Form 3160-3 (June 2015) UNITED STATES DEPARTMENT OF THE I				FORM AI OMB No. Expires: Janu 5. Lease Serial No.		
BUREAU OF LAND MANA APPLICATION FOR PERMIT TO D				6. If Indian, Allotee or	Tribe Name	
				,		
	EENTER			7. If Unit or CA Agree	ement, Name and No.	
	ther	Multiple Zone		8. Lease Name and W	ell No.	
		Multiple Zolle		[3	27301]	
2. Name of Operator [16696]				9. API Well No. 30	-025-51360	
3a. Address	3b. Phone N	o. (include area cod	e)	10. Field and Pool, or	Exploratory [51683]	
4. Location of Well (Report location clearly and in accordance w	with any State	requirements.*)		11. Sec., T. R. M. or B	lk. and Survey or Area	
At surface						
At proposed prod. zone						
14. Distance in miles and direction from nearest town or post off	ice*			12. County or Parish	13. State	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of ac	res in lease	17. Spacin	ing Unit dedicated to this well		
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed	d Depth	20. BLM/	BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxi	mate date work will	start*	23. Estimated duration	1	
	24. Attac	hments				
The following, completed in accordance with the requirements of (as applicable)	f Onshore Oil	and Gas Order No. 1	I, and the H	ydraulic Fracturing rule	e per 43 CFR 3162.3-3	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office 		Item 20 above). 5. Operator certific	cation.	s unless covered by an e nation and/or plans as m	existing bond on file (see	
25. Signature	Name	(Printed/Typed)		Ľ	Date	
Title						
Approved by (Signature)	Name	(Printed/Typed)		Γ	Date	
Title	Office					
Application approval does not warrant or certify that the applicar applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds legal o	or equitable title to the	nose rights i	n the subject lease whi	ch would entitle the	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements					y department or agency	
NGMP Rec 04/12/2023						
		- avnII	IONS	04/19	Z 1/2023	
SL	VED WI	TH CONDIT	10.41			
(Continued on page 2)				*(Inst	ructions on page 2)	

Approval Date: 03/22/2023

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (375) 393-6161 Fax: (375) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (375) 748-1283 Fax: (375) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

□ AMENDED REPORT

	WELL LOCATION AND ACREAGE DEDICATION PLAT												
	API	Number	Pool Code							Pool Name	,		
Рторе	erty Code						Property	v Name				И	Vell Number
				LION	ΙΟΪ	IL "28_	_33"	FEDERA	L COM				22H
OGI	RID No.						Operator	r Name					Elevation
						OXY	USA	4 INC.		2		3	586.7'
						Surfa	ace Lo	ocation					
UL or lot no.	Section	Township		Ran	ge		Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County
N	33	22 SOUTH	3	2 EAST,	N. M	(. Р. М .		<i>840'</i>	SOUTH	1377'	WES	ST	LEA
			1	Bottom 1	Hole	Locatio	on If l	Different H	From Surfac	e			
UL or lot no.	Section	Township		Ran	ge		Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County
D	28	22 SOUTH	OUTH 32 EAST, N.M.P.M. 20' NORTH 1210' WES						T	LEA			
Dedicated	Acres	Joint or Infill	nfill Consolidation Code Order No.										

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.

29 2110 POTOW HOLE LOCATION 1210 Potow HOLE LOCA		20'	
12:0 NEW MEXICO EAST MAD 1983 FT MAD 1983 FT X=747722,51 US FT X=747723,51 US FT X=747723,51 US FT X=74772,51 US FT X=7477	29 28 1210'		OPERATOR CERTIFICATION
29 28 27 32 23 33 34 29 28 28 27 31 Complete the form of the local second states of a second second states of a second states of a second secon	1210'	NEW MEXICO EAST	I hereby certify that the information contained herein is true and
LAT: N 32.26881787 organization alther over a seeking interact or aclosed minurel LAT: N 32.26881787 organization alther over a seeking interact or aclosed minurel LAT: TAKE POINT NEW MC NO.0 ST New MC NO.0 ST New MC NO.0 ST New MC		Y=498878.91 US FT X=741722 T3 US FT	complete to the best of my knowledge and belief, and that this
LAST TWCE POINT NEW MERCO EAST Net 498798.931 US FT LONG: W 22.808.97 C With an onner of such a third lab decision personal is a contract with an onner of such a third lab decision personal is a contract with an onner of such a third lab decision personal is a contract with an onner of such a third lab decision. 11 11 1103.6842916 120 11 13 12.00 ST LONG: W 22.8642916 14 12.00 ST LONG: W 22.8642916 15 12.00 ST LONG: W 22.8642916 15 12.00 ST LONG: W 12.8642916 15 12.00 ST LONG: W 12.8642917 15 12.00 ST LONG: W 12.8642927 15 15.079 12.00 ST LONG: W 12.8642927 12.00 ST LONG: W 12.8642927 12.00 ST LONG: W 12.8642707 12.00 ST LONG: W 12.8642707 12.00 ST LONG: W 12.8642707 12.00 ST LO		LAT.: N 32.3698175*	organization either owns a working interest or unleased mineral
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1 3 V=498798 g1 US FT V=498798 g1 US FT V=4987978 g1 US FT V=497		NEW MEXICO EAST	has a right to drill this well at this location pursuant to a contract
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GRID AZ = 191*34'36" same is brid and correct to the best of my belief. B08.22' FIRST TAKE POINT NEW MEXICO EAST NOVEMBER 16, 2018 TAX = 741792.71 US FT Signature and Seal of LONG:: W 103.6842702' New MEXICO EAST NEW MEXICO EAST NEW MEXICO EAST NEW M			plat was plotted from field notes of actual surveys made by me or under my supervision, and that the
Image: Second State Signature and Second State Image			same is true and correct to the best of my belief.
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1377' Y=488435.30 US FT Signature and Set of 1377' VI 103.6842702' 1377' VI 103.6842702' 1377' VI 103.6842702' 1377' VI 103.6842702' 1210' VI 103.6842701' 1210' VI 103.6842701' 1210' VI 103.6842701'			Date of Survey
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Image: state stat		/ / V LAT.: N 32.3411102	Professional Surveyor SIONA-
NEW MEXICO EAST NAD 1983 Y=488385.30 US FT X=741793.05 US FT LAT.: N 32.3409728' LONG.: W 103.6842701' Certificate Number 15079			
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1210' LAT.: N 32.3409728' Certificate Number 15079	1377'	Y=488385.30 US FT X=741793.05 US FT	Jenny Gland 1/22/2019
	1210'	LAT.: N 32.3409728*	Certificate Number 15079
50' 100'	32 1210'	33 34	WO# 181116WL-Ь (КА)

	E	nergy, Minerals a		sources Departme	ent		Submit I Via E-pe	Electronically ermitting
		1220 \$	onservation Di South St. Fran nta Fe, NM 87	cis Dr.				
	Ν	ATURAL G	AS MANA	GEMENT P	LAN			
This Natural Gas Manag	gement Plan m	ust be submitted w	ith each Applica	tion for Permit to I	Drill (A	PD) for a ne	ew or re	completed well
			<u>1 – Plan D</u> ffective May 25.					
I. Operator: OXY US	SA INC. (1669	96)	OGRID: <u>16</u>	696		Date: _(04/1	2/23
II. Type: 🗹 Original 🛛	□ Amendment	due to □ 19.15.27	.9.D(6)(a) NMA	C 🗆 19.15.27.9.D((6)(b) N	MAC 🗆 O	her.	
If Other, please describe	:							
III. Well(s): Provide th be recompleted from a s					wells pr	oposed to b	e drilleo	l or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D	Prod	nticipated uced Water BBL/D
SEE ATTACHED								
IV. Central Delivery P V. Anticipated Schedu proposed to be recomple	le: Provide the	following informa	tion for each nev		vell or s			(D)(1) NMAC] I to be drilled o
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial Flo Back Da		irst Production Date
SEE ATTACHED								
VI. Separation Equips	tices: 🗹 Attac	h a complete desc		-			•	•
Subsection A through F	of 19.15.27.8	NMAC.						

Page 6

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.

