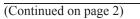
Form 3160-3 (June 2015)				FORM A OMB No Expires: Jai	. 1004-0	137	
UNITED STATE DEPARTMENT OF THE I BUREAU OF LAND MAN	NTERIOR	7		5. Lease Serial No.			
APPLICATION FOR PERMIT TO D				6. If Indian, Allotee or Tribe Name			
	REENTER			7. If Unit or CA Agro	eement, N	Name and No.	
	Other	Multiple Zone		8. Lease Name and V	Well No.		
2. Name of Operator				9. API Well No.	015-559	06	
3a. Address	3b. Phone N	o. (include area cod	le)	10. Field and Pool, o			
<ul> <li>4. Location of Well (Report location clearly and in accordance At surface</li> </ul>	with any State	requirements.*)		11. Sec., T. R. M. or	Blk. and	Survey or Area	
At proposed prod. zone 14. Distance in miles and direction from nearest town or post off	fice*			12. County or Parish		13. State	
<ul> <li>15. Distance from proposed*</li> <li>location to nearest</li> <li>property or lease line, ft.</li> <li>(Also to nearest drig. unit line, if any)</li> </ul>	16. No of acres in lease   17. Space			ing Unit dedicated to this well			
<ul> <li>18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ul>	19. Proposed	d Depth	20. BLM/	BIA Bond No. in file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxi	mate date work will	start*	23. Estimated duration			
	24. Attac	hments		1			
The following, completed in accordance with the requirements o (as applicable)	of Onshore Oil	and Gas Order No.	1, and the H	ydraulic Fracturing ru	ıle per 43	CFR 3162.3-3	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office</li> </ol>		Item 20 above). 5. Operator certifi	cation.	s unless covered by an mation and/or plans as	C	× ×	
25. Signature	Name				Date		
Title							
Approved by (Signature)	Name	(Printed/Typed)			Date		
Title	Office						
Application approval does not warrant or certify that the applicat applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds legal o	or equitable title to t	hose rights i	in the subject lease wh	nich woul	d entitle the	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r of the United States any false, fictitious or fraudulent statements					ny depart	ment or agency	
	WED WI	TH CONDI	TONS				
(Continued on page 2)	TED			*(Ins	struction	ns on page 2)	



.

## **Additional Operator Remarks**

#### **Location of Well**

0. SHL: NENW / 835 FNL / 1503 FWL / TWSP: 25S / RANGE: 29E / SECTION: 12 / LAT: 32.149676 / LONG: -103.941743 (TVD: 0 feet, MD: 0 feet ) PPP: NENW / 0 FNL / 2284 FWL / TWSP: 25S / RANGE: 29E / SECTION: 13 / LAT: 32.137387 / LONG: -103.939169 (TVD: 9057 feet, MD: 14842 feet ) PPP: NENW / 100 FNL / 2295 FWL / TWSP: 25S / RANGE: 29E / SECTION: 12 / LAT: 32.151711 / LONG: -103.939194 (TVD: 9064 feet, MD: 9626 feet ) BHL: SESW / 20 FSL / 2295 FWL / TWSP: 25S / RANGE: 29E / SECTION: 13 / LAT: 32.122832 / LONG: -103.939144 (TVD: 9051 feet, MD: 20133 feet )

## **BLM Point of Contact**

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

<u>ived by</u> <u>C-1(</u>		2/12/2024_2			State of New nerals & Natura	v Mexico l Resources Departm	ient			Page 3 o Revised July 9, 2024
	t Electronica					TION DIVISION			☑ Initial St	ıbmittal
via OC	D Permitting							Submittal		
								Type:		*
					WELL LOCAT	ION INFORMATION		1		
API N 30-01	<sup>umber</sup> 5- 55906	6	Pool Code 96473		I	Pool Name PIERCE	CROSS	SING; E	ONE SP	RING, EAST
Proper	ty Code <b>328295</b>		Property N		RRAL GO	RGE 12-13 FE	EDERA	L CON	Well Numb 22H	er
OGRII 16696			Operator N	Name <b>O</b>	(Y USA I	NC.			Ground Lev	el Elevation
Surfac	e Owner: 🗹	State □ Fee □	🛛 Tribal 🗆 Fe	deral		Mineral Owner: 🗹 S	State □ Fee I	🗆 Tribal 🗹	Federal	
	1					ce Location				1
	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
С	12	25S	29E		835'FNI	_ 1503'FWL	32.149	9676-	103.941743	EDDY
I II	G a sti a m	Township	Damas	T -4	Bottom Ft. from N/S	Hole Location Ft. from E/W	Latitude		Longitude	Conntra
N	Section 13	25S	Range 29E	Lot	20'FSL	2295'FWL			103.939144	County EDDY
							I			
Dedica 320	ated Acres		-	Defining	g Well API	Overlapping Spacing	Unit (Y/N)	Consolida	tion Code	
320 DEFINING Order Numbers.					Well setbacks are und	ler Common (	Twnerchin			
oraci	rumoers.							ownersnip.		
UL	Section	Township	Range	Lot	Kick Of Ft. from N/S	ff Point (KOP) Ft. from E/W	Latitude	I	Longitude	County
С	12	25S	29E		50'FNL	2295'FWL	32.151	1849 -′	103.939194	EDDY
	1	1	1			ke Point (FTP)	1			1
C UL	Section 12	Township 25S	Range 29E	Lot	Ft. from N/S	Ft. from E/W 2295' FWL	Latitude <b>32.15</b> 1		Longitude 103.939194	County EDDY
			-		Last Ta	ke Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
Ν	13	25S	29E		100'FSI	_ 2295'FWL	32.123	3052 -′	103.939144	EDDY
Unitize	ed Area or A	rea of Uniform	Interest	Spacing	Unit Type 🖬 Horiz	ontal 🗆 Vertical	Grou	nd Floor Ele	evation:	
OPER	ATOR CER	TIFICATIONS				SURVEYOR CERTIFIC	CATIONS	<u> </u>		VEYOR
my know organiz includir locatior interest	wledge and be ation either ov ng the propose n pursuant to a	lief, and, if the we wns a working into d bottom hole loc. contract with an tary pooling agree	ll is a vertical of erest or unleased ation or has a ri owner of a work	r directional d mineral inte ght to drill th king interest o	erest in the land	I hereby certify that the we surveys made by me or und my belief.		on, and t.	I hereby certify that it on this plat was plott actual surveys made is supervision, and that correct to the best of August ate of Survey	the same is true and
consent in each interval	t of at least one tract (in the ta will be locate	e lessee or owner orget pool or form d or obtained a co	of a working int ation) in which ompulsory pooli	erest or unlea any part of th ng order fron	n has received the used mineral interest we well's completed n the division.				PAUL B	UCHELK NEXIC
Signatur		. Reev	Date	24		Signature and Seal of Profess	ional Surveyor		23	
0		ES	Daw			Signature and Sedi UI FIUICSS	aonar ourveyof		Pen 09-0	2 hch &
Printed						Certificate Number	Date of Surve	zy	100	SE I
		VES@oxy.						·	S'ION	AL J
I ESI	IF RFF									

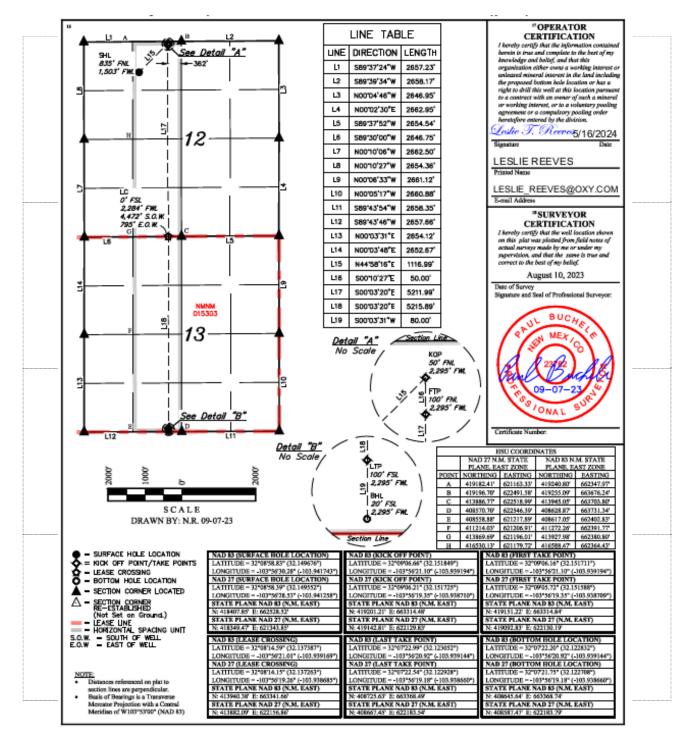
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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#### **Received by OCD: 12/12/2024 2:57:46 PM** 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.



State of New Mexico Energy, Minerals and Natural Resources Department	Submit Electronically Via E-permitting
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	
NATURAL GAS MANAGEMENT PLAN	

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

## <u>Section 1 – Plan Description</u> <u>Effective May 25, 2021</u>

I. Operator: OXY USA INC.

**OGRID:** 16696

Date: 1 2 / 1 2 / 2 0 2 4

**II. Type:** ☑ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.

If Other, please describe: \_\_\_\_

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

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

## IV. Central Delivery Point Name: CORRAL GORGE CTB

[See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

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

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

**VII. Operational Practices:** ☑ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: 🗹 Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

## Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

## IX. Anticipated Natural Gas Production:

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

#### X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

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

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

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

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

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

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

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

## Section 4 - Notices

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

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

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

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

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

Signature: Leslie T. Reeves						
Printed Name: LESLIE REEVES						
E-mail Address: LESLIE_REEVES@oxy.com						
Date: 12/12/2024						
Phone: 713-497-2492						
OIL CONSERVATION DIVISION						
(Only applicable when submitted as a standalone form)						
Approved By:						
Title:						
Approval Date:						
Conditions of Approval:						

III. Well(s)

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
CORRAL GORGE 12_13 FED COM 21H	Pending	C-12-25S-29E	835'FNL 1473' FWL	1750	4850	3350
CORRAL GORGE 12_13 FED COM 22H	Pending	C-12-25S-29E	835' FNL 1503' FWL	1800	5100	3500
CORRAL GORGE 12_13 FED COM 24H	Pending	A-12-25S-29E	867' FNL 1102' FEL	1800	5100	3500
CORRAL GORGE 12_13 FED COM 25H	Pending	A-12-25S-29E	867' FNL 1072' FEL	1800	5100	3500

#### V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	<b>Completion Commencement Date</b>	Initial Flow Back Date	First Production Date
CORRAL GORGE 12_13 FED COM 21H	Pending	1/3/2025	3/21/2025	4/30/2025	4/23/2025	5/23/2025
CORRAL GORGE 12_13 FED COM 22H	Pending	1/25/2025	3/15/2025	4/30/2025	4/23/2025	5/23/2025
CORRAL GORGE 12_13 FED COM 24H	Pending	1/28/2025	3/6/2025	5/7/2025	4/23/2025	5/24/2025
CORRAL GORGE 12_13 FED COM 25H	Pending	1/26/2025	3/11/2025	5/7/2025	4/23/2025	5/24/2025

#### **Central Delivery Point Name : Corral Gorge CTB**

#### Part VI. Separation Equipment

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

#### **VII. Operational Practices**

#### **Gathering System and Pipeline Notification**

In place. The gas produced from production facility is dedicated to Energy Transfer, LP ("ETC") and is connected to ETC high pressure gathering system located in Eddy County, New Mexico. OXY USA INC. ("OXY") provides (periodically) to Enterprise a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, OXY and Enterprise have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ETC's Processing Plant, 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 Enterprise system at that time. Based on current information, it is OXY's belief the system can take this gas upon completion of the well(s).

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

## **VIII. Best Management Practices**

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. - CORRAL GORGE 12\_13 FED COM 22HC Drill Plan

#### **1. Geologic Formations**

TVD of Target (ft):	9065	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	20133	Deepest Expected Fresh Water (ft):	376

#### **Delaware Basin**

Formation	MD-RKB (ft)	TVD-RKB (ft)	<b>Expected Fluids</b>
Rustler	376	376	
Salado	785	785	Salt
Castile	1763	1763	Salt
Delaware	3316	3316	Oil/Gas/Brine
Bell Canyon	3310	3310	Oil/Gas/Brine
Cherry Canyon	4231	4220	Oil/Gas/Brine
Brushy Canyon	5645	5565	Losses
Bone Spring	7253	7094	Oil/Gas
Bone Spring 1st	8242	8035	Oil/Gas
Bone Spring 2nd	9159	8887	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

		MD		TVD					
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	14.75	0	725	0	725	10.75	45.5	J-55	BTC
Intermediate	9.875	0	8467	0	8243	7.827	39.3	P110S	Wedge 463
Production	6.75	8267	20133	8043	9065	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			

\*If Production Casing Connection OD does not meet 0.422" annular clearance inside casing:

- Cement excess will be circulated from Top of Liner to surface (Cement Confirmation)
- Liner Top will be tested to confirm seal
- If ICP in Bone Spring Pool and lateral landed in Wolfcamp Pool, a CBL will be ran.

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	Ν
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> 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 <sup>nd</sup> 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	607	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	324	1.65	13.2	5%	5,895	Circulate	Class H+Accel., Disper., Salt
Int.	2	Intermediate 2S - Tail BH	839	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	672	1.84	13.3	25%	8,267	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.

#### **Cement Top and Liner Overlap**

• Oxy is requesting permission to have minimum fill of cement behind the 5-1/2" production liner to be 200 ft into previous casing string

The reason for this is so that we can come back and develop shallower benches from the same 7.625"/7.827" mainbore in the future

Cement will be brought to the top of this liner hanger

#### 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	✓		8243							
9.875" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi								
		JIM		Double Ram	✓	230 psi / 3000 psi								
			Other*											
		5M		Annular	<	70% of working pressure								
	13-5/8"				l						Blind Ram			
6.75" Hole		5M		Pipe Ram		250 psi / 5000 psi	9065							
				Double Ram		200 psi / 5000 psi								
			Other*											

\*Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 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

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

Are anchors required by manufacturer?

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

See attached schematics.

#### **BOP Break Testing Request**

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

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

## 5. Mud Program

Section	Depth - MD		Depth - TVD		Trme	Weight	Viscosity	Water	
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	viscosity	Loss	
Surface	0	725	0	725	Water-Based Mud	8.6 - 8.8	40-60	N/C	
Intermediate	725	8467	725	8243	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C	
Production	8467	20133	8243	9065	Water-Based or Oil- Based Mud	8.0 - 9.6	38-50	N/C	

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

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

#### 6. Logging and Testing Procedures

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

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	4526 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	153°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: 1403 bbls		

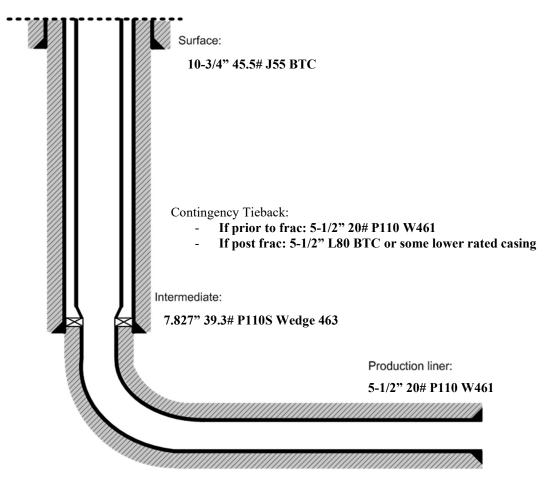
## OXY USA WTP LP

## Falcon SL1 Contingnecy Tieback Details

Below is a summary that describes the general operational steps to drill and complete the well.

- Drill 14-3/4" hole x 10-3/4" casing for surface section. Cement to surface.
- Drill 9-7/8" hole x 7.827" casing for intermediate section. Cement to surface.
- Drill 6-3/4" hole x 5-1/2" liner for production section. Cement to top of liner, 100' inside 7.827" shoe.
- Release drilling rig from location.
- If contingency tieback required pre-frac:
  - Move in workover rig and run a 5-1/2" 20# P110 Wedge 461 tie-back frac string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
  - Pump hydraulic fracture job.
  - Flowback and produce well.
- If contingency tieback required post-frac:
  - Move in workover rig and run a 5-1/2" L80 BTC or lesser rated tie-back string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
  - $\circ$  Return well to production.

