fed Com 34H
Design Targets Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Chuck Smith - plan misses targo - Point	0.00 et center by 31		10,660.00 57.27ft MD	-373.26 (10631.60 T∖	1,350.33 /D, -383.82 N	451,043.67 , 1343.29 E)	708,538.48	32.238838	-103.792552
PBHL (Chuck Smith	0.00	0.01	10,770.00	-10,813.85	1,411.70	440,603.72	708,599.84	32.210140	-103.792523

PBHL (Chuck Smith - plan hits target center - Point 0.00 0.01 10,770.00 -10,813.85

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
549.00	549 00	RUSTLER	Littledgy	.,	
876.00		SALADO			
2,757.00	2,757.00	CASTILE			
4,294.00	4,294.00	DELAWARE			
4,321.00	4,321.00	BELL CANYON			
5,230.64	5,229.00	CHERRY CANYON			
6,455.04	6,426.00	BRUSHY CANYON			
8,241.08	8,159.00	BONE SPRING			
9,305.70	9,192.00	BONE SPRING 1ST			
9,964.26	9,831.00	BONE SPRING 2ND			

Plan Annotations

Measured	Vertical	Local Coordinates		
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
4,545.00	4,545.00	0.00	0.00	Build 1°/100'
5,944.86	5,930.97	0.24	170.16	Hold 14° Tangent
10,248.04	10,106.36	1.68	1,211.09	KOP, Build & Turn 10°/100'
11,141.56	10,662.02	-564.60	1,351.46	Landing Point
21,391.56	10,770.00	-10,813.85	1,411.70	TD at 21391.56' MD



Released to Imaging: 10/1/2024 10:41:05 AM

Received by OCD: 9/24/2024 10:17:20 AM

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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INCORPORATED
WELL NAME & NO.:	CHUCK SMITH MDP1 8-17 FEDERAL COM 34H
LOCATION:	Section 5, T.24 S., R.31 E.
COUNTY:	Eddy 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	□4 String	Capitan Reef	WIPP	
Other	□ Fluid Filled	Pilot Hole	□ Open Annulus	
Cementing	menting		Primary Cement	
	Cement Squeeze		Squeeze	
Special Requirements	🗆 Water Disposal	COM	🗆 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

Primary Casing Design:

- 1. The **10-3/4** inch surface casing shall be set at approximately **809** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>24 hours in the Potash Area</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- The 7-5/8 inch intermediate casing shall be set at approximately 10,141 feet. 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.

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

Operator has proposed to pump down 10-3/4" X 7-5/8" annulus. <u>Operator must top</u> <u>out cement after the bradenhead squeeze and verify cement to surface. Operator</u> <u>can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8"</u> <u>casing to surface if confidence is lacking on the quality of the bradenhead squeeze</u> <u>cement job. Submit results to BLM.</u> <u>If cement does not tie-back into the previous casing shoe, a third stage remediation</u> <u>BH may be performed. The appropriate BLM office shall be notified.</u>

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

3. The **5-1**/2 inch production casing shall be set at approximately **21,384** feet. The minimum required fill of cement behind the **5-1**/2 inch production casing is:

Option 1 (Single Stage):

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

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 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)

Communitization Agreement

• The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated

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date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

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

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

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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 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 2^{nd} 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

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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 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.

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Approval Date: 09/23/2024

- iv.Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
- v.If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i.In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - v.The results of the test shall be reported to the appropriate BLM office.
 - vi.All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - viii.BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