Page 7

Page 5 of 63

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

Received by OCD: 4/12/2023 7:26:52 AM

Page 8

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: Roni Mathew
Printed Name: Roni Mathew
Title: Regulatory Advisor
E-mail Address: roni_mathew@oxy.com
Date: 04/12/2023
Phone: 713-215-7827
OIL CONSERVATION DIVISION
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:

III. Well(s)

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
LOIN OIL 28_33 FED COM 11H	Pending	Unit M Sec. 33 22S-32E	240 FSL 675 FWL	880	2300	1500
LOIN OIL 28_33 FED COM 12H	Pending	Unit M Sec. 33 22S-32E	240 FSL 710 FWL	880	2300	1500
LOIN OIL 28_33 FED COM 13H	Pending	Unit M Sec. 33 22S-32E	240 FSL 745 FWL	880	2300	1500
LOIN OIL 28_33 FED COM 21H	Pending	Unit N Sec. 33 22S-32E	870 FSL 1360 FWL	820	980	1550
LOIN OIL 28_33 FED COM 22H	Pending	Unit N Sec. 33 22S-32E	840 FSL 1377 FWL	820	980	1550
LOIN OIL 28_33 FED COM 23H	Pending	Unit N Sec. 33 22S-32E	810 FSL 1395 FWL	820	980	1550
LOIN OIL 28_33 FED COM 31H	Pending	Unit M Sec. 33 22S-32E	240 FSL 985 FWL	1500	2600	2800
LOIN OIL 28_33 FED COM 32H	Pending	Unit M Sec. 33 22S-32E	240 FSL 1020 FWL	1500	2600	2800
LOIN OIL 28_33 FED COM 33H	Pending	Unit M Sec. 33 22S-32E	240 FSL 1055 FWL	1500	2600	2800

Page 8 of 63

V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
LOIN OIL 28_33 FED COM 11H	Pending	TBD	TBD	TBD	TBD	TBD
LOIN OIL 28_33 FED COM 12H	Pending	TBD	TBD	TBD	TBD	TBD
LOIN OIL 28_33 FED COM 13H	Pending	TBD	TBD	TBD	TBD	TBD
LOIN OIL 28_33 FED COM 21H	Pending	TBD	TBD	TBD	TBD	TBD
LOIN OIL 28_33 FED COM 22H	Pending	TBD	TBD	TBD	TBD	TBD
LOIN OIL 28_33 FED COM 23H	Pending	TBD	TBD	TBD	TBD	TBD
LOIN OIL 28_33 FED COM 31H	Pending	TBD	TBD	TBD	TBD	TBD
LOIN OIL 28_33 FED COM 32H	Pending	TBD	TBD	TBD	TBD	TBD
LOIN OIL 28_33 FED COM 33H	Pending	TBD	TBD	TBD	TBD	TBD

Central Delivery Point Name: Red Tank 27-28 CTB

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 and fluids will be sent to the facility after initial flowback operations are complete, where a gas transporter system is in place. The gas produced from production facility will be dedicated to MarkWest Energy West Texas Gas Company LLC ("MarkWest") and will be connected to MarkWest's high pressure gathering system located in Lea and Eddy Counties, New Mexico and Loving and Culberson Counties, TX. OXY USA INC. ("OXY") will provide (periodically) to MarkWest a production forecast for wells being sent to their system. In addition, OXY and MarkWest will have periodic conference calls to discuss changes to production forecasts arising out of changes to drilling and completion schedules. Gas from these wells will be processed at MarWest's Preakness and Tornado Processing Plants located in Culberson County, TX and Loving County, Texas respectively. 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 MarkWest's system at that time. Based on current information, it is OXY's belief the system can take this gas upon completion of the well(s).

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

VIII. Best Management Practices

Alternatives to Reduce Flaring 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. - LION OIL 28_33 FED COM 22H Drill Plan

1. Geologic Formations

TVD of Target (ft):	10620	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	21589	Deepest Expected Fresh Water (ft):	972

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	972	972	
Salado	1320	1320	Salt
Castile	3275	3275	Salt
Delaware	4686	4668	Oil/Gas/Brine
Bell Canyon	4722	4702	Oil/Gas/Brine
Cherry Canyon	5641	5586	Oil/Gas/Brine
Brushy Canyon	6899	6795	Losses
Bone Spring	8804	8626	Oil/Gas
Bone Spring 1st	9915	9726	Oil/Gas
Bone Spring 2nd	10579	10364	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	17.5	0	1032	0	1032	13.375	54.5	J-55	BTC
Salt	12.25	0	6295	0	6215	9.625	40	L-80 HC	BTC
Production	8.5	0	21589	0	10620	5.5	20	P-110	DQX

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 S						
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).	1
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	1
Is well located within Capitan Reef?	Ν
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Ν
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	
500' into previous casing?	
Is well located in R-111-P and SOPA?	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?	

Occidental - Permian New Mexico

3. Cementing Program

Section	Stage	Slurry:	Capacities	ft^3/ft	Excess:	From	То	Sacks	Volume (ft^3)	Placement
Surface	1	Surface - Tail	OH x Csg	0.6946	100%	1,032	-	1078	1434	Circulate
Int.	1	Intermediate - Tail	OH x Csg	0.3132	20%	6,295	5 <i>,</i> 795	141	188	Circulate
Int.	1	Intermediate - Lead	OH x Csg	0.3132	50%	5,795	1,032	1293	2238	Circulate
Int.	1	Intermediate - Lead	Csg x Csg	0.3627	0%	1,032	-	216	374	Circulate
Prod.	1	Production - Tail	OH x Csg	0.2291	15%	21,589	10,404	2135	2947	Circulate
Prod.	1	Production - Lead	OH x Csg	0.2291	25%	10,404	6,295	525	1177	Circulate
Prod.	1	Production - Lead	Csg x Csg	0.2608	0%	6,295	5 <i>,</i> 795	58	130	Circulate

Description	Density (Ib/gal)	Yield (ft3/sk)	Water (gal/sk)	500psi Time (hh:mm)	Cmt. Class	Accelerator	Retarder	Dispersant	Salt
Surface - Tail	14.8	1.33	6.365	5:26	С	х			
Intermediate - Lead	12.9	1.73	8.784	15:26	Pozz		х		
Intermediate - Tail	14.8	1.33	6.368	7:11	С	х			
Production - Lead	11.9	2.24	12.327	14:46	Н		х	х	х
Production - Tail	13.2	1.38	6.686	3:39	Н		х	х	х

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.

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	~	Tested to:	TVD Depth (ft) per Section:									
		3M		Annular	<	70% of working pressure										
				Blind Ram	<		6215									
12.25" Hole	13-5/8"	ЗМ		Pipe Ram		250 psi / 3000 psi										
				Double Ram	<	250 psi / 5000 psi										
			Other*													
	13-5/8"										5M		Annular	 Image: A start of the start of	70% of working pressure	
									Blind Ram	<						
8.5" Hole		514		Pipe Ram		250 poi / 5000 poi	10620									
		5M		Double Ram	 Image: A start of the start of	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

5. Mud Program

Section	Depth		Depth - TVD		Trme	Weight	Viscosity	Water	
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	viscosity	Loss	
Surface	0	1032	0	1032	Water-Based Mud	8.6 - 8.8	40-60	N/C	
Intermediate	1032	6295	1032	6215	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C	
Production	6295	21589	6215	10620	Water-Based or Oil- Based Mud	8.0 - 9.6	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

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

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

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5302 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	165°F

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 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 3 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe.Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

Total Estimated Cuttings Volume: 2148 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
Filip Krneta	Drilling Engineer Supervisor	713-350-4751	832-244-4980
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
Diego Tellez	Drilling Manager	713-350-4602	713-303-4932

ΟΧΥ

PRD NM DIRECTIONAL PLANS (NAD 1983) LION OIL 28_33 FED COM LION OIL 28_33 FED COM 22H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