General well schematic:



## **OXY USA Inc** APD ATTACHMENT: SPUDDER RIG DATA

## **OPERATOR NAME / NUMBER:** <u>OXY USA Inc</u>

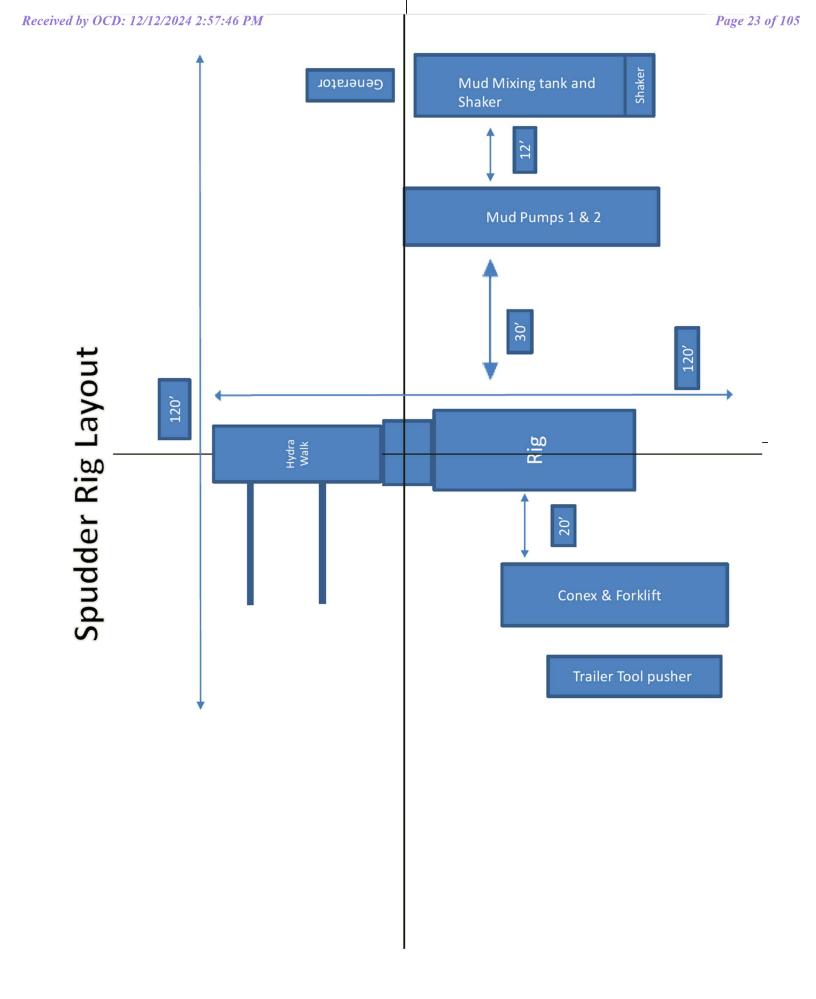
## 1. SUMMARY OF REQUEST:

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:

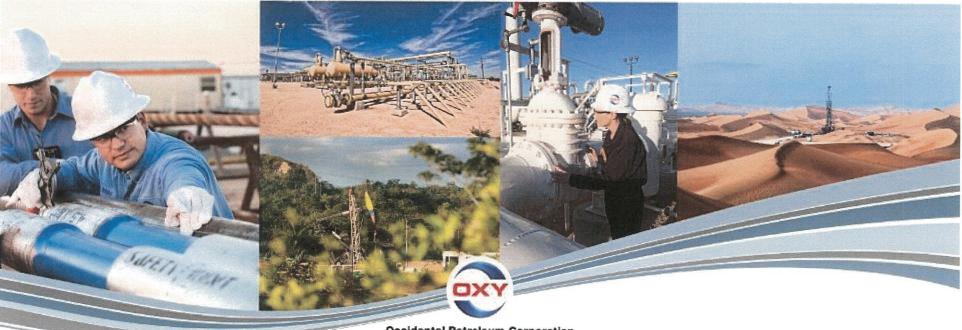
- a. If any parts of the BOP are changed out or any additional breaks are made during the skidding operation, these affected components would also be tested as in step 10.
- b. As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested in step 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: 12/12/2024 2:57:46 PM

# **Request for Variance**

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



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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. T
- 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

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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

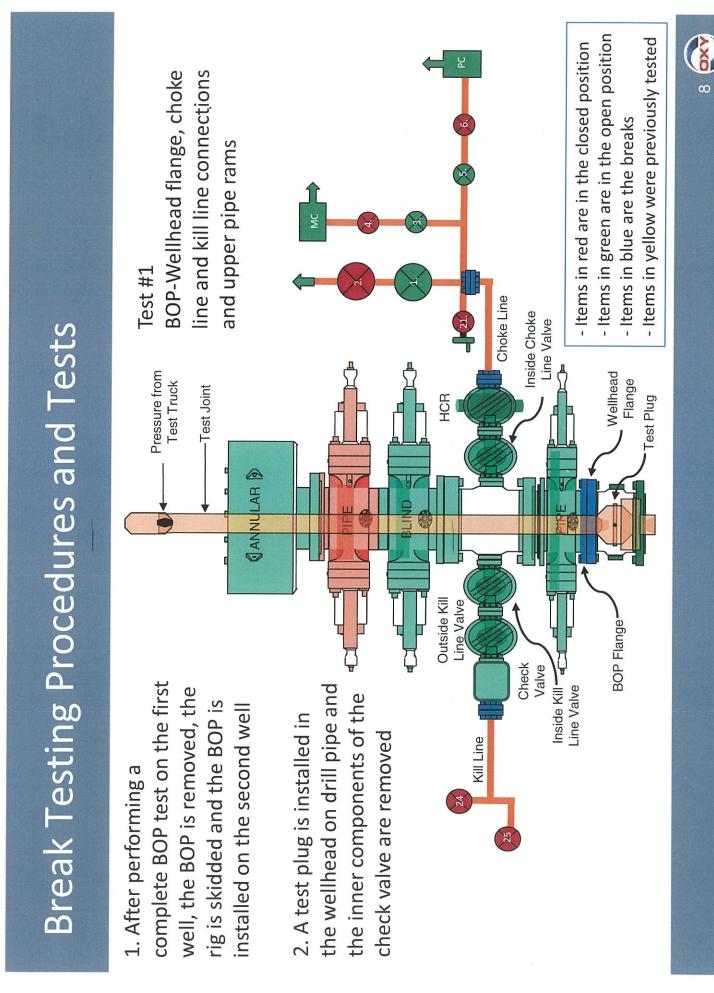


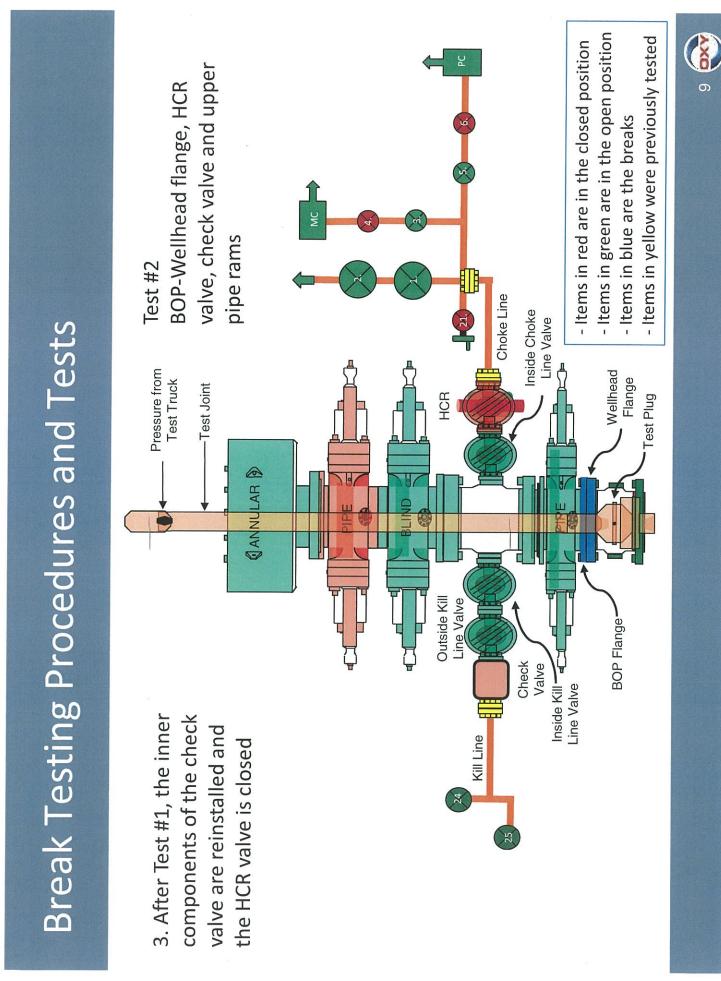
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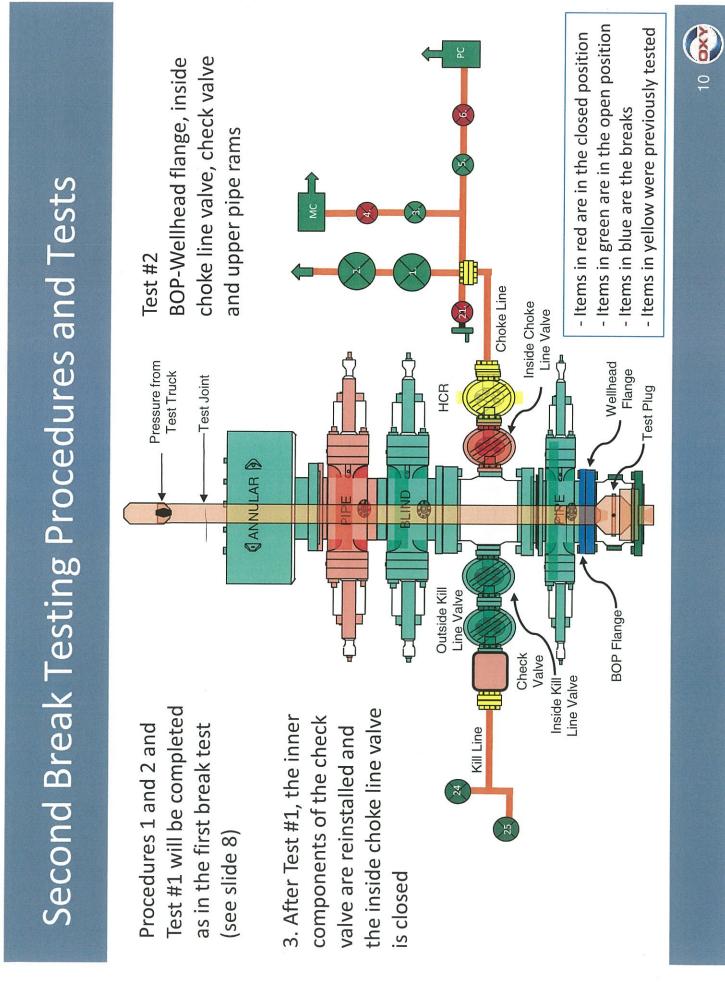
	Break Testing Procedures
1)	OXY to submit the break testing plan in the APD or Sundry Notice (SN) and receive approval prior to implementing
2)	OXY would perform BOP break testing on multi-well pads where multiple intermediate sections can be drilled and cased within the full BOP test window
3)	After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP. <ul> <li>Between the check valve and the kill line</li> <li>Between the HCR valve and the co-flex hose or the co-flex hose and the manifold</li> <li>Between the BOP flange and the wellhead</li> </ul>
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
(9	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
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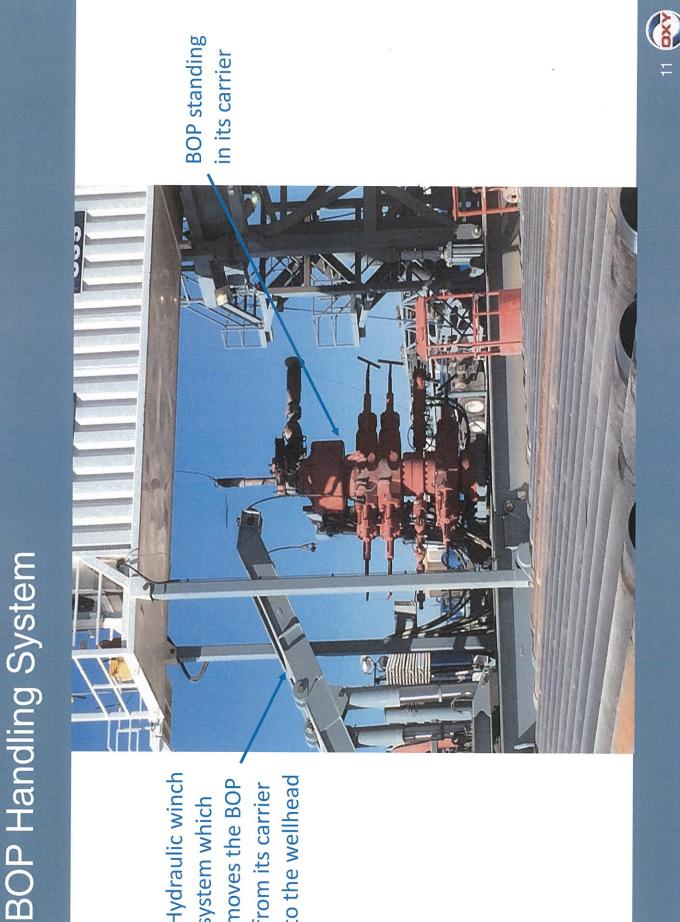
- 8) A shell test is performed against the upper pipe rams testing all three breaks
- The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 10)These tests consist of a 250 psi low test and a high test to the value submitted in the APD 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

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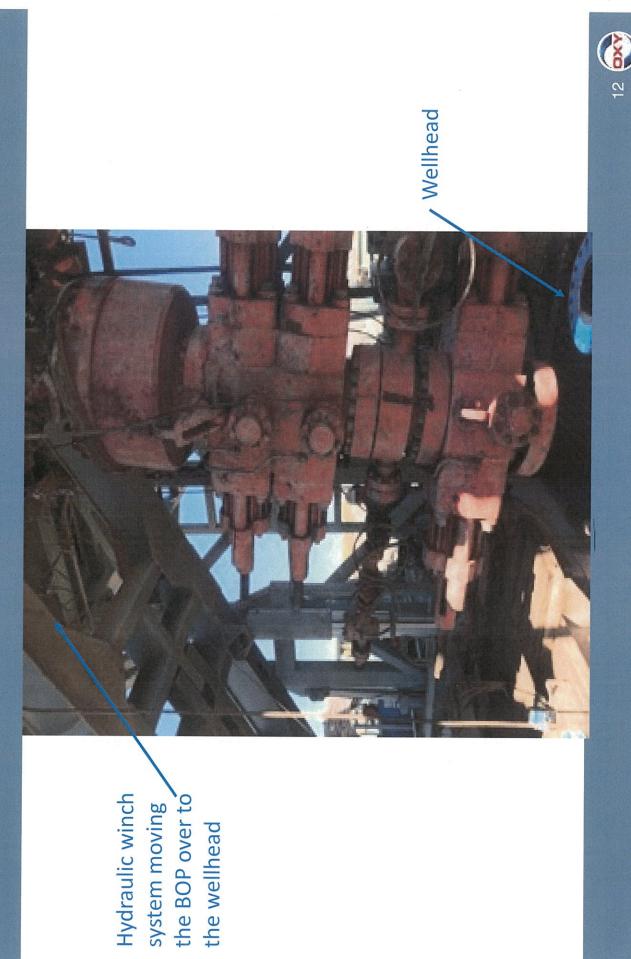








moves the BOP from its carrier to the wellhead Hydraulic winch system which



**BOP Handling System** 

<ul> <li>API standards, specifications and recommended practices are considered industry standards</li> <li>API standards, specifications and recommended practices are considered industry standards</li> <li>API standards</li> <li>OOGO No. 2 recognized API Recommended Practices (RP) 53 in its original development</li> <li>API Standard 53 recognizes break testing as an acceptable practice</li> <li>API Standard 53 recognizes break testing as an acceptable practice in the development of its offshore oil and gas regulations</li> <li>API Standard 53 recognizes break testing as an acceptable practice</li> <li>API Standard 53 recognizes break testing as an acceptable practice</li> <li>API Standard 53 recognizes break testing as an acceptable practice</li> <li>API Standard 53 recognizes break testing as an acceptable practice</li> <li>API Standard 53 recognizes break testing as an acceptable practice</li> <li>API Standard 53 recognizes break testing as an acceptable practice</li> <li>API Standard 53 recognizes break testing as an acceptable practice</li> <li>API Standard 53 recognizes break testing as an acceptable practice</li> </ul>
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#### **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

# **Falcon SL1 Production Casing Annular Clearance Variance Request**

If Production Casing Connection OD does not meet 0.422" annular clearance inside casing:

- Cement excess will be circulated from Top of Liner to surface (Cement Confirmation)
- Liner Top will be tested to confirm seal.
- If ICP in Bone Spring Pool and lateral landed in Wolfcamp Pool, a CBL will be ran.

#### **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

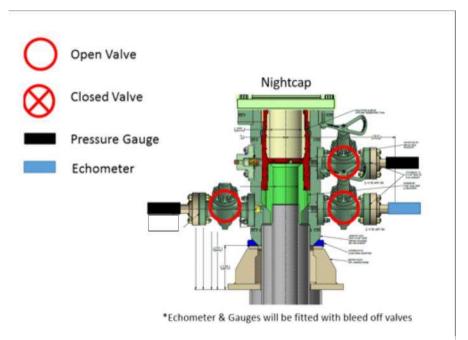
The operational sequence will be as follows:

- 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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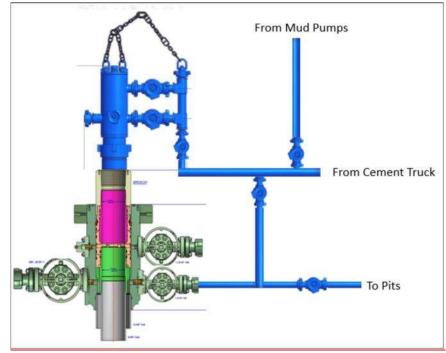


Wellhead diagram during skidding operations

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.