Approval Date: 09/23/2024

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 9/7/2024

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OXY Permian Crisis Team Hotline Notification					
Person	Location	Office Phone	Cell/Mobile Phone		
Drilling & Completions Department					
Drilling & Completions Manager: John Willis	Houston	(713) 366-5556	(713) 259-1417		
Drilling Superintendent: Simon Benavides	Houston	(713) 215-7403	(832) 528-3547		
Completions Superintendent: Chris Winter	Houston	(713) 366-5212	(806) 239-8774		
Drilling Eng. Supervisor: Diego Tellez	Houston	(713) 350-4602	(713) 303-4932		
Drilling Eng. Supervisor: Randy Neel	Houston	(713) 215-7987	(713) 517-5544		
Completions Eng. Supervisor: Evan Hinkel	Houston	(713) 366-5436	(281) 236-6153		
Drilling & Completions HES Lead. Ryan Green	Houston	713-336-5753	281-520-5216		
Drilling & Completions HES Advisor:Kenny Williams	Carlsbad	(432) 686-1434	(337) 208-0911		
Drilling & Completions HES Advisor:Kyle Holden	Carlsbad	(432) 686-1435	(661) 369-5328		
Drilling & Completions HES Advisor Sr:Dave Schmidt	Carlsbad		(559) 310-8572		
Drilling & Completions HES Advisor. :Seth Doyle	Carlsbad		(337) 499-0756		
HES / Enviromental & Regulatory Department	Location	Office	Cell Phone		
Jon Hamil-HES Manager	Houston	(713) 497-2494	(832) 537-9885		
Mark Birk-HES Manager	Houston	(713) 350-4615	(949) 413-3127		
Austin Tramell	Midland	(432) 699-4208	(575) 499-4919		
Rico Munoz	Midland	(432) 699-8366	(432) 803-4116		
Amber DuckWorth	Midland		(832) 966-1879		
Kelley Montgomery- Regulatory Manager	Houston	(713) 366-5716	(832) 454-8137		
Sandra Musallam -Regulatory Lead	Houston	+1 (713) 366-5106	+1 (713) 504-8577		
Bishop, Steve-DOT Pipeline Coordinator	Midland	432-685-5614			
Wilson, Dusty-Safety Advisor	Midland	432-685-5771	(432) 254-2336		
John W Dittrich Eniromental Advisor	Midland		(575) 390-2828		
William (Jack) Calhoun-Environmental Lead	Houston	+713 (350) 4906	(281) 917-8571		
Robert Barrow-Risk Engineer Manager	Houston	(713) 366-5611	(832) 867-5336		
Sarah Holmes-HSE Cordinator	Midland	432-685-5758			
Administrative	Location	Office			
Sarah Holmes	Midland	432-685-5830			
Robertson, Debbie	Midland	432-685-5812			
Laci Hollaway	Midland	(432) 685-5716	(432) 631-6341		
Administrative	Location	Office			
Rosalinda Escajeda	Midland	432-685-5831			
Moreno, Leslie (contract)	Hobbs	575-397-8247			

OXY Permian Delaware NM Basin Drilling & Completions Incident Reporting OXY Permian Crisis Team Hotline Notification