19 November, 2018

Oxy Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	ENGI PRD LION LION Wellb	HOPSPP ENGINEERING DESIGNS PRD NM DIRECTIONAL PLANS (NAD 1983 LION OIL 28_33 FED COM LION OIL 28_33 FED COM 22H Wellbore #1 Permitting Plan PRD NM DIRECTIONAL PLANS (NAD 1983)				Local Co-ordinate Reference:Well LION OIL 28_33 FED COM 22HTVD Reference:RKB=26.5' @ 3613.20ftMD Reference:RKB=26.5' @ 3613.20ftNorth Reference:GridSurvey Calculation Method:Minimum Curvature					
Project			NAL PLANS (1	NAD 1983)							
Map System: Geo Datum: Map Zone:	North Ar	e Plane 1983 merican Datum xico Eastern Z			System Da	itum:		ean Sea Level sing geodetic sc	ale factor		
Site	LION	DIL 28_33 FED	COM								
Site Position: From: Position Unce	Ma rtainty:		North Eastin .00 ft Slot F	•	,	642.56 usft	Latitude: Longitude: Grid Conver	gence:	1	32° 22' 2.611384 N 103° 40' 29.468370 W 0.35 °	
Well	LION C	DIL 28_33 FED	COM 22H								
Well Position	n +N/-S -8,837.68 ft Northing: +E/-W -2,687.44 ft Easting:				489,177.07 usft Latitude: 741,955.24 usft Longitude:				32° 20' 35.327080 N 103° 41' 1.425918 W		
Position Unce	rtainty		0.00 ft W	ellhead Elev	ation:	0.0	00 ft Gro	ound Level:		3,586.70 ft	
Wellbore	Wellbo	ore #1									
Magnetics	Мо	del Name	Sampl	e Date	Declination (°)			Angle ')		Strength าT)	
		HDGM	1	1/19/2018		6.77		60.08		48,081	
Design	Permit	ting Plan									
Audit Notes:											
Version:			Phas	e:	PROTOTYPE	Tie	On Depth:		0.00		
Vertical Section	on:	D	epth From (T (ft)	VD)	+N/-S (ft)	+E/ (f			ection (°)		
			0.00		0.00	0.	00	35	8.63		
Plan Sections											
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3,690.00 4,489.95	0.00 16.00	0.00 185.02	3,690.00	0.00	0.00	0.00	0.00	0.00	0.00		
4,489.95	16.00 16.00	185.92 185.92	4,479.60 8,628.51	-110.37 -1,293.65	-11.44 -134.04	2.00 0.00	2.00 0.00	0.00 0.00	185.92 0.00		
10,403.52	16.00	359.62	10,205.17	-1,292.43	-158.85	2.00	0.00	10.87	176.72		
11,143.52	90.00	359.62	10,620.20	-741.68	-162.54	10.00	10.00	0.00	0.00	FTP (Lion Oil 28_33	
21,589.26	90.00	359.62	10,620.20	9,703.82	-232.52	0.00	0.00	0.00	0.00	PBHL (Lion Oil	

D ()	HORODO		
Database:	HOPSPP	Local Co-ordinate Reference:	Well LION OIL 28_33 FED COM 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3613.20ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3613.20ft
Site:	LION OIL 28_33 FED COM	North Reference:	Grid
Well:	LION OIL 28_33 FED COM 22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measu Dept (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
	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
40	0.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,00		0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,10		0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,20		0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,30		0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,40		0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,50		0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,60		0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,70		0.00 0.00	0.00 0.00	1,700.00 1,800.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
1,80		0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,00		0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,00		0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,10		0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,20		0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,40		0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,50		0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,50		0.00	0.00	2,500.00 2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,00		0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,70		0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,90		0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3.00		0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,10		0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,20		0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,30		0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,40	0.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,50	0.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,60		0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,69		0.00	0.00	3,690.00	0.00	0.00	0.00	0.00	0.00	0.00
3,70		0.20	185.92	3,700.00	-0.02	0.00	-0.02	2.00	2.00	0.00
3,80	0.00	2.20	185.92	3,799.97	-2.10	-0.22	-2.09	2.00	2.00	0.00
3,90		4.20	185.92	3,899.81	-7.65	-0.79	-7.63	2.00	2.00	0.00
4,00		6.20	185.92	3,999.40	-16.67	-1.73	-16.62	2.00	2.00	0.00
4,10		8.20	185.92	4,098.60	-29.13	-3.02	-29.05	2.00	2.00	0.00
4,20		10.20	185.92	4,197.31	-45.04	-4.67	-44.91	2.00	2.00	0.00
4,30		12.20	185.92	4,295.40	-64.35	-6.67	-64.18	2.00	2.00	0.00
4,40		14.20	185.92	4,392.75	-87.07	-9.02	-86.83	2.00	2.00	0.00
4,48		16.00	185.92	4,479.60	-110.37	-11.44	-110.07	2.00	2.00	0.00
4,50		16.00 16.00	185.92	4,489.26	-113.13	-11.72	-112.81	0.00	0.00	0.00
4,60 4,70		16.00 16.00	185.92 185.92	4,585.38 4,681.51	-140.54 -167.96	-14.56 -17.40	-140.15 -167.49	0.00 0.00	0.00 0.00	0.00 0.00
4,80		16.00	185.92	4,777.64	-195.37	-20.24	-194.83	0.00	0.00	0.00
4,90		16.00	185.92	4,873.76	-222.79	-23.08	-222.17	0.00	0.00	0.00
5,00 5,10		16.00 16.00	185.92 185.92	4,969.89 5,066.02	-250.20 -277.62	-25.92 -28.76	-249.51 -276.85	0.00 0.00	0.00 0.00	0.00 0.00
5,10	0.00	10.00	100.92	J,000.02	-211.02	-20.70	-210.00	0.00	0.00	0.00