### **ENGINEERING DESIGNS**

PRD NM DIRECTIONAL PLANS (NAD 1983) Corral Gorge 12\_13 Corral Gorge 12\_13 Fed Com 22HC

Wellbore #1

**Plan: Permitting Plan** 

### **Standard Planning Report**

21 March, 2024

#### **OXY** Planning Report

Page	<b>4</b> 7	of	105
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Site Position: From:		Мар		Northi Eastin	-		66.21 usft 57.18 usft	Latitude: Longitude:			32.14928 -103.94197
Site	С	orral Go	rge 12_13								
Geo Datum: Map Zone:			o Eastern Zo					U	sing geodetic sca	ale factor	
Map System:			lane 1983 ican Datum ′	1082		System Date	um:	Μ	lean Sea Level		
Project	Ρ	RD NM I	DIRECTION	AL PLANS (NA	D 1983)						
Vellbore: Design:		Wellbore Permittin									
Nell:	(	Corral Go	orge 12_13 F	ed Com 22HC	;		Iculation Met	hod:	Minimum Curvat	ture	
Project: Site:			DIRECTION orge 12_13	IAL PLANS (N	AD 1983)	MD Refere North Refe			RKB = 25' @ 31 Grid	29.70ft	
Company:			ERING DESI			TVD Refer			RKB = 25' @ 31		

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#### **OXY** Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Gorge 12_13 Fed Com 22HC
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3129.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3129.70ft
Site:	Corral Gorge 12_13	North Reference:	Grid
Well:	Corral Gorge 12_13 Fed Com 22HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

#### Planned Survey

Measu Dept (ft)	th	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
10	00.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
40	00.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
50	00.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
· · · ·	00.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00	00.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
,	00.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2.50	00.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,90	00.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,39	96.00	0.00	0.00	3,396.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.08	27.50	3,400.00	0.00	0.00	0.00	2.00	2.00	0.00
	00.00	2.08	27.50	3,499.98	1.67	0.87	-1.59	2.00	2.00	0.00
	00.00	4.08	27.50	3,599.83	6.44	3.35	-6.13	2.00	2.00	0.00
,	00.00	6.08	27.50	3,699.43	14.29	7.44	-13.60	2.00	2.00	0.00
	00.00	8.08	27.50	3,798.66	25.23	13.13	-24.01	2.00	2.00	0.00
	00.00	10.08	27.50	3,897.40	39.22	20.42	-37.33	2.00	2.00	0.00
	00.00	12.08	27.50	3,995.54	56.27	29.30	-53.55	2.00	2.00	0.00
	00.00	14.08	27.50	4,092.94	76.34	39.75	-72.65	2.00	2.00	0.00
	00.00 95.78	16.08 18.00	27.50 27.50	4,189.49 4,281.06	99.41 124.31	51.76 64.72	-94.61 -118.30	2.00 2.00	2.00 2.00	0.00 0.00
	00.00 00.00	18.00 18.00	27.50 27.50	4,285.07 4,380.18	125.46 152.86	65.32 79.59	-119.40 -145.48	0.00 0.00	0.00 0.00	0.00 0.00
	00.00	18.00	27.50 27.50	4,380.18 4,475.29	152.86	79.59 93.86	-145.48 -171.55	0.00	0.00	0.00
	00.00	18.00	27.50	4,475.29 4,570.40	207.67	93.60 108.13	-171.55 -197.63	0.00	0.00	0.00
	00.00	18.00	27.50	4,665.50	235.07	122.39	-223.71	0.00	0.00	0.00
-	00.00	18.00			262.48	136.66	-249.79		0.00	0.00
	00.00 00.00	18.00	27.50 27.50	4,760.61 4,855.72	262.48 289.88	136.66 150.93	-249.79 -275.87	0.00 0.00	0.00	0.00
	00.00	18.00	27.50	4,950.83	317.28	165.20	-301.95	0.00	0.00	0.00
	00.00	18.00	27.50	5,045.94	344.68	179.46	-328.02	0.00	0.00	0.00
	00.00	18.00	27.50	5,141.04	372.09	193.73	-354.10	0.00	0.00	0.00
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Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Gorge 12_13 Fed Com 22HC
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3129.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3129.70ft
Site:	Corral Gorge 12_13	North Reference:	Grid
Well:	Corral Gorge 12_13 Fed Com 22HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

#### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	18.00	27.50	5,236.15	399.49	208.00	-380.18	0.00	0.00	0.00
5,400.00	18.00	27.50	5,331.26	426.89	222.27	-406.26	0.00	0.00	0.00
5,500.00	18.00	27.50	5,426.37	454.29	236.53	-432.34	0.00	0.00	0.00
5,600.00	18.00	27.50	5,521.48	481.70	250.80	-458.42	0.00	0.00	0.00
5,700.00	18.00	27.50	5,616.58	509.10	265.07	-430.42	0.00	0.00	0.00
5,800.00	18.00	27.50	5,711.69	536.50	279.34	-510.57	0.00	0.00	0.00
5,900.00	18.00	27.50	5,806.80	563.91	293.60	-536.65	0.00	0.00	0.00
6,000.00	18.00	27.50	5,901.91	591.31	307.87	-562.73	0.00	0.00	0.00
6,100.00	18.00	27.50	5,997.02	618.71	322.14	-588.81	0.00	0.00	0.00
6,200.00	18.00	27.50	6,092.12	646.11	336.41	-614.89	0.00	0.00	0.00
6,300.00	18.00	27.50	6,187.23	673.52	350.67	-640.96	0.00	0.00	0.00
6,400.00	18.00	27.50	6,282.34	700.92	364.94	-667.04	0.00	0.00	0.00
6,500.00	18.00	27.50	6,377.45	728.32	379.21	-693.12	0.00	0.00	0.00
6,600.00	18.00	27.50	6,472.56	755.72	393.47	-719.20	0.00	0.00	0.00
6,700.00	18.00	27.50	6,567.66	783.13	407.74	-745.28	0.00	0.00	0.00
6,800.00	18.00	27.50	6,662.77	810.53	422.01	-771.36	0.00	0.00	0.00
6,900.00	18.00	27.50	6,757.88	837.93	436.28	-797.43	0.00	0.00	0.00
7,000.00	18.00	27.50	6,852.99	865.34	450.54	-823.51	0.00	0.00	0.00
7,100.00	18.00	27.50	6,948.10	892.74	464.81	-849.59	0.00	0.00	0.00
7,200.00	18.00	27.50	7,043.20	920.14	479.08	-875.67	0.00	0.00	0.00
7,300.00	18.00	27.50	7,138.31	947.54	493.35	-901.75	0.00	0.00	0.00
7,400.00	18.00	27.50	7,233.42	974.95	507.61	-927.83	0.00	0.00	0.00
7,500.00	18.00	27.50	7,328.53	1,002.35	521.88	-953.90	0.00	0.00	0.00
7,600.00	18.00	27.50	7,423.64	1,029.75	536.15	-979.98	0.00	0.00	0.00
7,700.00	18.00	27.50	7,518.74	1,057.15	550.42	-1,006.06	0.00	0.00	0.00
7,800.00	18.00	27.50	7,613.85	1,084.56	564.68	-1,032.14	0.00	0.00	0.00
7,900.00	18.00	27.50	7,708.96	1,111.96	578.95	-1,058.22	0.00	0.00	0.00
8,000.00	18.00	27.50	7,804.07	1,139.36	593.22	-1,084.30	0.00	0.00	0.00
8,100.00	18.00	27.50	7,899.18	1,166.77	607.49	-1,110.37	0.00	0.00	0.00
8,200.00	18.00	27.50	7,994.28	1,194.17	621.75	-1,136.45	0.00	0.00	0.00
8,300.00	18.00	27.50	8,089.39	1,221.57	636.02	-1,162.53	0.00	0.00	0.00
8,400.00	18.00	27.50	8,184.50	1,248.97	650.29	-1,188.61	0.00	0.00	0.00
8,500.00	18.00	27.50	8,279.61	1,276.38	664.56	-1,214.69	0.00	0.00	0.00
8,567.08	18.00	27.50	8,343.41	1,294.76	674.13	-1,232.18	0.00	0.00	0.00
8,600.00	15.20	33.60	8,374.95	1,302.86	678.87	-1,239.85	10.00	-8.50	18.52
8,700.00	8.99	73.04	8,472.84	1,316.10	693.63	-1,251.77	10.00	-6.21	39.44
8,800.00	11.36	130.74	8,571.50	1,311.94	708.60	-1,246.34	10.00	2.37	57.70
8,900.00	19.39	154.19	8,667.93	1,290.51	723.33	-1,223.73	10.00	8.03	23.44
9,000.00	28.65	163.59	8,759.20	1,252.47	737.37	-1,184.63	10.00	9.27	9.41
9,100.00	38.27	168.62	8,842.54	1,198.98	750.28	-1,130.22	10.00	9.62	5.03
9,200.00	48.02	171.86	8,915.42	1,131.65	761.69	-1,062.17	10.00	9.75	3.24
9,300.00	57.85	174.23	8,975.63	1,052.54	771.23	-982.53	10.00	9.82	2.37
9,400.00	67.70	176.13	9,021.33	964.04	778.63	-893.72	10.00	9.86	1.90
9,500.00	77.58	177.78	9,051.13	868.85	783.65	-798.45	10.00	9.88	1.65
9,600.00	87.46	179.31	9,064.13	769.86	786.15	-699.61	10.00	9.88	1.53
9,626.44	90.08	179.71	9,064.70	743.43	786.38	-673.25	10.00	9.89	1.50
9,700.00	90.08	179.71	9,064.60	669.87	786.76	-599.94	0.00	0.00	0.00
9,800.00	90.08	179.71	9,064.47	569.87	787.27	-500.26	0.00	0.00	0.00
9,900.00	90.08	179.71	9,064.34	469.87	787.78	-400.59	0.00	0.00	0.00
10,000.00	90.08	179.71	9,064.20	369.87	788.30	-300.91	0.00	0.00	0.00
10,100.00	90.08	179.71	9,064.07	269.87	788.81	-201.24	0.00	0.00	0.00
10,200.00	90.08	179.71	9,063.94	169.88	789.32	-101.56	0.00	0.00	0.00
10,300.00	90.08	179.71	9,063.80	69.88	789.84	-1.89	0.00	0.00	0.00
10,400.00	90.08	179.71	9,063.67	-30.12	790.35	97.78	0.00	0.00	0.00
10,500.00	90.08	179.71	9,063.54	-130.12	790.86	197.46	0.00	0.00	0.00

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Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Gorge 12_13 Fed Com 22HC
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3129.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3129.70ft
Site:	Corral Gorge 12_13	North Reference:	Grid
Well:	Corral Gorge 12_13 Fed Com 22HC	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

