Form 3160-3 (June 2015) UNITED STATE		FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018					
DEPARTMENT OF THE	INTERIO			5. Lease Serial No.			
BUREAU OF LAND MAN APPLICATION FOR PERMIT TO				6. If Indian, Allotee or T	ribe Name		
1a. Type of work: DRILL	REENTER			7. If Unit or CA Agreem	ent, Name and No.		
1b. Type of Well: Oil Well Gas Well	Other			8. Lease Name and Well	No.		
1c. Type of Completion: Hydraulic Fracturing	Single Zone	Multiple Zone					
2. Name of Operator				9. API Well No.			
				30-025-5456			
3a. Address	3b. Phon	e No. (include area cod	e)	10. Field and Pool, or Ex	cploratory		
4. Location of Well (Report location clearly and in accordance	e with any St	ate requirements.*)		11. Sec., T. R. M. or Blk	. and Survey or Area		
At surface							
At proposed prod. zone							
14. Distance in miles and direction from nearest town or post of	ffice*			12. County or Parish	13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease 17. Space			ing Unit dedicated to this well			
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Prope	osed Depth	20. BLM	M/BIA Bond No. in file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Appr	oximate date work will	start*	rt* 23. Estimated duration			
	24. At	tachments					
The following, completed in accordance with the requirements (as applicable)	of Onshore	Dil and Gas Order No. 1	, and the I	Hydraulic Fracturing rule p	er 43 CFR 3162.3-3		
 Well plat certified by a registered surveyor. A Drilling Plan. 		Item 20 above).		ns unless covered by an exis	sting bond on file (see		
3. A Surface Use Plan (if the location is on National Forest Syst SUPO must be filed with the appropriate Forest Service Office				rmation and/or plans as may	be requested by the		
25. Signature	Na	Name (Printed/Typed)			e		
Title							
Approved by (Signature)	Na	Name (Printed/Typed)		Dat	e		
Title		I					
Application approval does not warrant or certify that the application applicant to conduct operations thereon. Conditions of approval, if any, are attached.	ant holds leg	al or equitable title to th	nose rights	in the subject lease which	would entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, of the United States any false, fictitious or fraudulent statements					lepartment or agency		
			0.910				



(Continued on page 2)

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Additional Operator Remarks

Location of Well

0. SHL: SWSW / 275 FSL / 1275 FWL / TWSP: 22S / RANGE: 32E / SECTION: 24 / LAT: 32.3708047 / LONG: -103.6327748 (TVD: 0 feet, MD: 0 feet) PPP: SESW / 0 FSL / 2050 FWL / TWSP: 22S / RANGE: 32E / SECTION: 25 / LAT: 32.3555401 / LONG: -103.630253 (TVD: 10115 feet, MD: 15466 feet) BHL: SESW / 20 FSL / 2050 FWL / TWSP: 22S / RANGE: 32E / SECTION: 36 / LAT: 32.3410813 / LONG: -103.6302396 (TVD: 10115 feet, MD: 20727 feet)

BLM Point of Contact

Name: TENILLE C MOLINA Title: Land Law Examiner Phone: (575) 234-2224 Email: TCMOLINA@BLM.GOV

	y OCD: 2 02	<u>/26/2025_9:4</u>	13:16 AM		State of Nev	v Mexico				Page 3 o Revised July 9, 2024
			Eı			l Resources Departm	ent			
	t Electronical			OIL	CONSERVAT	ION DIVISION	-		Initial Su	hmittal
via OC	CD Permitting							Submittal		
								Type:	\Box Amended \Box As Drille	1
										a a
						TON INFORMATION				
30-02	30 -0)25-54564	Pool Code 51683			Pool Name RED T				
Proper 333676	rty Code		Property N	^{lame} ST	ACK CAT	S 25-36 FED	DERAL	CON	Well Number	er
OGRI 16696	333 D No.	676			Y USA				Ground Lev 3761'	el Elevation
Surfac	e Owner: 🗌	State 🗆 Fee 🛛	🛛 Tribal 🗹 Fe	deral		Mineral Owner: 🗆 S	State 🗆 Fee 🗆	Tribal 🗹	Federal	
			_		Surfa	ce Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		ongitude	County
Μ	24	22S	32E		275'FSI	_ 1275'FWL	32.37080	0475 -1	03.63277489	LEA
					Bottom	Hole Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Ι	ongitude	County
Ν	36	22S	32E		20'FSL	2050'FWL	32.34108	3138 -1	03.63023963	LEA
	00	220	02L		20102	20001112				
Dedic	ated Acres	Infill or Def	ining Well	Defining	g Well API	Overlanning Spacing	Unit (V/N)	Consolidat	ion Code	
640		INFILL	ning wen		25-51753	Overlapping Spacing Unit (Y/N) Consolidation Code				
	Numbers.			30-02	20-01700					
Oldel	Nullibers.					Well setbacks are under Common Ownership: Yes No				
					Kick Of	ff Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	ongitude	County
N	24	22S	32E		300'FSI	_2050'FWL	32.37088	3325 -1	03.63022620	LEA
<u> </u>	·		022			ke Point (FTP)				/
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	ongitude	County
Ĉ	25	22S	32E		100'FNI				03.63026546	LEA
0	20	220	JZL				02.0007		00.00020010	
T IT	Section	Townshin	Damaa	Lat	Ft. from N/S	ke Point (LTP) Ft. from E/W	Latituda	т	anaituda	Country
UL	Section	Township	Range	Lot			Latitude		ongitude	County
N	36	22S	32E		100'FSI	_2050'FWL	32.34130	JIZ0 -1	03.63023972	LEA
				-1						
	ed Area or A	rea of Uniform	Interest	Spacing	Unit Type 🖬 Horiz	ontol 🗆 Vortical	Ground	l Floor Ele	vation:	
Unitiz										
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	ATOR CER						CATIONS			
OPER		TIFICATIONS				SURVEYOR CERTIFIC				
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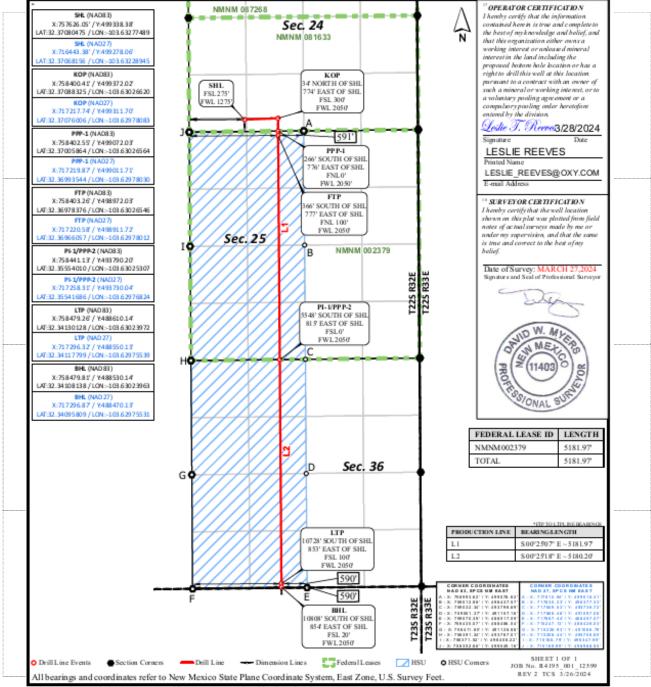
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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Received by OCD: 2/26/2025 9:43:16 AM ACREAGE DEDICATION PLATS

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

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



Distances/areas relative to NAD 83 grid measurements. Combined Scale Factor: 0.99975697 and a Convergence Angle: 0.07066700°

	į	Submit Electronically Via E-permitting					
		1220	onservation D South St. Fran nta Fe, NM 87	cis Dr.			
	N	ATURAL G	AS MANA	GEMENT P	LAN		
This Natural Gas Mana	gement Plan m	ust be submitted w	vith each Applica	tion for Permit to I	Drill (A	PD) for a ne	w or recompleted well.
			n 1 – Plan D Effective May 25.				
I. Operator: OXY US	SA INC.		OGRID: _16	696		Date:0	4/02/24
II. Type: 🗹 Original [□ Amendment	due to 🗆 19.15.27	7.9.D(6)(a) NMA	C 🗆 19.15.27.9.D((6)(b) N	MAC 🗆 Otl	ner.
If Other, please describe	e:						
III. Well(s): Provide th					wells pr	oposed to be	e drilled or proposed to
be recompleted from a s	single well pad	l or connected to a	central delivery p	ooint.			
be recompleted from a s Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D	Anticipated Produced Water BBL/D
-				Anticipated		-	Produced Water
Well Name	API	ULSTR	Footages	Anticipated		MCF/D	Produced Water
Well Name SEE ATTACHED	API Point Name: F	ULSTR Red Tank 26 CPF	Footages	Anticipated Oil BBL/D	Gas	MCF/D	Produced Water BBL/D 15.27.9(D)(1) NMAC]
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Page 6

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

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

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Section 3 - Certifications Effective May 25, 2021

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

Received by OCD: 2/26/2025 9:43:16 AM

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

Signature: Melíssa Guídry					
Printed Name: Melissa Guidry					
Title: Advisor Regulatory Sr.					
E-mail Address: melissa_guidry@oxy.com					
Date: 04/02/24					
^{Phone:} 713-497-2481					
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:					
(Only applicable when submitted as a standalone form) Approved By: Title:					
(Only applicable when submitted as a standalone form) Approved By: Title: Approval Date:					
(Only applicable when submitted as a standalone form) Approved By: Title: Approval Date:					

III. Well(s)

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
STACK CATS 25-36 FED COM 1H	Pending	S-24-22S-32E	275 FSL 1215 FWL	1000	4000	3500
STACK CATS 25-36 FED COM 2H	Pending	S-24-22S-32E	275 FSL 1275 FWL	1000	4000	3500
STACK CATS 25-36 FED COM 3H	Pending	N-25-22S-32E	210 FNL 1719 FEL	1000	4000	3500
STACK CATS 25-36 FED COM 4H	Pending	N-25-22S-32E	210 FNL 1659 FEL	1000	4000	3500
STACK CATS 25-36 FED COM 11H	Pending	S-24-22S-32E	275 FSL 1185 FWL	1500	6000	5000
STACK CATS 25-36 FED COM 12H	Pending	S-24-22S-32E	275 FSL 1245 FWL	1500	6000	5000
STACK CATS 25-36 FED COM 13H	Pending	S-24-22S-32E	275 FSL 1305 FWL	1500	6000	5000
STACK CATS 25-36 FED COM 14H	Pending	S-25-22S-32E	210 FNL 1749 FEL	1500	6000	5000
STACK CATS 25-36 FED COM 15H	Pending	S-25-22S-32E	210 FNL 1689 FEL	1500	6000	5000
STACK CATS 25-36 FED COM 16H	Pending	S-25-22S-32E	210 FNL 1629 FEL	1500	6000	5000

V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
STACK CATS 25-36 FED COM 1H	Pending	Jan-2026	Feb-2026	Mar-2026	Apr-2026	Apr-2026
STACK CATS 25-36 FED COM 2H	Pending	Jan-2026	Feb-2026	Mar-2026	Apr-2026	Apr-2026
STACK CATS 25-36 FED COM 3H	Pending	Jan-2026	Feb-2026	Mar-2026	Apr-2026	Apr-2026
STACK CATS 25-36 FED COM 4H	Pending	Jan-2026	Feb-2026	Mar-2026	Apr-2026	Apr-2026
STACK CATS 25-36 FED COM 11H	Pending	Jan-2026	Feb-2026	Mar-2026	Apr-2026	Apr-2026
STACK CATS 25-36 FED COM 12H	Pending	Jan-2026	Feb-2026	Mar-2026	Apr-2026	Apr-2026
STACK CATS 25-36 FED COM 13H	Pending	Jan-2026	Feb-2026	Mar-2026	Apr-2026	Apr-2026
STACK CATS 25-36 FED COM 14H	Pending	Jan-2026	Feb-2026	Mar-2026	Apr-2026	Apr-2026
STACK CATS 25-36 FED COM 15H	Pending	Jan-2026	Feb-2026	Mar-2026	Apr-2026	Apr-2026
STACK CATS 25-36 FED COM 16H	Pending	Jan-2026	Feb-2026	Mar-2026	Apr-2026	Apr-2026

Central Delivery Point Name : Red Tank 26 CPF

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.

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VII. Operational Practices

Gathering System and Pipeline Notification

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

Flowback Strategy

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

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

VIII. Best Management Practices

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. - Stack Cats 25_36 Fed Com 2H Drill Plan

1. Geologic Formations

TVD of Target (ft):	10115	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	20727	Deepest Expected Fresh Water (ft):	1021

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	1021	1021	
Salado	1696	1696	Salt
Castile	3469	3469	Salt
Delaware	4918	4918	Oil/Gas/Brine
Bell Canyon	4993	4993	Oil/Gas/Brine
Cherry Canyon	5790	5789	Oil/Gas/Brine
Brushy Canyon	7120	7100	Losses
Bone Spring	8789	8744	Oil/Gas
Bone Spring 1st	9926	9848	Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

			N	1D	Τ١	/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	1081	0	1081	13.375	54.5	J-55	BTC
I	ntermediate	12.25	0	9512	0	9454	7.625	26.4	L-80 HC	BTC
	Production	6.75	0	20727	0	10115	5.5	20	P-110	Wedge 461

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

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

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

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

Annular Clearance Variance Request

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

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (Ib/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	1129	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	683	1.65	13.2	5%	7,370	Circulate	Class H+Accel., Disper., Salt
Int.	2	Intermediate 2S - Tail BH	2653	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	663	1.84	13.3	25%	9,012	Circulate	Class C+Ret.

Offline Cementing Request

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

Bradenhead CBL Request

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

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	~	Tested to:	Deepest TVD Depth (ft) per Section:	
		5M		Annular	✓	70% of working pressure		
				Blind Ram	√		9454	
12.25" Hole	13-5/8"	, 5M		Pipe Ram		250 psi / 5000 psi		
				Double Ram	✓	230 psi / 3000 psi		
			Other*					
		5M		Annular	<	70% of working pressure		
	" Hole 13-5/8"	/8" 5M		Blind Ram	✓			
6.75" Hole				Pipe Ram		250 psi / 5000 psi	10115	
				Double Ram	\	230 psi / 3000 psi		
			Other*					

*Specify if additional ram is utilized

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

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

	Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.					
	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a					
	pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43					
	CFR part 3170 Subpart 3172.					
	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See					
	attached for specs and hydrostatic test chart.					
	Y Are anchors required by manufacturer?					
A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and						
	connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part					

3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached schematics.

BOP Break Testing Request

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

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

5. Mud Program

Section	Depth - MD		Depth - TVD		Tema	Weight	Viceosity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	1081	0	1081	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	1081	9512	1081	9454	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	9512	20727	9454	10115	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?	1 VI/WD TOLEO/ VISual Monitoring

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5050 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	161°F

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

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

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 4 well pad in batch by section: all surface sections, intermediate	Yes
sections and production sections. The wellhead will be secured with a night cap whenever	res
the rig is not over the well.	
Will more than one drilling rig be used for drilling operations? If yes, describe.	
Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for	
this well. If the timing between rigs is such that Oxy would not be able to preset surface,	Yes
the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the	
attached document for information on the spudder rig.	
Total Estimated Cuttings Volume: 2048 bbls	

Total Estimated Cuttings Volume: 2048 bbls

Oxy USA Inc. - Stack Cats 25_36 Fed Com 2H Drill Plan

1. Geologic Formations

TVD of Target (ft):	10115	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	20727	Deepest Expected Fresh Water (ft):	1021

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	1021	1021	
Salado	1696	1696	Salt
Castile	3469	3469	Salt
Delaware	4918	4918	Oil/Gas/Brine
Bell Canyon	4993	4993	Oil/Gas/Brine
Cherry Canyon	5790	5789	Oil/Gas/Brine
Brushy Canyon	7120	7100	Losses
Bone Spring	8789	8744	Oil/Gas
Bone Spring 1st	9926	9848	Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		N	ID	TVD					
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	1081	0	1081	13.375	54.5	J-55	BTC
Salt	12.25	0	5018	0	5018	10.75	45.5	L-80 HC	BTC-SC
Intermediate	9.875	0	9512	0	9454	7.625	26.4	L-80 HC	BTC
Production	6.75	0	20727	0	10115	5.5	20	P-110	Wedge 461

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

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

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

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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? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
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(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (Ib/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	1129	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	4,518	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	709	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	137	1.65	13.2	5%	7,370	Circulate	Class H+Accel., Disper., Salt
Int. 2	2	Intermediate 2S - Tail BH	827	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	663	1.84	13.3	25%	9,012	Circulate	Class C+Ret.

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4. Pressure Control Equipment

BOP installed and		Min.					TVD Depth	
tested before drilling	Size?	Required		Туре	\checkmark	Tested to:	(ft) per	
which hole?		WP					Section:	
		5M		Annular	>	70% of working pressure		
				Blind Ram	>			
12.25" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	5018	
		5101		Double Ram	>	230 psi / 3000 psi		
			Other*					
		5M		Annular	>	70% of working pressure		
				Blind Ram	>			
9.875" Hole	13-5/8"	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	9454
					5101		Double Ram	>
			Other*					
		5M		Annular	>	70% of working pressure		
				Blind Ram	>			
6.75" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	10115	
		5101		Double Ram	>	230 psi / 3000 psi		
			Other*					

*Specify if additional ram is utilized

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

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pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43						
CFR part 3170 Subpart 3172.						
A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See						
attached for specs and hydrostatic test chart.						
Y Are anchors required by manufacturer?						
 A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and						
connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part						

3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached schematics.