Sehon, Angela (contractor)	Levelland	806-894-8347	
Vasquez, Claudia (contractor)	North Cowden	432-385-3120	
XstremeMD	Location	Office	
Medical Case Management	Orla, TX	(337) 205-9314	
Axiom Medical Consulting	Location	Office	
Medical Case Management		(877) 502-9466	
Regulatory Agencies			
Bureau of Land Management	Carlsbad, NM	(505) 887-6544	
Bureau of Land Management	Hobbs, NM	(505) 393-3612	
Bureau of Land Management	Roswell, NM	(505) 393-3612	
Bureau of Land Management	Santa Fe, NM	(505) 988-6030	
DOT Juisdictional Pipelines-Incident Reporting New		(505) 827-3549	
Mexico Public Regulaion Commission	Santa Fe, NM	(505) 490-2375	
DOT Juisdictional Pipelines-Incident Reporting Texas			
Railroad Commission	Austin, TX	(512) 463-6788	
EPA Hot Line	Dallas, Texas	(214) 665-6444	
Federal OSHA, Area Office	Lubbock, Texas	(806) 472-7681	
National Response Center	Washington, D. C.	(800) 424-8802	
National Infrastructure Coordinator Center		(202) 282-9201	
New Mexico Air Quality Bureau	Santa Fe, NM	(505) 827-1494	After Hours (505) 370-
New Mexico Oil Conservation Division	Artesia, NM	(505) 748-1283	7545
New Mexico Oil Conservation Division	Hobbs, NM	(505) 393-6161	
New Mexico Oil Conservation Division	Santa Fe, NM	(505) 471-1068	
New Mexico OCD Environmental Bureau	Santa Fe, NM	(505) 476-3470	
New Mexico Environmental Department	Hobbs, NM	(505) 827-9329	
NM State Emergency Response Center	Santa Fe, NM	(505) 827-9222	
Railroad Commission of TX	District 1 San Antonio, TX	(210) 227-1313	
Railroad Commission of TX	District 7C San Angelo, TX	(325) 657-7450	
Railroad Commission of TX	District 8, 8A Midland, TX	(432) 684-5581	
Texas Emergency Response Center	Austin, TX	(512) 463-7727	
TCEQ Air	Region 2 Lubbock, TX	(806) 796-3494	
TCEQ Water/Waste/Air	Region 3 Abilene, TX	(325) 698-9674	
TCEQ Water/Waste/Air	Region 7 Midland, TX	(432) 570-1359	
TCEQ Water/Waste/Air	Region 9 San Antonio, TX	(512) 734-7981	
TCEQ Water/Waste/Air	Region 8 San Angelo	(325) 655-9479	
Medical Facilities			
Abernathy Medical Clinic	Abernathy, TX	(806) 298-2524	
Alliance Hospital	Odessa, TX	(432) 550-1000	
Artesia General Hospital	Artesia, NM	(505) 748-3333	
Brownfield Regional Medical Center	Brownfield, TX	(806) 637-3551	
Cogdell Memorial Hospital	Snyder, TX	(325) 573-6374	
Covenant Hospital Levelland	Levelland, TX	(806) 894-4963	

Covenant Medical Center	Lubbock, TX	(806) 725-1011
Covenant Medical Center Lakeside	Lubbock, TX	(806) 725-6000
Covenant Family Health	Synder, TX	(325) 573-1300
Crockett County Hospital	Ozona, TX	(325) 392-2671
Guadalupe Medical Center	Carlsbad, NM	(505) 887-6633
Lea Regional Hospital	Hobbs, NM	(505) 492-5000
McCamey Hospital	McCamey, TX	(432) 652-8626
Medical Arts Hospital	Lamesa, TX	(806) 872-2183
Medical Center Hospital	Odessa, TX	(432) 640-4000
Medi Center Hospital	San Angelo, TX	(325) 653-6741
Memorial Hospital	Ft. Stockton	(432) 336-2241
Memorial Hospital	Seminole, TX	(432) 758-5811
Midland Memorial Hospital	Midland, TX	(432) 685-1111
Nor-Lea General Hospital	Lovington, NM	(505) 396-6611
Odessa Regional Hospital	Odessa, TX	(432) 334-8200
Permian General Hospital	Andrews, TX	(432) 523-2200
Reagan County Hospital	Big Lake, TX	(325) 884-2561
Reeves County Hospital	Pecos, TX	(432) 447-3551
Shannon Medical Center	San Angelo, TX	(325) 653-6741
Union County General Hospital	Clayton, NM	(505) 374-2585
University Medical Center	Lubbock, TX	(806) 725-8200
Val Verde Regional Medical Center	Del Rio, TX	(830) 775-8566
Ward Memorial Hospital	Monahans, TX	(432) 943-2511
Yoakum County Hospital	Denver City, TX	(806) 592-5484
Law Enforcement - Sheriff		
Andrews Cty Sheriff's Department	Andrews County(Andrews)	(432) 523-5545
Crane Cty Sheriff's Department	Crane, County (Crane)	(432) 558-3571
Crockett Cty Sheriff's Department	Crockett County (Ozona)	(325) 392-2661
Dawson Cty Sheriff's Department	Dawson County (Lamesa)	(806) 872-7560
Ector Cty Sheriff's Department	Ector County (Odessa)	(432) 335-3050
Eddy Cty Sheriff's Department	Eddy County (Artesia)	(505) 746-2704
Eddy Cty Sheriff's Department	Eddy County (Carlsbad)	(505) 887-7551
Gaines Cty Sheriff's Department	Gaines County (Seminole)	(432) 758-9871
Hockley Cty Sheriff's Department	Hockley County(Levelland)	(806) 894-3126
Kent Cty (Jayton City Sheriff's Dept.)	Kent County(Jayton)	(806) 237-3801
Lea Cty Sheriff's Department	Lea County (Eunice)	(505) 384-2020
Lea Cty Sheriff's Department	Lea County (Hobbs)	(505) 393-2515
Lea Cty Sheriff's Department	Lea County (Lovington)	(505) 396-3611
Lubbock Cty Sheriff's Department	Lubbock Cty (Abernathy)	(806) 296-2724
Midland Cty Sheriff's Department	Midland County (Midland)	(432) 688-1277
Pecos Cty Sheriff's Department	Pecos County (Iraan)	(432) 639-2251
Reeves Cty Sheriff's Department	Reeves County (Pecos)	(432) 445-4901
Scurry Cty Sheriff's Department	Scurry County (Snyder)	(325) 573-3551