#### Planned Survey

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10,700.00         90.08         179.71         9,063.27         -330.12         791.89         396.81         0.00         0.00         0.00           10,800.00         90.08         179.71         9,063.14         -430.12         792.40         496.48         0.00         0.00         0.00           10,900.00         90.08         179.71         9,063.00         -530.11         792.91         596.16         0.00         0.00         0.00           11,000.00         90.08         179.71         9,062.87         -630.11         793.43         695.83         0.00         0.00         0.00           11,000.00         90.08         179.71         9,062.74         -730.11         793.94         795.50         0.00         0.00         0.00           11,200.00         90.08         179.71         9,062.60         -830.11         794.45         895.18         0.00         0.00         0.00           11,200.00         90.08         179.71         9,062.47         -930.11         794.97         994.85         0.00         0.00         0.00           11,400.00         90.08         179.71         9,062.20         -1,130.11         795.99         1,194.20         0.00         0.00	
10,800.00         90.08         179.71         9,063.14         -430.12         792.40         496.48         0.00         0.00         0.00           10,900.00         90.08         179.71         9,063.00         -530.11         792.91         596.16         0.00         0.00         0.00           11,000.00         90.08         179.71         9,062.87         -630.11         793.43         695.83         0.00         0.00         0.00           11,100.00         90.08         179.71         9,062.74         -730.11         793.94         795.50         0.00         0.00         0.00           11,200.00         90.08         179.71         9,062.60         -830.11         794.45         895.18         0.00         0.00         0.00           11,300.00         90.08         179.71         9,062.47         -930.11         794.97         994.85         0.00         0.00         0.00           11,400.00         90.08         179.71         9,062.20         -1,130.11         795.98         1,094.53         0.00         0.00         0.00           11,400.00         90.08         179.71         9,062.07         -1,230.10         796.51         1,293.88         0.00         0.00	
10,900.00         90.08         179.71         9,063.00         -530.11         792.91         596.16         0.00         0.00         0.00           11,000.00         90.08         179.71         9,062.87         -630.11         793.43         695.83         0.00         0.00         0.00           11,100.00         90.08         179.71         9,062.74         -730.11         793.94         795.50         0.00         0.00         0.00           11,200.00         90.08         179.71         9,062.74         -730.11         793.94         795.50         0.00         0.00         0.00           11,200.00         90.08         179.71         9,062.60         -830.11         794.45         895.18         0.00         0.00         0.00           11,300.00         90.08         179.71         9,062.47         -930.11         794.97         994.85         0.00         0.00         0.00           11,400.00         90.08         179.71         9,062.20         -1,130.11         795.99         1,194.20         0.00         0.00         0.00           11,600.00         90.08         179.71         9,062.07         -1,230.10         796.51         1,293.88         0.00         0.00	
11,000.00         90.08         179.71         9,062.87         -630.11         793.43         695.83         0.00         0.00         0.00           11,100.00         90.08         179.71         9,062.74         -730.11         793.94         795.50         0.00         0.00         0.00           11,200.00         90.08         179.71         9,062.74         -730.11         793.94         795.50         0.00         0.00         0.00           11,200.00         90.08         179.71         9,062.60         -830.11         794.45         895.18         0.00         0.00         0.00           11,300.00         90.08         179.71         9,062.47         -930.11         794.97         994.85         0.00         0.00         0.00           11,400.00         90.08         179.71         9,062.20         -1,130.11         795.99         1,194.20         0.00         0.00         0.00           11,600.00         90.08         179.71         9,062.07         -1,230.10         796.51         1,293.88         0.00         0.00         0.00           11,600.00         90.08         179.71         9,061.94         -1,330.10         797.02         1,393.55         0.00         0.00	
11,100.00         90.08         179.71         9,062.74         -730.11         793.94         795.50         0.00         0.00         0.00           11,200.00         90.08         179.71         9,062.60         -830.11         794.45         895.18         0.00         0.00         0.00           11,300.00         90.08         179.71         9,062.47         -930.11         794.45         895.18         0.00         0.00         0.00           11,300.00         90.08         179.71         9,062.47         -930.11         794.97         994.85         0.00         0.00         0.00           11,400.00         90.08         179.71         9,062.20         -1,130.11         795.99         1,194.20         0.00         0.00         0.00           11,600.00         90.08         179.71         9,062.07         -1,230.10         796.51         1,293.88         0.00         0.00         0.00           11,600.00         90.08         179.71         9,061.94         -1,330.10         797.02         1,393.55         0.00         0.00         0.00           11,700.00         90.08         179.71         9,061.80         -1,430.10         797.53         1,493.22         0.00         0.00 </td <td></td>	
11,200.00         90.08         179.71         9,062.60         -830.11         794.45         895.18         0.00         0.00         0.00           11,300.00         90.08         179.71         9,062.47         -930.11         794.97         994.85         0.00         0.00         0.00           11,400.00         90.08         179.71         9,062.34         -1,030.11         795.48         1,094.53         0.00         0.00         0.00           11,500.00         90.08         179.71         9,062.20         -1,130.11         795.99         1,194.20         0.00         0.00         0.00           11,600.00         90.08         179.71         9,062.07         -1,230.10         796.51         1,293.88         0.00         0.00         0.00           11,600.00         90.08         179.71         9,061.94         -1,330.10         797.02         1,393.55         0.00         0.00         0.00           11,700.00         90.08         179.71         9,061.80         -1,430.10         797.53         1,493.22         0.00         0.00         0.00           11,800.00         90.08         179.71         9,061.67         -1,530.10         798.04         1,592.90         0.00 <t< td=""><td></td></t<>	
11,300.00         90.08         179.71         9,062.47         -930.11         794.97         994.85         0.00         0.00         0.00           11,400.00         90.08         179.71         9,062.34         -1,030.11         795.48         1,094.53         0.00         0.00         0.00           11,500.00         90.08         179.71         9,062.20         -1,130.11         795.99         1,194.20         0.00         0.00         0.00           11,600.00         90.08         179.71         9,062.07         -1,230.10         796.51         1,293.88         0.00         0.00         0.00           11,600.00         90.08         179.71         9,061.94         -1,330.10         797.02         1,393.55         0.00         0.00         0.00           11,700.00         90.08         179.71         9,061.80         -1,430.10         797.53         1,493.22         0.00         0.00         0.00           11,800.00         90.08         179.71         9,061.67         -1,530.10         798.04         1,592.90         0.00         0.00         0.00	
11,400.00         90.08         179.71         9,062.34         -1,030.11         795.48         1,094.53         0.00         0.00         0.00           11,500.00         90.08         179.71         9,062.20         -1,130.11         795.99         1,194.20         0.00         0.00         0.00         0.00           11,600.00         90.08         179.71         9,062.07         -1,230.10         796.51         1,293.88         0.00         0.00         0.00           11,700.00         90.08         179.71         9,061.94         -1,330.10         797.02         1,393.55         0.00         0.00         0.00           11,800.00         90.08         179.71         9,061.80         -1,430.10         797.53         1,493.22         0.00         0.00         0.00           11,900.00         90.08         179.71         9,061.67         -1,530.10         798.04         1,592.90         0.00         0.00         0.00	
11,500.00         90.08         179.71         9,062.20         -1,130.11         795.99         1,194.20         0.00         0.00         0.00           11,600.00         90.08         179.71         9,062.07         -1,230.10         796.51         1,293.88         0.00         0.00         0.00           11,700.00         90.08         179.71         9,061.94         -1,330.10         797.02         1,393.55         0.00         0.00         0.00           11,800.00         90.08         179.71         9,061.80         -1,430.10         797.53         1,493.22         0.00         0.00         0.00           11,900.00         90.08         179.71         9,061.67         -1,530.10         798.04         1,592.90         0.00         0.00         0.00	
11,600.00         90.08         179.71         9,062.07         -1,230.10         796.51         1,293.88         0.00         0.00         0.00           11,700.00         90.08         179.71         9,061.94         -1,330.10         797.02         1,393.55         0.00         0.00         0.00           11,800.00         90.08         179.71         9,061.84         -1,430.10         797.53         1,493.22         0.00         0.00         0.00           11,900.00         90.08         179.71         9,061.67         -1,530.10         798.04         1,592.90         0.00         0.00         0.00	
11,700.00         90.08         179.71         9,061.94         -1,330.10         797.02         1,393.55         0.00         0.00         0.00           11,800.00         90.08         179.71         9,061.80         -1,430.10         797.53         1,493.22         0.00         0.00         0.00           11,900.00         90.08         179.71         9,061.67         -1,530.10         798.04         1,592.90         0.00         0.00         0.00	
11,800.00         90.08         179.71         9,061.80         -1,430.10         797.53         1,493.22         0.00         0.00         0.00           11,900.00         90.08         179.71         9,061.67         -1,530.10         798.04         1,592.90         0.00         0.00         0.00         0.00	
11,900.00         90.08         179.71         9,061.67         -1,530.10         798.04         1,592.90         0.00         0.00         0.00	
12,100.00 90.08 179.71 9,061.40 -1,730.10 799.07 1,792.25 0.00 0.00 0.00	
12,200.00 90.08 179.71 9,061.27 -1,830.10 799.58 1,891.92 0.00 0.00 0.00	
12,300.00         90.08         179.71         9,061.14         -1,930.09         800.10         1,991.59         0.00         0.00         0.00	
12,400.00         90.08         179.71         9,061.00         -2,030.09         800.61         2,091.27         0.00         0.00         0.00	
12,500.00         90.08         179.71         9,060.87         -2,130.09         801.12         2,190.94         0.00         0.00         0.00	
12,600.00         90.08         179.71         9,060.74         -2,230.09         801.64         2,290.62         0.00         0.00         0.00	
12,700.00 90.08 179.71 9,060.60 -2,330.09 802.15 2,390.29 0.00 0.00 0.00	
12,800.00         90.08         179.71         9,060.47         -2,430.09         802.66         2,489.97         0.00         0.00         0.00	
12,900.00         90.08         179.71         9,060.34         -2,530.09         803.17         2,589.64         0.00         0.00         0.00	
13,000.00         90.08         179.71         9,060.20         -2,630.08         803.69         2,689.31         0.00         0.00         0.00	
13,100.00         90.08         179.71         9,060.07         -2,730.08         804.20         2,788.99         0.00         0.00         0.00	
13,200.00         90.08         179.71         9,059.94         -2,830.08         804.71         2,888.66         0.00         0.00         0.00	
13,300.00         90.08         179.71         9,059.81         -2,930.08         805.23         2,988.34         0.00         0.00         0.00	
13,400.00         90.08         179.71         9,059.67         -3,030.08         805.74         3,088.01         0.00         0.00         0.00	
13,500.00 90.08 179.71 9,059.54 -3,130.08 806.25 3,187.69 0.00 0.00 0.00	
13,600.00         90.08         179.71         9,059.41         -3,230.08         806.77         3,287.36         0.00         0.00         0.00	
13,700.00 90.08 179.71 9,059.27 -3,330.07 807.28 3,387.03 0.00 0.00 0.00	
13,800.00 90.08 179.71 9,059.14 -3,430.07 807.79 3,486.71 0.00 0.00 0.00	
13,900.00 90.08 179.71 9,059.01 -3,530.07 808.31 3,586.38 0.00 0.00 0.00	
14,000.00 90.08 179.71 9,058.87 -3,630.07 808.82 3,686.06 0.00 0.00 0.00	
14,100.00         90.08         179.71         9,058.74         -3,730.07         809.33         3,785.73         0.00         0.00         0.00	
14,200.00 90.08 179.71 9,058.61 -3,830.07 809.84 3,885.41 0.00 0.00 0.00	
14,300.00 90.08 179.71 9,058.47 -3,930.07 810.36 3,985.08 0.00 0.00 0.00	
14,400.00 90.08 179.71 9,058.34 -4,030.07 810.87 4,084.75 0.00 0.00 0.00	
14,500.00 90.08 179.71 9,058.21 -4,130.06 811.38 4,184.43 0.00 0.00 0.00	
14,600.00         90.08         179.71         9,058.07         -4,230.06         811.90         4,284.10         0.00         0.00         0.00           14,700.00         90.08         179.71         9,058.07         -4,230.06         811.90         4,284.10         0.00	
14,700.00 90.08 179.71 9,057.94 -4,330.06 812.41 4,383.78 0.00 0.00 0.00	
14,800.00 90.08 179.71 9,057.81 -4,430.06 812.92 4,483.45 0.00 0.00 0.00 0.00	
14,900.00         90.08         179.71         9,057.67         -4,530.06         813.44         4,583.13         0.00         0.00         0.00           14,900.00         90.08         179.71         9,057.67         -4,630.06         813.44         4,583.13         0.00	
15,000.00 90.08 179.71 9,057.54 -4,630.06 813.95 4,682.80 0.00 0.00 0.00	
15,100.00 90.08 179.71 9,057.41 -4,730.06 814.46 4,782.47 0.00 0.00 0.00 0.00	
15,200.00 90.08 179.71 9,057.27 -4,830.05 814.98 4,882.15 0.00 0.00 0.00	
15,300.00         90.08         179.71         9,057.14         -4,930.05         815.49         4,981.82         0.00         0.00         0.00	
15,400.00 90.08 179.71 9,057.01 -5,030.05 816.00 5,081.50 0.00 0.00 0.00	
15,500.00         90.08         179.71         9,056.87         -5,130.05         816.51         5,181.17         0.00         0.00         0.00	
15,600.00         90.08         179.71         9,056.74         -5,230.05         817.03         5,280.85         0.00         0.00         0.00	
15,700.00 90.08 179.71 9,056.61 -5,330.05 817.54 5,380.52 0.00 0.00 0.00	
15,800.00 90.08 179.71 9,056.47 -5,430.05 818.05 5,480.19 0.00 0.00 0.00	
15,900.00         90.08         179.71         9,056.34         -5,530.04         818.57         5,579.87         0.00         0.00         0.00	
16,000.00         90.08         179.71         9,056.21         -5,630.04         819.08         5,679.54         0.00         0.00         0.00	

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COMPASS 5000.17 Build 03

- 1				
	Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Gorge 12_13 Fed Com 22HC
	Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3129.70ft
	Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3129.70ft
	Site:	Corral Gorge 12_13	North Reference:	Grid
	Well:	Corral Gorge 12_13 Fed Com 22HC	Survey Calculation Method:	Minimum Curvature
	Wellbore:	Wellbore #1		
	Design:	Permitting Plan		

#### Planned Survey

	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	16,100.00	90.08	179.71	9,056.07	-5,730.04	819.59	5,779.22	0.00	0.00	0.00
	16,200.00	90.08	179.71	9,055.94	-5,830.04	820.11	5,878.89	0.00	0.00	0.00
	16,300.00	90.08	179.71	9,055.81	-5,930.04	820.62	5,978.56	0.00	0.00	0.00
	16,400.00	90.08	179.71	9,055.67	-6,030.04	821.13	6,078.24	0.00	0.00	0.00
	16,500.00	90.08	179.71	9,055.54	-6,130.04	821.64	6,177.91	0.00	0.00	0.00
	16,600.00	90.08	179.71	9,055.41	-6,230.03	822.16	6,277.59	0.00	0.00	0.00
	16,700.00	90.08	179.71	9,055.27	-6,330.03	822.67	6,377.26	0.00	0.00	0.00
	16,800.00	90.08	179.71	9,055.14	-6,430.03	823.18	6,476.94	0.00	0.00	0.00
	16,900.00	90.08	179.71	9,055.01	-6,530.03	823.70	6,576.61	0.00	0.00	0.00
	17,000.00	90.08	179.71	9,054.87	-6,630.03	824.21	6,676.28	0.00	0.00	0.00
	17,100.00	90.08	179.71	9,054.74	-6,730.03	824.72	6,775.96	0.00	0.00	0.00
	17,200.00	90.08	179.71	9,054.61	-6,830.03	825.24	6,875.63	0.00	0.00	0.00
	17,300.00	90.08	179.71	9,054.48	-6,930.02	825.75	6,975.31	0.00	0.00	0.00
	17,400.00	90.08	179.71	9,054.34	-7,030.02	826.26	7,074.98	0.00	0.00	0.00
	17,500.00	90.08	179.71	9,054.21	-7,130.02	826.78	7,174.66	0.00	0.00	0.00
	17,600.00	90.08	179.71	9,054.08	-7,230.02	827.29	7,274.33	0.00	0.00	0.00
	17,700.00	90.08	179.71	9,053.94	-7,330.02	827.80	7,374.00	0.00	0.00	0.00
	17,800.00	90.08	179.71	9,053.81	-7,430.02	828.31	7,473.68	0.00	0.00	0.00
	17,900.00	90.08	179.71	9,053.68	-7,530.02	828.83	7,573.35	0.00	0.00	0.00
	18,000.00	90.08	179.71	9,053.54	-7,630.01	829.34	7,673.03	0.00	0.00	0.00
	18,100.00	90.08	179.71	9,053.41	-7,730.01	829.85	7,772.70	0.00	0.00	0.00
	18,200.00	90.08	179.71	9,053.28	-7,830.01	830.37	7,872.38	0.00	0.00	0.00
	18,300.00	90.08	179.71	9,053.14	-7,930.01	830.88	7,972.05	0.00	0.00	0.00
	18,400.00	90.08	179.71	9,053.01	-8,030.01	831.39	8,071.72	0.00	0.00	0.00
	18,500.00	90.08	179.71	9,052.88	-8,130.01	831.91	8,171.40	0.00	0.00	0.00
	18,600.00	90.08	179.71	9,052.74	-8,230.01	832.42	8,271.07	0.00	0.00	0.00
	18,700.00	90.08	179.71	9,052.61	-8,330.00	832.93	8,370.75	0.00	0.00	0.00
	18,800.00	90.08	179.71	9,052.48	-8,430.00	833.45	8,470.42	0.00	0.00	0.00
1	18,900.00	90.08	179.71	9,052.34	-8,530.00	833.96	8,570.10	0.00	0.00	0.00
	19,000.00	90.08	179.71	9,052.21	-8,630.00	834.47	8,669.77	0.00	0.00	0.00
	19,100.00	90.08	179.71	9,052.08	-8,730.00	834.98	8,769.44	0.00	0.00	0.00
	19,200.00	90.08	179.71	9,051.94	-8,830.00	835.50	8,869.12	0.00	0.00	0.00
	19,300.00	90.08	179.71	9,051.81	-8,930.00	836.01	8,968.79	0.00	0.00	0.00
	19,400.00	90.08	179.71	9,051.68	-9,030.00	836.52	9,068.47	0.00	0.00	0.00
	19,500.00	90.08	179.71	9,051.54	-9,129.99	837.04	9,168.14	0.00	0.00	0.00
	19,600.00	90.08	179.71	9,051.41	-9,229.99	837.55	9,267.82	0.00	0.00	0.00
	19,700.00	90.08	179.71	9,051.28	-9,329.99	838.06	9,367.49	0.00	0.00	0.00
	19,800.00	90.08	179.71	9,051.14	-9,429.99	838.58	9,467.16	0.00	0.00	0.00
	19,900.00	90.08	179.71	9,051.01	-9,529.99	839.09	9,566.84	0.00	0.00	0.00
	20,000.00	90.08	179.71	9,050.88	-9,629.99	839.60	9,666.51	0.00	0.00	0.00
	20,100.00	90.08	179.71	9,050.74	-9,729.99	840.11	9,766.19	0.00	0.00	0.00
	20,132.97	90.08	179.71	9,050.70	-9,762.95	840.28	9,799.05	0.00	0.00	0.00

#### **OXY** Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Corral Gorge 12_13				TVD Refere MD Referer North Refer	ice:	RKB = 25' RKB = 25' Grid	Well Corral Gorge 12_13 Fed Com 22HC RKB = 25' @ 3129.70ft RKB = 25' @ 3129.70ft Grid Minimum 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 (Corral Gorge 12_	_1 0.00	0.00	0.00	793.42	786.02	419,201.21	663,314.48	32.151849	-103.939195	

- plan misses target cente - Point	er by 1116.8	5ft at 0.00	oft MD (0.00	TVD, 0.00 N, 0	.00 E)				
PBHL (Corral Gorge 12_ - plan hits target center - Point	0.00	0.00	9,050.70	-9,762.95	840.28	408,645.64	663,368.74	32.122832	-103.939144
FTP (Corral Gorge 12_1 - plan hits target center - Point	0.00	0.00	9,064.70	743.43	786.38	419,151.22	663,314.84	32.151711	-103.939194

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	375.70	375.70	RUSTLER			
	784.70	784.70	SALADO			
	1,762.70	1,762.70	CASTILE			
	3,309.70	3,309.70	BELL CANYON			
	3,315.70	3,315.70	DELAWARE			
	4,231.49	4,219.70	CHERRY CANYON			
	5,645.45	5,564.70	BRUSHY CANYON			
	7,253.09	7,093.70	BONE SPRING			
	8,242.49	8,034.70	BONE SPRING 1ST			
	9,158.64	8,886.70	BONE SPRING 2ND			

Vertical Depth (ft)	Local Coo +N/-S (ft)	rdinates +E/-W (ft)	Comment	
0 3,396.00	0.00	0.00	Build 2°/100'	
4,281.06	124.31	64.72	Hold 18° Tangent	
8 8,343.41	1,294.76	674.13	KOP, BUild & Turn 10°/100'	
4 9,064.70	743.43	786.38	Landing Point	
9,050.70	-9,762.95	840.28	TD at 20132.97' MD	
))	Depth (ft)           00         3,396.00           78         4,281.06           18         8,343.41           14         9,064.70	Depth (ft)         +N/-S (ft)           00         3,396.00         0.00           124.31         124.31           18         8,343.41         1,294.76           14         9,064.70         743.43	Depth (ft)         +N/-S (ft)         +E/-W (ft)           0         3,396.00         0.00           8         4,281.06         124.31           8         8,343.41         1,294.76           94         9,064.70         743.43	Depth (ft)         +N/-S (ft)         +E/-W (ft)         Comment           0         3,396.00         0.00         0.00         Build 2°/100'           8         4,281.06         124.31         64.72         Hold 18° Tangent           98         8,343.41         1,294.76         674.13         KOP, BUild & Turn 10°/100'           94         9,064.70         743.43         786.38         Landing Point

### PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA Incorporated
WELL NAME & NO.:	CORRAL GORGE 12-13 FED COM 22H
SURFACE HOLE FOOTAGE:	835'/N & 1503'/W
BOTTOM HOLE FOOTAGE	20'/S & 2295'/W
LOCATION:	Section 12, T.25 S., R.29 E., NMP
COUNTY:	Eddy County, New Mexico

#### COA

H2S	• Yes	O No	
Potash	None	C Secretary	© R-111-P
Cave/Karst Potential	• Low	C Medium	C High
Cave/Karst Potential	Critical		
Variance	C None	Section Flex Hose	C Other
Wellhead	Conventional	Multibowl	C Both
Wellhead Variance	C 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 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

#### **B.** CASING

#### Primary Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **725 feet** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable

fresh water) and cemented to the surface. The surface hole shall be **14-3/4 inch** in diameter.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u>
   <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore. The minimum required fill of cement behind the 7.827 inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
  - Operator will perform bradenhead squeeze and top-out cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Operator has proposed to pump down 10-3/4" X 7.827" annulus. <u>Operator must top</u> <u>out cement after the bradenhead squeeze and verify cement to surface. Operator</u> <u>can also check TOC with Echo-meter. CBL must be run from TD of the 7.827"</u> <u>casing to surface if confidence is lacking on the quality of the bradenhead squeeze</u> <u>cement job. Submit results to BLM.</u>

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

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- 3. Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

#### **C. PRESSURE CONTROL**

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **10-3/4** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

#### **D. SPECIAL REQUIREMENT (S)**

#### **Communitization Agreement**

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

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

#### **Casing Clearance:**

Operator casing variance is approved for the utilization of:

- 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.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

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#### **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)

#### $\boxtimes$ Eddy County

**EMAIL** or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

**BLM\_NM\_CFO\_DrillingNotifications@BLM.GOV** (575) 361-2822

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

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - i. Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> 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<sup>nd</sup> 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

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spacer and drilling mud. The results should be documented in the driller's log and daily reports.