BOP Break Testing Request

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

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

5. Mud Program

Section	Depth		Depth - TVD		Trime	Weight	Viceosity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	1081	0	1081	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	1081	5018	1081	5018	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	5018	9512	5018	9454	Water-Based or Oil- Based Mud	8.0 - 10.0	38-50	N/C
Production	9512	20727	9454	10115	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

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

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

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5050 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	161°F

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

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

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 4 well pad in batch by section: all surface sections, intermediate		
sections and production sections. The wellhead will be secured with a night cap whenever	Yes	
the rig is not over the well.		
Will more than one drilling rig be used for drilling operations? If yes, describe.		
Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for		
this well. If the timing between rigs is such that Oxy would not be able to preset surface,	Yes	
the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the		
attached document for information on the spudder rig.		
Total Estimated Cuttings Volume: 1818 bbls		

Total Estimated Cuttings Volume: 1818 bbls

OXY USA Inc APD ATTACHMENT: SPUDDER RIG DATA

OPERATOR NAME / NUMBER: OXY USA Inc

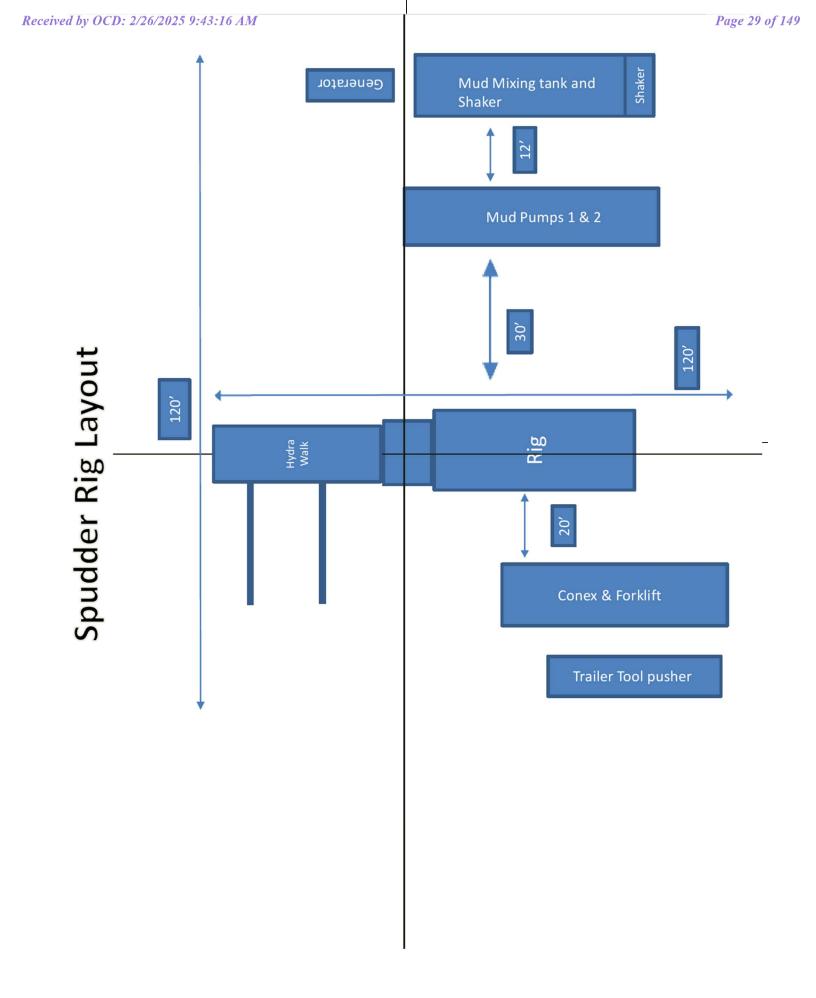
1. SUMMARY OF REQUEST:

Oxy USA respectfully requests approval for the following operations for the surface hole in the drill plan:

1. Utilize a spudder rig to pre-set surface casing for time and cost savings.

2. Description of Operations

- 1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR part 3170 Subpart 3172, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and the WOC time has been reached.
- **3.** A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
 - **a.** A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 6. Drilling operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be contacted / notified 24 hours before the larger rig moves back on the pre-set locations.
- 7. Oxy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 8. Once the rig is removed, Oxy will secure the wellhead area by placing a guard rail around the cellar area.



BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

BOP break test under the following conditions:

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

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

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

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

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

See supporting information below:

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

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

Background

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

Supporting Rationale

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

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

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

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

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

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

Procedures

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

Notes:

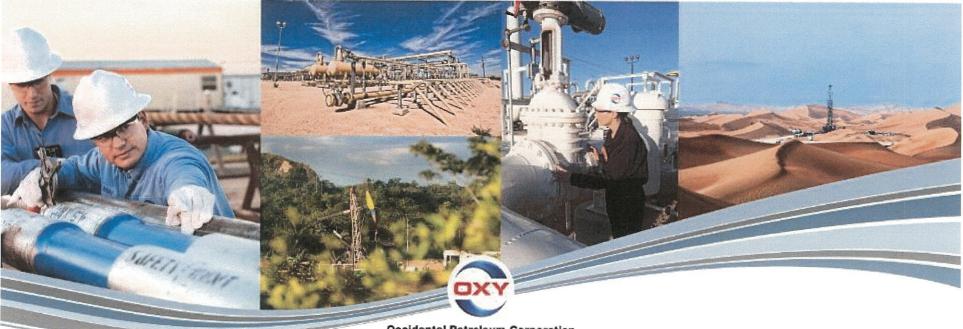
- a. If any parts of the BOP are changed out or any additional breaks are made during the skidding operation, these affected components would also be tested as in step 10.
- b. As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested in step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

Summary

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

REQUEST FOR A VARIANCE TO BREAK TEST THE BOP

Permian Resources New Mexico



Occidental Petroleum Corporation

Received by OCD: 2/26/2025 9:43:16 AM

Request for Variance

Released to Imaging: 3/24/2025 3:31:44 PM

OXY USA Inc. (OXY) requests a variance to allow break testing of the Blowout Preventer (BOP) stack when skidding a drilling rig between wells on multi-well pads

- This practice entails retesting only the connections of the BOP stack that have been disconnected during this operation and not a complete BOP test.
- As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested, no further testing of the manifold is done until the next full BOP test.
- This request is being made as per Section IV of the Onshore Oil and Gas Order (OOGO) No. 2

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry

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

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Interior, has also utilized the API standards, specifications and best practices in the The Bureau of Safety and Environmental Enforcement (BSEE), Department of development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

- BSEE issued new offshore regulations in July 2016 under 30 CFR Part 250, Oil Preventer Systems and Well Control. Within these regulations is language and Gas and Sulphur Operations in the Outer Continental Shelf - Blowout adopted from API Standard 53 which also supports break testing. 1
- components following the disconnection or repair of any well-pressure Specifically, Section 250.737(d.8) states "Pressure test affected BOP containment seal in the wellhead or BOP stack assembly." Т

X

Break testing has been approved by the BLM in the past

- The Farmington Field Office approved a Sundry Notice (SN) to allow break testing in 2015 T
- This SN granted permission for the operator to break test when skidding its Aztec 1000 rig on multi-well pads I

Oxy feels break testing and our current procedures meet or exceed the intent of OOGO No. 2

- BOP shell and components such as the pipe rams and check valve get tested to As skidding operations take place within the 30-day full BOPE test window, the the full rated working pressure more often I
- Oxy's standard requires complete BOP tests more often than that of OOGO No. 2
- training is a vital part of well control, this procedure to simulate step one of the - Oxy performs a choke drill prior to drilling out every casing shoe. As a crew's Driller's Method exceeds the requirements of OOGO No. 2

X

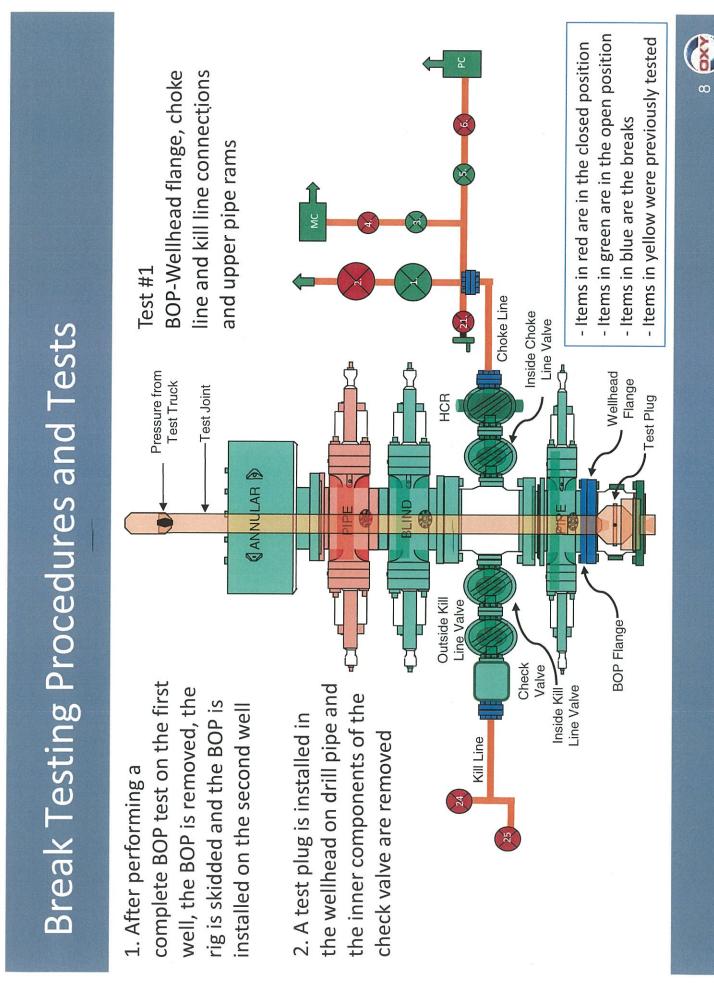
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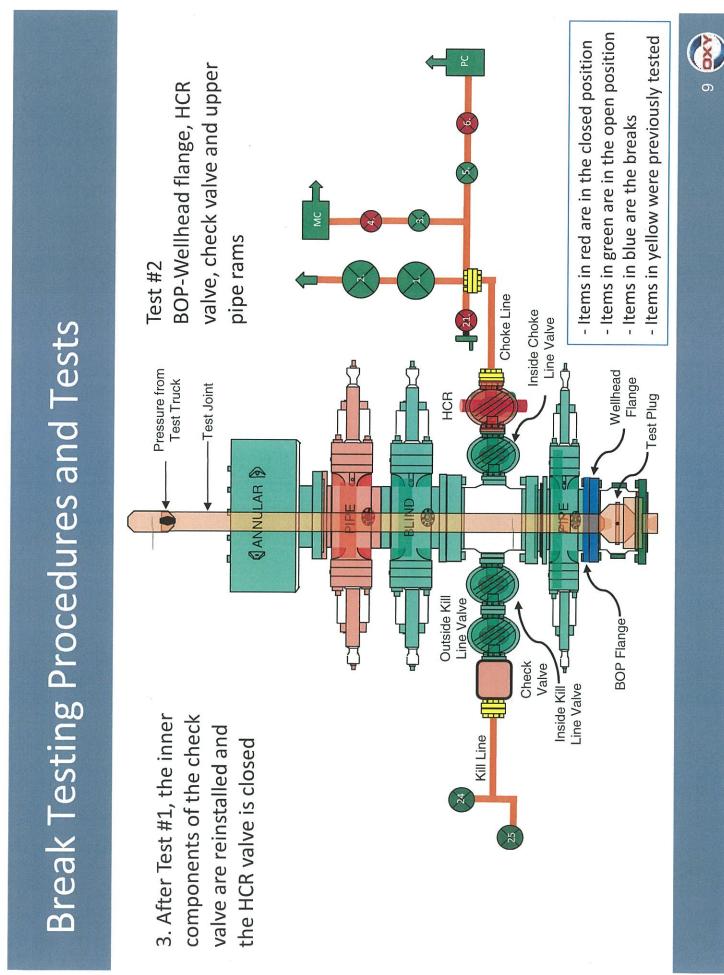
m	Break Testing Procedures
1)	OXY to submit the break testing plan in the APD or Sundry Notice (SN) and receive approval prior to implementing
2)	OXY would perform BOP break testing on multi-well pads where multiple intermediate sections can be drilled and cased within the full BOP test window
3)	After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP. Between the check valve and the kill line Between the HCR valve and the co-flex hose or the co-flex hose and the manifold Between the BOP flange and the wellhead
4)	The BOP is then lifted and removed from the wellhead by the hydraulic winch system
5)	After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed
6)	The choke line and kill line are reconnected
(٢	A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed
	9

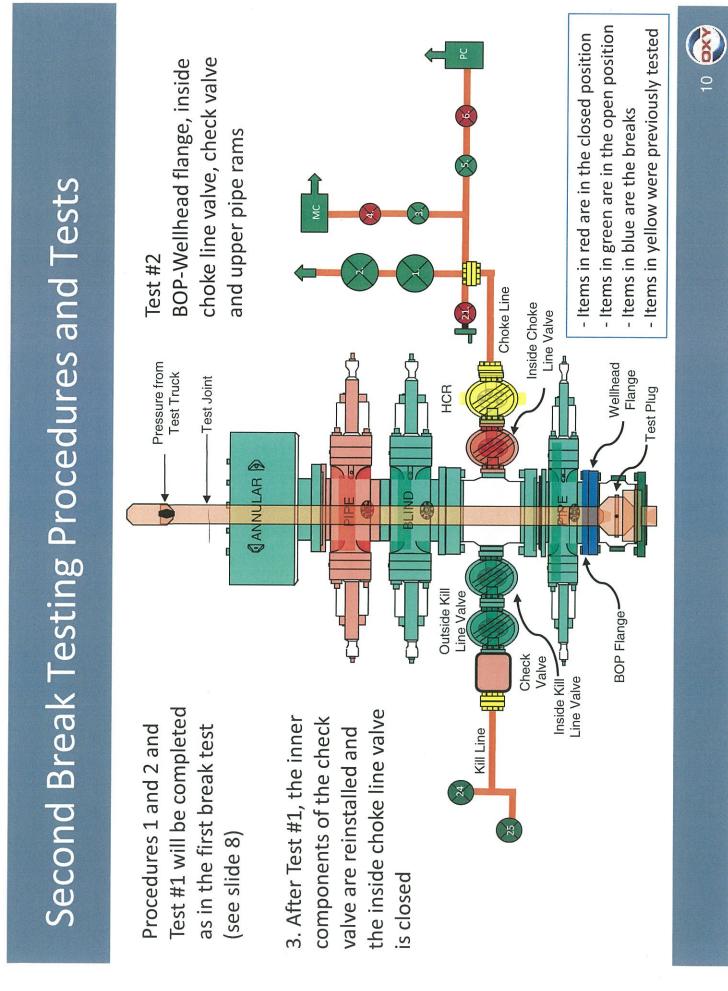
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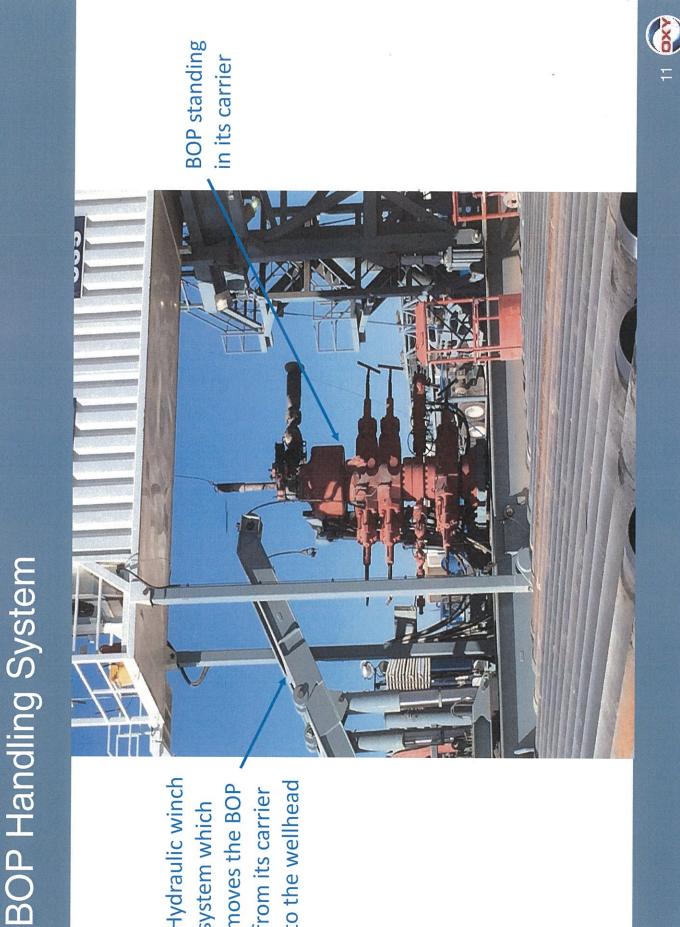
- 8) A shell test is performed against the upper pipe rams testing all three breaks
- The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 10)These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
- 11) Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 12) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
- 13) A second break test would only be done if the third hole section could be completed within the 30-day BOP test window
- 14) If a second break test is performed, additional components that were not tested on the first break test will be tested

X

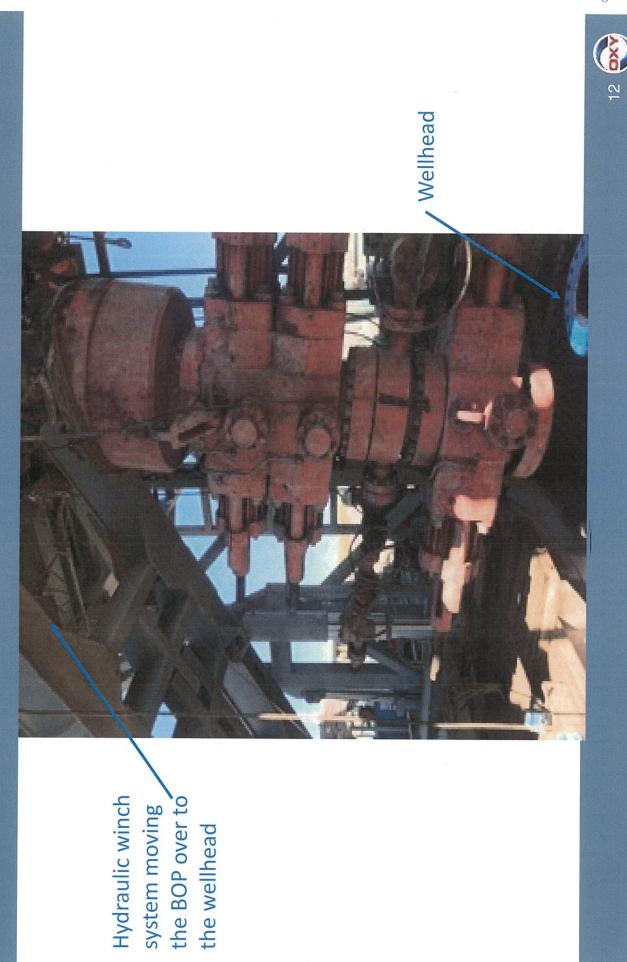








moves the BOP from its carrier to the wellhead Hydraulic winch system which



BOP Handling System

Summary for Variance Request for Break Testing	API standards, specifications and recommended practices are considered industry standards	 OOGO No. 2 recognized API Recommended Practices (RP) 53 in its original development 	 API Standard 53 recognizes break testing as an acceptable practice 	 The Bureau of Safety and Environmental Enforcement has utilized API standards, specifications and best practices in the development of its offshore oil and gas regulations 	 API Standard 53 recognizes break testing as an acceptable practice 	OXY feels break testing meets the intent of $OOGO$ No. 2 to protect public health and safety and the environment
N N	•					•

X

Bradenhead Cement CBL Variance Request

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

Three string wells:

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

Four string wells:

- CBL is not required
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

Offline Cementing Variance Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

1. Cement Program

No changes to the cement program will take place for offline cementing.

