Form 3160-3 (June 2015)	2			FORM APP OMB No. 10 Expires: Januar	04-0137	
	DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT					
APPLICATION FOR PERMIT TO D	RILL OR	REENTER		6. If Indian, Allotee or T	ribe Name	
1a. Type of work:   DRILL	EENTER			7. If Unit or CA Agreem	ent, Name and No.	
	ther ingle Zone	Multiple Zone		8. Lease Name and Well	No.	
2. Name of Operator				9. API Well No. 30-01	5-56855	
3a. Address	3b. Phone N	No. (include area cod	le)	10. Field and Pool, or E	xploratory	
4. Location of Well <i>(Report location clearly and in accordance w</i> At surface At proposed prod. zone	with any State	e requirements.*)		11. Sec., T. R. M. or Blk	and Survey or Area	
14. Distance in miles and direction from nearest town or post off	ìce*			12. County or Parish	13. State	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)				ng Unit dedicated to this w	vell	
<ol> <li>18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	19. Propose	9. Proposed Depth 20. BLM/BIA Bon				
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	imate date work will	start*	23. Estimated duration		
	24. Attac	chments				
The following, completed in accordance with the requirements o (as applicable)	f Onshore Oil	and Gas Order No.	l, and the I	Hydraulic Fracturing rule p	per 43 CFR 3162.3-3	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>		Item 20 above).	-	ns unless covered by an exi	sting bond on file (see	
3. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office		5. Operator certific 6. Such other site sp BLM.		rmation and/or plans as may	be requested by the	
25. Signature	Name	Date (Printed/Typed)		ie		
Title				I		
Approved by (Signature)		Name (Printed/Typed)		Dat	ie	
Title	Office					
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds legal	or equitable title to the	hose rights	in the subject lease which	would entitle the	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements					lepartment or agency	
			0.870			



(Continued on page 2)

.

#### **Additional Operator Remarks**

#### **Location of Well**

0. SHL: NESW / 2583 FSL / 1776 FWL / TWSP: 21S / RANGE: 31E / SECTION: 36 / LAT: 32.4348892 / LONG: -103.7342983 (TVD: 0 feet, MD: 0 feet ) PPP: NWSW / 2543 FSL / 600 FWL / TWSP: 21S / RANGE: 31E / SECTION: 36 / LAT: 32.4347826 / LONG: -103.7381109 (TVD: 10450 feet, MD: 10905 feet ) PPP: NWSW / 2630 FNL / 599 FWL / TWSP: 22S / RANGE: 31E / SECTION: 1 / LAT: 32.420566 / LONG: -103.7381164 (TVD: 10450 feet, MD: 15553 feet ) BHL: SWSW / 20 FSL / 600 FWL / TWSP: 22S / RANGE: 31E / SECTION: 1 / LAT: 32.4133595 / LONG: -103.7381193 (TVD: 10450 feet, MD: 18175 feet )