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COMPASS 5000.1 Build 74

Oxy Planning Report

Detabases	LIOPODD	Level On andiante Defenses	
Database:	HOPSPP	Local Co-ordinate Reference:	Well LION OIL 28_33 FED COM 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3613.20ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3613.20ft
Site:	LION OIL 28_33 FED COM	North Reference:	Grid
Well:	LION OIL 28_33 FED COM 22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,200.00	16.00	185.92	5,162.14	-305.04	-31.61	-304.19	0.00	0.00	0.00
5,300.00	16.00	185.92	5,258.27	-332.45	-34.45	-331.53	0.00	0.00	0.00
5,400.00	16.00	185.92	5,354.40	-359.87	-37.29	-358.87	0.00	0.00	0.00
5,500.00	16.00	185.92	5,450.52	-387.28	-40.13	-386.21	0.00	0.00	0.00
5,600.00	16.00	185.92	5,546.65	-414.70	-42.97	-413.55	0.00	0.00	0.00
5,700.00	16.00	185.92	5,642.78	-442.11	-45.81	-440.89	0.00	0.00	0.00
5,800.00	16.00	185.92	5,738.90	-469.53	-48.65	-468.23	0.00	0.00	0.00
5,900.00	16.00	185.92	5,835.03	-496.94	-51.49	-495.57	0.00	0.00	0.00
6,000.00	16.00	185.92	5,931.16	-524.36	-54.33	-522.91	0.00	0.00	0.00
6,100.00	16.00	185.92	6,027.28	-551.77	-57.17	-550.25	0.00	0.00	0.00
6,200.00	16.00	185.92	6,123.41	-579.19	-60.01	-577.59	0.00	0.00	0.00
6,300.00	16.00	185.92	6,219.53	-606.60	-62.85	-604.92	0.00	0.00	0.00
6,400.00	16.00	185.92	6,315.66	-634.02	-65.69	-632.26	0.00	0.00	0.00
6,500.00	16.00	185.92	6,411.79	-661.44	-68.53	-659.60	0.00	0.00	0.00
6,600.00	16.00	185.92	6,507.91	-688.85	-71.37	-686.94	0.00	0.00	0.00
6,700.00	16.00	185.92	6,604.04	-716.27	-74.21	-714.28	0.00	0.00	0.00
6,800.00	16.00	185.92	6,700.17	-743.68	-77.05	-741.62	0.00	0.00	0.00
6,900.00	16.00	185.92	6,796.29	-771.10	-79.90	-768.96	0.00	0.00	0.00
7,000.00	16.00	185.92	6,892.42	-798.51	-82.74	-796.30	0.00	0.00	0.00
7,100.00	16.00	185.92	6,988.55	-825.93	-85.58	-823.64	0.00	0.00	0.00
7,200.00	16.00	185.92	7,084.67	-853.34	-88.42	-850.98	0.00	0.00	0.00
7,300.00	16.00	185.92	7,180.80	-880.76	-91.26	-878.32	0.00	0.00	0.00
7,400.00	16.00	185.92	7,276.93	-908.17	-94.10	-905.66	0.00	0.00	0.00
7,500.00	16.00	185.92	7.373.05	-935.59	-96.94	-933.00	0.00	0.00	0.00
7,600.00	16.00	185.92	7,469.18	-963.00	-99.78	-960.34	0.00	0.00	0.00
7,700.00	16.00	185.92	7,565.31	-990.42	-102.62	-987.68	0.00	0.00	0.00
7,800.00	16.00	185.92	7,661.43	-1,017.84	-105.46	-1,015.02	0.00	0.00	0.00
7,900.00	16.00	185.92	7,757.56	-1,045.25	-108.30	-1,042.36	0.00	0.00	0.00
8,000.00	16.00	185.92	7,853.69	-1,072.67	-111.14	-1,069.70	0.00	0.00	0.00
8,100.00	16.00	185.92	7,949.81	-1,100.08	-113.98	-1,097.04	0.00	0.00	0.00
8,200.00	16.00	185.92	8,045.94	-1,127.50	-116.82	-1,124.37	0.00	0.00	0.00
8,300.00	16.00	185.92	8,142.07	-1,154.91	-119.66	-1,151.71	0.00	0.00	0.00
8,400.00	16.00	185.92	8,238.19	-1,182.33	-122.50	-1,179.05	0.00	0.00	0.00
8,500.00	16.00	185.92	8,334.32	-1,209.74	-125.34	-1,206.39	0.00	0.00	0.00
8,600.00	16.00	185.92	8,430.45	-1,237.16	-128.18	-1,233.73	0.00	0.00	0.00
8,700.00	16.00	185.92	8,526.57	-1,264.57	-131.03	-1,261.07	0.00	0.00	0.00
8,800.00	16.00	185.92	8,622.70	-1,291.99	-133.87	-1,288.41	0.00	0.00	0.00
8,806.05	16.00	185.92	8,628.51	-1,293.65	-134.04	-1,290.06	0.00	0.00	0.00
8,900.00	14.12	186.36	8,719.23	-1,317.92	-136.64	-1,314.27	2.00	-2.00	0.47
9,000.00	12.13	186.97	8,816.62	-1,340.48	-139.27	-1,336.75	2.00	-2.00	0.61
9,100.00	10.14	187.82	8,914.73	-1,359.62	-141.74	-1,355.84	2.00	-1.99	0.85
9,200.00	8.14	189.09	9,013.46	-1,375.33	-144.06	-1,371.49	2.00	-1.99	1.26
9,300.00	6.16	191.16	9,112.67	-1,387.60	-146.21	-1,383.70	2.00	-1.98	2.07
9,400.00	4.19	195.17	9,212.26	-1,396.39	-148.21	-1,392.44	2.00	-1.97	4.02
9,500.00	2.28	206.06	9,312.10	-1,401.71	-150.04	-1,397.71	2.00	-1.91	10.89
9,600.00	0.91	266.75	9,412.06	-1,403.54	-151.71	-1,399.50	2.00	-1.37	60.69
9,700.00	2.11	337.42	9,512.03	-1,401.89	-153.20	-1,397.81	2.00	1.20	70.67
9,800.00	4.01	349.77	9,611.89	-1,396.75	-154.53	-1,392.65	2.00	1.90	12.35
9,900.00	5.97	354.11	9,711.50	-1,388.13	-155.68	-1,384.01	2.00	1.97	4.34
10,000.00	7.96	356.29	9,810.76	-1,376.05	-156.67	-1,371.90	2.00	1.98	2.19
10,100.00	9.95	357.61	9,909.54	-1,360.52	-157.47	-1,356.35	2.00	1.99	1.32
10,200.00	11.94	358.49	10,007.71	-1,341.55	-158.11	-1,337.37	2.00	1.99	0.88
10,300.00	13.93	359.12	10,105.17	-1,319.17	-158.56	-1,314.99	2.00	2.00	0.63
10,400.00	15.93	359.60	10,201.79	-1,293.40	-158.84	-1,289.23	2.00	2.00	0.48

11/19/2018 2:51:45PM

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COMPASS 5000.1 Build 74

Database:	HOPSPP	Local Co-ordinate Reference:	Well LION OIL 28_33 FED COM 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3613.20ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3613.20ft
Site:	LION OIL 28_33 FED COM	North Reference:	Grid
Well:	LION OIL 28_33 FED COM 22H	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)
10,403.52	16.00	359.62	10,205.17	-1,292.43	-158.85	-1,288.26	2.00	2.00	0.42
10,500.00	25.65	359.62	10,295.25	-1,258.18	-159.08	-1,254.00	10.00	10.00	0.00
10,600.00	35.65	359.62	10,381.17	-1,207.27	-159.42	-1,203.10	10.00	10.00	0.00
10,800.00	35.65 45.65	359.62 359.62	10,381.17	-1,207.27	-159.42 -159.85	-1,203.10	10.00	10.00	0.00
10,700.00	45.65 55.65	359.62 359.62	10,456.94	-1,142.21	-159.85 -160.37	-1,138.05	10.00	10.00	0.00
10,900.00	65.65	359.62	10,569.23	-977.93	-160.95	-973.79	10.00	10.00	0.00
11,000.00	75.65	359.62	10,602.32	-883.70	-161.59	-879.58	10.00	10.00	0.00
11,100.00	85.65	359.62	10,618.55	-785.16	-162.25	-781.05	10.00	10.00	0.00
11,143.52	90.00	359.62	10,620.20	-741.68	-162.54	-737.58	10.00	10.00	0.00
11,200.00	90.00	359.62	10,620.20	-685.20	-162.92	-681.10	0.00	0.00	0.00
11,300.00	90.00	359.62	10,620.20	-585.20	-163.59	-581.12	0.00	0.00	0.00
11,400.00	90.00	359.62	10,620.20	-485.21	-164.26	-481.13	0.00	0.00	0.00
11,500.00	90.00	359.62	10,620.20	-385.21	-164.93	-381.15	0.00	0.00	0.00
11,600.00	90.00	359.62	10,620.20	-285.21	-165.60	-281.16	0.00	0.00	0.00
11,700.00	90.00	359.62	10,620.20	-185.21	-166.27	-181.18	0.00	0.00	0.00
11,800.00	90.00	359.62	10,620.20	-85.22	-166.94	-81.19	0.00	0.00	0.00
11,900.00	90.00	359.62	10,620.20	-65.22	-167.61	18.79	0.00	0.00	0.00
12,000.00	90.00	359.62	10,620.20	114.78	-168.28	118.78	0.00	0.00	0.00
12,100.00	90.00	359.62	10,620.20	214.78	-168.95	218.76	0.00	0.00	0.00
12,200.00	90.00	359.62	10,620.20	314.77	-169.62	318.75	0.00	0.00	0.00
12,300.00	90.00	359.62	10,620.20	414.77	-170.29	418.73	0.00	0.00	0.00
12,400.00	90.00	359.62	10,620.20	514.77	-170.96	518.72	0.00	0.00	0.00
12,500.00	90.00	359.62	10,620.20	614.77	-171.63	618.70	0.00	0.00	0.00
12,600.00	90.00	359.62	10,620.20	714.77	-172.30	718.69	0.00	0.00	0.00
12,700.00	90.00	359.62	10,620.20	814.76	-172.97	818.67	0.00	0.00	0.00
12,800.00	90.00	359.62	10,620.20	914.76	-173.64	918.66	0.00	0.00	0.00
12,900.00	90.00	359.62	10,620.20	1,014.76	-174.31	1,018.64	0.00	0.00	0.00
13,000.00	90.00	359.62	10,620.20	1,114.76	-174.98	1,118.63	0.00	0.00	0.00
13,100.00	90.00	359.62	10,620.20	1,214.75	-175.65	1,218.61	0.00	0.00	0.00
13,200.00	90.00	359.62	10,620.20	1,314.75	-176.32	1,318.60	0.00	0.00	0.00
13,300.00	90.00	359.62	10,620.20	1,414.75	-176.99	1,418.58	0.00	0.00	0.00
13,400.00	90.00	359.62	10,620.20	1,514.75	-177.66	1,518.57	0.00	0.00	0.00
13,500.00	90.00	359.62	10,620.20	1,614.75	-178.33	1,618.55	0.00	0.00	0.00
13,600.00	90.00	359.62	10,620.20	1,714.74	-178.33	1,718.54	0.00	0.00	0.00
13,700.00	90.00	359.62	10,620.20	1,814.74	-179.67	1,818.52	0.00	0.00	0.00
13,800.00	90.00	359.62	10,620.20	1,014.74	-179.07	1,010.52	0.00	0.00	0.00
13,900.00	90.00	359.62	10,620.20	2,014.74	-180.34	2,018.49	0.00	0.00	0.00
				,		,			
14,000.00	90.00	359.62	10,620.20	2,114.73	-181.68	2,118.48	0.00	0.00	0.00
14,100.00	90.00	359.62	10,620.20	2,214.73	-182.35	2,218.46	0.00	0.00	0.00
14,200.00	90.00	359.62	10,620.20	2,314.73	-183.02	2,318.45	0.00	0.00	0.00
14,300.00	90.00	359.62	10,620.20	2,414.73	-183.69	2,418.43	0.00	0.00	0.00
14,400.00	90.00	359.62	10,620.20	2,514.73	-184.36	2,518.42	0.00	0.00	0.00
14,500.00	90.00	359.62	10,620.20	2,614.72	-185.03	2,618.41	0.00	0.00	0.00
14,600.00	90.00	359.62	10,620.20	2,714.72	-185.69	2,718.39	0.00	0.00	0.00
14,700.00	90.00	359.62	10,620.20	2,814.72	-186.36	2,818.38	0.00	0.00	0.00
14,800.00	90.00	359.62	10,620.20	2,914.72	-187.03	2,918.36	0.00	0.00	0.00
14,900.00	90.00	359.62	10,620.20	3,014.71	-187.70	3,018.35	0.00	0.00	0.00
15,000.00	90.00	359.62	10,620.20	3,114.71	-188.37	3,118.33	0.00	0.00	0.00
15,100.00	90.00	359.62	10,620.20	3,214.71	-189.04	3,218.32	0.00	0.00	0.00
15,200.00	90.00	359.62	10,620.20	3,314.71	-189.71	3,318.30	0.00	0.00	0.00
15,300.00	90.00	359.62	10,620.20	3,414.71	-190.38	3,418.29	0.00	0.00	0.00
15,400.00	90.00	359.62	10,620.20	3,514.70	-191.05	3,518.27	0.00	0.00	0.00
15,500.00	90.00	359.62	10,620.20	3,614.70	-191.72	3,618.26	0.00	0.00	0.00
15,600.00	90.00	359.62	10,620.20	3,714.70	-192.39	3,718.24	0.00	0.00	0.00