Terry Cty Sheriff's Department	Terry County (Brownfield)	(806) 637-2212	
Union Cty Sheriff's Department	Union County (Clayton) (505) 374-2583		
Upton Cty Sheriff's Department	Upton County (Rankin) (432) 693-2422		
Ward Cty Sheriff's Department	Ward County (Monahans)		
Yoakum City Sheriff's Department	Yoakum Co. (Denever City)	(806) 456-2377	
Law Enforcement - Police			
Abernathy City Police	Abernathy, TX	(806) 298-2545	
Andrews City Police	Andrews, TX	(432) 523-5675	
Artesia City Police	Artesia, NM	(505) 746-2704	
Brownfield City Police	Brownfield, TX	(806) 637-2544	
Carlsbad City Police	Carlsbad, NM	(505) 885-2111	
Clayton City Police	Clayton, NM	(505) 374-2504	
Denver City Police	Denver City, TX	(806) 592-3516	
Eunice City Police	Eunice, NM	(505) 394-2112	
Habba O'ta Dal'ar		(505) 397-9265 (505)	
Hobbs City Police	Hobbs, NM Jal, NM	393-2677	
Jal City Police		(505) 395-2501	
Jayton City Police	Jayton, TX Lamesa, TX	(806) 237-3801 (806) 872-2121	
Lamesa City Police Levelland City Police	Levelland, TX	(806) 894-6164	
Lovington City Police	Levenand, TX Lovington, NM	· · · · ·	
Midland City Police	Midland, TX	(505) 396-2811 (432) 685-7113	
Monahans City Police	Monahans, TX	(432) 943-3254	
Odessa City Police	Odessa, TX	(432) 335-3378	
Seminole City Police	Seminole, TX	(432) 758-9871	
Snyder City Police	Snyder, TX	(325) 573-2611	
Sundown City Police	Sundown, TX	(806) 229-8241	
	Buildowii, 17	(000) 227 0241	
Law Enforcement - FBI			
FBI	Alburqueque, NM	(505) 224-2000	
FBI	Midland, TX	(432) 570-0255	
Law Enforcement - DPS			
NM State Police	Artesia, NM	(505) 746-2704	
NM State Police	Carlsbad, NM	(505) 885-3137	
NM State Police	Eunice, NM	(505) 392-5588	
NM State Police	Hobbs, NM	(505) 392-5588	
NM State Police	Clayton, NM	(505) 374-2473; 911	
TX Dept of Public Safety	Andrews, TX	(432) 524-1443	
TX Dept of Public Safety	Big Lake, TX	(325) 884-2301	
TX Dept of Public Safety	Brownfield, TX	(806) 637-2312	
TX Dept of Public Safety	Iraan, TX	(432) 639-3232	
TX Dept of Public Safety	Lamesa, TX	(806) 872-8675	
TX Dept of Public Safety	Levelland, TX	(806) 894-4385	