2. Offline Cementing Procedure

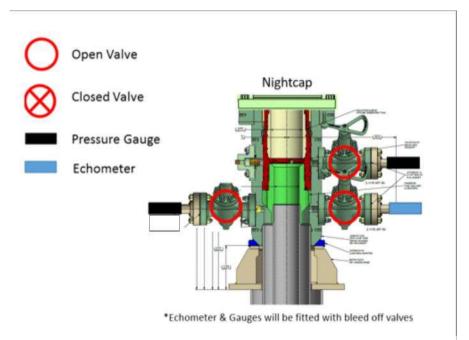
The operational sequence will be as follows:

- 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 with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi

Annular packoff with both external and internal seals



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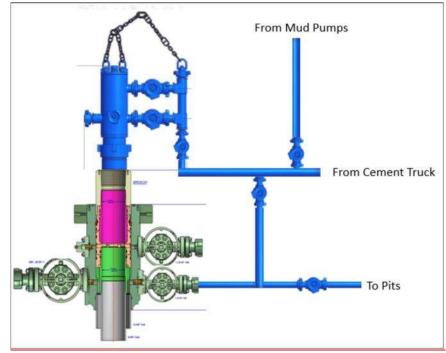


Wellhead diagram during skidding operations

5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.

a. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50 psi compressive strength if cannot be verified.

- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 3^{rd} party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
- 8. Install offline cement tool
- 9. Rig up cement equipment



Wellhead diagram during offline cementing operations

- 10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
- 11. Perform cement job taking returns from the annulus wellhead valve
- 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.

Production Casing 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 43 CFR part 3170 Subpart 3172 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.

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) Stack Cats 25_36 Stack Cats 25_36 Fed Com 2H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

21 December, 2023

OXY Planning Report

Database: Company: Project: Site: Well: Well: Wellbore: Design:	PRD NM Stack C	EERING DES M DIRECTIO ats 25_36 ats 25_36 Fe e #1	NAL PLANS	(NAD 1983)	Local Co-ordinate Reference:Well Stack Cats 25_36 Fed Com 2HTVD Reference:RKB = 25' @ 3786.00ftMD Reference:RKB = 25' @ 3786.00ftNorth Reference:GridSurvey Calculation Method:Minimum Curvature					n 2H
Project	PRD NM	DIRECTION	NAL PLANS (NAD 1983)						
Map System: Geo Datum: Map Zone:	North Ame	Plane 1983 erican Datum co Eastern Z			System Da	tum:		ean Sea Level sing geodetic so	ale factor	
Site	Stack Ca	ats 25_36								
Site Position: From: Position Uncertain	Map ty:	0.89 f	North Easti t Slot F	-	757,5	52.71 usft 64.76 usft 3.200 in	Latitude: Longitude:			32.371120 -103.63297
Well	Stack Ca	ts 25_36 Fee	d Com 2H							
Well Position Position Uncertain Grid Convergence:		0.0 2.0	00 ft Ea	orthing: asting: /ellhead Elev	ation:	499,338.38 757,626.05	usf Loi	titude: ngitude: ound Level:		32.37080 -103.63277 3,761.00 ft
Wellbore	Wellbore	e #1								
Magnetics	Mode	Model Name Sample Date		e Date	Declina (°)	tion	•	Angle °)	Field Stre (nT)	ngth
	H	IDGM_FILE	1	2/21/2023		6.25		59.95	47,567.	10000000
Design	Permittin	ıg Plan								
Audit Notes:										
Version:			Phas					0.00		
Vertical Section:		De	epth From (T (ft) 0.00	VD)	+N/-S (ft) 0.00	(1	/-W ft) 00	t) (°)		
Plan Survey Tool F Depth From (ft) 1 0.00	Depth (ft)	To Survey	12/21/2023 (Wellbore) ing Plan (Wel	lbore #1)	Tool Name B005Mc_MWI ISCWSA MWI		Remarks			
Plan Sections						Dogleg	Build	Turn Rate	TFO	
Measured Depth Incli	ination A (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Rate (°/100ft)	Rate (°/100ft)	(°/100ft)	(°)	Target
Depth Incli			Depth					(°/100ft) 0.00 0.00 0.00		Target

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Database:	HOPSPP	Local Co-ordinate Reference:	Well Stack Cats 25_36 Fed Com 2H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3786.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3786.00ft
Site:	Stack Cats 25_36	North Reference:	Grid
Well:	Stack Cats 25_36 Fed Com 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00 2,800.00	0.00 0.00	0.00 0.00	2,700.00 2,800.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00 5,400.00	0.00 0.00	0.00 0.00	5,300.00 5,400.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
0,+00.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stack Cats 25_36 Fed Com 2H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3786.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3786.00ft
Site:	Stack Cats 25_36	North Reference:	Grid
Well:	Stack Cats 25_36 Fed Com 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,470.00	0.00	0.00	5,470.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.60	91.54	5,500.00	0.00	0.16	0.02	2.00	2.00	0.00
5,600.00	2.60	91.54	5,599.96	-0.08	2.95	0.31	2.00	2.00	0.00
5,700.00	4.60	91.54	5,699.75	-0.25	9.22	0.97	2.00	2.00	0.00
5,800.00	6.60	91.54	5,799.27	-0.51	18.98	2.00	2.00	2.00	0.00
5,900.00	8.60	91.54	5,898.39	-0.86	32.20	3.40	2.00	2.00	0.00
5,970.10	10.00	91.54	5,967.56	-1.17	43.52	4.59	2.00	2.00	0.00
6,000.00	10.00	91.54	5,997.01	-1.31	48.72	5.14	0.00	0.00	0.00
6,100.00	10.00	91.54	6,095.49	-1.77	66.08	6.97	0.00	0.00	0.00
6,200.00	10.00	91.54	6,193.97	-2.24	83.44	8.80	0.00	0.00	0.00
6,300.00	10.00	91.54	6,292.45	-2.71	100.80	10.64	0.00	0.00	0.00
6,400.00	10.00	91.54	6,390.93	-3.17	118.16	12.47	0.00	0.00	0.00
6,500.00	10.00	91.54	6,489.41	-3.64	135.52	14.30	0.00	0.00	0.00
6,600.00	10.00	91.54	6,587.89	-4.11	152.89	16.13	0.00	0.00	0.00
6,700.00	10.00	91.54	6,686.37	-4.57	170.25	17.96	0.00	0.00	0.00
6,800.00	10.00	91.54	6,784.85	-5.04	187.61	19.80	0.00	0.00	0.00
6,900.00	10.00	91.54	6,883.33	-5.51	204.97	21.63	0.00	0.00	0.00
7,000.00	10.00	91.54	6,981.81	-5.97	222.33	23.46	0.00	0.00	0.00
7,100.00	10.00 10.00	91.54 91.54	7,080.29 7,178.77	-6.44 -6.90	239.70 257.06	25.29 27.12	0.00 0.00	0.00 0.00	0.00 0.00
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7,300.00	10.00	91.54	7,277.25	-7.37	274.42	28.96	0.00	0.00	0.00
7,400.00	10.00	91.54	7,375.73	-7.84	291.78	30.79	0.00	0.00	0.00
7,500.00	10.00	91.54	7,474.21	-8.30	309.14	32.62	0.00	0.00	0.00
7,600.00	10.00	91.54	7,572.69	-8.77	326.50	34.45	0.00	0.00	0.00
7,700.00	10.00	91.54	7,671.17	-9.24	343.87	36.28	0.00	0.00	0.00
7,800.00	10.00	91.54	7,769.65	-9.70	361.23	38.12	0.00	0.00	0.00
7,900.00	10.00	91.54	7,868.13	-10.17	378.59	39.95	0.00	0.00	0.00
8,000.00	10.00	91.54	7,966.61	-10.64	395.95	41.78	0.00	0.00	0.00
8,100.00	10.00	91.54	8,065.09	-11.10	413.31	43.61	0.00	0.00	0.00
8,200.00	10.00	91.54	8,163.57	-11.57	430.68	45.44	0.00	0.00	0.00
8,300.00	10.00	91.54	8,262.05	-12.03	448.04	47.28	0.00	0.00	0.00
8,400.00	10.00	91.54	8,360.53	-12.50	465.40	49.11	0.00	0.00	0.00
8,500.00	10.00	91.54	8,459.01	-12.97	482.76	50.94	0.00	0.00	0.00
8,600.00	10.00	91.54	8,557.49	-13.43	500.12	52.77	0.00	0.00	0.00
8,700.00	10.00	91.54	8,655.98	-13.90	517.48	54.60	0.00	0.00	0.00
8,800.00	10.00	91.54	8,754.46	-14.37	534.85	56.44	0.00	0.00	0.00
8,900.00	10.00	91.54	8,852.94	-14.83	552.21	58.27	0.00	0.00	0.00
9,000.00	10.00	91.54	8,951.42	-15.30	569.57	60.10	0.00	0.00	0.00
9,100.00	10.00	91.54	9,049.90	-15.76	586.93	61.93	0.00	0.00	0.00
9,200.00	10.00	91.54	9,148.38	-16.23	604.29	63.76	0.00	0.00	0.00
9,300.00	10.00	91.54	9,246.86	-16.70	621.66	65.60	0.00	0.00	0.00
9,400.00	10.00	91.54	9,345.34	-17.16	639.02	67.43	0.00	0.00	0.00
9,500.00	10.00	91.54	9,443.82	-17.63	656.38	69.26	0.00	0.00	0.00
9,600.00	10.00	91.54	9,542.30	-18.10	673.74	71.09	0.00	0.00	0.00
9,611.98	10.00	91.54	9,554.09	-18.15	675.82	71.31	0.00	0.00	0.00
9,700.00	13.52	132.42	9,640.40	-25.31	691.09	79.65	10.00	3.99	46.44
9,800.00	21.51	153.01	9,735.77	-49.59	708.07	105.19	10.00	7.99	20.60
9,900.00	30.67	162.29	9,825.53	-90.32	724.19	147.06	10.00	9.16	9.28
10,000.00	40.20	167.54	9,906.93	-146.27	738.95	204.00	10.00	9.53	5.25
10,100.00	49.89	171.04	9,977.51	-215.73	751.90	274.27	10.00	9.69	3.50
10,200.00	59.66	173.66	10,035.13	-296.60	762.65	355.73	10.00	9.77	2.62
10,300.00	69.47	175.80	10,078.02	-386.42	770.87	445.92	10.00	9.81	2.14
10,400.00	79.31	177.67	10,104.90	-482.45	776.31	542.08	10.00	9.84	1.88
10,500.00	89.16	179.43	10,114.94	-581.79	778.81	641.31	10.00	9.85	1.76
10,508.57	90.00	179.58	10,115.00	-590.36	778.88	649.86	10.00	9.85	1.74
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Database:	HOPSPP	Local Co-ordinate Reference:	Well Stack Cats 25_36 Fed Com 2H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3786.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3786.00ft
Site:	Stack Cats 25_36	North Reference:	Grid
Well:	Stack Cats 25_36 Fed Com 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,600.00 10,700.00 10,800.00 10,900.00 11,000.00	90.00 90.00 90.00 90.00	179.58 179.58 179.58 179.58 179.58	10,115.00 10,115.00 10,115.00 10,115.00	-681.78 -781.78 -881.78 -981.78	779.55 780.29 781.02 781.75 782.40	741.05 840.80 940.54 1,040.28	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
11,000.00	90.00	179.58	10,115.00	-1,081.77	782.49	1,140.03	0.00	0.00	0.00
11,100.00	90.00	179.58	10,115.00	-1,181.77	783.22	1,239.77	0.00	0.00	0.00
11,200.00	90.00	179.58	10,115.00	-1,281.77	783.95	1,339.52	0.00	0.00	0.00
11,300.00	90.00	179.58	10,115.00	-1,381.76	784.68	1,439.26	0.00	0.00	0.00
11,400.00	90.00	179.58	10,115.00	-1,481.76	785.42	1,539.01	0.00	0.00	0.00
11,500.00	90.00	179.58	10,115.00	-1,581.76	786.15	1,638.75	0.00	0.00	0.00
11,600.00	90.00	179.58	10,115.00	-1,681.76	786.88	1,738.50	0.00	0.00	0.00
11,700.00	90.00	179.58	10,115.00	-1,781.75	787.62	1,838.24	0.00	0.00	0.00
11,800.00	90.00	179.58	10,115.00	-1,881.75	788.35	1,937.99	0.00	0.00	0.00
11,900.00	90.00	179.58	10,115.00	-1,981.75	789.08	2,037.73	0.00	0.00	0.00
12,000.00	90.00	179.58	10,115.00	-2,081.75	789.82	2,137.47	0.00	0.00	0.00
12,100.00	90.00	179.58	10,115.00	-2,181.74	790.55	2,237.22	0.00	0.00	0.00
12,200.00	90.00	179.58	10,115.00	-2,281.74	791.28	2,336.96	0.00	0.00	0.00
12,300.00	90.00	179.58	10,115.00	-2,381.74	792.02	2,436.71	0.00	0.00	0.00
12,400.00	90.00	179.58	10,115.00	-2,481.74	792.75	2,536.45	0.00	0.00	0.00
12,500.00	90.00	179.58	10,115.00	-2,581.73	793.48	2,636.20	0.00	0.00	0.00
12,600.00	90.00	179.58	10,115.00	-2,681.73	794.21	2,735.94	0.00	0.00	0.00
12,700.00	90.00	179.58	10,115.00	-2,781.73	794.95	2,835.69	0.00	0.00	0.00
12,800.00	90.00	179.58	10,115.00	-2,881.72	795.68	2,935.43	0.00	0.00	0.00
12,900.00	90.00	179.58	10,115.00	-2,981.72	796.41	3,035.18	0.00	0.00	0.00
13,000.00	90.00	179.58	10,115.00	-3,081.72	797.15	3,134.92	0.00	0.00	0.00
13,100.00	90.00	179.58	10,115.00	-3,181.72	797.88	3,234.66	0.00	0.00	0.00
13,200.00	90.00	179.58	10,115.00	-3,281.71	798.61	3,334.41	0.00	0.00	0.00
13,300.00	90.00	179.58	10,115.00	-3,381.71	799.35	3,434.15	0.00	0.00	0.00
13,400.00	90.00	179.58	10,115.00	-3,481.71	800.08	3,533.90	0.00	0.00	0.00
13,500.00 13,600.00 13,700.00 13,800.00 13,900.00	90.00 90.00 90.00 90.00 90.00	179.58 179.58 179.58 179.58 179.58	10,115.00 10,115.00 10,115.00 10,115.00 10,115.00	-3,581.71 -3,681.70 -3,781.70 -3,981.69	800.81 801.55 802.28 803.01 803.74	3,633.64 3,733.39 3,833.13 3,932.88 4,032.62	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
14,000.00 14,100.00 14,200.00 14,300.00 14,400.00	90.00 90.00 90.00 90.00 90.00	179.58 179.58 179.58 179.58 179.58 179.58	10,115.00 10,115.00 10,115.00 10,115.00 10,115.00	-4,081.69 -4,181.69 -4,281.69 -4,381.68 -4,481.68	804.48 805.21 805.94 806.68 807.41	4,132.37 4,232.11 4,331.85 4,431.60 4,531.34	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
14,500.00	90.00	179.58	10,115.00	-4,581.68	808.14	4,631.09	0.00	0.00	0.00
14,600.00	90.00	179.58	10,115.00	-4,681.68	808.88	4,730.83	0.00	0.00	0.00
14,700.00	90.00	179.58	10,115.00	-4,781.67	809.61	4,830.58	0.00	0.00	0.00
14,800.00	90.00	179.58	10,115.00	-4,881.67	810.34	4,930.32	0.00	0.00	0.00
14,900.00	90.00	179.58	10,115.00	-4,981.67	811.08	5,030.07	0.00	0.00	0.00
15,000.00	90.00	179.58	10,115.00	-5,081.67	811.81	5,129.81	0.00	0.00	0.00
15,100.00	90.00	179.58	10,115.00	-5,181.66	812.54	5,229.56	0.00	0.00	0.00
15,200.00	90.00	179.58	10,115.00	-5,281.66	813.27	5,329.30	0.00	0.00	0.00
15,300.00	90.00	179.58	10,115.00	-5,381.66	814.01	5,429.04	0.00	0.00	0.00
15,400.00	90.00	179.58	10,115.00	-5,481.65	814.74	5,528.79	0.00	0.00	0.00
15,500.00 15,600.00 15,700.00 15,800.00 15,900.00 16,000.00	90.00 90.00 90.00 90.00 90.00 90.00	179.58 179.58 179.58 179.58 179.58 179.58 179.58	10,115.00 10,115.00 10,115.00 10,115.00 10,115.00 10,115.00	-5,581.65 -5,681.65 -5,781.65 -5,881.64 -5,981.64 -6,081.64	815.47 816.21 816.94 817.67 818.41 819.14	5,628.53 5,728.28 5,828.02 5,927.77 6,027.51 6,127.26	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stack Cats 25_36 Fed Com 2H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3786.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3786.00ft
Site:	Stack Cats 25_36	North Reference:	Grid
Well:	Stack Cats 25_36 Fed Com 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,100.00	90.00	179.58	10,115.00	-6,181.64	819.87	6,227.00	0.00	0.00	0.00
16,200.00	90.00	179.58	10,115.00	-6,281.63	820.61	6,326.75	0.00	0.00	0.00
16,300.00	90.00	179.58	10,115.00	-6,381.63	821.34	6,426.49	0.00	0.00	0.00
16,400.00	90.00	179.58	10,115.00	-6,481.63	822.07	6,526.23	0.00	0.00	0.00
16,500.00	90.00	179.58	10,115.00	-6,581.63	822.80	6,625.98	0.00	0.00	0.00
16,600.00	90.00	179.58	10,115.00	-6,681.62	823.54	6,725.72	0.00	0.00	0.00
16,700.00	90.00	179.58	10,115.00	-6,781.62	824.27	6,825.47	0.00	0.00	0.00
16,800.00	90.00	179.58	10,115.00	-6,881.62	825.00	6,925.21	0.00	0.00	0.00
16,900.00	90.00	179.58	10,115.00	-6,981.61	825.74	7,024.96	0.00	0.00	0.00
17,000.00	90.00	179.58	10,115.00	-7,081.61	826.47	7,124.70	0.00	0.00	0.00
17,100.00	90.00	179.58	10,115.00	-7,181.61	827.20	7,224.45	0.00	0.00	0.00
17,200.00	90.00	179.58	10,115.00	-7,281.61	827.94	7,324.19	0.00	0.00	0.00
17,300.00	90.00	179.58	10,115.00	-7,381.60	828.67	7,423.94	0.00	0.00	0.00
17,400.00	90.00	179.58	10,115.00	-7,481.60	829.40	7,523.68	0.00	0.00	0.00
17,500.00	90.00	179.58	10,115.00	-7,581.60	830.14	7,623.42	0.00	0.00	0.00
17,600.00	90.00	179.58	10,115.00	-7,681.60	830.87	7,723.17	0.00	0.00	0.00
17,700.00	90.00	179.58	10,115.00	-7,781.59	831.60	7,822.91	0.00	0.00	0.00
17,800.00	90.00	179.58	10,115.00	-7,881.59	832.34	7,922.66	0.00	0.00	0.00
17,900.00	90.00	179.58	10,115.00	-7,981.59	833.07	8,022.40	0.00	0.00	0.00
18,000.00	90.00	179.58	10,115.00	-8,081.58	833.80	8,122.15	0.00	0.00	0.00
18,100.00	90.00	179.58	10,115.00	-8,181.58	834.53	8,221.89	0.00	0.00	0.00
18,200.00	90.00	179.58	10,115.00	-8,281.58	835.27	8,321.64	0.00	0.00	0.00
18,300.00	90.00	179.58	10,115.00	-8,381.58	836.00	8,421.38	0.00	0.00	0.00
18,400.00	90.00	179.58	10,115.00	-8,481.57	836.73	8,521.13	0.00	0.00	0.00
18,500.00	90.00	179.58	10,115.00	-8,581.57	837.47	8,620.87	0.00	0.00	0.00
18,600.00	90.00	179.58	10,115.00	-8,681.57	838.20	8,720.61	0.00	0.00	0.00
18,700.00	90.00	179.58	10,115.00	-8,781.57	838.93	8,820.36	0.00	0.00	0.00
18,800.00	90.00	179.58	10,115.00	-8,881.56	839.67	8,920.10	0.00	0.00	0.00
18,900.00	90.00	179.58	10,115.00	-8,981.56	840.40	9,019.85	0.00	0.00	0.00
19,000.00	90.00	179.58	10,115.00	-9,081.56	841.13	9,119.59	0.00	0.00	0.00
19,100.00	90.00	179.58	10,115.00	-9,181.56	841.87	9,219.34	0.00	0.00	0.00
19,200.00	90.00	179.58	10,115.00	-9,281.55	842.60	9,319.08	0.00	0.00	0.00
19,300.00	90.00	179.58	10,115.00	-9,381.55	843.33	9,418.83	0.00	0.00	0.00
19,400.00	90.00	179.58	10,115.00	-9,481.55	844.06	9,518.57	0.00	0.00	0.00
19,500.00	90.00	179.58	10,115.00	-9,581.54	844.80	9,618.32	0.00	0.00	0.00
19,600.00	90.00	179.58	10,115.00	-9,681.54	845.53	9,718.06	0.00	0.00	0.00
19,700.00	90.00	179.58	10,115.00	-9,781.54	846.26	9,817.80	0.00	0.00	0.00
19,800.00	90.00	179.58	10,115.00	-9,881.54	847.00	9,917.55	0.00	0.00	0.00
19,900.00	90.00	179.58	10,115.00	-9,981.53	847.73	10,017.29	0.00	0.00	0.00
20,000.00	90.00	179.58	10,115.00	-10,081.53	848.46	10,117.04	0.00	0.00	0.00
20,100.00	90.00	179.58	10,115.00	-10,181.53	849.20	10,216.78	0.00	0.00	0.00
20,200.00	90.00	179.58	10,115.00	-10,281.53	849.93	10,316.53	0.00	0.00	0.00
20,300.00	90.00	179.58	10,115.00	-10,381.52	850.66	10,416.27	0.00	0.00	0.00
20,400.00	90.00	179.58	10,115.00	-10,481.52	851.40	10,516.02	0.00	0.00	0.00
20,500.00	90.00	179.58	10,115.00	-10,581.52	852.13	10,615.76	0.00	0.00	0.00
20,600.00	90.00	179.58	10,115.00	-10,681.52	852.86	10,715.51	0.00	0.00	0.00
20,700.00	90.00	179.58	10,115.00	-10,781.51	853.59	10,815.25	0.00	0.00	0.00
20,727.15	90.00	179.58	10,115.00	-10,808.67	853.79	10,842.33	0.00	0.00	0.00
L									