11/19/2018 2:51:45PM

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Database:	HOPSPP	Local Co-ordinate Reference:	Well LION OIL 28 33 FED COM 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3613.20ft
Site:	LION OIL 28_33 FED COM	North Reference:	Grid
Well:	LION OIL 28_33 FED COM 22H	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)
15,700.00	90.00	359.62	10,620.20	3,814.70	-193.06	3,818.23	0.00	0.00	0.00
15,800.00	90.00	359.62	10,620.20	3,914.69	-193.73	3,918.21	0.00	0.00	0.00
15,900.00	90.00	359.62	10,620.20	4,014.69	-194.40	4,018.20	0.00	0.00	0.00
16,000.00	90.00	359.62	10,620.20	4,114.69	-195.07	4,118.18	0.00	0.00	0.00
16,100.00	90.00	359.62	10,620.20	4,214.69	-195.74	4,218.17	0.00	0.00	0.00
16,200.00	90.00	359.62	10,620.20	4,314.69	-196.41	4,318.15	0.00	0.00	0.00
16,300.00	90.00	359.62	10,620.20	4,414.68	-197.08	4,418.14	0.00	0.00	0.00
16,400.00	90.00	359.62	10,620.20	4,514.68	-197.75	4,518.12	0.00	0.00	0.00
16,500.00	90.00	359.62	10,620.20	4,614.68	-198.42	4,618.11	0.00	0.00	0.00
16,600.00	90.00	359.62	10,620.20	4,714.68	-199.09	4,718.09	0.00	0.00	0.00
16,700.00	90.00	359.62	10,620.20	4,814.67	-199.76	4,818.08	0.00	0.00	0.00
16,800.00	90.00	359.62	10,620.20	4,914.67	-200.43	4,918.06	0.00	0.00	0.00
16,900.00	90.00	359.62	10,620.20	5,014.67	-201.10	5,018.05	0.00	0.00	0.00
17,000.00	90.00	359.62	10,620.20	5,114.67	-201.77	5,118.03	0.00	0.00	0.00
17,100.00	90.00	359.62	10,620.20	5,214.67	-202.44	5,218.02	0.00	0.00	0.00
17,200.00	90.00	359.62	10,620.20	5,314.66	-203.11	5,318.00	0.00	0.00	0.00
17,300.00	90.00	359.62	10,620.20	5,414.66	-203.78	5,417.99	0.00	0.00	0.00
17,400.00	90.00	359.62	10,620.20	5,514.66	-204.45	5,517.97	0.00	0.00	0.00
17,500.00	90.00	359.62	10,620.20	5,614.66	-205.12	5,617.96	0.00	0.00	0.00
17,600.00	90.00	359.62	10,620.20	5,714.65	-205.79	5,717.94	0.00	0.00	0.00
17,700.00	90.00	359.62	10,620.20	5,814.65	-206.46	5,817.93	0.00	0.00	0.00
17,800.00	90.00	359.62	10,620.20	5,914.65	-207.13	5,917.91	0.00	0.00	0.00
17,900.00	90.00	359.62	10,620.20	6,014.65	-207.80	6,017.90	0.00	0.00	0.00
18,000.00	90.00	359.62	10,620.20	6,114.64	-208.47	6,117.88	0.00	0.00	0.00
18,100.00	90.00	359.62	10,620.20	6,214.64	-209.14	6,217.87	0.00	0.00	0.00
18,200.00	90.00	359.62	10,620.20	6,314.64	-209.81	6,317.85	0.00	0.00	0.00
18,300.00	90.00	359.62	10,620.20	6,414.64	-210.48	6,417.84	0.00	0.00	0.00
18,400.00	90.00	359.62	10,620.20	6,514.64	-211.15	6,517.82	0.00	0.00	0.00
18,500.00	90.00	359.62	10,620.20	6,614.63	-211.82	6,617.81	0.00	0.00	0.00
18,600.00	90.00	359.62	10,620.20	6,714.63	-212.49	6,717.79	0.00	0.00	0.00
18,700.00	90.00	359.62	10,620.20	6,814.63	-213.16	6,817.78	0.00	0.00	0.00
18,800.00	90.00	359.62	10,620.20	6,914.63	-213.83	6,917.77	0.00	0.00	0.00
18,900.00	90.00	359.62	10,620.20	7,014.62	-214.50	7,017.75	0.00	0.00	0.00
19,000.00	90.00	359.62	10,620.20	7,114.62	-215.17	7,117.74	0.00	0.00	0.00
19,100.00	90.00	359.62	10,620.20	7,214.62	-215.84	7,217.72	0.00	0.00	0.00
19,200.00	90.00	359.62	10,620.20	7,314.62	-216.51	7,317.71	0.00	0.00	0.00
19,300.00	90.00	359.62	10,620.20	7,414.62	-217.18	7,417.69	0.00	0.00	0.00
19,400.00	90.00	359.62	10,620.20	7,514.61	-217.85	7,517.68	0.00	0.00	0.00
19,500.00	90.00	359.62	10,620.20	7,614.61	-218.52	7,617.66	0.00	0.00	0.00
19,600.00	90.00	359.62	10,620.20	7,714.61	-219.19	7,717.65	0.00	0.00	0.00
19,700.00	90.00	359.62	10,620.20	7,814.61	-219.86	7,817.63	0.00	0.00	0.00
19,800.00	90.00	359.62	10,620.20	7,914.60	-220.53	7,917.62	0.00	0.00	0.00
19,900.00	90.00	359.62	10,620.20	8,014.60	-221.20	8,017.60	0.00	0.00	0.00
20,000.00	90.00	359.62	10,620.20	8,114.60	-221.87	8,117.59	0.00	0.00	0.00
20,100.00	90.00	359.62	10,620.20	8,214.60	-222.54	8,217.57	0.00	0.00	0.00
20,200.00	90.00	359.62	10,620.20	8,314.60	-223.21	8,317.56	0.00	0.00	0.00
20,300.00	90.00	359.62	10,620.20	8,414.59	-223.88	8,417.54	0.00	0.00	0.00
20,400.00	90.00	359.62	10,620.20	8,514.59	-224.55	8,517.53	0.00	0.00	0.00
20,500.00	90.00	359.62	10,620.20	8,614.59	-225.22	8,617.51	0.00	0.00	0.00
20,600.00	90.00	359.62	10,620.20	8,714.59	-225.89	8,717.50	0.00	0.00	0.00
20,700.00	90.00	359.62	10,620.20	8,814.58	-226.56	8,817.48	0.00	0.00	0.00
20,800.00	90.00	359.62	10,620.20	8,914.58	-227.23	8,917.47	0.00	0.00	0.00
20,900.00	90.00	359.62	10,620.20	9,014.58	-227.90	9,017.45	0.00	0.00	0.00
21,000.00	90.00	359.62	10,620.20	9,114.58	-228.57	9,117.44	0.00	0.00	0.00