Lubbock TX	(806) 747-4491
	(432) 697-2211
	(432) 943-5857
	(432) 332-6100
	(325) 392-2621
	(432) 447-3533
	(432) 758-4041
	(325) 573-0113
	(806) 637-8913
Yoakum County TX	(806) 456-2377
Abernathy, TX	(806) 298-2022
Amistad/Rosebud, NM	(505) 633-9113
´	(432) 523-4820; (432)
Andrews, TX	523-3111
Artesia, NM	(505) 746-5051
Big Lake, TX	(325) 884-3650
Brownfield, TX	(816) 637-4547
Brownfield, TX	-911
Carlsbad, NM	(505) 885-3125
Clayton, NM	(505) 374-2435
Cotton Center, TX	(806) 879-2157
Crane, TX	(432) 558-2361
Del Rio, TX	(830) 774-8650
Denver City, TX	(806) 592-3516
Eldorado, TX	(325) 853-2691
Eunice, NM	(505) 394-2111
Garden City, TX	(432) 354-2404
Goldsmith, TX	(432) 827-3445
Hale Center, TX	(806) 839-2411
· · · · ·	(505) 397-9308
	(505) 395-2221
	(806) 237-3801
	(432) 586-3468
	(806) 872-4352
	(806) 894-3154
	(505) 396-2359
	(505) 676-4100
	(432) 652-8232
	(432) 685-7346
	(432) 943-4343
	(505) 461-3300
	(432) 827-3445
	Amistad/Rosebud, NMAndrews, TXArtesia, NMBig Lake, TXBrownfield, TXBrownfield, TXCarlsbad, NMClayton, NMClayton, NMCotton Center, TXCrane, TXDel Rio, TXDenver City, TXEldorado, TXEunice, NMGarden City, TX

Odessa	Odessa, TX	(432) 335-4659	
Ozona	Ozona, TX		
Pecos	Pecos, TX	(432) 445-2421	
Petersburg	Petersburg, TX	(806) 667-3461	
Plains			
	Plains, TX	(806) 456-8067	
Plainview	Plainview, TX	(806) 296-1170	
Rankin	Rankin, TX	(432) 693-2252	
San Angelo	San Angelo, TX	(325) 657-4355	
Sanderson	Sanderson, TX	(432) 345-2525	
Seminole	Seminole, TX	(432) 758-3676 (432) 758-9871	
Smyer	Smyer, TX	(806) 234-3861	
Snyder	Snyder, TX	(325) 573-6215	
Sundown	Sundown, TX	911	
Tucumcari	Tucumcari, NM	911	
West Odessa	Odessa, TX	(432) 381-3033	
Ambulance			
Abernathy Ambulance	Abernathy, TX	(806) 298-2241	
Amistad/Rosebud	Amistad/Rosebud, NM	(505) 633-9113	
Andrews Ambulance	Andrews, TX	(432) 523-5675	
Artesia Ambulance	Artesia, NM	(505) 746-2701	
Big Lake Ambulance	Big Lake, TX	(325) 884-2423	
Big Spring Ambulance	Big Spring, TX	(432) 264-2550	
Brownfield Ambulance	Brownfield, TX	(806) 637-2511	
Carlsbad Ambulance	Carlsbad, NM	(505) 885-2111; 911	
Clayton, NM	Clayton, NM	(505) 374-2501	
Denver City Ambulance	Denver City, TX	(806) 592-3516	
Eldorado Ambulance	Eldorado, TX	(325) 853-3456	
Eunice Ambulance	Eunice, NM	(505) 394-3258	
Goldsmith Ambulance	Goldsmith, TX	(432) 827-3445	
Hobbs, NM	Hobbs, NM	(505) 397-9308	
Jal, NM	Jal, NM	(505) 395-2501	
Jayton Ambulance	Jayton, TX	(806) 237-3801	
Lamesa Ambulance	Lamesa, TX	(806) 872-3464	
Levelland Ambulance	Levelland, TX	(806) 894-8855	
Lovington Ambulance	Lovington, NM	(505) 396-2811	
McCamey Hospital	McCamey, TX	(432) 652-8626	
Midland Ambulance	Midland, TX	(432) 685-7499	
		(432) 943-3385 or	
Monahans Ambulance	Monahans, TX	3731	
Nara Visa, NM	Nara Visa, NM	(505) 461-3300	
Odessa Ambulance	Odessa, TX	(432) 335-3378	
Ozona Ambulance	Ozona, TX	(325) 392-2671	
Pecos Ambulance	Pecos, TX	(432) 445-4444	