OXY Planning Report

Database:HOPSPPCompany:ENGINEERING DESIGNSProject:PRD NM DIRECTIONAL PLANS (NAD 1983)Site:Stack Cats 25_36Well:Stack Cats 25_36 Fed Com 2HWellbore:Wellbore #1Design:Permitting Plan						ordinate Referenc ence: nce: rence: lculation Method	RKB = RKB = Grid	I Stack Cats 25_36 Fed Com 2H 3 = 25' @ 3786.00ft 3 = 25' @ 3786.00ft 1 imum Curvature		
Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
KOP (Stack Cats - plan misses targ - Point	0.00 et center by 7		0.00 00ft MD (0.0	33.64 0 TVD, 0.00 N	774.39 N, 0.00 E)	499,372.02	758,400.41	32.370883	-103.63026	
FTP (Stack Cats - plan misses targ - Point	0.00 et center by 4		10,115.00 98.37ft MD	-366.36 (10077.45 T∨	777.24 ⁄D, -384.90 N	498,972.03 , 770.76 E)	758,403.26	32.369784	-103.63026	
PBHL (Stack Cats - plan hits target c - Point	0.00 enter	0.00	10,115.00	-10,808.67	853.79	488,530.14	758,479.81	32.341081	-103.63024	

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,021.00	1,021.00	RUSTLER			
1,696.00	1,696.00	SALADO			
3,469.00	3,469.00	CASTILE			
4,918.00	4,918.00	DELAWARE			
4,993.00	4,993.00	BELL CANYON			
5,789.66	5,789.00	CHERRY CANYON			
7,120.01	7,100.00	BRUSHY CANYON			
8,789.38	8,744.00	BONE SPRING			
9,926.48	9,848.00	BONE SPRING 1ST			

lan Annotati	ions				
	Measured	Vertical	Local Coordinates		
	Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
	5,470.00	5,470.00	0.00	0.00	Build 2°/100'
	5,970.10	5,967.56	-1.17	43.52	Hold 10° Tangent
	9,611.98	9,554.09	-18.15	675.82	KOP, Build 10°/100'
	10,508.57	10,115.00	-590.36	778.88	Landing Point
	20,727.15	10,115.00	-10,808.67	853.79	TD at 20727.15' MD

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

Oxy USA Incorporated Lease Number NMNM002379

Stack Cats 25-36 Federal Com 1H-4H, 11H-16H, 21H-26H, 31H-35H, 41H-44H, 71H-74H, 311H-313H

Tuna Nut 25-36 Federal Com 1H-4H, 11H-16H, 21H-26H, 31H-35H, 41H-44H, 71H-74H, 311H-313H

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

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

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I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

OR

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

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

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

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

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

IV. NOXIOUS WEEDS

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

V. SPECIAL REQUIREMENT(S)

Watershed:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

BURIED/SURFACE LINE(S):

When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

ELECTRIC LINE(S):

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.

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Range:

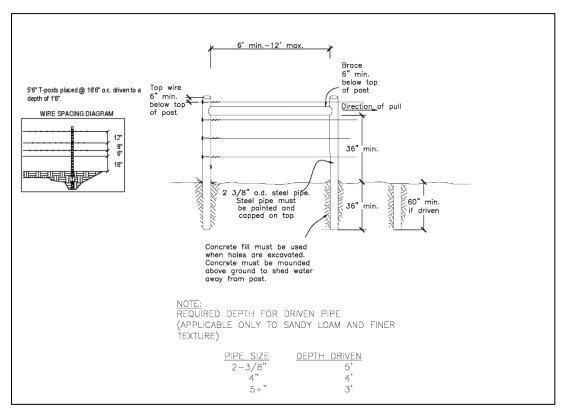
Cattleguards

Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

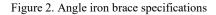
Fence Requirement

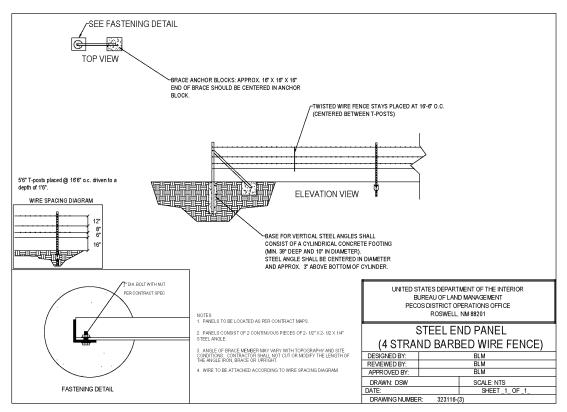
Where entry granted across a fence line, the fence must be H-braced or angle iron braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or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

Figure 1. Pipe H-brace specifications



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Livestock Watering Requirement

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

Lesser Prairie Chicken:

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

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

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an

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operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Ground-level Abandoned Well Marker to avoid raptor perching:

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

CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free

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of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

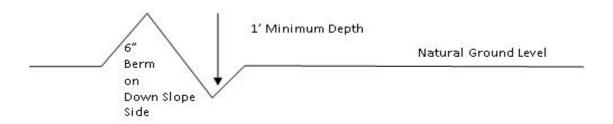
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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

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

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

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

400 foot road with 4% road slope: 400' + 100' = 200' lead-off ditch interval 4%

Cattle guards

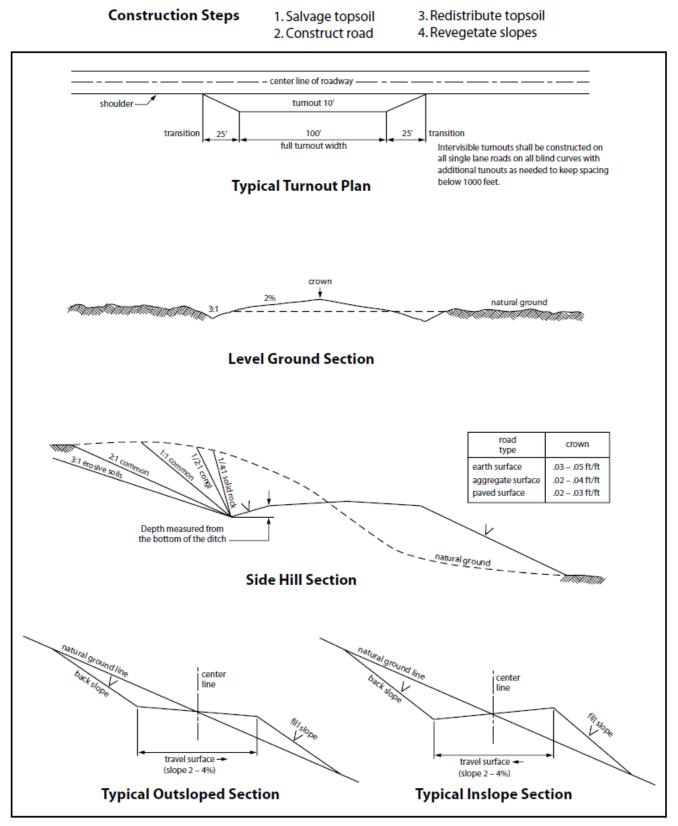
An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible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

Fence Requirement

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

Public Access

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





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VI. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

B. PIPELINES

• The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the

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trench at that point until clearance has been issued by the Authorized Officer.

- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan <u>will be submitted to the BLM Carlsbad Field Office for approval</u> prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

BURIED PIPELINE STIPULATIONS

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

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

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq.</u> (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder.

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Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of <u>36</u> inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be **<u>30</u>** feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>30</u> feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ____6___ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.
 Seed Mixture 2 LPC/HEA

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

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15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

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

OR

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

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 17 for more information.

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

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

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

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

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20. <u>Escape Ramps</u> - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

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

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

1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 *et seq.* (1982) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (*see* 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.

4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing
 - (2) Earth-disturbing and earth-moving work
 - (3) Blasting

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(4) Vandalism and sabotage;

c. Acts of God.

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

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

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.

6. All construction and maintenance activity shall be confined to the authorized right-of-way width of **50** feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.

8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of <u>6</u> inches under all roads, "twotracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

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13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

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

OR

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

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 16 for more information.

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

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

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

18. The operator shall be held responsible if noxious weeds become established within the areas

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

19. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

C. ELECTRIC LINES

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

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

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

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

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq</u>. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

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5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

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

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

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

OR

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

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 11 for more information.

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

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

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

13. Special Stipulations:

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

VII. INTERIM RECLAMATION

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

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

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

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

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

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VIII. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

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

Seed Mixture for LPC/HEA Sites

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

The disturbed area associated with pipeline construction will be disked in order to loosen the soil. Seed application will be performed by dispersing seed through a hydroseeder with the appropriate amount of hydromulch to assist in an even rate of application. After application, a chain harrow will be implemented to cover the seed with soil to ensure the seed is had the proper depth (approximate $\frac{1}{2}$ inch). Seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may not be made before completion of at least one full growing season after seeding.

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

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass Sand Bluestem Little Bluestem Big Bluestem Plains Coreopsis Sand Dropseed	5lbs/A 5lbs/A 5lbs/A 5lbs/A 5lbs/A 1lbs/A
Partridge Pea	1.6 lbs/A
Purple Prairie Clover	0.4 lbs/A
Fire wheel	0.4lbs/A

*Pounds of pure live seed:

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INCORPORATED
WELL NAME & NO.:	STACK CATS 25 36 FED COM 2H
LOCATION:	Section 24, T.22 S., R.32 E.
COUNTY:	Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Received by OCD: 2/26/2025 9:43:16 AM

NOTE: ONLY PRIMARY DESIGN REVIEWED AND APPROVED. PLEASE SUBMIT SUNDRY IF CONTINGENCY DESIGN IS NEEDED

Primary Design:

- 1. The **13-3/8** inch surface casing shall be set at approximately **1080** feet **TVD** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall

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

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>24 hours in the Potash Area</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- The 7-5/8 inch intermediate casing shall be set at approximately 9512 feet. KEEP CASING 1/2 FULL FOR COLLAPSE SF. PRESSURE TEST NEEDS EXTERNAL PRESSURE REVIEW AS WELL. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

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

Option 2 (Bradenhead):

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

- a. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified
- 3. The **5-1/2** inch production casing shall be set at approximately **20,727** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

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

C. PRESSURE CONTROL

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (**575-706-2779**) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

Contact Lea County Petroleum Engineering Inspection Staff:

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

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

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installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

- b. When the operator proposes to set surface casing with Spudder Rig
 - i.Notify the BLM when moving in and removing the Spudder Rig.
 - ii.Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii.BOP/BOPE test to be conducted per **43** CFR **3172** as soon as 2^{nd} Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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

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

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

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

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe

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shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

- i.Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- ii.If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- iii.Manufacturer representative shall install the test plug for the initial BOP test.
- iv.Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
- v.If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

- i.In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- ii.In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation

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has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v.The results of the test shall be reported to the appropriate BLM office.
- vi.All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii.BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

KPI 2/5/2025

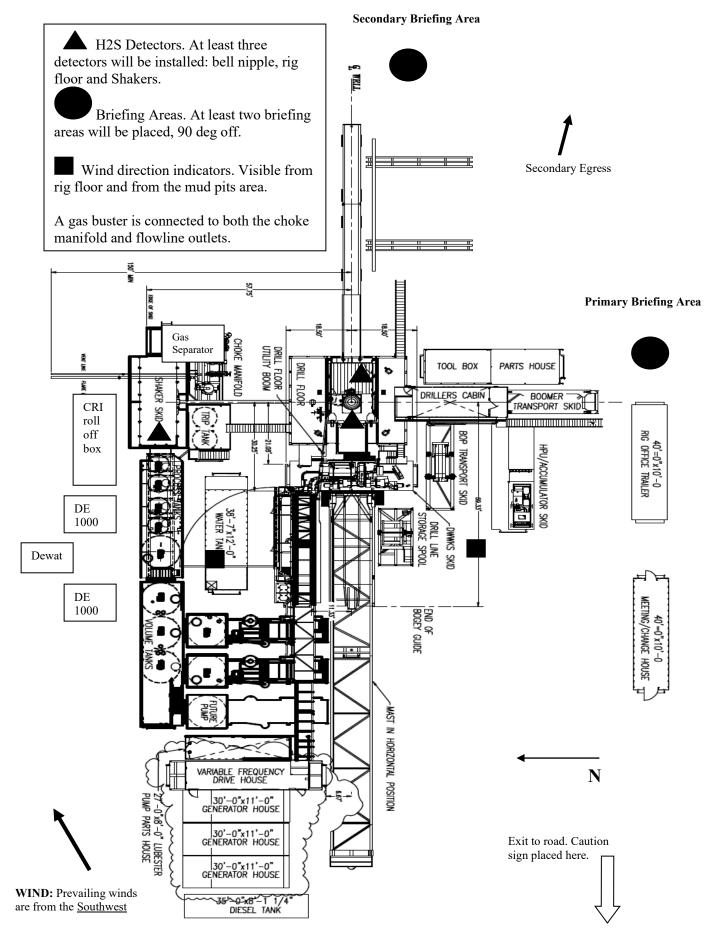


Permian Drilling Hydrogen Sulfide Drilling Operations Plan

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

1. Escape

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





Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

<u>Scope</u>

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

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

Objective

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

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Discussion

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

Hydrogen Sulfide Training

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

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

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

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

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

Service company and visiting personnel

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

Emergency Equipment Requirements

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

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

Special control equipment:

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

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

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

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

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

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

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

Caution – potential poison gas Hydrogen sulfide No admittance without authorization

Wind sock – *wind streamers*:

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

Condition flags

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

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

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

5. <u>Mud Program</u>

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

Mud inspection devices:

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

6. <u>Metallurgy</u>

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

7. <u>Well Testing</u>

No drill stem test will be performed on this well.

8. <u>Evacuation plan</u>

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

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

Emergency procedures

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

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

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

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

<u>Taking a kick</u>

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

Open-hole logging

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

Running casing or plugging

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

Ignition procedures

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

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

Instructions for igniting the well

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

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

Status check list

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

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

Checked by: _____ Date:

Procedural check list during H2S events

Perform each tour:

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

Perform each week:

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

General evacuation plan

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

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

Emergency actions

Well blowout – if emergency

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

Person down location/facility

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

Toxic effects of hydrogen sulfide

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

Common name	Chemical formula	Specific gravity	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	C12	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	Co2	1.52	5000 ppm	5%	10%
Methane	Ch4	0.55	90,000 ppm	Combustib	le above 5% in air

Table i Toxicity of various gases

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

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

Toxic effects of hydrogen sulfide

Table ii Physical effects of hydrogen sulfide

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

•

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

*at 15.00 psia and 60'f.