#### **BLM Point of Contact**

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

<u>C-102</u>

Submit Electronically Via OCD Permitting

## State of New Mexico Energy, Minerals, & Natural Resources Department OIL CONSERVATION DIVISION

Revised July 9, 2024 PAGE 1 OF 2

JANUARY 09, 2025

					WELL LOCATIO	N INFORMATION				
API Nu 20	<sup>mber</sup> 015-50	00 <i>EE</i>	Pool Code <b>5697</b>	569	95	Pool Name BILBREY B	2701			G
	y Code	0800	Property Na			DILDRETC	ASI	IN, DU	Well Number	9
-	337357		riopenty ru	line	STRESSED DESSE	RTS 36 1 FED COM	1		21H	I
OGRIE			Operator Na	me	STRESSED DESSE	KIS 50_ITED CON	1		Ground Level Elevat	
	1669	6			OXY U	SA INC.			3561	['
Surfac	e Owner:		Fee Tri	ibal	Federal	Mineral Owner:	State	Fee	Tribal 🖌 Federal	
				<u> </u>	Sunface	Leastion	-			
UL	Section	Township	Range	Lot	Ft. from N/S	Location Ft. from E/W	Latitu	de (NAD83)	Longitude (NAD83)	County
Κ	36	21S	31E		2583' FSL	1776' FWL	32.	43488923	-103.73429829	EDDY
									I.	
UL	Section	Township	Range	Lot	Bottom Ho	le Location Ft. from E/W	Latitu	de (NAD83)	Longitude (NAD83)	County
M	01	22S	31E	201	20' FSL	600' FWL		41335953	-103.73811933	EDDY
101	01	225	JIL		20 1 5L	000 1 WL	52.	+1555755	-105.75811755	LDD1
Dadiaa	ted Acres	Infill or Def	ining Wall	Definie	ng Well API	Overlapping Spacing Unit	+ ( <b>V</b> / <b>N</b> I)		Consolidation Code	
	59.24	INFIL	e	Dennir	ig well API	N	t (Y/N)		Consolidation Code	
Order	Numbers:					Well setbacks are unde	r Comm	on Ownership	p: Yes No	D
					Kick Off F	oint (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitu	de (NAD83)	Longitude (NAD83)	County
L	36	21S	31E		2593' FSL	600' FWL	32.4	43492008	-103.73811104	EDDY
	1		1		Einet Talaa				1	I
UL	Section	Township	Range	Lot	FIrst lake Ft. from N/S	Point (FTP) Ft. from E/W	Latitu	de (NAD83)	Longitude (NAD83)	County
L	36	21S	31E		2543' FSL	600' FWL	32.	43478265	-103.73811098	EDDY
				l	I					
UL	Section	Township	Range	Lot	Ft. from N/S	Point (LTP) Ft. from E/W	Latitu	de (NAD83)	Longitude (NAD83)	County
М	01	228	31E		100' FSL	600' FWL	32.4	41357943	-103.73811915	EDDY
							_			
Unitize	d Area or Are	a of Uniform Int	erest	1				Ground Floor	Elevation	
				Spacin	ng Unit Type: 🛛 🗙 Horiz	ontal Vertical			3561'	
									5501	
OPE	RATOR CE	ERTIFICATIO	ONS			SURVEYOR CERT	TFICAT	TIONS		
					d complete to the best of my	I hereby certify that the w				
					l well, that this organization he land including the	actual surveys made by m the best of my belief.	e or unae	r my supervisio	n, ana that the same is th	ue ana correct to
					t this location pursuant to a al interest, or to a voluntary					
					itered by the division.			ND P.S	Ha	
If this v	vell is a horize	ontal well, I furth	her certify that th	is organi:	zation has received the			WE	MOP/	
each tr	act (in the tar	get pool or form	ation) in which a	ny part oj	unleased mineral interest in <sup>f</sup> the well's completed			SEN ME	te) \	
					from the division.			2165	3	
$\underline{\mathscr{Q}}$	estie S	1. Rei	eves 3/25/2	2025			Lit	ARS.	thory 5	
Signa	ature		Date				$\langle \rangle$	10	151	
LES	LIE REE	VES						STONAL	SUM	
	ed Name									
		EVES@O>				Signature and Seal of	of Profe	ssional Surv	eyor	
	Address					Certificate Number		Date of S	•	

Released to Imaging 6 W39 MP2 assigned to Rimompletion until all interests have been consolidated or a non-standard unit has been approved by the division.

21653

#### Received by OCD: 5/19/2025 10:01:25 AM ACREAGE DEDICATION PLATS STRESSED DESSERTS 36\_1 FED COM 21H

Page 4 of 131



Released to Imaging: 6/20/2025 3:25:47 PM



# SITE PLAN

STRESSED DESSERTS 36\_1 FED COM (LSTTNK\_21S32E\_36\_PAD 01) WELL PAD SEC. 36 TWP. 21-S RGE. 31-E SURVEY: N.M.P.M. COUNTY: EDDY OPERATOR: OXY USA, INC. U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M. FAA PERMIT NEEDED: NO





150'