Rankin Ambulance	Rankin, TX	(432) 693-2443	
San Angelo Ambulance	San Angelo, TX	(325) 657-4357	
Seminole Ambulance	Seminole, TX	(432) 758-8816 (432) 758-9871	
Snyder Ambulance	Snyder, TX	(325) 573-1911	
Stanton Ambulance	Stanton, TX	(432) 756-2211	
Sundown Ambulance	Sundown, TX	911	
Tucumcari, NM	Tucumcari, NM	911	
Medical Air Ambulance Service			
AEROCARE - Methodist Hospital	Lubbock, TX	(800) 627-2376	
San Angelo Med-Vac Air Ambulance	San Angelo, TX	(800) 277-4354	
Southwest Air Ambulance Service	Stanford, TX	(800) 242-6199	
Southwest MediVac	Snyder, TX	(800) 242-6199	
Southwest MediVac	Hobbs, NM	(800) 242-6199	
Odessa Care Star	Odessa, TX	(888) 624-3571	
NWTH Medivac	Amarillo, TX	(800) 692-1331	

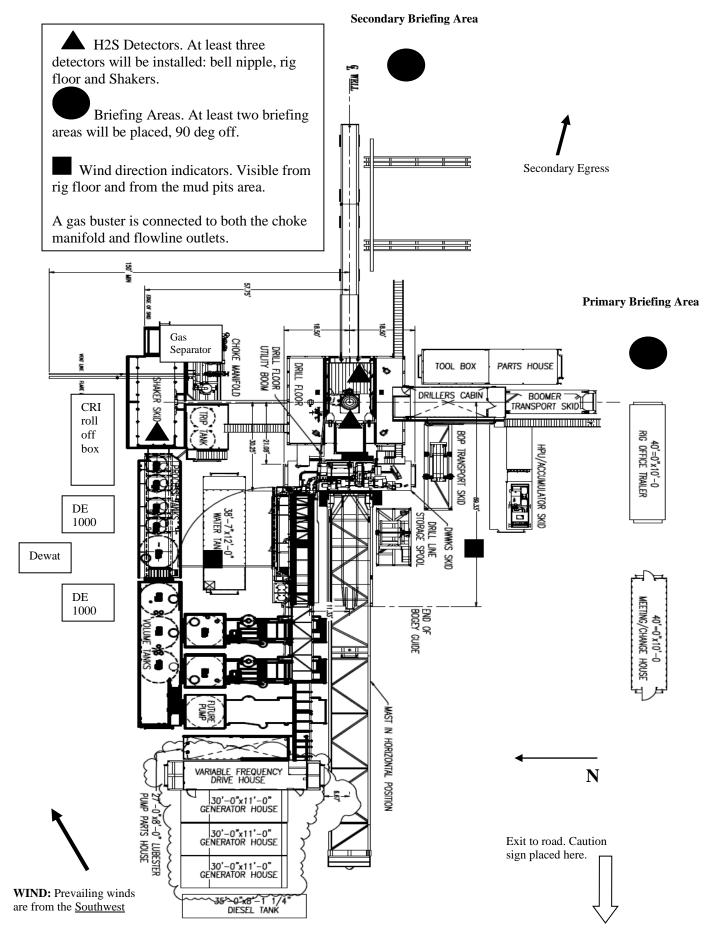


Permian Drilling Hydrogen Sulfide Drilling Operations Plan

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

1. Escape

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





Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

Scope

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

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

Objective

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

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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 briefing

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 BLM Onshore Order #2.

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

	2. 3. 4. 5.	rotating DP. Check monitor for point of release. Report to nearest upwind designated safe briefing / muster area. Check status of personnel (in an attempt to rescue, use the buddy system). Assigns least essential person to notify Drill Site Manager and tool pusher by quickest means in case
	6.	of their absence. 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. 2.	Report to nearest upwind designated safe briefing / muster area. 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.

Procedural check list during H2S events