Use of self-contained breathing equipment (SCBA)

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

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

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

Do not panic!

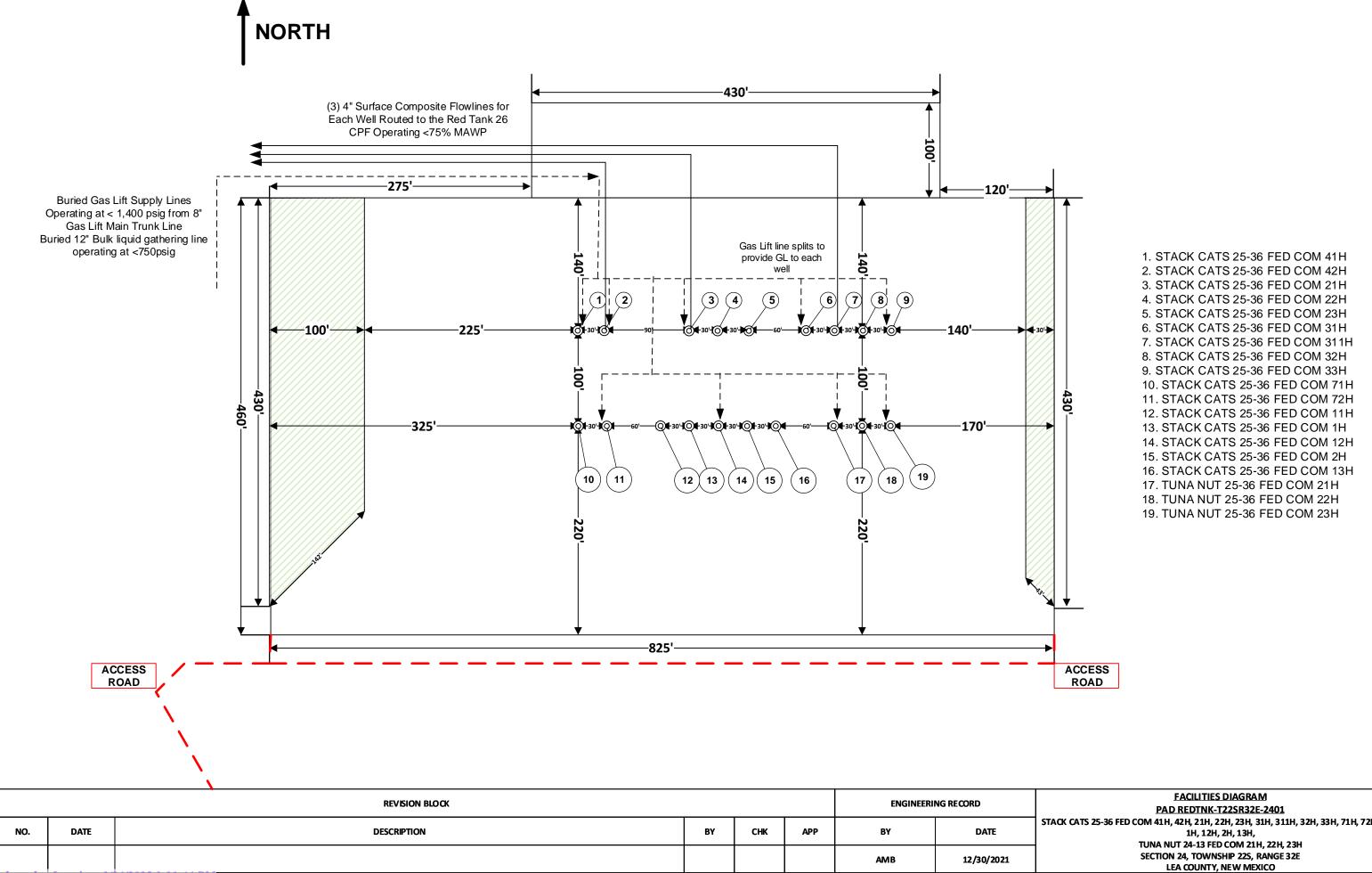
Remain calm – think!

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

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

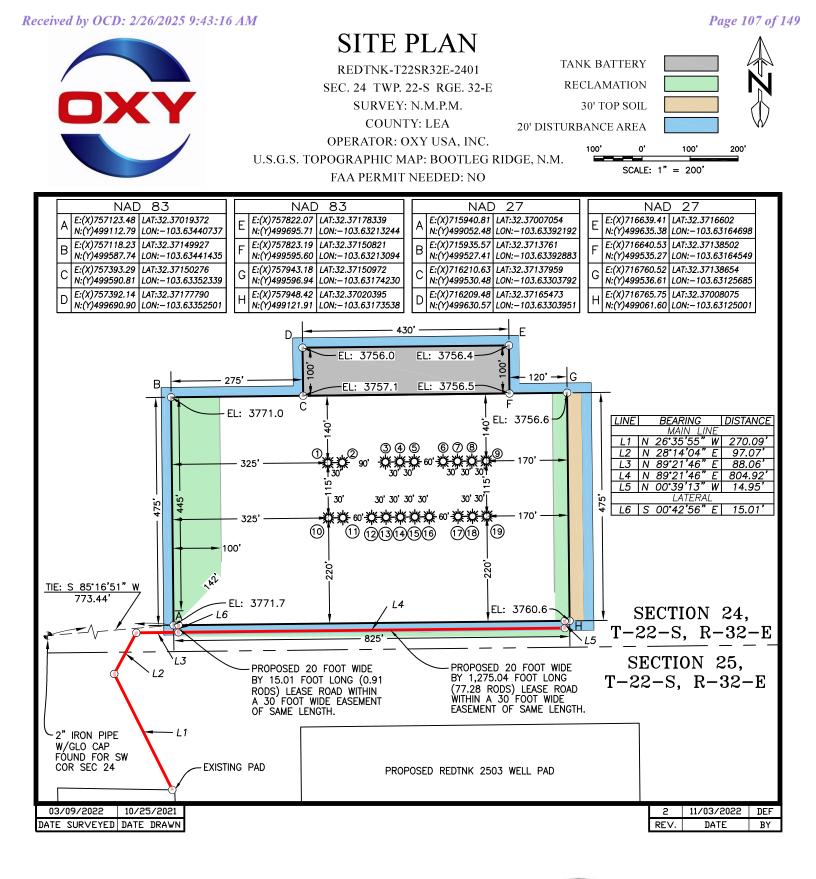
Revised CM 6/27/2012

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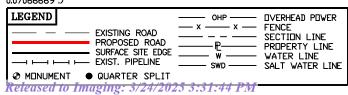


STACK CATS 25-36 FED COM 41H, 42H, 21H, 22H, 23H, 31H, 31H, 32H, 33H, 71H, 72H, 11H,



BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99975697 CONVERGENCE ANGLE OF 0.07066669*.)



NOVEMBER 3, 2022



Received by OCD: 2/26/2025 9:43:16 AM

SITE PLAN REDTNK-T22SR32E-2401 SEC. 24 TWP. 22-S RGE. 32-E SURVEY: N.M.P.M. COUNTY: LEA OPERATOR: OXY USA, INC. U.S.G.S. TOPOGRAPHIC MAP: BOOTLEG RIDGE, N.M. FAA PERMIT NEEDED: NO

WELL 1 STACK CATS 25_36 FED COM 41H OXY USA, INC. UXT USA, INC. 390' FSL 1095' FWL, SECTION 24 NAD 83, SPCS NM EAST X:757444.77' / Y:499451.37' LAT:32.37111858N / LON:103.63335963W NAD 27, SPCS NM EAST X:716262.11' / Y:49391.05' LAT:32.37099540N / LON:103.63287416W $FI = 3759^{\circ}$

WELL 2 STACK CATS 25_36 FED COM 42H OXY USA, INC. 390' FSL 1125' FWL, SECTION 24 NAD 83, SPCS NM EAST X:757474.77' / Y:499451.71' LAT:32.37111896N / LON:103.63326246W NAD 27, SPCS NM EAST X:716292.10' / Y:499391.38' LAT:32.37099578N / LON:103.63277700W FI FVATION = 3759'

WELL 3 STACK CATS 25_36 FED COM 21H OXY USA, INC. 390' FSL 1215' FML, SECTION 24 NAD 83, SPCS NM EAST X:757564.76' / Y:499452.71' LAT:32.37112010N / LON:103.63297097W NAD 27, SPCS NM EAST X:716382.10' / Y:499392.39' LAT:32.37099692N / LON:103.63248551W ELEVATION = 3757'

WELL 4 STACK CATS 25_36 FED COM 22H OXY USA, INC. 390' FSL 1245' FML, SECTION 24 NAD 83, SPCS NM EAST X:757594.76' / Y:499453.05' LAT.32.37112048N / LON:103.63287380W NAD 27, SPCS NM EAST X:716412.10' / Y:499392.72' LAT.32.37099730N / LON:103.63238835W ELEVATION = 3757'

WELL 5 STACK CATS 25_36 FED COM 23H OXY USA, INC. 390' FSL 1275' FWL, SECTION 24 NAD 83, SPCS NM EAST X:757624.76' / Y:499453.38' LAT:32.37112086N / LON:103.63277664W NAD 27, SPCS NM EAST X:716442.09' / Y:499393.06' LAT:32.37099768N / LON:103.63229119W ELEVATION = 3757'

WELL 6 STACK CATS 25_36 FED COM 31H OXY USA, INC. 390' FSL 1335' FWL, SECTION 24 NAD 83, SPCS NM EAST X:757684.75' / Y:499454.05 LAT.32.37112162N / LON:103.63258231W NAD 27, SPCS NM EAST X:716502.09' / Y:499393.73' LAT.32.37099844N / LON:103.63209686W ELEVATION = 3756'

WELL 7 STACK CATS 25_36 FED COM 311H OXY USA, INC. 390' FSL 1365' FWL, SECTION 24 NAD 83, SPCS NM EAST X:757714.75 / Y:499454.38 LAT:32.37112200N / LON:103.63248514W NAD 27, SPCS NM EAST X:716532.09 / Y:499394.06' LAT:32.37099882N / LON:103.63199970W FIFVATION = 3757

WELL 8 STACK CATS 25_36 FED COM 32H OXY USA, INC. 390' FSL 1395' FWL, SECTION 24 NAD 83, SPCS NM EAST X:757744.75' / Y:499454.72' LAT:32.37112238N / LON:103.63238798W NAD 27, SPCS NM EAST X:716562.09' / Y:499394.40' LAT:32.37099920N / LON:103.63190254W FIFVATION = 3757

WELL 9 STACK CATS 25_36 FED COM 33H OXY USA, INC. 390' FSL 1425' FWL, SECTION 24 NAD 83, SPCS NM EAST X:757774.75' / Y:499455.05' LAT:32.37112276N / LON:103.63229081W NAD 27, SPCS NM EAST X:716592.08' / Y:499394.73' LAT:32.37099958N / LON:103.63180538W ELEVATION = 3757

WELL 10 STACK CATS 25_36 FED COM 71H OXY USA, INC. 275' FSL 1095' FWL, SECTION 24 NAD 83, SPCS NM EAST K:757446.08' / Y:499336.32' LAT:32.37080231N / LON:103.63335782W NAD 27, SPCS NM EAST X:716263.41' / Y:499276.00' LAT:32.37067914N / LON:103.63287236W ELEVATION = 3763'

WELL 11 STACK CATS 25_36 FED COM 72H OXY USA, INC. 275' FSL 1125' FWL SECTION 24 NAD 83, SPCS NM EAST X:757476.05' / Y:499336.71' LAT:32.37080286N / LON:103.63326075W NAD 27, SPCS NM EAST X:716293.38' / Y:499276.39' LAT:32.37067967N / LON:103.63277529W ELEVATION = 3763'

WELL 16

NAD 27, SPCS NM EAST

ELEVATION = 3760°

DATE SURVEYED DATE DRAWN

10/25/2021

WELL 12 STACK CATS 25_36 FED COM 11H OXY USA, INC. 275' FSL 1185' FWL, SECTION 24 NAD 83, SPCS NM EAST X:757536.02' / Y:499337.35' LAT:32.37080355N / LON:103.63306654W NAD 27, SPCS NM EAST X:716353.35' / Y:499277.03' LAT:32.37068035N / LON:103.63258105W ELEVATION = 3762'

WELL 13 STACK CATS 25_36 FED COM 1H OXY USA, INC. 275' FSL 1215' FWL, SECTION 24 NAD 83, SPCS NM EAST 1440 80, 3403 1449337.74° X:757566.00° / Y:499337.74° LAT:32.37080407N / LON:103.63296938W NAD 27, SPCS NM EAST X:716383.33° / Y:499277.42° LAT:32.370680688 / LON:103.63248395W D.0.1701 ELEVATION = 3761°

WELL 14 STACK CATS 25_36 FED COM 12H OXY USA, INC. 275' FSL 1245' FWL SECTION 24 NAD 83, SPCS NM EAST K:757595.94' / Y:499338.05' LAT:32.37080437N / LON:103.63287240W NAD 27, SPCS NM EAST X:716413.27' / Y:499277.73' LAT:32.37068120N / LON:103.63238697W ELEVATION = 3760°

WELL 15 STACK CATS 25_36 FED COM 2H OXY USA, INC. 275' FSL 1275' FWL SECTION 24 NAD 83, SPCS NM EAST X:757626.05' / Y:499338.38' LAT:32.37080475N / LON:103.63277489W NAD 27, SPCS NM EAST X:716443.38' / Y:499278.06' LAT:32.37068156N / LON:103.63228945W ELEVATION = 3761'

WELL 17 TUNA NUT 24_13 FED COM 21H OXY USA, INC. 275' FSL 1365' FWL, SECTION 24 NAD 83, SPCS NM EAST STACK CATS 25_36 FED COM 13H 0XY USA, INC. 275' FSL 1305' FWL, SECTION 24 NAD 83, SPCS NM EAST X:757715.97' / Y:499339.31' LAT:32.37080569N / LON:103.63248363W X:757656.03' / Y:499338.79' LAT:32.37080534N / LON:103.63267778W NAD 27, SPCS NM EAST X:716473.36' / Y:499278.47' X:716533.30' / Y:499278.99' LAT:32.37068215N / LON:103.63219235W LAT:32.37068250N / LON:103.63199821W ELEVATION = 3760'

WELL 18 TUNA NUT 24_13 FED COM 22H OXY USA, INC. 275' FSL 1395' FWL, SECTION 24 NAD 83, SPCS NM EAST X:757746.07' / Y:499339.62' LAT:32.37080599N / LON:103.63238616W NAD 27, SPCS NM EAST X:716563.40' / Y:499279.30' LAT:32.37068281N / LON:103.63190072W ELEVATION = 3759'

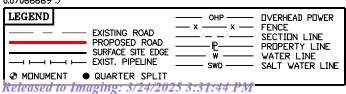
WELL 19 TUNA NUT 24_13 FED COM 23H OXY USA, INC. 275' FSL 1425' FWL, SECTION 24 NAD 83, SPCS NM EAST X:757775.98' / Y:499340.07' LAT:32.37080668N / LON:103.63228927W NAD 27, SPCS NM EAST X:716593.31' / Y:499279.75' LAT:32.37068351N / LON:103.63180384W ELEVATION = 3758'

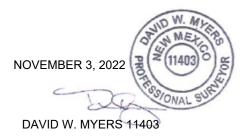
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BASIS OF BEARING

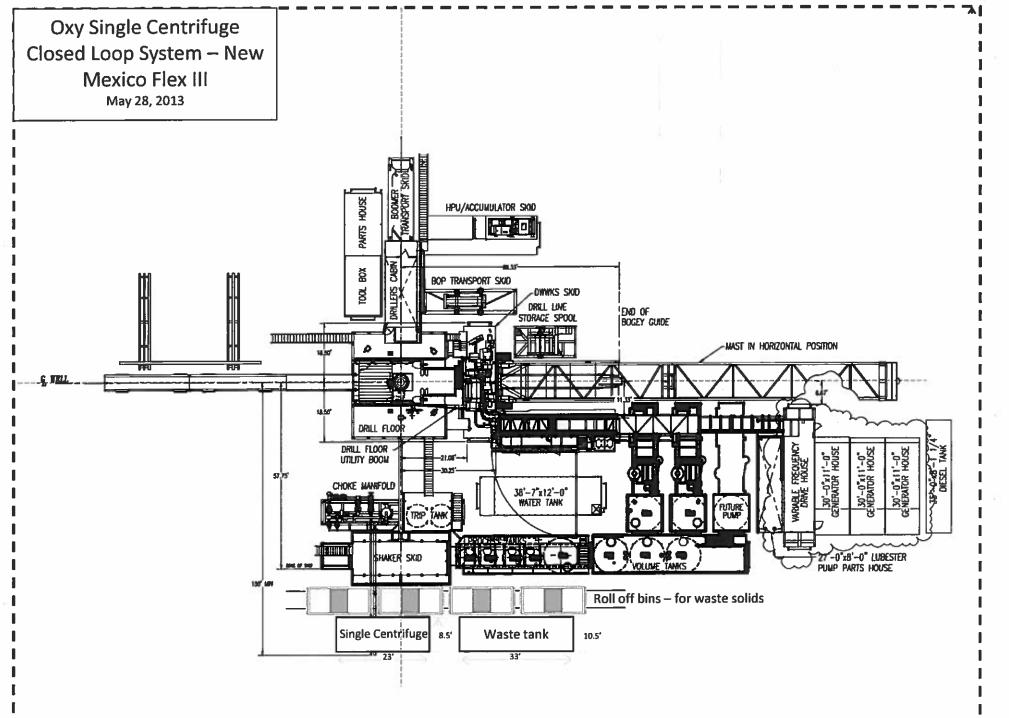
03/09/2022

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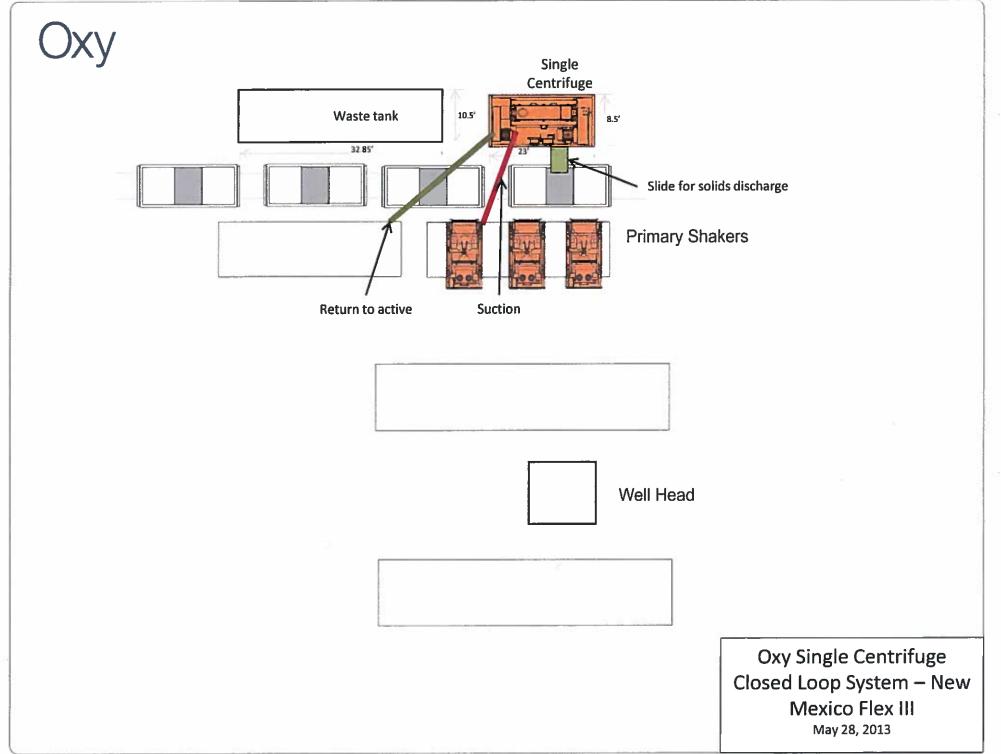