#### A. CASING

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

total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

#### **B. PRESSURE CONTROL**

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - iii. Manufacturer representative shall install the test plug for the initial BOP test.
  - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be

cut off, cementing operations performed and another wellhead installed.

- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
  - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
  - iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
  - v. The results of the test shall be reported to the appropriate BLM office.

- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

#### C. DRILLING MUD

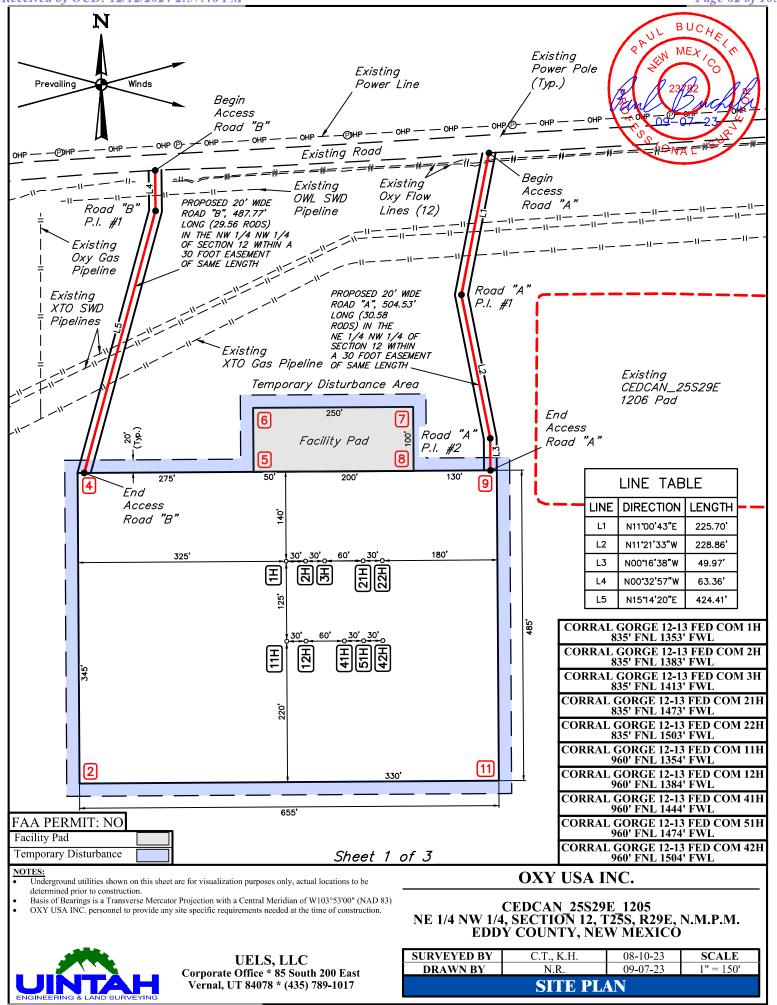
Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

#### D. WASTE MATERIAL AND FLUIDS

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

JS 12/9/2024

*Received by OCD: 12/12/2024 2:57:46 PM* 



CORRAL GORGE 12-13 FED COM 1H -	CORRAL GORGE 12-13 FED COM 2H -	CORRAL GORGE 12-13 FED COM 3H -
EL: 3104.1'	EL: 3104.0'	EL: 3104.7'
NAD 83	NAD 83	NAD 83
LATITUDE = 32°08'58.82" (32.149673°)	LATITUDE = 32°08'58.82" (32.149674°)	LATITUDE = 32°08'58.83" (32.149674°)
LONGITUDE = -103°56'32.02" (-103.942228°)	LONGITUDE = -103°56'31.67" (-103.942131°)	LONGITUDE = -103°56'31.32" (-103.942034°)
NAD 27	NAD 27	NAD 27
LATITUDE = 32°08'58.38" (32.149549°)	LATITUDE = 32°08'58.38" (32.149550°)	LATITUDE = 32°08'58.38" (32.149550°)
LONGITUDE = -103°56'30.27" (-103.941743°)	LONGITUDE = -103°56'29.93" (-103.941646°)	LONGITUDE = -103°56'29.58" (-103.941549°)
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 418406.24' E: 662378.56'	N: 418406.57' E: 662408.55'	N: 418406.89' E: 662438.54'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 418347.87' E: 621193.89'	N: 418348.19' E: 621223.88'	N: 418348.51' E: 621253.87'
CORRAL GORGE 12-13 FED COM 21H -	CORRAL GORGE 12-13 FED COM 22H -	CORRAL GORGE 12-13 FED COM 11H -
EL: 3104.4'	EL: 3104.7'	EL: 3105.7'
NAD 83	NAD 83	NAD 83
LATITUDE = $32^{\circ}08'58.83''$ ( $32.149675^{\circ}$ )	LATITUDE = $32^{\circ}08'58.83''$ ( $32.149676^{\circ}$ )	LATITUDE = $32^{\circ}08'57.59''$ ( $32.149329^{\circ}$ )
LATITUDE = $-103^{\circ}56'30.63"$ (-103.941840°)	LATITUDE = $-32.0838.83(32.149676)$ LONGITUDE = $-103^{\circ}56'30.28''(-103.941743^{\circ})$	LATITUDE = $52.0857.39(52.149529)$ LONGITUDE = $-103^{\circ}56'32.01''(-103.942225^{\circ})$
NAD 27	NAD 27	<b>NAD 27</b>
LATITUDE = $32^{\circ}08'58.39'' (32.149552^{\circ})$	LATITUDE = $32^{\circ}08'58.39''$ ( $32.149552^{\circ}$ )	LATITUDE = $32^{\circ}08'57.14''$ ( $32.149206^{\circ}$ )
LATITODE = 32 08 38.39 (32.149332) LONGITUDE = -103°56'28.88" (-103.941355°)	LATITODE = $32.0838.39(32.149332)$ LONGITUDE = $-103^{\circ}56'28.53''(-103.941258^{\circ})$	LONGITUDE = $-103^{\circ}56'30.26''$ (-103.941740°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b>	<b>STATE PLANE NAD 83 (N.M. EAST)</b>	<b>STATE PLANE NAD 83 (N.M. EAST)</b>
N: 418407.53' E: 662498.52'	N: 418407.85' E: 662528.52'	N: 418281.28' E: 662379.89'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 418349.15' E: 621313.86'	N: 418349.47' E: 621343.85'	N: 418222.90' E: 621195.22'
N. 418545.15 E. 021515.80	N. 418549.47 E. 021545.85	N. 418222.90 E. 021195.22
CORRAL GORGE 12-13 FED COM 12H -	CORRAL GORGE 12-13 FED COM 41H -	CORRAL GORGE 12-13 FED COM 51H -
EL: 3105.3'	EL: 3105.6'	EL: 3106.2'
		NAD 83
NAD 83	NAD 83	
NAD 83 LATITUDE = 32°08'57.59" (32.149330°) LONGITUDE = -103°56'31.66" (-103.942128°)	NAD 83 LATITUDE = 32°08'57.59" (32.149331°) LONGITUDE = -103°56'30.96" (-103.941934°)	LATITUDE = 32°08'57.59" (32.149332°)
LATITUDE = 32°08'57.59" (32.149330°)	LATITUDE = 32°08'57.59" (32.149331°)	
LATITUDE = 32°08'57.59" (32.149330°) LONGITUDE = -103°56'31.66" (-103.942128°)	LATITUDE = 32°08'57.59" (32.149331°) LONGITUDE = -103°56'30.96" (-103.941934°)	LATITUDE = 32°08'57.59" (32.149332°) LONGITUDE = -103°56'30.61" (-103.941837°)
LATITUDE = 32°08'57.59" (32.149330°) LONGITUDE = -103°56'31.66" (-103.942128°) NAD 27	LATITUDE = 32°08'57.59" (32.149331°) LONGITUDE = -103°56'30.96" (-103.941934°) NAD 27	LATITUDE = 32°08'57.59" (32.149332°) LONGITUDE = -103°56'30.61" (-103.941837°) NAD 27
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LATITUDE = 32°08'57.59" (32.149330°) LONGITUDE = -103°56'31.66" (-103.942128°) <b>NAD 27</b> LATITUDE = 32°08'57.14" (32.149206°) LONGITUDE = -103°56'29.92" (-103.941643°) <b>STATE PLANE NAD 83 (N.M. EAST)</b>	LATITUDE = 32°08'57.59" (32.149331°) LONGITUDE = -103°56'30.96" (-103.941934°) NAD 27 LATITUDE = 32°08'57.15" (32.149207°) LONGITUDE = -103°56'29.22" (-103.941449°) STATE PLANE NAD 83 (N.M. EAST)	LATITUDE = 32°08'57.59" (32.149332°) LONGITUDE = -103°56'30.61" (-103.941837°) NAD 27 LATITUDE = 32°08'57.15" (32.149208°) LONGITUDE = -103°56'28.87" (-103.941353°) STATE PLANE NAD 83 (N.M. EAST)
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LATITUDE = 32°08'57.59" (32.149330°) LONGITUDE = -103°56'31.66" (-103.942128°) NAD 27 LATITUDE = 32°08'57.14" (32.149206°) LONGITUDE = -103°56'29.92" (-103.941643°) STATE PLANE NAD 83 (N.M. EAST) N: 418281.60" E: 662409.88' STATE PLANE NAD 27 (N.M. EAST) N: 418223.22' E: 621225.21'	LATITUDE = 32°08'57.59" (32.149331°) LONGITUDE = -103°56'30.96" (-103.941934°) <b>NAD 27</b> LATITUDE = 32°08'57.15" (32.149207°) LONGITUDE = -103°56'29.22" (-103.941449°) <b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 418282.24" E: 662469.87" <b>STATE PLANE NAD 27 (N.M. EAST)</b>	LATITUDE = 32°08'57.59" (32.149332°) LONGITUDE = -103°56'30.61" (-103.941837°) NAD 27 LATITUDE = 32°08'57.15" (32.149208°) LONGITUDE = -103°56'28.87" (-103.941353°) STATE PLANE NAD 83 (N.M. EAST) N: 418282.56' E: 662499.86' STATE PLANE NAD 27 (N.M. EAST)
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LATITUDE = 32°08'57.59" (32.149330°) LONGITUDE = -103°56'31.66" (-103.942128°) NAD 27 LATITUDE = 32°08'57.14" (32.149206°) LONGITUDE = -103°56'29.92" (-103.941643°) STATE PLANE NAD 83 (N.M. EAST) N: 418281.60" E: 662409.88' STATE PLANE NAD 27 (N.M. EAST) N: 418223.22' E: 621225.21' CORRAL GORGE 12-13 FED COM 42H - EL: 3106.5' NAD 83 LATITUDE = 32°08'57.60" (32.149332°) LONGITUDE = -103°56'30.27" (-103.941741°) NAD 27 LATITUDE = 32°08'57.15" (32.149209°) LONGITUDE = -103°56'28.52" (-103.941256°) STATE PLANE NAD 83 (N.M. EAST) N: 418282.88' E: 662529.85'	LATITUDE = 32°08'57.59" (32.149331°) LONGITUDE = -103°56'30.96" (-103.941934°) <b>NAD 27</b> LATITUDE = 32°08'57.15" (32.149207°) LONGITUDE = -103°56'29.22" (-103.941449°) <b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 418282.24" E: 662469.87" <b>STATE PLANE NAD 27 (N.M. EAST)</b>	LATITUDE = 32°08'57.59" (32.149332°) LONGITUDE = -103°56'30.61" (-103.941837°) NAD 27 LATITUDE = 32°08'57.15" (32.149208°) LONGITUDE = -103°56'28.87" (-103.941353°) STATE PLANE NAD 83 (N.M. EAST) N: 418282.56' E: 662499.86' STATE PLANE NAD 27 (N.M. EAST) N: 418224.19' E: 621315.19'
LATITUDE = 32°08'57.59" (32.149330°) LONGITUDE = -103°56'31.66" (-103.942128°) NAD 27 LATITUDE = 32°08'57.14" (32.149206°) LONGITUDE = -103°56'29.92" (-103.941643°) STATE PLANE NAD 83 (N.M. EAST) N: 418281.60' E: 662409.88' STATE PLANE NAD 27 (N.M. EAST) N: 418223.22' E: 621225.21' CORRAL GORGE 12-13 FED COM 42H - EL: 3106.5' NAD 83 LATITUDE = 32°08'57.60" (32.149332°) LONGITUDE = -103°56'30.27" (-103.941741°) NAD 27 LATITUDE = 32°08'57.15" (32.149209°) LONGITUDE = -103°56'28.52" (-103.941256°) STATE PLANE NAD 83 (N.M. EAST) N: 41828.28" E: 662529.85'	LATITUDE = 32°08'57.59" (32.149331°) LONGITUDE = -103°56'30.96" (-103.941934°) <b>NAD 27</b> LATITUDE = 32°08'57.15" (32.149207°) LONGITUDE = -103°56'29.22" (-103.941449°) <b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 418282.24" E: 662469.87" <b>STATE PLANE NAD 27 (N.M. EAST)</b>	LATITUDE = 32°08'57.59" (32.149332°) LONGITUDE = -103°56'30.61" (-103.941837°) NAD 27 LATITUDE = 32°08'57.15" (32.149208°) LONGITUDE = -103°56'28.87" (-103.941353°) STATE PLANE NAD 83 (N.M. EAST) N: 418282.56' E: 662499.86' STATE PLANE NAD 27 (N.M. EAST) N: 418224.19' E: 621315.19'
LATITUDE = 32°08'57.59" (32.149330°) LONGITUDE = -103°56'31.66" (-103.942128°) NAD 27 LATITUDE = 32°08'57.14" (32.149206°) LONGITUDE = -103°56'29.92" (-103.941643°) STATE PLANE NAD 83 (N.M. EAST) N: 418281.60° E: 662409.88' STATE PLANE NAD 27 (N.M. EAST) N: 418223.22' E: 621225.21' CORRAL GORGE 12-13 FED COM 42H - EL: 3106.5' NAD 83 LATITUDE = 32°08'57.60" (32.149332°) LONGITUDE = -103°56'30.27" (-103.941741°) NAD 27 LATITUDE = 32°08'57.15" (32.149209°) LONGITUDE = -103°56'28.52" (-103.941256°) STATE PLANE NAD 83 (N.M. EAST) N: 418282.88' E: 662529.85'	LATITUDE = 32°08'57.59" (32.149331°) LONGITUDE = -103°56'30.96" (-103.941934°) <b>NAD 27</b> LATITUDE = 32°08'57.15" (32.149207°) LONGITUDE = -103°56'29.22" (-103.941449°) <b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 418282.24" E: 662469.87" <b>STATE PLANE NAD 27 (N.M. EAST)</b>	LATITUDE = 32°08'57.59" (32.149332°) LONGITUDE = -103°56'30.61" (-103.941837°) <b>NAD 27</b> LATITUDE = 32°08'57.15" (32.149208°) LONGITUDE = -103°56'28.87" (-103.941353°) <b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 418282.56' E: 662499.86' <b>STATE PLANE NAD 27 (N.M. EAST)</b>

BUC, 09 0 ONAL

Sheet 2 of 3

- NOTES: Underground utilities shown on this sheet are for visualization purposes only, actual locations to be
- determined prior to construction. Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83) OXY USA INC. personnel to provide any site specific requirements needed at the time of construction.