TIE TABLE CENTERLINE PROPOSED LEASE ROAD SECTION 36 BEARING LINE DISTANCE LINE BEARING DISTANCE TIE-1 S 78°16'06" W 1,589.74 SE/4 OF NW/4 TIF-2 S 29'21'59" W 3,040.05 N 89\*59'06" W L1 49.92 TIE-3 S 15'09'39" E 1.943.87 SE/4 OF NW4 S 00'00'10" W 12 <u>316.</u>17 S 26'37'42" E TIE-4 2,459.61 366.09 22.19 RODS 0.25 AC TIE-5 S 33°59'41" 2,666.33 W NE/4 OF SW/4 L3 S 00°00'10" W 438.79 2" IRON PIPE W/GLO CAP L4 S 00°00'10" W 410.10 FND FOR THE W/4 COR L5 S 89'59'25" E 564.08 11 OF SECTION 36 L6 N 42°22'58" E 118.64 L7 N 89\*56'38" W 50.01 TIE-1 1,581.62 95.85 RODS 1.08 NET AC  $\Box$ SECTION 36 - TOTAL 1.947.71 118.04 RODS 1.33 NET AC ТШ SW/4 OF NE/4 H PROPOSED PROPOSED 20 FOOT LEASE ROAD WITHIN A 30 FOOT ACCESS EASEMENT TT \_21S31E\_36\_PAD\_1 WELL PAD I STTNK 1,897.70 FT. (115.01 RODS), 1.31 ACRES PROPOSED GAS PIPELINES Ľ PROPOSED 20 FOOT LEASE ROAD WITHIN A 30 FOOT ACCESS EASEMENT 50.01 FT. (3.03 RODS), 0.02 NET ACRE NW/4 OF SW/4 NW/4 OF SE/4 NE/4 OF SW/4 V-DOOR SOUTH SECTION 36, T-21-S. R-31-E 4 EXISTING ĪĪ PAD € EXISTING LEASE ROAD 3" IRON PIPE 애 OHP -— ОНР -/ OHP OHP W/GLO CAP FND S. [4] FOR THE SW COR L5 OF SECTION 36 IRON PIPE W/GLO CAP FND FXISTING PAD FOR THE S/4 COR OF SECTION 36 01/03/2024 I, DAVID W. MYERS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 11403 DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEEDNED IN THE NEW MEXICO SURDIVISION ACT AND THAT THIS SURVEY IS AN EASEMENT SUBDIVISION AS 12/20/2023 0 01/03/2024 ANC DATE DRAWN DATE SURVEYED REV. DATE RY CROSSING AN EXISTING TRACT OR TRACTS.

#### BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.999777727 AND A CONVERGENCE ANGLE OF 0.322738518\*.









Released to Imaging: 6/20/2025 3:25:47 PM



#### SITE PLAN STRESSED DESSERTS 36\_1 FED COM (LSTTNK\_21S32E\_36\_PAD 01) WELL PAD SEC. 36 TWP. 21-S RGE. 31-E SURVEY: N.M.P.M. COUNTY: EDDY

SURVEY: N.M.P.M. COUNTY: EDDY OPERATOR: OXY USA, INC. U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M. FAA PERMIT NEEDED: NO



SCALE: 1" = 300'

0

150'



A tract of land being 9.48 acres of land. Said easement being located in Section 36, Township 21 South, Range 31 East, New Mexico Principal Meridian, Eddy County, New Mexico.

Being more particularly described as the following:

#### (SE/4 OF NW/4)

BEGINNING (PLACE OF BEGINNING 1) at a point from which a 2 inch iron pipe with GLO cap found for the West quarter corner of said Section 36 bears S 77°54'54" W a distance of 1,591.81 feet.

THENCE across the said Southeast quarter of the Northwest quarter of Section 36 the following courses and distances: S 89°59'55" E a distance of 485.12 feet, S 00°00'33" W a distance of 274.91 feet, S 89°56'20" E a distance of 100.05 feet, S 00°01'06" W a distance of 48.16 feet, S 89°43'50" W a distance of 585.10 feet and N 00°00'13" W a distance of 325.94 feet to the PLACE OF BEGINNING 1.

The area of the above described proposed permanent easement in the said Southeast quarter of the Northwest quarter of Section 36 containing 3.73 acres of land.

#### (NE/4 OF SW/4)

BEGINNING (PLACE OF BEGINNING 2) at a point from which a 2 inch iron pipe with GLO cap found for the West quarter corner of said Section 36 bears S 89°43'50" W a distance of 1,556.57 feet.

THENCE continuing across the said Northeast quarter of the Southwest quarter of Section 36 the following courses and distances: N 89°43'50" E a distance of 585.10 feet, S 00°01'06" W a distance of 321.76 feet, S 89°59'10" W a distance of 100.00 feet, S 00°00'33" W a distance of 130.13 feet, S 89°59'47" W a distance of 484.95 feet and N 00°00'13" W a distance of 449.19 feet to the PLACE OF BEGINNING 2.