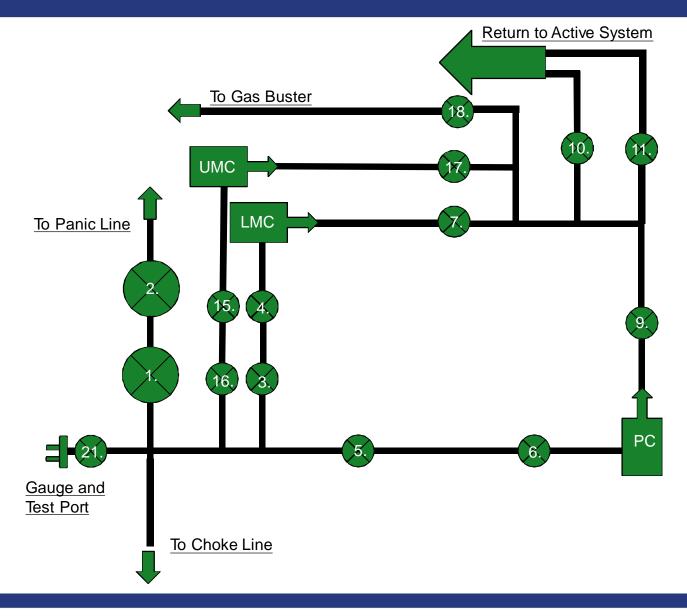
Page 109 of 149

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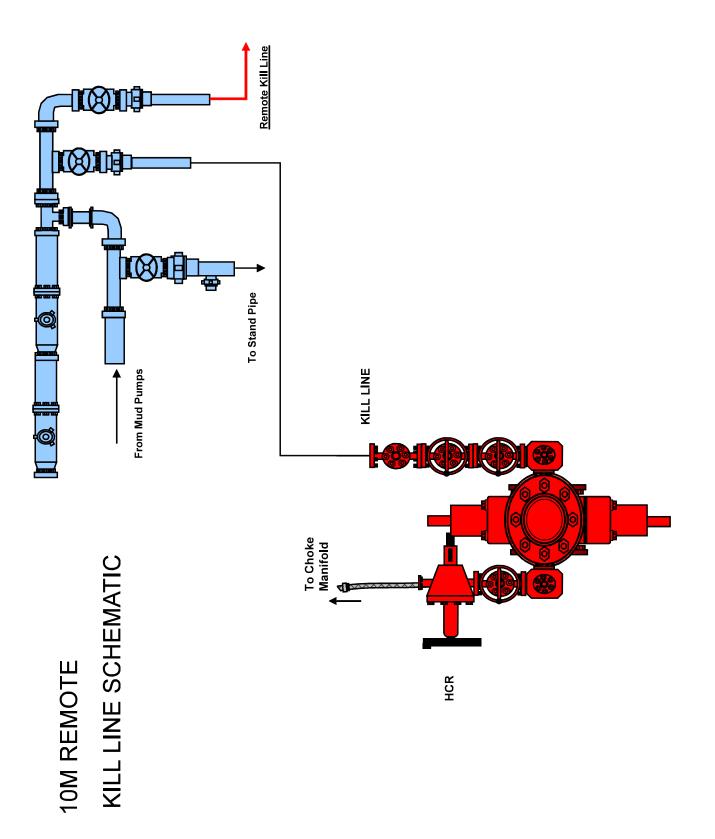
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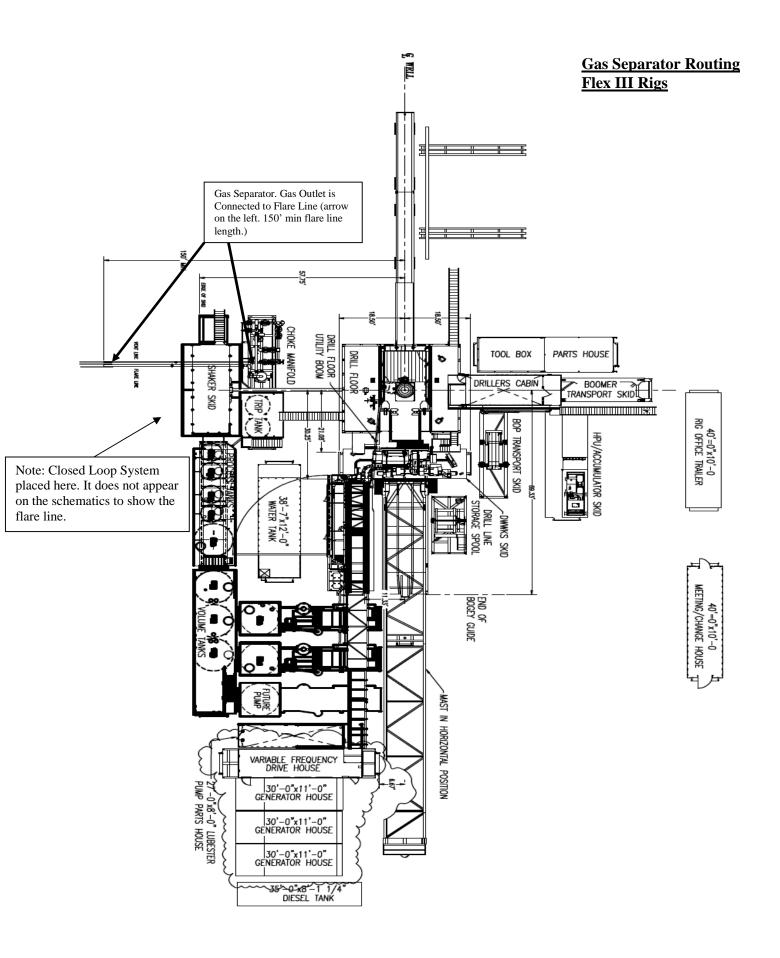
10M Choke Panel

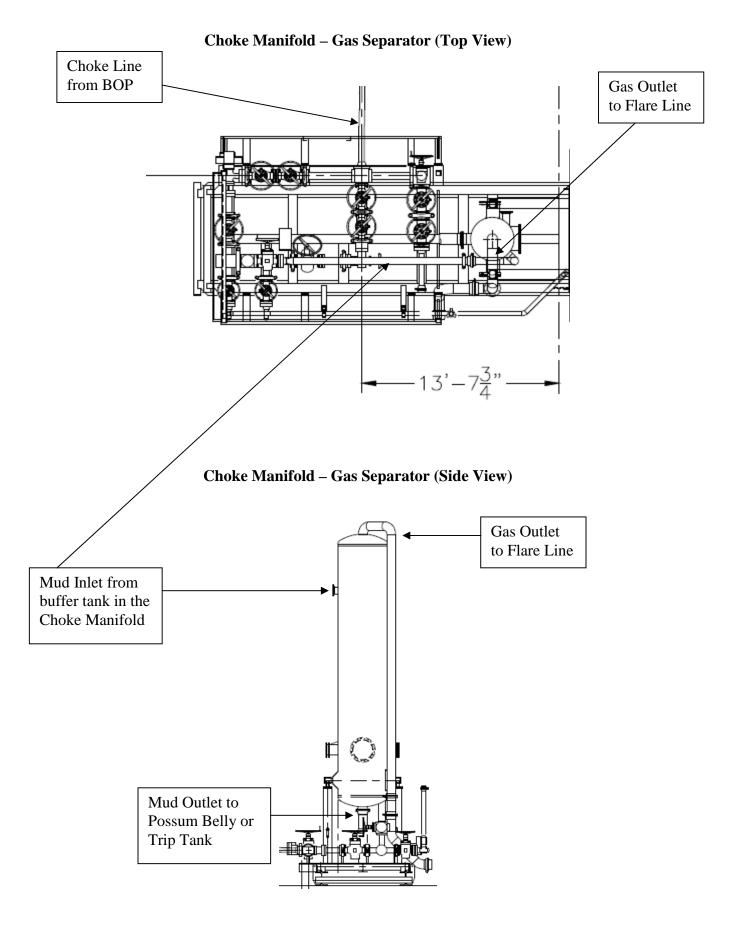


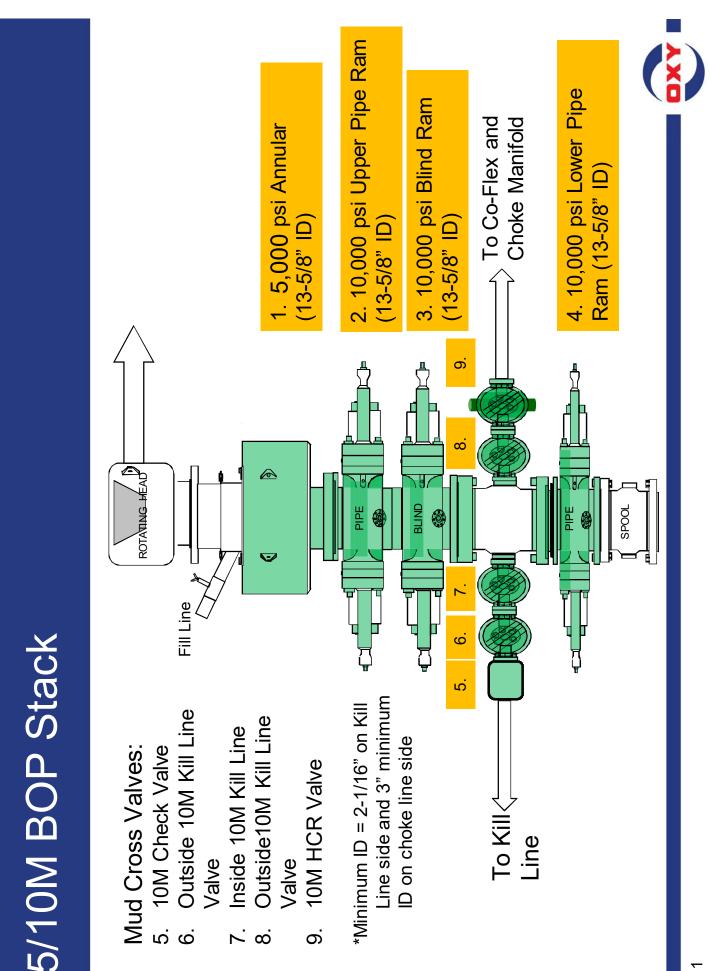
- 1. Choke Manifold Valve
- 2. Choke Manifold Valve
- 3. Choke Manifold Valve
- 4. Choke Manifold Valve
- 5. Choke Manifold Valve
- 6. Choke Manifold Valve
- 7. Choke Manifold Valve
- 8. PC Power Choke
- 9. Choke Manifold Valve
- 10. Choke Manifold Valve
- 11. Choke Manifold Valve
- 12. LMC Lower Manual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

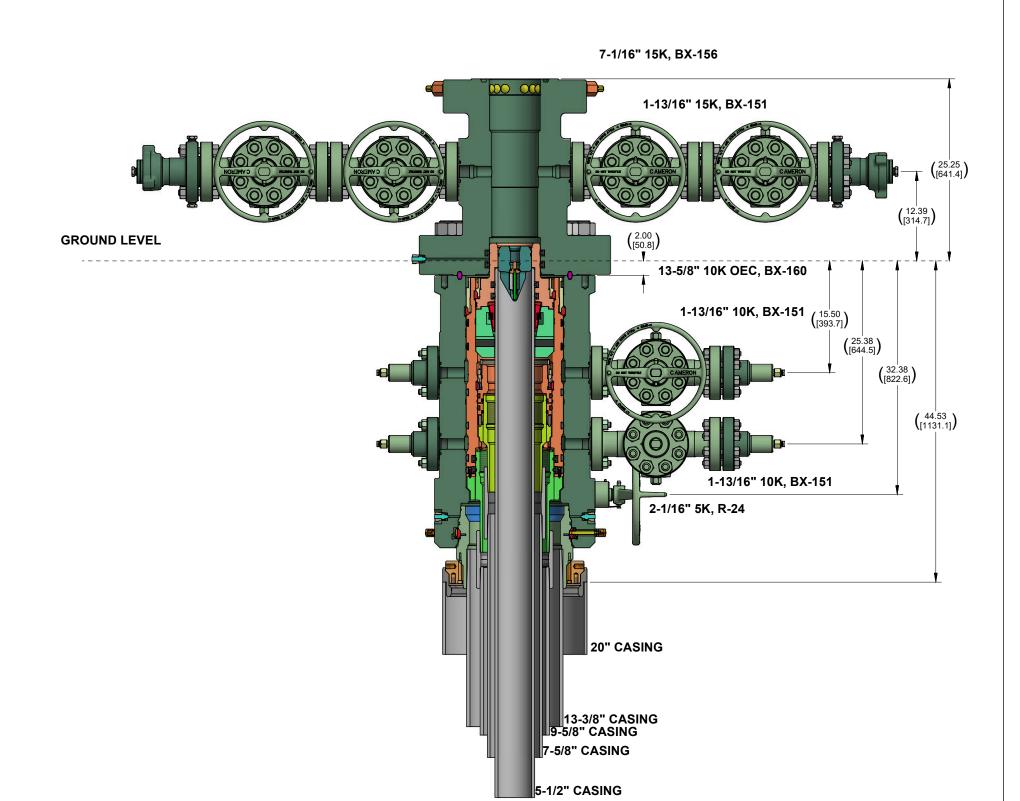












CONFIDENTIAL							
SURFACE TREATMENT	DO NOT SC		ſ	CAMERON	SURFACE		
	DRAWN BY: A. SKLENKA	26 Apr 22	Y	A Schlumberger Company	SYSTEMS		
MATERIAL & HEAT TREAT	CHECKED BY: A. SKLENKA	26 Apr 22		OXY			
	APPROVED BY: A. SKLENKA	26 Apr 22		ADAPT NST 10K 3 STAGE WELLHE/ STANDARD / EMERGENCY SYSTE			
ESTIMATED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

Ontinental 3

Certificate of Conformity

ContiTech

Certificate Number H100161	COM Order Reference 1429702	Customer Name & Address HELMERICH & PAYNE DRILLING CO
Customer Purchase Order No:	740382384	1434 SOUTH BOULDER AVE TULSA, OK 74119
Project:		USA
Test Center Address	Accepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Date: 06/27/22	

We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.

ltem	Part No.	Description	Qnty	Serial Number	Specifications
30	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70024	ContiTech Standard

.

Hydrostatic Test Certificate

60

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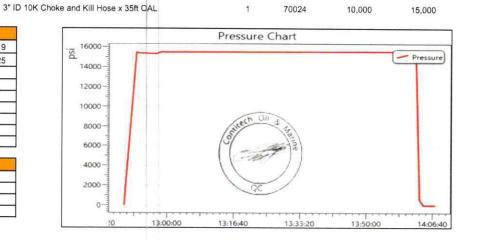
Certificate Number H100161	COM Order Reference 1429702	Cont Customer Name & Address HELMERICH & PAYNE DRILLING CO		
Customer Purchase Order No:	740382384	1434 SOUTH BOULDER AVE TULSA, OK 74119		
Project:		USA		
Test Center Address	Accepted by COM Inspection	Accepted by Client Inspection		
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Gerson Mejia-Lazo Date: 06/27/22	Barrier of one with a post of		

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

Item	Part No.	Description	Qnty	Serial Number	Work, Press. (psi)	Test Press. (psi)	Test Time (minutes)
30	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAI	1	70024	10.000	15 000	60

Record Information					
Start Time	6/8/2022 12:49:19				
End Time	6/8/2022 14:07:25				
Interval	00:01:00				
Number	79				
MaxValue	15762				
MinValue	-7				
AvgValue	14395				
RecordName	70024-sh				
RecordNumber	235				

Gauge Information					
Model	ADT680				
SN	21817380014				
Range	(0-40000)psi				
Unit	psi				



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EN ARE DEC 23/52

Gates Engineering & Services North America 7603 Prairie Oak Dr. Houston, TX. 77086 PHONE : (281) 602-4119 FAX: EMIL: <u>Troy.Schmidt@gates.com</u>

CERTIFICATE OF CONFORMANCE

This is to certify that all parts and materials included in this shipment have manufactured and/or processed in accordance with various Gates and API assembly and test specifications. Records of required tests are on-file and subject to examination. Test reports and subsequent test graphs have been made available with this shipment. Additional supporting documentation related to materials, welding, weld inspections, and heat-treatment activities are available upon request.