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COMPASS 5000.1 Build 74

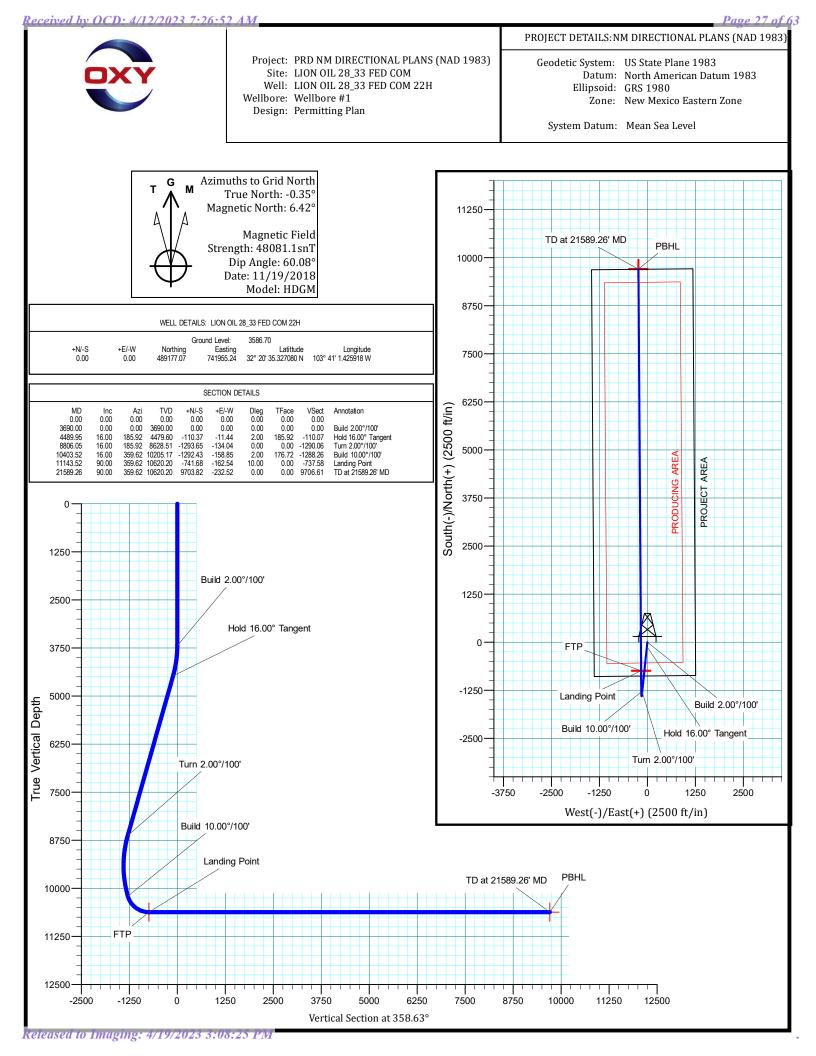
Database:	HOPSPP	Local Co-ordinate Reference:	Well LION OIL 28_33 FED COM 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3613.20ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3613.20ft
Site:	LION OIL 28_33 FED COM	North Reference:	Grid
Well:	LION OIL 28_33 FED COM 22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
21,100.00	90.00	359.62	10,620.20	9,214.58	-229.24	9,217.42	0.00	0.00	0.00
21,200.00	90.00	359.62	10,620.20	9,314.57	-229.91	9,317.41	0.00	0.00	0.00
21,300.00	90.00	359.62	10,620.20	9,414.57	-230.58	9,417.39	0.00	0.00	0.00
21,400.00	90.00	359.62	10,620.20	9,514.57	-231.25	9,517.38	0.00	0.00	0.00
21,500.00	90.00	359.62	10,620.20	9,614.57	-231.92	9,617.36	0.00	0.00	0.00
21,589.26	90.00	359.62	10,620.20	9,703.82	-232.52	9,706.61	0.00	0.00	0.00

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 (Lion Oil 28_33 - plan hits target cen - Point	0.00 Iter	0.00	10,620.20	-741.68	-162.54	488,435.42	741,792.71	32° 20' 27.998025 N	103° 41' 3.372796
PBHL (Lion Oil 28_33 - plan hits target cen - Point	0.00 iter	0.00	10,620.20	9,703.82	-232.52	498,880.44	741,722.73	32° 22' 11.358012 N	103° 41' 3.450376

Plan Annotations

Measured	Vertical	Local Coordinates		
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
3,690.00	3,690.00	0.00	0.00	Build 2.00°/100'
4,489.95	4,479.60	-110.37	-11.44	Hold 16.00° Tangent
8,806.05	8,628.51	-1,293.65	-134.04	Turn 2.00°/100'
10,403.52	10,205.17	-1,292.43	-158.85	Build 10.00°/100'
11,143.52	10,620.20	-741.68	-162.54	Landing Point
21,589.26	10,620.20	9,703.82	-232.52	TD at 21589.26' MD



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA Incorporated
LEASE NO.:	NMNM077060
LOCATION:	Section 33, T.22 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Lion Oil 28-33 Federal Com 21H
SURFACE HOLE FOOTAGE:	870'/S & 1360'/W
BOTTOM HOLE FOOTAGE	20'/N & 330'/W

WELL NAME & NO.:	Lion Oil 28-33 Federal Com 22H
SURFACE HOLE FOOTAGE:	840'/S & 1377'/W
BOTTOM HOLE FOOTAGE	20'/N & 1210'/W

COA

H2S	• Yes	🖸 No	
Potash	🖸 None	Secretary	🖸 R-111-P
Cave/Karst Potential	🖸 Low	🖸 Medium	C High
Cave/Karst Potential	Critical		
Variance	🖸 None	🖸 Flex Hose	C Other
Wellhead	Conventional	🖸 Multibowl	🖸 Both
Other	□4 String Area	Capitan Reef	□ WIPP
Other	Fluid Filled	🗌 Pilot Hole	🗌 Open Annulus
Cementing	□ Cement Squeeze	□ EchoMeter	
Special Requirements	U Water Disposal	COM	🗆 Unit
Special Requirements	Break Testing	☑ Offline	
		Cementing	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **West Red Tank** formation. 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

- 1. The **13-3/8** inch surface casing shall be set at approximately **1012 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) 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 $\underline{\mathbf{8}}$ <u>hours</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.

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

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
 Cement excess is less than 25%, more cement might be required.

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).'