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

CEDCAN\_25S29E\_1205 NE 1/4 NW 1/4, SECTION 12, T25S, R29E, N.M.P.M. EDDY COUNTY, NEW MEXICO

**OXY USA INC.** 

SURVEYED BY	C.T., K.H.	08-10-23	SCALE		
DRAWN BY	N.R.	09-07-23	N/A		
SITE PLAN					

2 - EL: 3102.4'	4 - EL: 3095.3'	5 - EL: 3100.7'	6 - EL: 3100.2'
NAD 83	NAD 83	NAD 83	NAD 83
LATITUDE = $32^{\circ}08'55.39''$ ( $32.148718^{\circ}$ )	LATITUDE = $32^{\circ}09'00.18''$ ( $32.150051^{\circ}$ )	LATITUDE = $32^{\circ}09'00.20''$ ( $32.150057^{\circ}$ )	LATITUDE = $32^{\circ}09'01.19''$ ( $32.150332^{\circ}$ )
LONGITUDE = $-103^{\circ}56'35.77''$ (-103.943270°)	LONGITUDE = $-103^{\circ}56'35.81"$ ( $-103.943281^{\circ}$ )	LONGITUDE = $-103^{\circ}56'32.61'' (-103.942393^{\circ})$	LONGITUDE = $-103^{\circ}56'32.62"$ (-103.942395°)
NAD 27	NAD 27	NAD 27	NAD 27
LATITUDE = $32^{\circ}08'54.94''$ ( $32.148595^{\circ}$ )	LATITUDE = $32^{\circ}08'59.74''$ ( $32.149928^{\circ}$ )	LATITUDE = $32^{\circ}08'59.76''$ ( $32.149933^{\circ}$ )	LATITUDE = $32^{\circ}09'00.75''$ ( $32.150208^{\circ}$ )
LONGITUDE = $-32^{\circ} 08^{\circ} 34.94^{\circ} (32.148395^{\circ})$ LONGITUDE = $-103^{\circ} 56^{\circ} 34.03^{\circ} (-103.942785^{\circ})$	LONGITUDE = $-103^{\circ}56'34.07''$ (-103.942796°)	LONGITUDE = $-103^{\circ}56'30.87''$ (-103.941908°)	LATITUDE = $-32.0900.73^{\circ}$ ( $32.130208^{\circ}$ ) LONGITUDE = $-103^{\circ}56'30.88''$ ( $-103.941910^{\circ}$ )
<b>STATE PLANE NAD 83 (N.M. EAST)</b>	<b>STATE PLANE NAD 83 (N.M. EAST)</b>	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 418057.86' E: 662057.33'	N: 418542.73' E: 662052.15'		N: 418645.65' E: 662326.00'
		N: 418545.67' E: 662327.07'	
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 417999.49' E: 620872.66'	N: 418484.35' E: 620867.49'	N: 418487.29' E: 621142.41'	N: 418587.26' E: 621141.34'
7 - EL: 3105.3'	8 - EL: 3104.8'	9 - EL: 3108.2'	11 - EL: 3112.3'
NAD 83	NAD 83	NAD 83	NAD 83
LATITUDE = 32°09'01.21" (32.150336°)	LATITUDE = 32°09'00.22" (32.150062°)	LATITUDE = 32°09'00.23" (32.150064°)	LATITUDE = 32°08'55.43" (32.148731°)
LONGITUDE = -103°56'29.71" (-103.941587°)	LONGITUDE = -103°56'29.71" (-103.941585°)	LONGITUDE = -103°56'28.19" (-103.941165°)	LONGITUDE = $-103^{\circ}56'28.15''$ ( $-103.941154^{\circ}$ )
NAD 27	NAD 27	NAD 27	NAD 27
LATITUDE = $32^{\circ}09'00.77''$ ( $32.150213^{\circ}$ )	LATITUDE = $32^{\circ}08'59.78''$ ( $32.149938^{\circ}$ )	LATITUDE = $32^{\circ}08'59.79''$ ( $32.149940^{\circ}$ )	LATITUDE = $32^{\circ}08'54.99''$ ( $32.148607^{\circ}$ )
LONGITUDE = $-103^{\circ}56'27.97''$ ( $-103.941102^{\circ}$ )	LONGITUDE = $-103^{\circ}56'27.96''$ ( $-103.941100^{\circ}$ )	LONGITUDE = $-103°56'26.45'' (-103.940680°)$	LONGITUDE = $-103^{\circ}56'26.41''$ ( $-103.940669^{\circ}$ )
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 418648.32' E: 662575.94'	N: 418548.35' E: 662577.01'	N: 418549.73' E: 662706.97'	N: 418064.86' E: 662712.16'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 418589.94' E: 621391.28'	N: 418489.96' E: 621392.34'	N: 418491.35' E: 621522.31'	N: 418006.49' E: 621527.48'
BEGIN ACCESS ROAD "A" - EL: 3111.6'	PI #1 ACCESS ROAD "A" - EL: 3109.5'	PI #2 ACCESS ROAD "A" - EL: 3107.7'	END ACCESS ROAD "A" - EL: 3108.2'
NAD 83	NAD 83	NAD 83	NAD 83
LATITUDE = 32°09'05.14" (32.151427°)	LATITUDE = 32°09'02.94" (32.150818°)	LATITUDE = 32°09'00.72" (32.150201°)	LATITUDE = 32°09'00.23" (32.150064°)
LONGITUDE = -103°56'28.34" (-103.941205°)	LONGITUDE = -103°56'28.84" (-103.941344°)	LONGITUDE = -103°56'28.31" (-103.941198°)	LONGITUDE = -103°56'28.31" (-103.941197°)
NAD 27	NAD 27	NAD 27	NAD 27
LATITUDE = 32°09'04.69" (32.151303°)	LATITUDE = 32°09'02.50" (32.150694°)	LATITUDE = 32°09'00.28" (32.150078°)	LATITUDE = 32°08'59.78" (32.149940°)
LONGITUDE = -103°56'26.59" (-103.940721°)	LONGITUDE = -103°56'27.09" (-103.940859°)	LONGITUDE = -103°56'26.57" (-103.940713°)	LONGITUDE = -103°56'26.57" (-103.940713°)
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 419045.40' E: 662692.67'	N: 418823.72' E: 662650.49'	N: 418599.58' E: 662696.50'	N: 418549.63' E: 662696.95'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 418987.01' E: 621508.02'	N: 418765.33' E: 621465.84'	N: 418541.20' E: 621511.83'	N: 418491.25' E: 621512.28'
BEGIN ACCESS ROAD "B" - EL: 3096.2'	PI #1 ACCESS ROAD "B" - EL: 3095.8'	END ACCESS ROAD "B" - EL: 3095.4'	
NAD 83	NAD 83	END ACCESS ROAD B - EL: 3095.4 NAD 83	
LATITUDE = $32^{\circ}09'04.86'' (32.151351^{\circ})$	LATITUDE = $32^{\circ}09'04.24''$ ( $32.151177^{\circ}$ )	LATITUDE = $32^{\circ}09'00.19''$ ( $32.150052^{\circ}$ )	
LONGITUDE = $-103^{\circ}56'34.41'' (-103.942891^{\circ})$	LONGITUDE = $-103^{\circ}56'34.40''$ (-103.942889°)	LONGITUDE = $-103^{\circ}56'35.69"$ (-103.943248°)	
NAD 27	NAD 27	NAD 27	
LATITUDE = $32^{\circ}09'04.42''$ ( $32.151228^{\circ}$ )	LATITUDE = $32^{\circ}09'03.79''$ ( $32.151053^{\circ}$ )	LATITUDE = $32^{\circ}08'59.74'' (32.149928^{\circ})$	
LONGITUDE = $-103^{\circ}56'32.66''$ (-103.942406°)	LONGITUDE = $-103^{\circ}56'32.65''$ ( $-103.942404^{\circ}$ )	LONGITUDE = $-103^{\circ}56'33.95''$ (-103.942763°)	
<b>STATE PLANE NAD 83 (N.M. EAST)</b>	<b>STATE PLANE NAD 83 (N.M. EAST)</b>	<b>STATE PLANE NAD 83 (N.M. EAST)</b>	
N: 419016.05' E: 662171.25'	N: 418952.71' E: 662172.13'	N: 418542.84' E: 662062.31'	
STATE PLANE NAD 27 (N.M. EAST)	N: 418952.71 E: 002172.13 STATE PLANE NAD 27 (N.M. EAST)	<b>STATE PLANE NAD 27 (N.M. EAST)</b>	
N: 418957.66' E: 620986.61'	N: 418894.32' E: 620987.48'	N: 418484.46' E: 620877.65'	
IN. 410957.00 E: 020980.01	IN. 410094.32 E: 020987.48	IN. 410404.40 E: 0208/7.00	



#### NOTES:

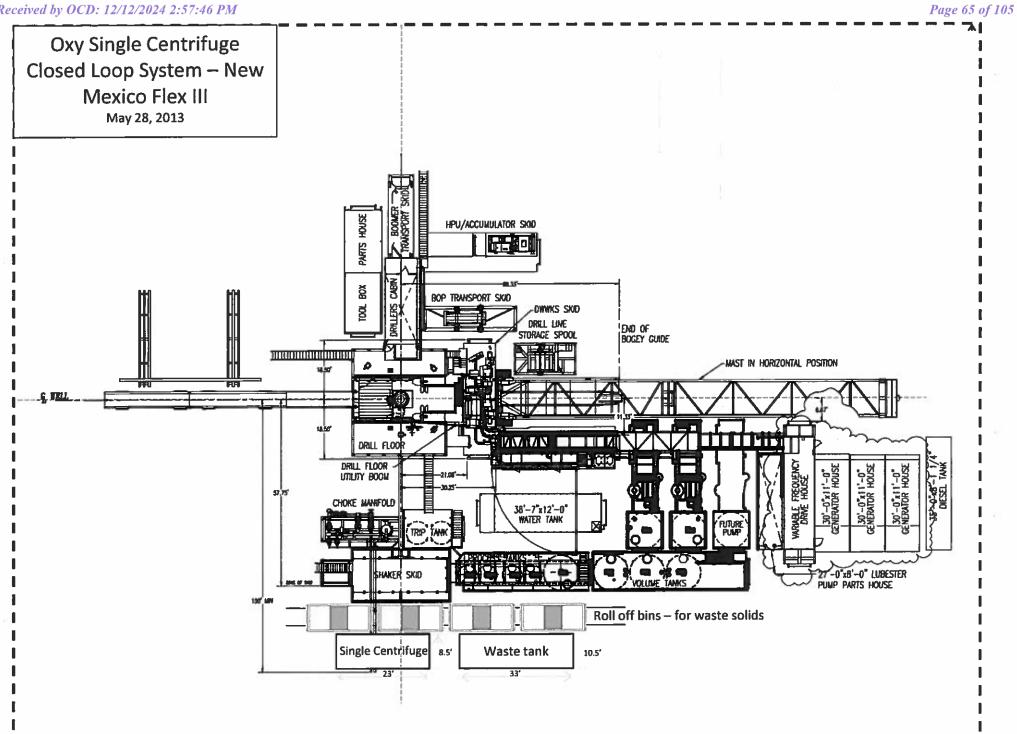
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be
- determined prior to construction. Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83) OXY USA INC. personnel to provide any site specific requirements needed at the time of construction.

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

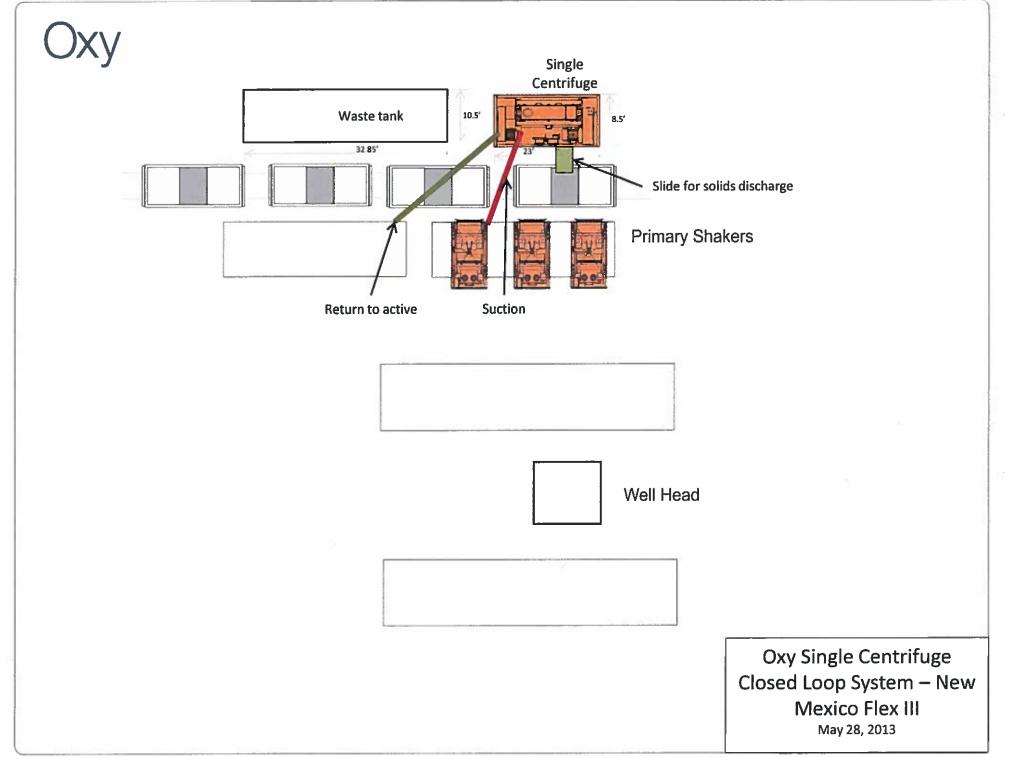
CEDCAN\_25S29E\_1205 NE 1/4 NW 1/4, SECTION 12, T25S, R29E, N.M.P.M. EDDY COUNTY, NEW MEXICO

**OXY USA INC.** 

SURVEYED BY	С.Т., К.Н.	08-10-23	SCALE		
DRAWN BY	N.R.	09-07-23	N/A		
SITE PLAN					

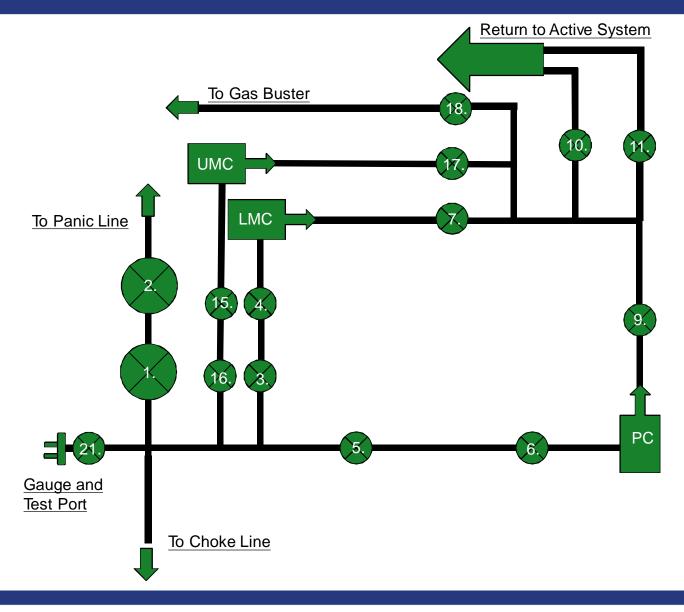


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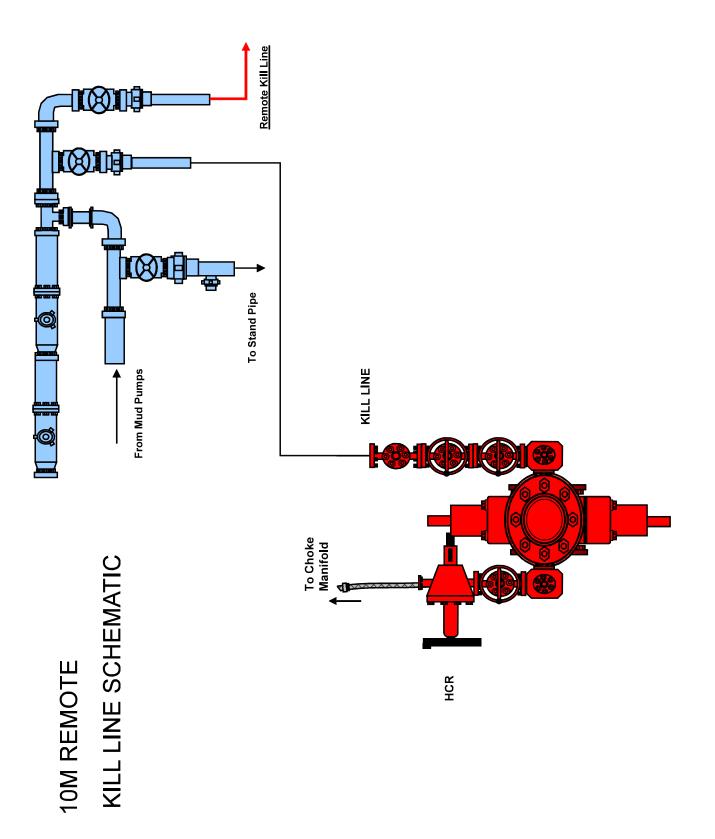
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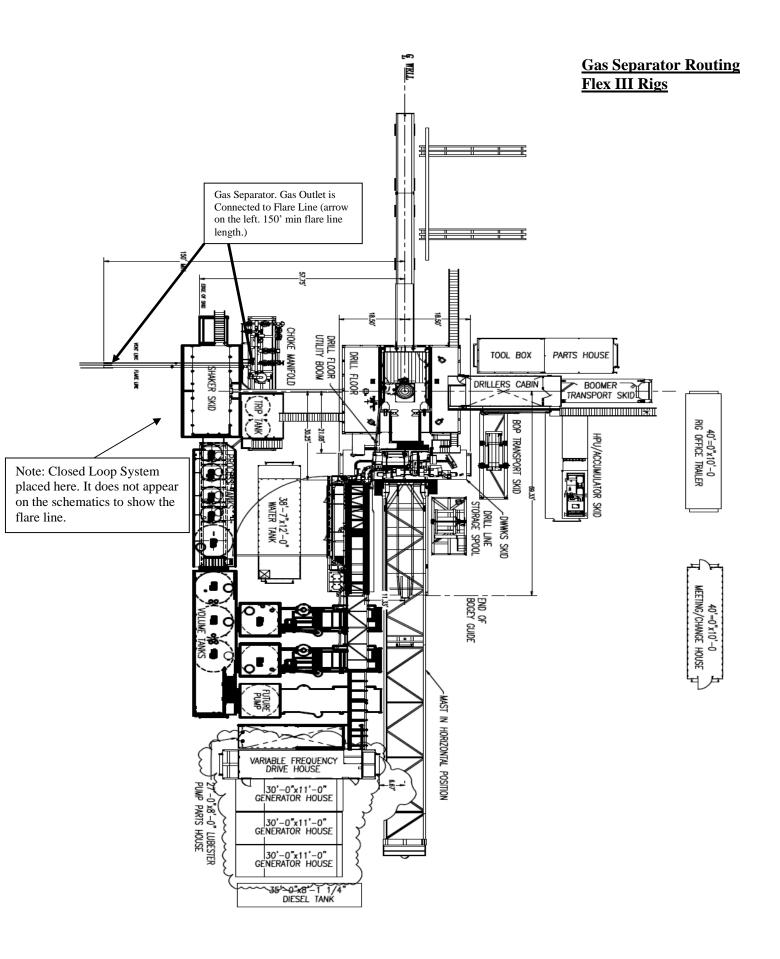
# 10M Choke Panel