Perform each tour:

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

Perform each week:

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

General evacuation plan

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

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

Emergency actions

Well blowout – if emergency

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

Person down location/facility

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

Toxic effects of hydrogen sulfide

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

Common name	Chemical formula	Specific gravity	Threshold limit	Hazardous limit	Lethal concentration (3)
nume	Tormula	(sc=1)	(1)	(2)	(3)
Hydrogen	Hcn	0.94	10 ppm	150 ppm/hr	300 ppm
Cyanide Hydrogen Sulfide	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfur Dioxide	So2	2.21	5 ppm	-	1000 ppm
Chlorine	Cl2	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon	Co2	1.52	5000 ppm	5%	10%
Dioxide Methane	Ch4	0.55	90,000 ppm	Combustibl	e above 5% in air

Table i <u>Toxicity of various gases</u>

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

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

Toxic effects of hydrogen sulfide

Table ii Physical effects of hydrogen sulfide

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

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

*at 15.00 psia and 60'f.

Use of self-contained breathing equipment (SCBA)

- 1. Written procedures shall be prepared covering safe use of SCBA's in dangerous atmosphere, which might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available SCBA.
- 2 SCBA's shall be inspected frequently at random to insure that they are properly used, cleaned, and maintained.
- 3. Anyone who may use the SCBA's shall be trained in how to insure proper 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> First aid for H2S poisoning

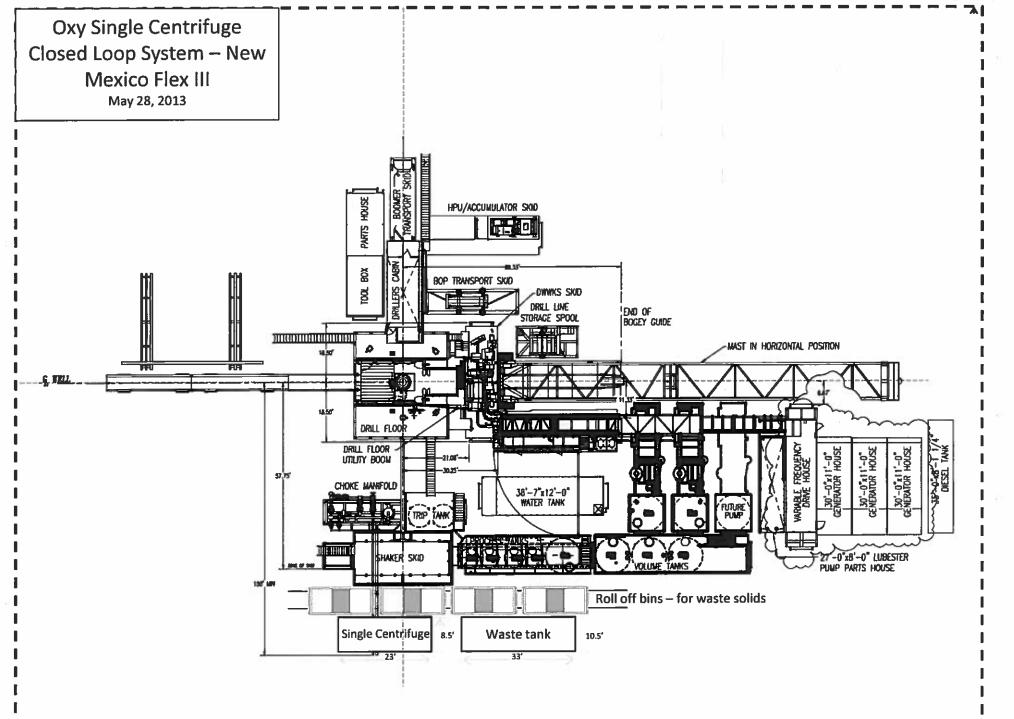
Do not panic!