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

• The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record),

Page 3 of 9

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.

- 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>

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 must be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- 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.
- The BLM is to be contacted (575-393-3612 Lea 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.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

Approval Date: 03/22/2023

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 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
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

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

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 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:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.
- 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.



Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

Scope

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

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

Objective

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

Discussion

Implementation:	This plan with all details is to be fully implemented before drilling to <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 nearest upwind designated safe briefing / muster area upw
	2.	Check status of personnel (buddy system).
	3.	Secure breathing equipment.
	4.	Await orders from supervisor.
Drill site manager:	1.	Don escape unit if necessary and report to nearest upwind designated safe briefing / muster area.
	2.	Coordinate preparations of individuals to return to point of release with tool pusher and driller (using the buddy system).
	3.	Determine H2S concentrations.
	4.	Assess situation and take control measures.
Tool pusher:	1.	Don escape unit Report to up nearest upwind
		designated safe briefing / muster area.
	2.	Coordinate preparation of individuals to return to point of release with tool pusher drill site manager
		(using the buddy system).
	3.	Determine H2S concentration.
	<i>4</i> .	Assess situation and take control measures.
		rissess situation and take control medistres.
Driller:	1.	Don escape unit, shut down pumps, continue

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

Taking a kick

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

Open-hole logging

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

Running casing or plugging

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

Ignition procedures

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

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

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)
		(sc=1)	(1)	(2)	(-)
Hydrogen Cyanide	Hcn	0.94	10 ppm	150 ppm/hr	300 ppm
Hydrogen Sulfide	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfur Dioxide	So2	2.21	5 ppm	-	1000 ppm
Chlorine	Cl2	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	Co2	1.52	5000 ppm	5%	10%
Methane	Ch4	0.55	90,000 ppm	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.

Revised CM 6/27/2012

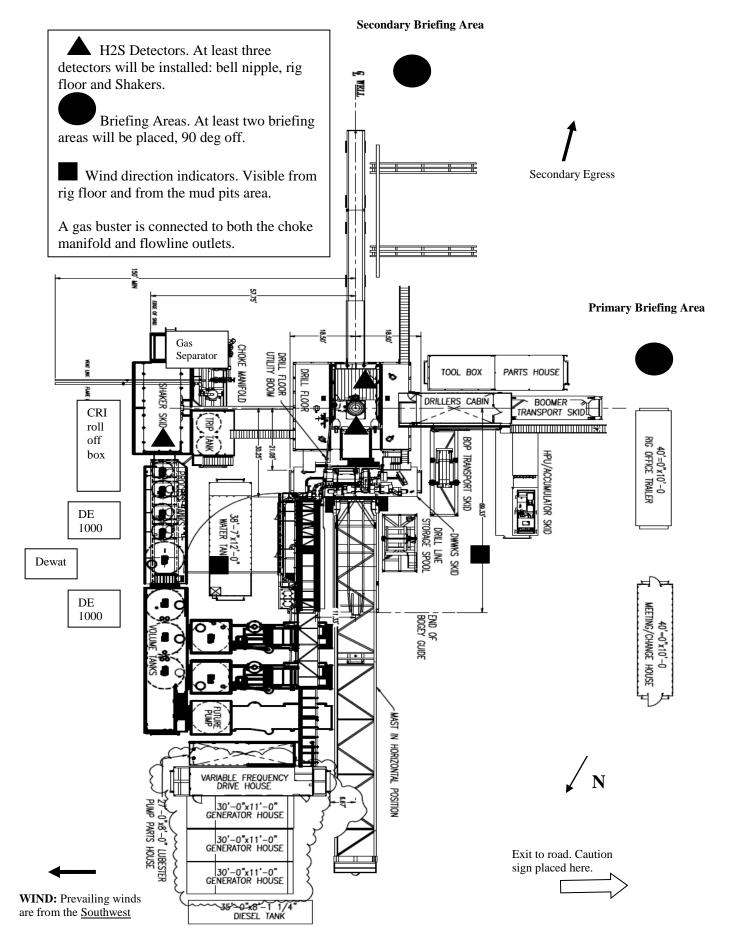


Permian Drilling Hydrogen Sulfide Drilling Operations Plan Lion Oil 28_33 Fed Com 22H

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.



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

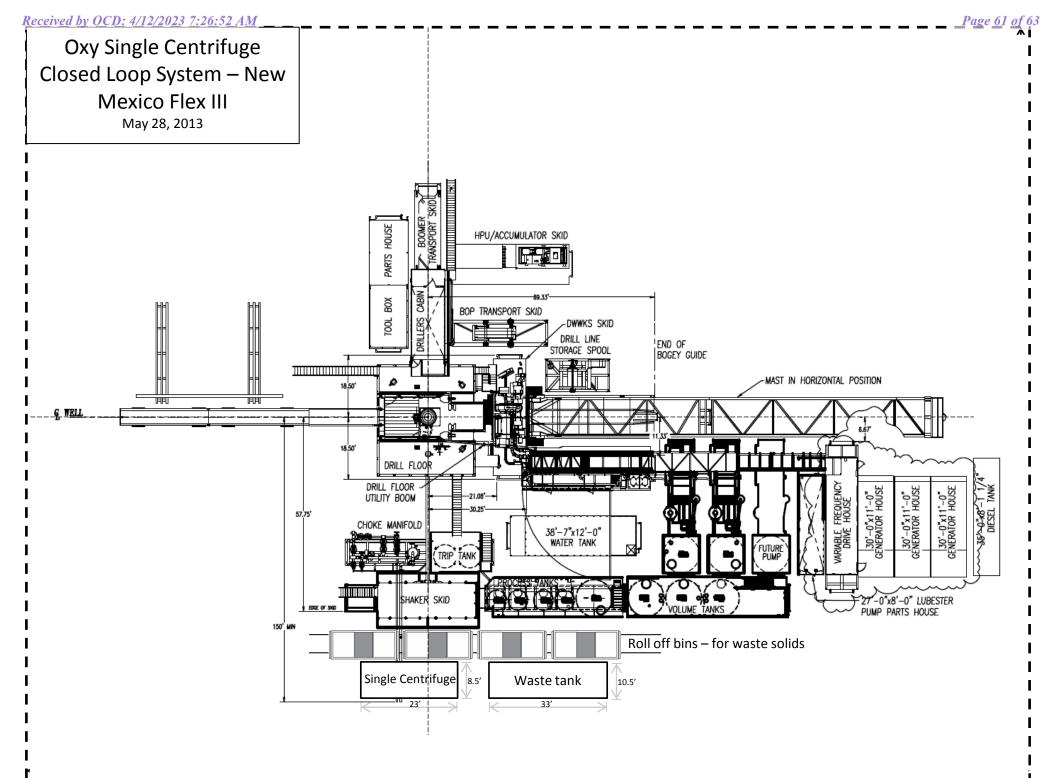
Person	Location	Office Phone	Cell/Mobile Phone	Home Phone	Pager Number
Drilling & Completions Department					
Drilling & Completions Manager: John Willis	Houston	(713) 366-5556	(713) 259-1417		
Drilling Superintendent: Simon Benavides	Houston	(713) 215-7403	(832) 528-3547		
Completions Superintendent: 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		Office			
Department	Location	Office	Cell Phone		1
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		(575) 499-4919		
		(432) 699-4208			
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	(432) 031-0341		
Rosalinda Escajeda	Midland	432-685-5831			
Moreno, Leslie (contract)	Hobbs	575-397-8247			
	Levelland		+ +		
Sehon, Angela (contractor)		806-894-8347	+ +		
Vasquez, Claudia (contractor)	North Cowden	432-385-3120 Office			
XstremeMD Medical Case Management	Location Orla, TX	(337) 205-9314			
Axiom Medical Consulting	Location	Office			
Axiom Medical Consulting Medical Case Management	Location	(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			