S	:# JAIA3	t2112019-4
D	:YTITNAUG	τ
S	ALES ORDER #:	286915
		CLAMPS
d	ART DESCRIPTION:	RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE
	. I de los superior a los contras non una terra a s	ZET XB HTIW SEDNAJA DETIUS SCH TAOJA X XIA YOT 81/1 4 W/D ROMAA
	USTOMER P/N:	3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL 3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL
	:#.O.9 293MOT2U	4128128 (BIG 1 PO 002773)
0	USTOMER:	320H NITSUA ABD 2NI NITSUA 7-A

	6102/02/11	:3TAQ
	QUALITY ASSURA	דודנני
-	Mouna Orbi	SIGNATURE:

Houston, TX 77086 7603 Prairie Oak Dr. GATES ENGINEERING & SERVICES NORTH AMERICA

PRESSURE TEST CERTIFICATE

	6246780-01050689	:9boD yldm922A	F41245 113018
:1 pritti bri	4 1/10 10K EFVICES EIXED	4 1/16 10K FLANGES FLOAT	
roduct Description:	3" X 12 FT GATES CHORE & KILL HOSE ASSEMBI FLANGES WITH BX 155 RING GROOV	VE SUPPLIED WITH SAFET ARM VE SUPPLIED WITH SAFETY CLA	MPS & SLINGS & LIFT EYE CLAMPS OR C/W 4 1/16 10K FIX X FLOAT H2S SUITED
		nne sandra dalam salar sana sijina sonos ara sa salar sana sana sana	and a second
tovice No.:	Z8691S	Created By:	Norma Cabrera
נובנסתפר: נעבנסתפר גפני.: העסוכפ עסי:			

Gates Engineering & Services North America certifies that:

10KFR3.012.0CK411610KFIXXFLT SSA SC LE

management system. and instrumentation that has been calibrated in accordance with the requirements set-forth in the GESNA certificate to illustrate conformity to test requirements. This hose assembly was pressure tested using equipment Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies), which include reference to The following hose assembly has successfully passed all pressure testing requirements set forth in Gates

Working Pressure:

Test Pressure:

-1000 -20100 1	: andengi
6102/02/TI	: əts
ΥΠΙΑΟΟ	:Vuality:

F-PRD-005

CUSTOMER P/N:

CIGRE SRIL INC.



6102/02/11 PRODUCTION

'ISd 000'01

'ISd 000'SI

WEB: www.gates.com

6TT1 - 209 (182) : 3NOHd

:XA3

EMAIL: Troy.Schmidt@gates.com

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כנ	OBIE	TEST	

3.0 x 4-1/16 10K	
3.0 × 4-1/15	
3.0 10k MS C&K	
810511242119	

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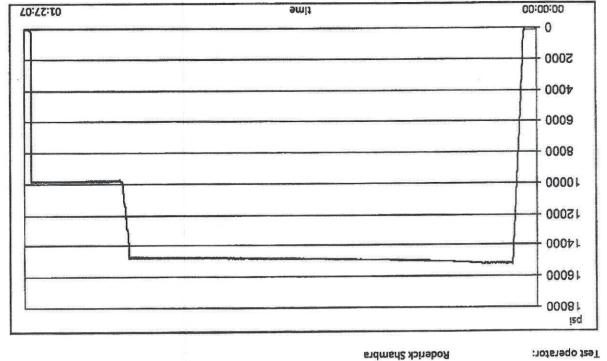
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		22Aq	Pressure test result:
:ປາງອີກອ່ງ			Visual check:
Description:	you	0.24	Length difference:
Part number:	%	00.0	Length difference:
Fitting 2:	Sec	00.006	Mork pressure hold:
	isd	00.0276	Mork pressure:
Description:	Sec	3600.00	Test pressure hold:
Part number:	isd	00'000ST	Test pressure:
Fitting 1:		E20-40-219	Test procedure:
			NOITAMAOANI TEAT
Part number:			
:OI 920H			Customer reference:
1963		286915	Sales order #:
Description:			Production description:
Lot number:			
Serial number:		Austin Hose	company:
TEST OBJECT			CUSTOMER

Length measurement result:



Page 1/2

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TEST REPORT



GAUGE TRACEABILITY

Calibration due date	Calibration date	Serial number	Description
5050-03-75	2079-03-17	TIOAMCLO	M-A-25-2
5050-04-14	5076-04-76	110AP02K	W-A-25-2

Trammod

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DW Industries Inc. Carrett Crawford, Director of Quality

Certificate Issue Date: 2/27/2020

WITH ISO-9001:2015, API Q1 AND API SPEC 7K. IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE PRESERVATION, PACKACING, PACKING, MARKING, AND PHYSICAL QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW

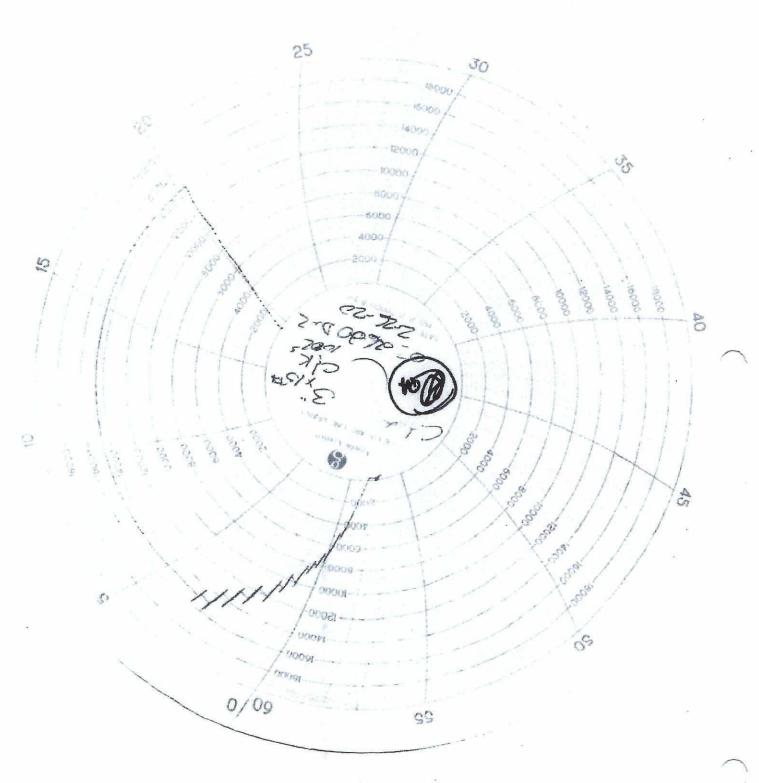
WWWEB ONIONS	C/M CI 3, T0'000 bai M	Part Description:	1005-4 OV-2640-4812-	Customer Part Number:	Purchase
07/20/2020	Assembly Date:		T	QTY Ordered:	ise Order
2-W0029220	Serial Number:	t-2001-ST	4-2001-2184-0492-AO		State of the state
50050763	DM Industries Work 2002016		ROT PAUL HOFFMAN FOR INFO		Information
	432-241 432-241	Curtomer Contact:	סצורדואפ	CITADELI	Customer Vame:

7424-443-817 x57 Tel. 713 644-8372 Houston, TX 77087 6287 Long Drive DM INDRALISTICS

Certificate of Conformance

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Certificate of Conformance

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2464-448-E17 X67 Tel. 713 644-8372 Houston, TX 77087 ANIA DUOJ 7820 DM INDORLISTER INC'

FLOAT FLANGES	W izq 000 psi W 4-1/16" FIXED BY С/W SS ARMOR	1/16FXFL-ALE Part Description: 4-1/16" FIXED		Customer Part Number:	Purcha
0707/97/70	Assembly Date:	E		QTY Ordered:	se Oro
052620DW-1	Serial Number:	OA-5640-4822-4-1/16FXFL-ALE		Part Number:	Purchase Order Information
50020164	OW Industries Work Order Number:	RONTACT PAUL HOFFMAN FOR INFO		Customer Purchase Order Mumber:	rmation
	104 JUA9 142-264	Contact: Customer	סאורדואפ	IJADEL	ramoteus Name:

WITH ISO-9001:2015, API Q1 AND API SPEC 7K. IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW

Certificate Issue Date: 2/27/2020

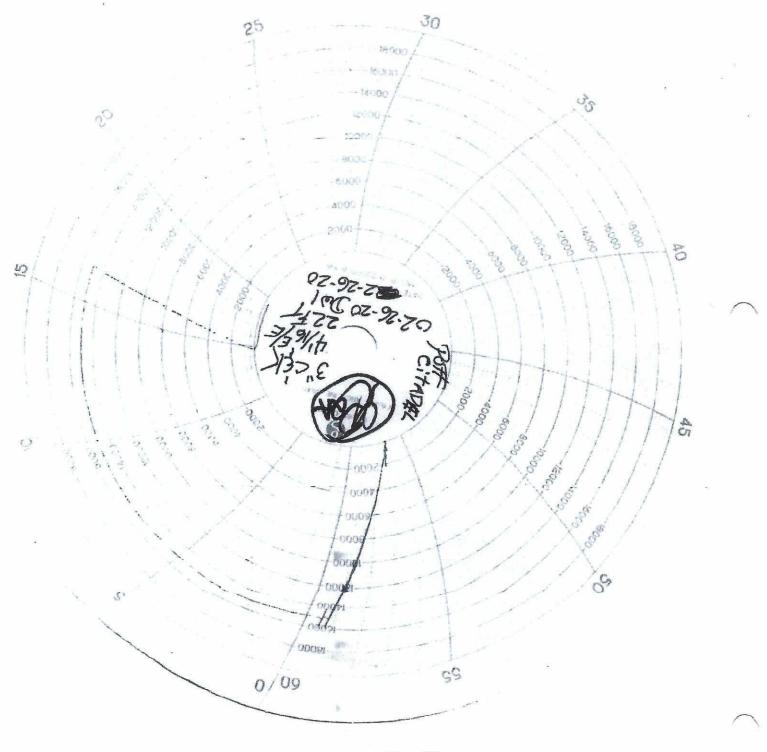
DW Industries Inc.

Carrett Crawford, Director of Quality

New Date: 12/17/2019 OF-018-OF. Rev Na

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Certificate of Conformance

Tel. 713 644-8372 Fax 713-644-4947 Houston, TX 77087 DW INDUSTRIES INC.

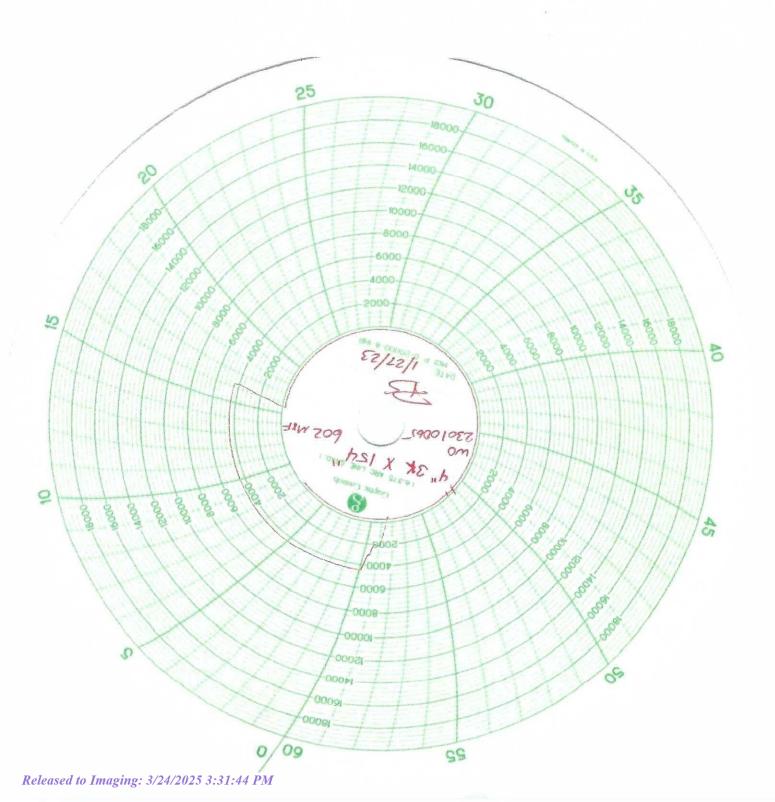
t,, EIC 605 WXE	יאל אג "אני" איי איי איי איי איי איי איי איי איי א	Part Description		Customer Part Number:	Purcha
EZOZ/LZ/T	:9160 Vidm922A	de antier de la construction de la	T	QTY Ordered:	se Ord
53070062	Serial Number:	209-"42148-850389-AO		Part Number:	ler Info
59007082	DW Industries Work Order Number:	27640700		Customer Purchase Order Number:	Purchase Order Information
АЯЗ	100λ ΓΟ	Contact: Contact:	ЭЗОН	ИІТО2А	Lustomer Customer

I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

C.C.D.G

Certificate Issue Date: 1/27/2023

Quality Assurance, DW Industries, Inc.



IN SERVICE 12-20-21



GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairie Oak Dr. Suite 190 Houston, TX. 77086 PHONE: +1 (281) 602-4100 FAX: +1 (281) 602-4147 EMAIL: gesna.quality@gates.com WEB: www.gates.com/ollandgas

	PRESSURE TES	ST CERTIFI	CATE
Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	10/15/2021
Customer Ref.:	00595477	Hose Serial No.:	H3-101521-2
Invoice No.:	521925	Created By:	Micky Mhina
Product Description:	3" X 35' GATES FIRE RATED CHOKE & KILL HOSE TREATED FLANGES SUPPLIED W	ASSEMBLY SUITED FOR H2 ITH STAINLESS STEEL ARMO	S SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT DR SAFETY CLAMPS & LIFT EYES
End Fitting 1:	4 1/16 10K FIXED FLANGE	End Fitting 2:	4 1/16 10K FLOAT HEAT TREATED FLANGES
Oracle Star No.:	68703010-10074881	Assembly Code:	L41975 091719
CUSTOMER P/N:	10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE	Test Pressure:	15,000 PSI.
		Working Pressure:	10,000 PSI.
The following hos specifications: GT assemblies), whic test graph will acc was pressure test	e assembly has successfully passed all S-04-052 (for 5K assemblies) or GTS-0 h include reference to Specification AP company this test certificate to illustrate ed using equipment and instrumentation forth in the GESNA management system	pressure testing req 04-053 (10K assembl I 16C (2nd Edition); e conformity to test on that has been cali	ies) or GTS-04-048 (15K sections 7.5.4, 7.5.9, and 10.8.7. A requirements. This hose assembly
Quality: Date : Signature :	QUALITY 10/15/2021 ///10/4/ N. but	Production: Date : Signature :	PRODUCTION 10/15/2021
F-PRD-005B	J		Revision 6_05032021



GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairle Oak Dr. Houston, TX. 77086 PHONE: +1 (281) 602-4100 FAX: +1 (281) 602-4147 EMAIL: gesna.quality@gates.com WEB: www.gates.com/oilandgas

CERTIFICATE OF CONFORMANCE

This is to certify that all parts and materials included in this shipment have manufactured and/or processed in accordance with various Gates and API assembly and test specifications. Records of required tests are on-file and subject to examination. Test reports and subsequent test graphs have been made available with this shipment. Additional supporting documentation related to materials, welding, weld inspections, and heat-treatment activities are available upon request.

CUSTOMER:	A-7 AUSTIN INC DBA AUSTIN HOSE
CUSTOMER P.O.#:	00595477
CUSTOMER P./N.#:	10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE
PART DESCRIPTION:	3" X 35' GATES FIRE RATED CHOKE & KILL HOSE ASSEMBLY SUITED FOR H2S SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT TREATED FLANGES SUPPLIED WITH STAINLESS STEEL ARMOR SAFETY CLAMPS & LIFT EYES
SALES ORDER #:	521925
QUANTITY:	1
SERIAL #:	H3-101521-2

SIGNATURE:	Malle when	
TITLE:	QUALITY ASSURANCE	
DATE:	10/15/2021	

H3-6963

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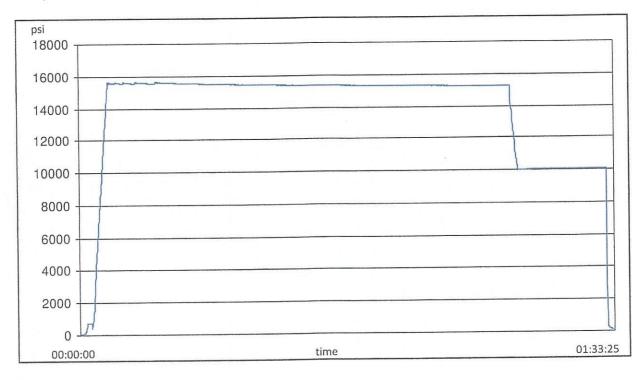


TEST REPORT

TEST OBJECT CUSTOMER H3-101521-2 Serial number: Austin Distributing Company: L41975091719 Lot number: Description: Production description: Sales order #: 521925 Hose ID: 3" 10k ck Customer reference: Part number: **TEST INFORMATION** Fitting 1: 3.0 x 4-1/16 10K GTS-04-053 Test procedure: Part number: 15000.00 Test pressure: psi Description: Test pressure hold: 3600.00 sec Work pressure: 10000.00 psi 3.0 x 4-1/16 10K Fitting 2: 900.00 sec Work pressure hold: Part number: Length difference: 0.00 % Description: inch Length difference: 0.00 feet Length: 35 Visual check: PASS Pressure test result: Length measurement result:

Test operator:

francisco



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H3-6963

TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AQA1S	2021-02-24	2022-02-24
S-25-A-W	110D3PHQ	2021-03-11	2022-03-11
Comment			

Filename: D:\Certificates\Report_101521-H3-101521-2.pdf

Page 133 of 149

ContiTech

Hydrostatic Test Certificate

		and the second		Customer Name & Address
Certificate Number H100163	1429702			HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE
ustomer Purchase Order No: 740382384			TULSA, OK 74119 USA	
Project:				Accepted by Client Inspection
Test Center Address	A	ccepted by C	OM Inspection	ALLEPING BY CLOSE 1
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041	Signed:	Gerson Mejia	(and	
USA	Juate.	1011111111		we by our Quality Management System, and to the best of our

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

ltem	Part No.	Description	Qnty	Serial Number	Work. Press. (psi)	Test Press. (psi)	Test Time (minutes)	
	and the second	222.001	1	70025	10,000	15,000	60	

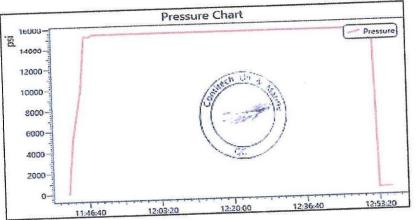
RECERTIFICATION 50

3" ID 10K Choke and Kill Hose x 35ft OAL

70025 1

TREGOTA IS	formation
Start Time	6/14/2022 11:42:08
End Time	6/14/2022 12:56:14
Interval	00:01:00
Number	75
MaxValue	15888
MinValue	-8
AvgValue	14184
RecordName	70025-sh
RecordNumber	237

Gauge li	nformation
Model	ADT680
SN	21817380014
Range	(0-40000)psi
Unit	psi



Page 134 of 149 ôntinental ⁴

ContiTech

Certificate of Conformity

Customer Name & Address COM Order Reference Certificate Number HELMERICH & PAYNE DRILLING CO 1429702 H100163 1434 SOUTH BOULDER AVE 740382384 **Customer Purchase Order No:** TULSA, OK 74119 USA **Project: Accepted by Client Inspection** Accepted by COM Inspection **Test Center Address** Gerson Mejia-Lazo ContiTech Oil & Marine Corp. Signed: 11535 Brittmoore Park Drive Houston, TX 77041 Date: 07/14/22 USA

We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.