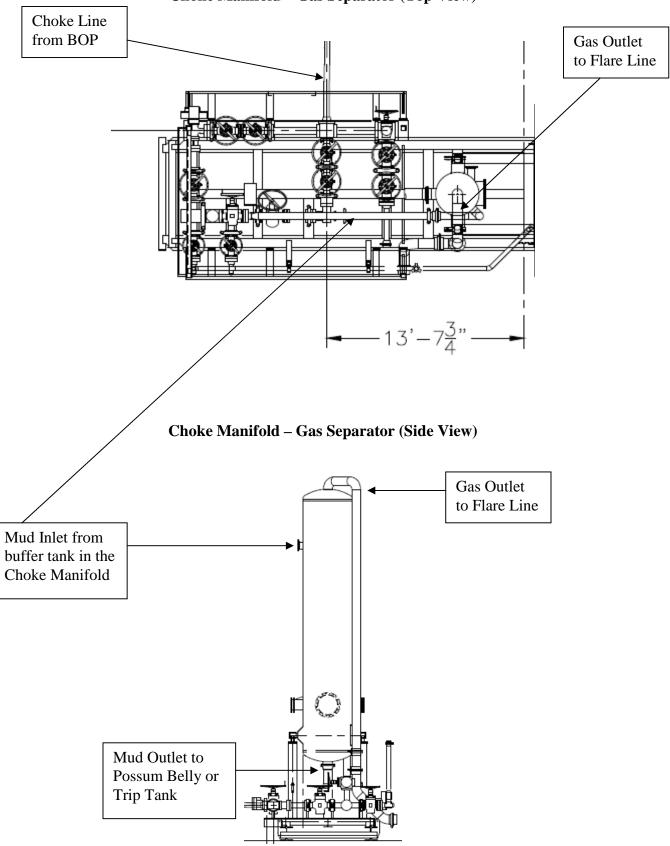


- 1. Choke Manifold Valve
- 2. Choke Manifold Valve
- 3. Choke Manifold Valve
- 4. Choke Manifold Valve
- 5. Choke Manifold Valve
- 6. Choke Manifold Valve
- 7. Choke Manifold Valve
- 8. PC Power Choke
- 9. Choke Manifold Valve
- 10. Choke Manifold Valve
- 11. Choke Manifold Valve
- 12. LMC Lower Manual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









# 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

.

60

## Ontinental 3

#### Hydrostatic Test Certificate

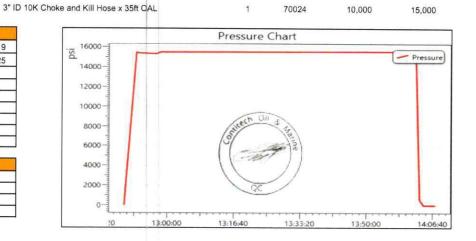
Certificate Number H100161	COM Order Reference 1429702		Conti Customer Name & Address HELMERICH & PAYNE DRILLING CO
Customer Purchase Order No:	7403823	384	1434 SOUTH BOULDER AVE TULSA, OK 74119
Project:			USA
Test Center Address	A	ccepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Date:	Gerson Mejia-Lazo	B

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 In	formation
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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120001

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.

5	:# JAIA3	42-112019-4
כ כ	:YTITNAUC	τ
S	:# ABORD 2314	286915
		CLAMPS
d	:NOIT9I82230 T8A	RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE
		ZRIMOR C/W 4 1/16 10K FIX X FLOAT H2S SUITED FLANGES WITH BX 155
	:N/4 AAMOT2U	3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL
	:#.O.9 293MOT2U	4128128 (RIG 1 PO 002773)
C	:USTOMER:	<b>320H NITZUA ABO DNI NITZUA 5-A</b>

6T0Z/0Z/TT	
AURANCEA YTIJAUO	דודנב:
Norma Orby	SIGNATURE:

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

PHONE: (281) 602 - 4119 FAX: EMAIL: Troy.Schmidt@gates.com WEB: www.gates.com

### PRESSURE TEST CERTIFICATE

, nM ret2 alrea0	6716286-01060689	:9boD yldm922A	F41545 113018
:1 pritting br3	4 1/16 10K FLANGES FIXED	End Fitting 2:	TAOJE 250NAJE X01 81/1 P
Product Description:	3" X 12 FT GATES CHOKE & KILL HOSE ASSEMB FLANGES WITH BX 155 RING GROOV	VE SUPPLIED WITH STEEL ARM VE SUPPLIED WITH SAFETY CLAN	APS & SLINGS & LIFT EYE CLAMPS OR C/W 4 1/16 TOK FIX X FLOAT H2S SUITED
:.oN ecion	286915	Created By:	
Lustomer Ref.: Invoice No.:			H2-112019-4 Norma Cabrera

Working Pressure:

Test Pressure:

#### Gates Engineering & Services North America certifies that:

10KFR3.012.0CK411610KFIXXFLT SSA SC LE

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

i sinatonici : Signatonici : S
Date :
:VilleuQ
-

E-PRD-005

CUSTOMER P/N:



EFOS/02/11

'ISd 000'0T

'ISd 000'SI

72-1987

M9 70:51:51 2202/02/11



BJEC	10 T2:	L

<b>1991</b>	75	rength:	
		Description:	
		Part number:	
<b>XOT 9T/</b>	3.0 × 4-1	Fitting 2:	
		Description:	
		Part number:	
<b>XOT 9T/</b>	1-4 × 0.5	Fitting 1:	
		Part number:	
NS C&K	3.0 10k n	:OI 920H	
		Description:	
<b>STOET</b>	1242147	rot number:	
17-6T	OZTT-ZH	Serial number:	
		TEST OBJECT	

	8		1 mm
1		REF	
	I & <i>3</i> &		and the second second

	NOITAMROHNI TZET
	Customer reference:
286915	Sales order #:
	Production description:
seo niteu A	company:
	CUSTOMER

Length difference: 0.24 Length difference: 00.00 Work pressure hold: 00.009 **Mork pressure:** 00'05/6 Test pressure hold: 3600.00 00'000ST :eaussead aset :enubeconq feat E20-40-219

inch

%

Sec

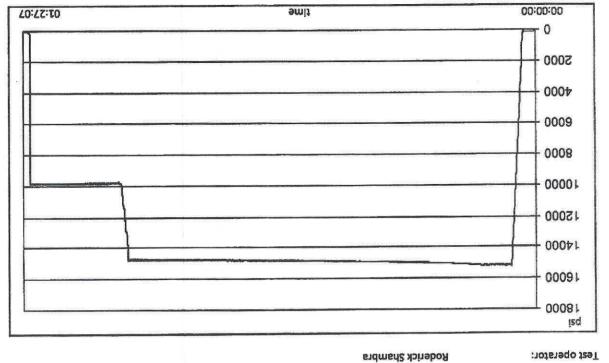
isd

295

isd

Length measurement result: Pressure test result: **PASS** 

Visual check:



Page 1/2

Filename: D:/Certificates/Report\_112019-H.212019-4.pdf

## 72-1987

M9 70:51:51 8202/02/11

## **TEST REPORT**



#### **GAUGE TRACEABILITY**

Calibration due date	Calibration date	Serial number	Description
5050-03-72	2079-03-17	TIOAMCLO	M-A-22-2
5050-04-14	5013-04-16	TIOAPOZK	W-A-22-2

Trammod

Page 2/2

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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, 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

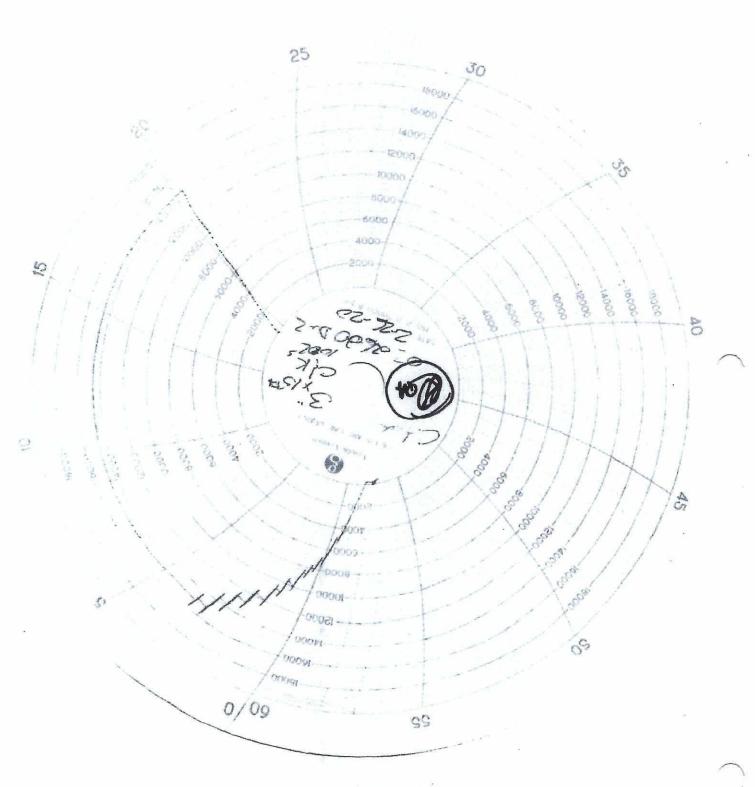
SNOING BEIM	C/M CI 3% T0'000 bzi M	Part Description	1005-4 O <del>V-2040-4812-</del>	Customer Part Number:	Purchase
07/56/2020	Assembly Date:		t	QTY Ordered:	ise Order
052620DW-2	Serial Number:	1-2002-4	84-0492-40	Part Number: DW Industries	
50050763	DW Industries Work Order Number:		CONTACT PAULI INF	Customer: Purchase Order Number:	Information
	432-247 6401 HOI	Contact: Contact:			Customer Vame:

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

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

FLOAT FLANGES	3° 10,000 psi W 4-1/16° FIXED BY С/W SS ARMOR	Part Description:	1/16FXFL-ALE OA-5640-4822-4-	Customer Part Number:	Purcha	
07/36/2020	Assembly Date:		T	QTY Ordered:	se Ord	
T-M0029220	Serial Number:	PW Industries OA-5640-4822-4-1/16FXFL-ALE		OA-5640-4822-4-1/16FXFL-ALE		ier Info
<b>70020164</b>	OW Industries Work Order Number:	1	SONTACT PAUL HOFFMAN FOR INFO		Purchase Order Information	
PAUL HOFFMAN 0352-241-5360		Contact: Customer				

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

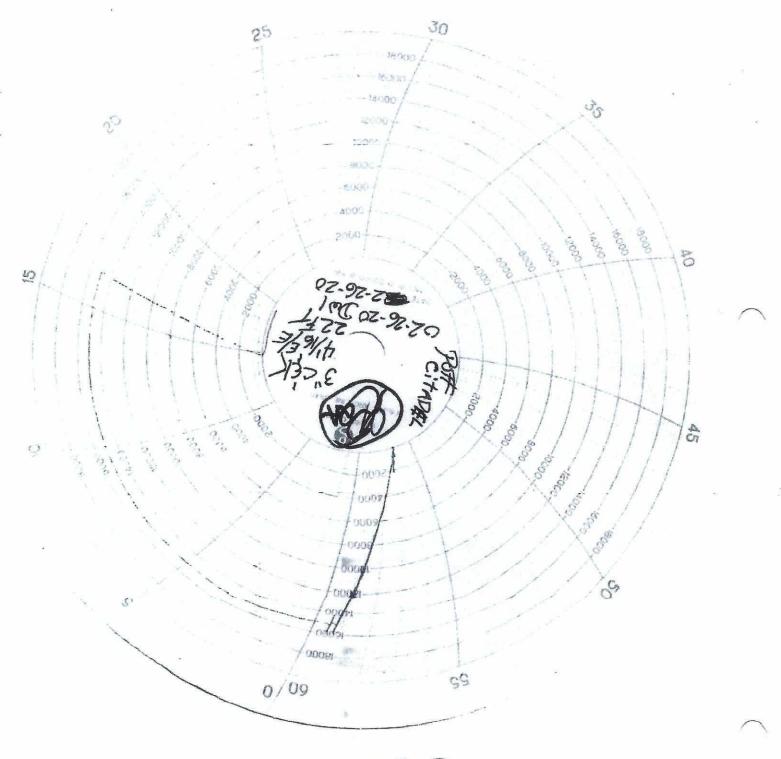
DW Industries Inc.

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 COS WXI	י/M אנ "אנצע" זא שיי איי אנאיי	Part Description		Customer Part Number:	Purcha	
£202/L2/T	Assembly Date:		Ţ	QTY Ordered:	se Ord	
59007082	Serial Number:	709- <i>"</i> †ST†	9-850329-AO	Part Number:	ler Info	
59007082	DW Industries Work Order Number:	LL	670200	Customer: Purchase Order: Number:	Purchase Order Information	
АЯЗ	η το	rəmoten) Contact:	<b>JEOH NITURA</b>		Vamer Customer	

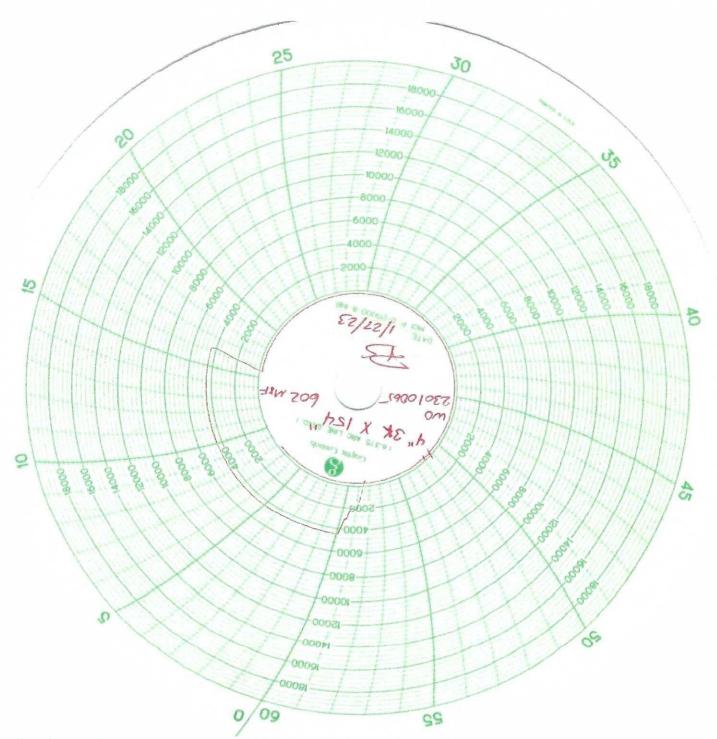
I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL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

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Certificate Issue Date: 1/27/2023

Quality Assurance, DW Industries, Inc.