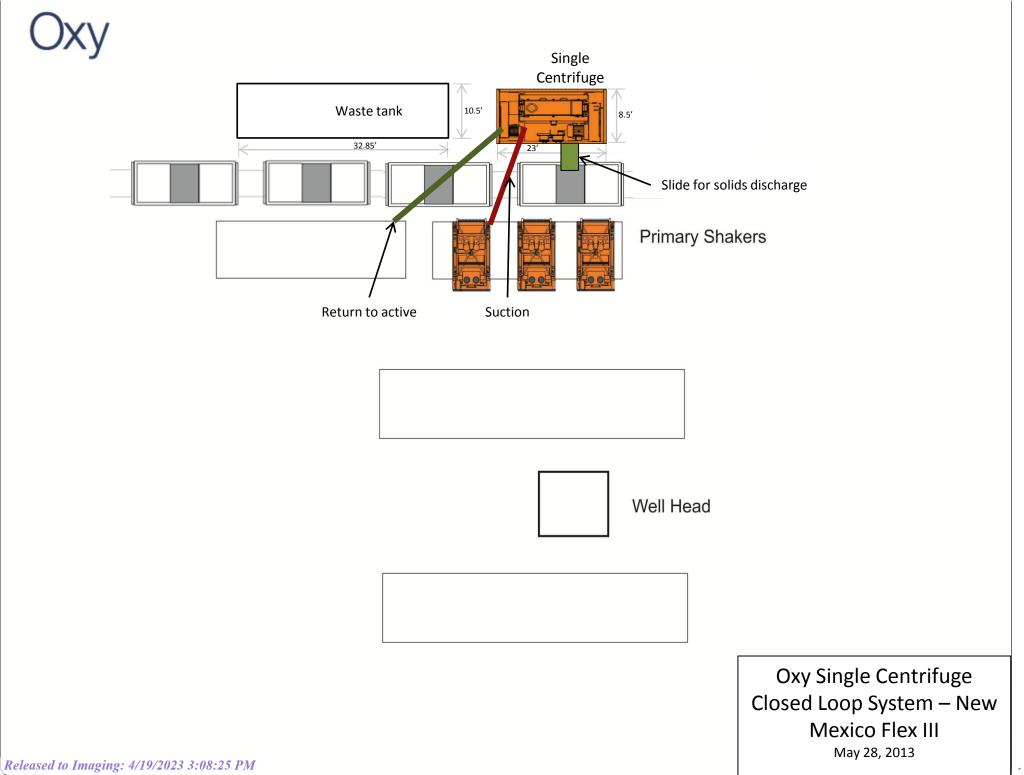
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DOT Juisdictional Pipelines-Incident Reporting New		(505) 827-3549			
Mexico Public Regulaion Commission	Santa Fe, NM	(505) 490-2375			
DOT Juisdictional Pipelines-Incident Reporting Texas Railroad Commission	A statist TX	(512) 463-6788			
EPA Hot Line	Austin, TX	. ,			
-	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,	(210) 227-1313			
Railroad Commission of TX	District 7C San Angelo	(325) 657-7450			
Railroad Commission of TX	District 8, 8A Midland	(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,	(512) 734-7981			
TCEQ Water/Waste/Air	Region 8 San Angelo	(325) 655-9479			
		(010) 000 7 777			
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 Hospital Levenand	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			
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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			

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Law Enforcement - Sheriff					
Andrews Cty Sheriff's Department	Andrews County(Andr	(432) 523-5545			
Crane Cty Sheriff's Department	Crane, County (Crane)	(432) 558-3571			
Crockett Cty Sheriff's Department	Crockett County (Ozor	(325) 392-2661			
Dawson Cty Sheriff's Department	Dawson County (Lame	(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 (Carlsbac	(505) 887-7551			
Gaines Cty Sheriff's Department	Gaines County (Semin	(432) 758-9871			
Hockley Cty Sheriff's Department	Hockley County(Levell	(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 (Abernatl	(806) 296-2724			
Midland Cty Sheriff's Department	Midland County (Midla	(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 (Brownfi	(806) 637-2212			
Union Cty Sheriff's Department	Union County (Claytor	(505) 374-2583			
Upton Cty Sheriff's Department	Upton County (Rankin	(432) 693-2422			
Ward Cty Sheriff's Department	Ward County (Monaha	(432) 943-3254			
Yoakum City Sheriff's Department	Yoakum Co. (Denever	(806) 456-2377			
Toakum City Sherm's Department	Toakum Co. (Denever	(800) 430-2377			
Law Enforcement - Police					
Abernathy City Police	Abernathy, TX	(806) 298-2545			
Andrews City Police	Andrews, TX	(432) 523-5675			
Artesia City Police	Artesia, NM				
Brownfield City Police	Brownfield, TX	(505) 746-2704 (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			
Hobbs City Police	Hobbs, NM	393-2677			
Jal City Police	Jal, NM	(505) 395-2501			
Jayton City Police	Jayton, TX	(806) 237-3801			
Lamesa City Police	Lamesa, TX	(806) 872-2121			
Levelland City Police	Levelland, TX	(806) 894-6164			
Lovington City Police	Lovington, NM	(505) 396-2811			
Midland City Police	Midland, TX	(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			
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			

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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		
TX Dept of Public Safety	Lubbock, TX	(806) 747-4491		
TX Dept of Public Safety	Midland, TX	(432) 697-2211		
TX Dept of Public Safety	Monahans, TX	(432) 943-5857		
TX Dept of Public Safety	Odessa, TX	(432) 332-6100		
TX Dept of Public Safety	Ozona, TX	(325) 392-2621		
TX Dept of Public Safety	Pecos, TX	(432) 447-3533		
TX Dept of Public Safety	Seminole, TX	(432) 758-4041		
TX Dept of Public Safety	Snyder, TX	(325) 573-0113		
TX Dept of Public Safety	Terry County TX	(806) 637-8913		
TX Dept of Public Safety	Yoakum County TX	(806) 456-2377		
Firefighting & Rescue				
Abernathy	Abernathy, TX	(806) 298-2022		
Amistad/Rosebud	Amistad/Rosebud, NM	(505) 633-9113		
Andrews	Andrews, TX	523-3111		
Artesia	Artesia, NM	(505) 746-5051		
Big Lake	Big Lake, TX	(325) 884-3650		
Brownfield-Administrative & other calls	Brownfield, TX	(816) 637-4547		
Brownfield emergency only	Brownfield, TX	-911		
Carlsbad	Carlsbad, NM	(505) 885-3125		
Clayton	Clayton, NM	(505) 374-2435		
Cotton Center	Cotton Center, TX	(806) 879-2157		
Crane	Crane, TX	(432) 558-2361		
Del Rio	Del Rio, TX	(830) 774-8650		
Denver City	Denver City, TX	(806) 592-3516		
Eldorado	Eldorado, TX	(325) 853-2691		
Eunice	Eunice, NM	(505) 394-2111		
Garden City	Garden City, TX	(432) 354-2404		
Goldsmith	Goldsmith, TX	(432) 827-3445		
Hale Center	Hale Center, TX	(806) 839-2411		
Halfway	Halfway, TX	(000) 000 2111		
Hobbs	Hobbs, NM	(505) 397-9308		
Jal	Jal, NM	(505) 395-2221		
Jayton	Jayton, TX	(806) 237-3801		
Kermit	Kermit, TX	(432) 586-3468		
Lamesa	Lamesa, TX	(806) 872-4352		
Levelland	Levelland, TX	(806) 894-3154		
Lovington	Lovington, NM	(505) 396-2359		
Maljamar	Maljamar, NM	(505) 676-4100		
McCamey	McCamey, TX	(432) 652-8232		
Midland	Midland, TX	(432) 685-7346		
Monahans	Monahans, TX			
		(432) 943-4343		
Nara Visa	Nara Visa, NM	(505) 461-3300		
Notrees	Notress, TX	(432) 827-3445		
Odessa	Odessa, TX	(432) 335-4659		
Ozona D	Ozona, TX	(325) 392-2626		
Pecos	Pecos, TX	(432) 445-2421		
Petersburg	Petersburg, TX	(806) 667-3461		

		(90) 15(90)7		
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	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		
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	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		
Odassa Cara Star	Odessa, TX	(888) 624-3571		
Odessa Care Star	,	()		





District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	206606
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	4/19/2023
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	4/19/2023
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	4/19/2023
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	4/19/2023

Page 63 of 63 CONDITIONS

Action 206606