Remain calm – think!

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

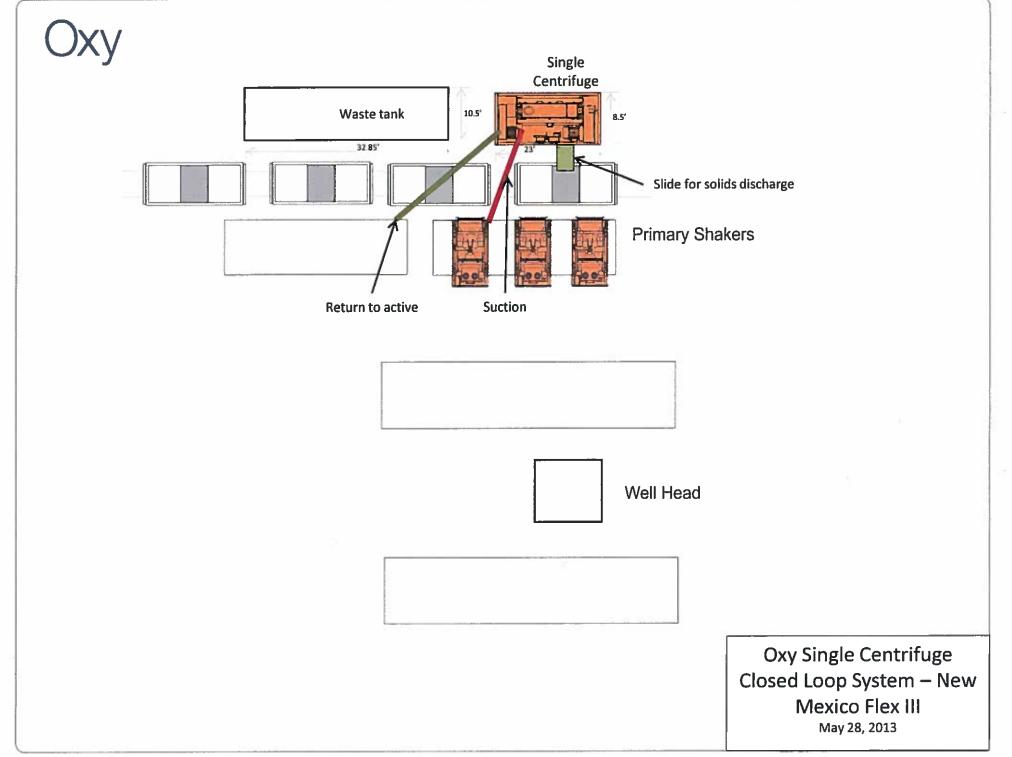
Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration.

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CONDITIONS

Action 386153

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	386153
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	10/1/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	10/1/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	10/1/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	10/1/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	10/1/2024