QF-018-OF, Rev New Rev Date: 12/17/2019



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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 H25 ITH STAINLESS STEEL ARMC	S SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT DR SAFETY CLAMPS & LIFT EYES
End Fitting 1: Oracle Star No.:	4 1/16 10K FIXED FLANGE 68703010-10074881	End Fitting 2:	4 1/16 10K FLOAT HEAT TREATED FLANGES
CUSTOMER P/N:	10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE	Assembly Code: Test Pressure:	L41975 091719
		Working Pressure:	15,000 PSI. 10,000 PSI.
The following hose specifications: GTS assemblies), which test graph will acc	ng & Services North America cert e assembly has successfully passed all S-04-052 (for 5K assemblies) or GTS-0 n include reference to Specification AP company this test certificate to illustrat	pressure testing required 04-053 (10K assembli I 16C (2nd Edition); e conformity to test r	es) or GTS-04-048 (15K sections 7.5.4, 7.5.9, and 10.8.7. A requirements. This hose assembly
was pressure teste	ed using equipment and instrumentation forth in the GESNA management system	on that has been calil	brated in accordance with the
Quality:	QUALITY	Production:	PBODUCTION
Date : Signature :	10/15/2021 //10/4 N. kul	Date : Signature :	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:	Malex when	
TITLE:	QUALITY ASSURANCE	
DATE:	10/15/2021	



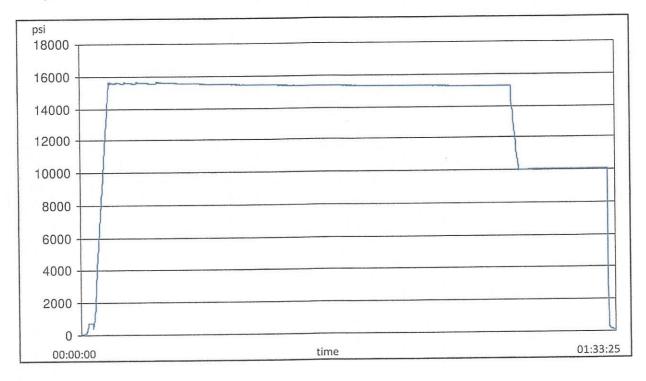
## **TEST REPORT**

H3-6963

.9
10K
10K
feet

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			

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## Ontine Page 87 of 105

ContiTech

## Hydrostatic Test Certificate

	Customer Name & Address
COM Order Reference 1429702 740382384	HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119
	USA
	Accepted by Client Inspection
Accepted by COM Inspection	T CON OPTION OF
Signed: Date: 07/14/22	
	740382384 Accepted by COM Inspection Signed: Gerson Mejia-Lazo

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)	
		272 QA	1	70025	10,000	15,000	60	

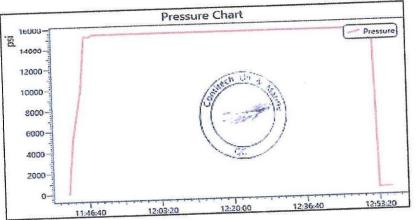
RECERTIFICATION 50

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

70025 1

and the second se	1
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 88 of 105 Ontinenta

ContiTech

## **Certificate of Conformity**

Certificate Number	COM Order Reference	Customer Name & Address
H100163	1429702	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: 07/14/22	

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.

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

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

ContiTech

	QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N	0:	75819	
PURCHASER:	ContiTech (	Dil & Marine C	Marine Corp.		P.O. Nº:		4501225327	
CONTITECH RUBBER order N°	CONTITECH RUBBER order Nº: 1127442			ID		Choke an	d Kill Hose	
HOSE SERIAL Nº:	75819	NOMINAL / ACT	TUAL LE	ENGTH:		10,67 r	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								
COUPLINGS Typ	8	Serial	N°		Qu	ality	Heat N°	
3" coupling with		6020	6		AISI	4130	A0607J	
4 1/16" 10K API Swivel Fi	ange end				AISI	4130	040841	
Hub				A		4130	54194	
3" coupling with		6016	6	AIS		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 <sup>nd</sup> 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: 09. April 2019. Date: 09. April 2019. 00. April 2019. 0.				)				

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

Prepared by	(	Cristian Rivera		Date:	8/27/2022		QIN:	N/A	
Customer:	HEL	MERICH & PAYNE, INC		Location:	H&P INT'	L DI		) 210 MAGNOLIA DR GALEN X,77547-2738	A
User contact:	М	ITCH MCKINNIS		Phone:			e-mail:	mitch.mckinnis@hp	pinc.com
	Parameters			Но	ose Detai	ils	Test Status		
	PO		740398454 (88000240   SN:70035)						
		Gates SO			525035				
		Serial #:			88000240   SN:70035				
		As Tested Seria	1:		H2-082722-1 RE-TEST				
	Hose ID:			3 IN					
Hose 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								<b></b>
Informatio	n	Working pressu	ıre	:	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.

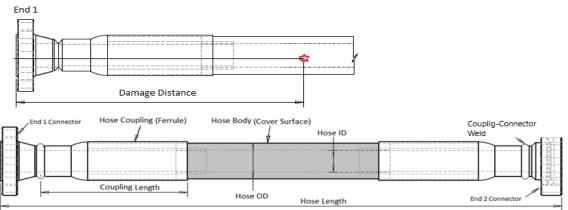
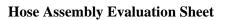


Figure 1: Generic Hose Assembly

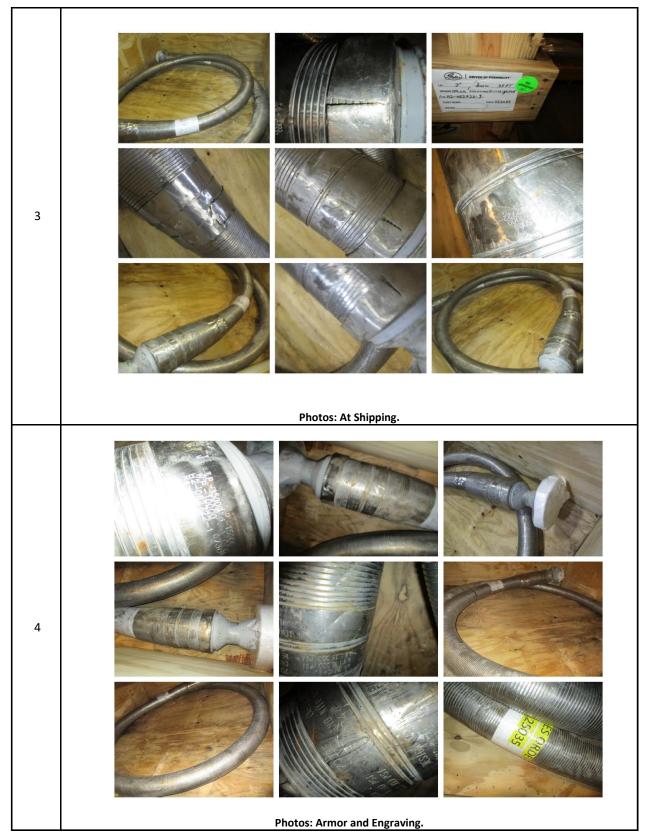
#### **1.0** Observations and comments









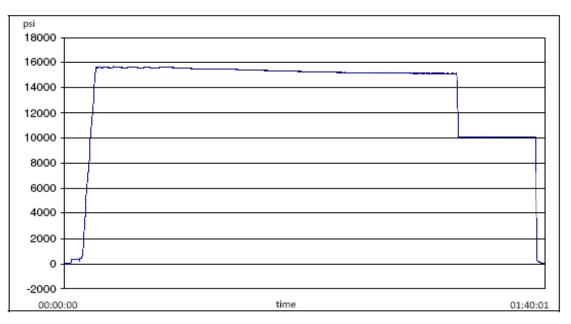








### 2. Hydro Static Pressure test



#### 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 Orozco		
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 <sup>(1)</sup>	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

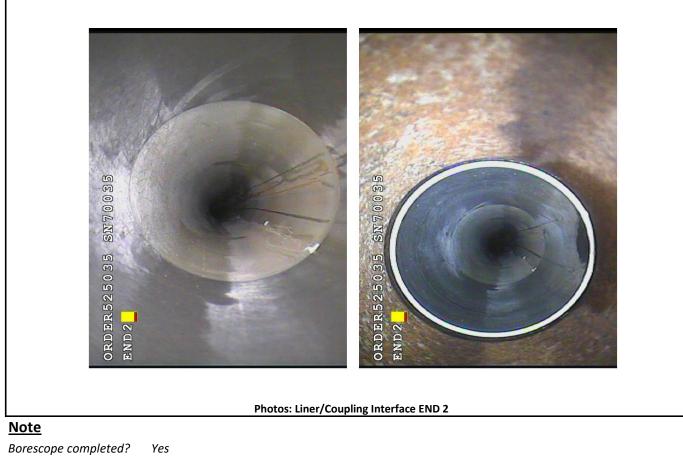
#### **3.2 Internal Failure Details**

	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





#### 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**

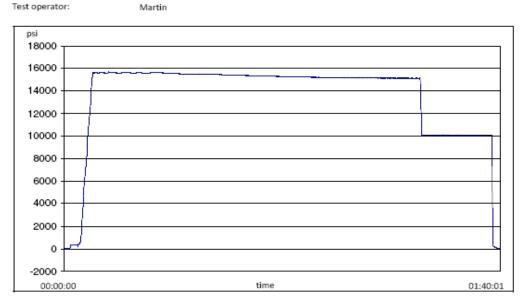
#### H2-8316

8/27/2022 8:51:22 AM

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 10	)K
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 10	)K
Length difference:	0.00	%	Part number:		
Length difference:	0.00	inch	Description:		
Visual check:			Length:	35 f	feet
Pressure test result:	PASS				
Length measurement result:					

**TEST REPORT** 

Test operator:



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#### 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			

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Hose Assembly Evaluation Sheet



APPENDIX 2: Certificate of Conformance



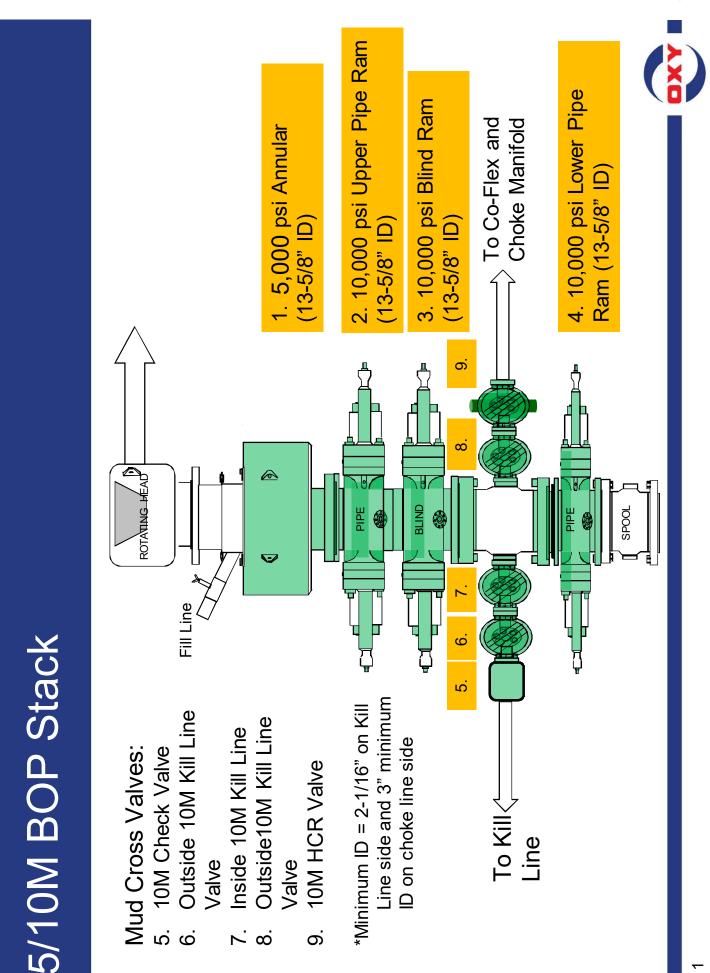
GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairie Oak Dr. Houston, TX. 77086 PHONE: +1 (281) 602-4100 FAX: +1 (281) 602-4147 EMAIL: gesna.quality@gates.com WEB: www.gates.com/ollandgas

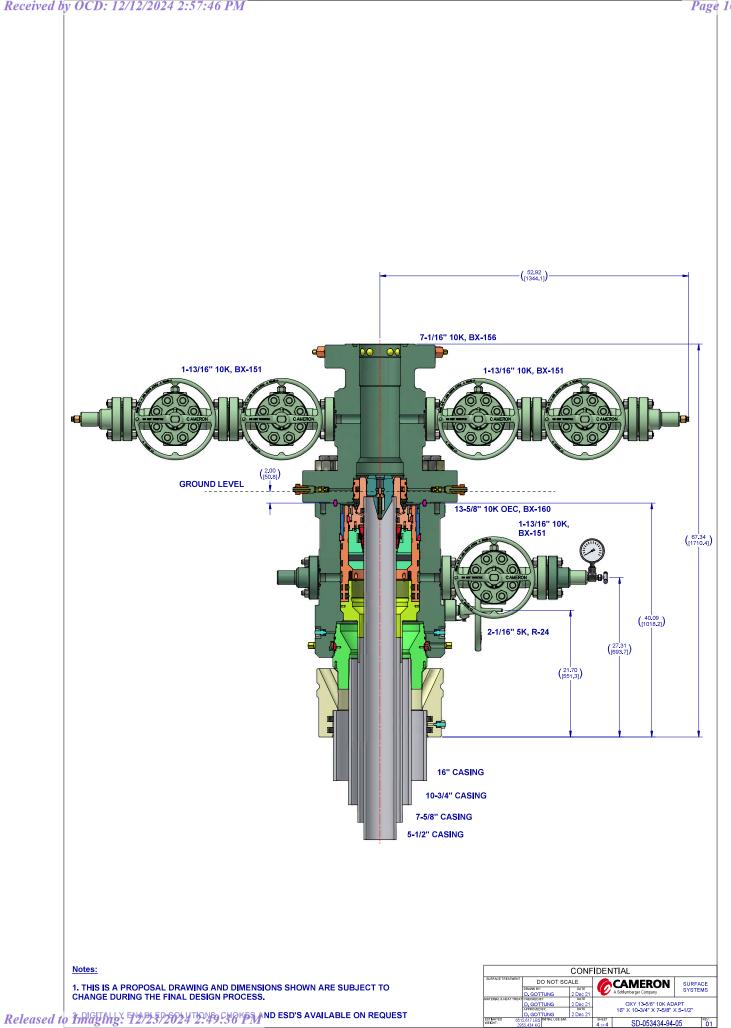
### **CERTIFICATE OF CONFORMANCE**

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

# TenarisHydril Wedge 463<sup>®</sup>



Pipe Body
Grade: P110-S
1st Band: White
2nd Band: Orange
3rd Band: -
4th Band: -
5th Band: -
6th Band: -

Outside Diameter	7.827 in.	Wall Thickness	0.500 in.	Grade	P110-S
Min. Wall Thickness	87.50 %	Pipe Body Drift	Special Drift	Туре	Casing
Connection OD Option	REGULAR				

#### Pipe Body Data

Geometry	
Nominal OD	7.827 in.
Nominal Weight	39.30 lb/ft
Drift	6.750 in.
Nominal ID	6.827 in.

Wall Thickness	0.500 in.
Plain End Weight	39.16 lb/ft
OD Tolerance	API

#### Performance

Coupling

Grade: P110-S Body: White 1st Band: Orange 2nd Band: -3rd Band: -

Body Yield Strength	1266 x1000 lb
Min. Internal Yield Pressure	12,300 psi
SMYS	110,000 psi
Collapse Pressure	10,490 psi

#### **Connection Data**

Geometry	
Connection OD	8.500 in.
Coupling Length	10.950 in.
Connection ID	6.814 in.
Make-up Loss	4.520 in.
Threads per inch	3.25
Connection OD Option	Regular

Performance	
Tension Efficiency	100 %
Joint Yield Strength	1266 x1000 lb
Internal Pressure Capacity	12,300 psi
Compression Efficiency	100 %
Compression Strength	1266 x1000 lb
Max. Allowable Bending	64.42 °/100 ft
External Pressure Capacity	10,490 psi
Coupling Face Load	414,177 lb

Make-Up Torques	
Minimum	22,000 ft-lb
Optimum	23,000 ft-lb
Maximum	27,000 ft-lb
Operation Limit Torques	
Operating Torque	61,000 ft-Ib
Operating Torque Yield Torque	61,000 ft-lb 70,000 ft-lb
Yield Torque	

#### Notes

For the lastest performance data, always visit our website: www.tenaris.com For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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PII/CII

#### 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.
- 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.
- $\circ$  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.

## TenarisHydril

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

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	18		

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

21600 ft-lbs

23100 ft-lbs

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 Torque	5
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

11110 psi

**Buck-On Torques** 

Minimum

Maximum

#### Notes

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

Collapse

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	411444	
	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.	12/12/2024
lesliereeves	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/12/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/23/2024
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/23/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/23/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/23/2024

CONDITIONS

Action 411444

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