Item	Part No. Description		Qnty	Serial Number	Specifications
50	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70025	ContiTech Standard

ARMORED CHOKE HOSE Forstallal 4-29-22



CONTITECH RUBBER	No: QC-DB- 120 / 2019			
Industrial Kft.	Page: 16 / 91			

ContiTech

QUAL INSPECTION		CERT. N	75819					
PURCHASER:	ContiTech (Oil & Marine Corp.		P.O. Nº:		4501225327		
CONTITECH RUBBER order N°	1127442	HOSE TYPE:	3"	ID		Choke an	d Kill Hose	
HOSE SERIAL Nº:	75819	NOMINAL / AC	TUAL LE	NGTH:		10,67 n	n / 10,68 m	
W.P. 69,0 MPa 10	000 psi	T.P. 103,5	MPa	1500)0 psi	Duration:	60	min.
Pressure test with water at ambient temperature See attachment (1 page)								
COUPLINGS Typ	6	Serial	N°		Qu	ality	Heat N°	
3" coupling with		602	6		AISI	4130	A0607J	
4 1/16" 10K API Swivel F	ange end				AISI	4130	040841	
Hub				AISI		4130	54194	
3" coupling with		601	6		AISI	4130	A0607J	
4 1/16" 10K API b.w. Fla	inge end				AISI	4130	040431	
Not Designed For Well Testing API Spec 16 C 2 nd Edition FSL2 Temperature rate: "B" All metal parts are flawless WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT. STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements. COUNTRY OF ORIGIN HUNGARY/EU								
Date: 08. April 2019. Date: 08. April 2019. Date: 08. April 2019. Date: 08. April 2019. Date: 08. April 2019. Date: 08. April 2019. Date: 08. April 2019. Date: Da								

ContiTech Rubber Industrial Kft. | Budapesti út 10. H-6728 Szeged | H-6701 P.O.Box 152 Szeged, Hungary Phone: +36 62 566 737 | e-mail: info@fluid.contitech.hu | Internet: www.contitech-rubber.hu; www.contitech-oil-gas.com The Court of Csongråd County as Registry Court | Registry Court No: Cg.06-09-002502 | EU VAT No: HU11087209 Bank data Commerzbank Zrt., Budapest | 14220108-26830003

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Hose Assembly Evaluation Sheet

Prepared by	(Cristian Rivera		Date:	8/27/2022	8/27/2022 QIN: N/A			
Customer:	HEL	MERICH & PAYNE, INC		Location:	H&P INT'L DRILLING CO 210 MAGNOLIA DR GALEN PARK,TX,77547-2738			A	
User contact:	М	IITCH MCKINNIS		Phone:	e-mail: <u>mitch.mckinnis@h</u> g			pinc.com	
Parameters				Н	ose Detai	ls	Test Status		
		РО			740398454 (88000240 SN:70035)				
		Gates SO			525035				
		Serial #:			88000240 SN:70035				
		As Tested Seria	ıl:		H2-082722-1 RE-TEST				
		Hose ID:			3 IN				
nose type.			INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END						
Applicatior	า								
Information Working pressure: 1		10000 PSI.				PASS			

1. Visual Examination

An API 16C, IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END received from HELMERICH & PAYNE, INC for inspection, testing and external cosmetic repairs. The hydrostatic pressure testing was requested to 15000 PSI., by the customer HELMERICH & PAYNE, INC

Visual inspection and examination of external hose assembly showed some cosmetic dents and repairabledamages to the external armor at distance 32ft 9in. from EF2. (Need to fix a part of the hose.)

Both external & internal hose body and couplings of the hose were examined. Visual Inspection photos are in Table 2, while post inspection/testing pictures are in Table 4.

The hose was hydrostatically tested at 15000 PSI. test pressure with an hour-long hold. On completion of hydrostatic testing, an internal baroscopic examination was carried out, to check the condition of internal hose areas, mainly hose tube and coupling hose interface.

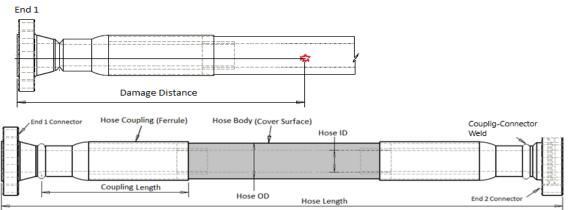


Figure 1: Generic Hose Assembly

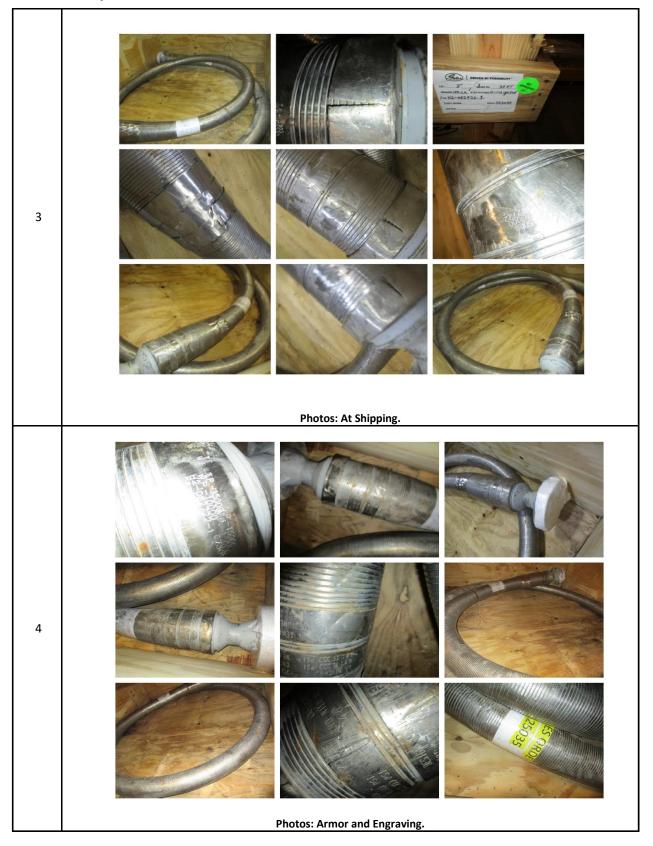
1.0 Observations and comments







Hose Assembly Evaluation Sheet



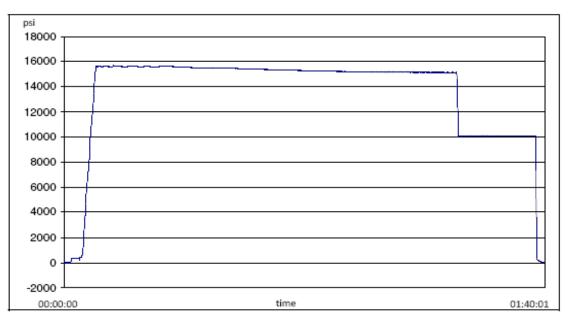
Hose Assembly Evaluation Sheet







2. Hydro Static Pressure test



2.1 Hydrostatic Pressure test Procedures

	Hose Type	Test Specification	Test Date	Technician				
1	IN X 35FT CHOKE & KILL	3 10K C&K	2022-08-27	Martin Orozco				
	ASSEMBLY C/W 4-1/16	S IOK C&K	2022-06-27	Martin 010200				
2.2	2.2 Gates Hydrostatic Pressure tester							

	Test Equipment	Serial No	Last Cal Date	Cal Due Date
1	S-25-A-W	110AMCLO	2022-01-10	2023-01-10
2	S-25-A-W	110BSEUZ	2022-03-09	2023-03-09

Gates).

Hose Assembly Evaluation Sheet

2.3 Hydro Static Test Pressure results

	Details	Results					
1	Hydrostatic Test Results ⁽¹⁾	Pass	Fail				
2	Failure Mode	None					
3	Hose Dispatched to the customer?	Yes	No				

Note:

1. Hydrostatic Pressure report is given in Appendix 1

3. Hose borescope inspection

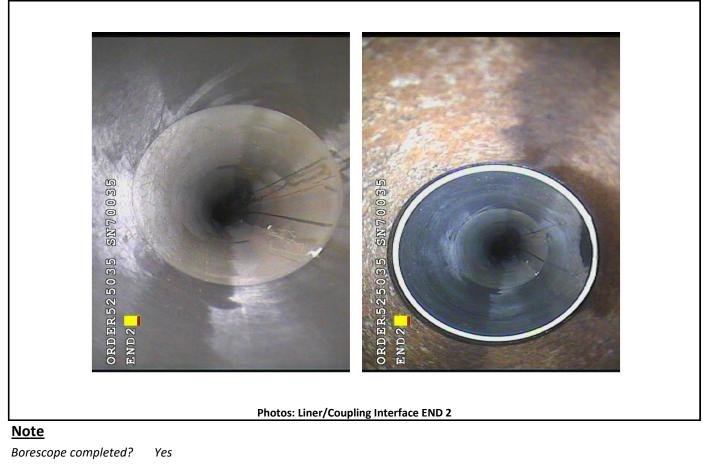
3.2 Internal Failure Details

	Type of Failure	Location of Defect	Ref. Photo	Defect Details
1	Liner breach/ collapse	None		None
2	Bulges/ Blisters	None		None
3	Other breach/failures	None		None



Photos: Liner/Coupling Interface END 1

Hose Assembly Evaluation Sheet



4. Summary

Hose assembly successfully tested to requested test pressure of 15000 PSI. with an hour hold. It was then serialized and stamped, as H2-082722-1 RE-TEST. The bore scope showed no blisters or delamination in the internal lining/tube area. External damages were repaired as agreed with the customer.





APPENDIX 1: Pressure Chart

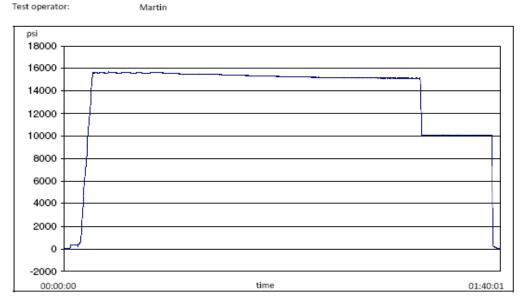
H2-8316

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CUSTOMER Company:			TEST OBJECT Serial number: Lot number:	H2-082722-1	
Production description:			Description:		
Sales order #:	525035				
Customer reference:	740398454	(88000240	Hose ID:	3 10k C&K	
	SN:70035)		Part number:		
TEST INFORMATION					
Test procedure:	3 10K C&K		Fitting 1:	3.0 x 4-1/16	LOK
Test pressure:	15000.00	psi	Part number:		
Test pressure hold:	3600.00	sec	Description:		
Work pressure:	10000.00	psi			
Work pressure hold:	900.00	sec	Fitting 2:	3.0 x 4-1/16	LOK
Length difference:	0.00	%	Part number:		
Length difference:	0.00	inch	Description:		
Visual check:			Length:	35	feet
Pressure test result:	PASS				
Length measurement result:					

TEST REPORT

Test operator:



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Page 1/2

Hose Assembly Evaluation Sheet





H2-8316

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TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AMCLO	2022-01-10	2023-01-10
S-25-A-W	110BSEUZ	2022-03-09	2023-03-09
Comment			

Filename: D:\Certificates\Report_082722-H2-082722-1.pdf

Page 2/2

.







APPENDIX 2: Certificate of Conformance



GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairie Oak Dr. Houston, TX. 77086 PHONE: +1 (281) 602-4100 FAX: +1 (281) 602-4147 EMAIL: gesna.quality@gates.com WEB: www.gates.com/ollandgas

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER:HELMERICH & PAYNE, INCCUSTOMER P.O.#:740398454 (88000240 | SN:70035)CUSTOMER P/N:88000240 | SN:70035PART DESCRIPTION:INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16FLANGES BX155 RING GROOVE EACH END525035QUANTITY:1SERIAL #:H2-082722-1 RE-TEST

SIGNATURE:	CAUCIC	
TITLE:	QUALITY ASSURANCE	
DATE:	8/27/2022	

Tenaris

API BTC -Special Clearance

9.875 in. 44.26 lb/ft

Outside Diameter	10.750 in.	Wall Thickness	0.400 in.	Grade	L80-IC
Min. Wall Thickness	87.50 %	Pipe Body Drift	Alternative Drift	Туре	Casing

Connection OD Option Special Clearance

Pipe Body Data

Nominal OD	10.750 in.	Drift
Wall Thickness	0.400 in.	Plain End Weight
Nominal Weight	45.500 lb/ft	OD Tolerance
Nominal ID	9.950 in.	

Performance	
SMYS	80,000 psi
Min UTS	95,000 psi
Body Yield Strength	1040 x1000 lb
Min. Internal Yield Pressure	5210 psi
Collapse Pressure	2950 psi
Max. Allowed Bending	34 °/100 ft

Connection Data

Hand Tight Stand Off	1 in.	Internal Pressure Capacity	4150 psi
Connection OD	11.250 in.	Coupling Face Load	478 x1000 lb
Thread per In	5	Joint Strength	1041 x1000 lb
Geometry		Performance	

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations. For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition.

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TenarisHydril

5.500" 20.00 lb/ft P110-CY TenarisHydril Wedge 461™ Matched Strength

	١.	
-12	1	
	μ.	

Special Data Sheet TH DS-20.0359 12 August 2020 Rev 00

Nominal OD	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-CY
Min Wall Thickness	87.5%	Туре	CASING	Connection OD Option	MATCHED STRENGTH
Pipe Body Data					
Geometry				Performance	
Nominal OD	5.500 in.	Nominal ID	4.778 in.	Body Yield Strength	641 x 1000 lbs
Nominal Weight	20.00 lbs/ft	Wall Thickness	0.361 in.	Internal Yield	12640 psi
Standard Drift Diameter	4.653 in.	Plain End Weight	19.83 lbs/ft	SMYS	110000 psi
Special Drift Diameter	N/A	OD Tolerance	API	Collapse Pressure	11110 psi
Connection Data					
Geometry		Performance		Make-up Torques	
Matched Strength OD	6.050 in.	Tension Efficiency	100%	Minimum	17000 ft-lbs
Make-up Loss	3.775 in.	Joint Yield Strength	641 x 1000 lbs	Optimum	18000 ft-lbs
Threads per in.	3.40	Internal Yield	12640 psi	Maximum	21600 ft-lbs
Connection OD Option	MATCHED STRENGTH	Compression Efficiency	100%	Operational Limit Torques	;
Coupling Length	7.714 in.	Compression Strength	641 x 1000 lbs	Operating Torque	32000 ft-lbs
		Bending	92 °/100 ft	Yield Torque	38000 ft-lbs
		Collapse	11110 psi	Buck-On Torques	
				Minimum	21600 ft-lbs
				Maximum	23100 ft-lbs

Notes

*If you need to use torque values that are higher than the maximum indicated, please contact a local Tenaris technical sales representative

OXY's Minimum Design Criteria

Burst, Collapse, and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software. A sundry will be requested if any lesser grade or different size casing is substituted.

1) Casing Design Assumptions

a) Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both 43 CFR part 3170 Subpart 3172 and 19.15.16 of the OCD Rules.
- External: Pore pressure in open hole.

CSG Test (Intermediate)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both 43 CFR part 3170 Subpart 3172 and 19.15.16 of the OCD Rules.
- External: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

CSG Test (Production)

- o Internal:
 - For Drilling: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both 43 CFR part 3170 Subpart 3172 and 19.15.16 of the OCD Rules.
 - For Production: The design pressure test should be the greater of (1) the planned test pressure prior to stimulation down the casing. (2) the regulatory test pressure, and (3) the expected gas lift system pressure. The design test fluid should be the fluid associated with pressure test having the greatest pressure.
- o External:
 - For Drilling: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.
 - For Production: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Gas Column (Surface)

- Internal: Assumes a full column of gas in the casing with a Gas/Oil Gradient of 0.1 psi/ft in the absence of better information. It is limited to the controlling pressure based on the fracture pressure at the shoe or the maximum expected pore pressure within the next drilling interval, whichever results in a lower surface pressure.
- External: Fluid gradient below TOC, pore pressure from the TOC to the Intermediate CSG shoe (if applicable), and MW of the drilling mud that was in the hole when the CSG was run from Intermediate CSG shoe to surface.

Bullheading (Surface / Intermediate)

- Internal: The string must be designed to withstand a pressure profile based on the fracture pressure at the casing shoe with a column of water above the shoe plus an additional surface pressure (in psi) of 0.02 X MD of the shoe to account for pumping friction pressure.
- External: Mud weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Gas Kick (Intermediate)

- The string must be designed to at least a gas kick load case unless the rig is unable to detect a kick. For the gas kick load case, the internal pressure profile must be based on a minimum volume of 50 bbl or the minimum kick detection capability of the rig, whichever is greater, and a kick intensity of 2.0 ppg for Class 1, 1.0 ppg of Class 2, and 0.5 ppg for Class 3 and 4 wells.
- Internal: Influx depth of the maximum pore pressure of 0.55 "gas kick gravity" of gas to surface while drilling the next hole section.
- External: Mud weight to the TOC, cement mix water gradient below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Producing (Production)

- o Internal: SITP plus a packer fluid gradient to the shoe or top of packer.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Stimulating (Production)

- Internal: Surface pressure or pressure-relief system pressure, whichever is lower plus packer fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Injection / Stimulation Down Casing (Production)

- o Internal: Surface pressure plus injection fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.
- **b)** Collapse Loads

Lost Circulation (Surface / Intermediate)

- Internal: Lost circulation at the TD of the next hole section, and the fluid level falls to a depth where the hydrostatic of the mud equals pore pressure at the depth of the lost circulation zone.
- o External: MW of the drilling mud that was in the hole when the casing was

run. Cementing (Surface / Intermediate / Production)

- o Internal: Displacement fluid density.
- External: Mud weight from TOC to surface and cement slurry weight from TOC to casing shoe.

Full Evacuation (Production)

- Internal: Full void pipe.
- External: MW of drilling mud in the hole when the casing was run.

c) Tension Loads

Running Casing (Surface / Intermediate / Production)

 Axial: Buoyant weight of the string plus the lesser of 100,000 lb or the string weight in air.

Green Cement (Surface / Intermediate / Production)

• Axial: Buoyant weight of the string plus cement plug bump pressure load.

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

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	435438
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
lesliereeves	Cement is required to circulate on both surface and intermediate1 strings of casing.	2/26/2025
lesliereeves	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	2/26/2025
pkautz	File As Drilled C-102 and a directional Survey with C-104 completion packet.	3/24/2025
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	3/24/2025
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	3/24/2025