The area of the above described proposed permanent easement in the said Northeast quarter of the Southwest quarter of Section 36 containing 5.75 acres of land.

The total area of the above described permanent easement in said Section 36 containing 9.48 acres of land.

All bearings and coordinates refer to NAD 83, New Mexico State Plane Coordinate System, East Zone, U.S. Survey Feet. All bearings, distances, coordinates and areas are grid measurements utilizing a combined scale factor of 0.99977727 and a convergence angle of 0.322738518°.

Title information furnished by OXY USA INC.

Reference accompanying Certificate of Survey prepared in conjunction with this legal description for easement.

#### STATE OF NEW MEXICO

COUNTY OF EDDY

I, David W. Myers, New Mexico Professional Surveyor No. 11403 do hereby certify that this easement survey plat and the actual survey on the ground upon which it is based were performed by me or under my direct supervision; that I am responsible for this survey; that this survey meets the minimum standards for surveying in New Mexico; and that it is true and correct to the best of my knowledge and belief. I further certify that this survey is not a land division or subdivision as defined in the New Mexico Subdivision Act and that this instrument is an easement survey plat crossing an existing tract or tracts.

12/20/2023 01/03/2024		0	01/03/2024	ANC
DATE SURVEYED DATE DRAWN		REV.	DATE	BY
PROPOSED ROAD PR	I LINE TY LINE	DELTA 5 WEST 318 JOB	PREPARED BY: FIELD SERVICES 10 TRENTON ST. MONROE, LA 71 -323-6800 OFTI No. 0XY_0037_S SHEET 3 OF 4	291 CE



WFIL 1

OXY USA, INC.

2,583' FSL 1,776' FWL, SECTION 36

NAD 83, SPCS NM EAST

NAD 27, SPCS NM EAST

ELEVATION = 3561

WELL 5

STRESSED DESSERTS 36\_1 FED COM 1H OXY USA, INC. 2.403' FSL 1.775' FWL. SECTION 36

NAD 83, SPCS NM EAST

X:726150.73' / Y:522281.91' LAT:32.43439431N / LON:103.73430190W NAD 27, SPCS NM EAST

X:684968.90' / Y:522221.01' LAT:32.43427194N / LON:103.73381106W

ELEVATION = 3570'

WELL 9

STRESSED DESSERTS 36\_1 FED COM 71H

OXY USA, INC. 2,552' FSL 1,901' FWL, SECTION 36 NAD 83, SPCS NM EAST

X:726275.80' / Y:522431.96' LAT:32.43480480N / LON:103.73389380W

NAD 27, SPCS NM EAST

X:685093.98' / Y:522371.05' LAT:32.43468243N / LON:103.73340296W

FIFVATION = 3565

# SITE PLAN

STRESSED DESSERTS 36 1 FED COM (LSTTNK 21S32E 36 PAD 01) WELL PAD SEC. 36 TWP. 21-S RGE. 31-E SURVEY: N.M.P.M. COUNTY: EDDY OPERATOR: OXY USA, INC. U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M. FAA PERMIT NEEDED: NO

> WELL 3 STRESSED DESSERTS 36\_1 FED COM 11H OXY USA, INC. 2,493' FSL 1,776' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726150.66' / Y:522372.00' LAT:32.43464192N / LON:103.73430047W NAD 27, SPCS NM EAST X:684968.84' / Y:522311.09' LAT:32.43451955N / LON:103.73380962W ELEVATION = 3563'

WELL 7 STRESSED DESSERTS 36\_1 FED COM 41H OXY USA, INC. 2,642' FSL 1,902' FWL, SECTION 36 2,642 FSL 1,902 FWL, SECTION 36 NAD 83, SPCS NM EAST X:726275.77' / Y:522522.03' LAT:32.43505239N / LON:103.73389226W NAD 27, SPCS NM EAST X:685093.95' / Y:522461.13' LAT:32.43493002N / LON:103.73340141W ELEVATION = 3563'

WELL 11 STRESSED DESSERTS 36\_1 FED COM 31H OXY USA, INC. 2,462' FSL 1,901' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726275.74' / Y:522341.86' LAT:32.43455717N / LON:103.73389561W NAD 27, SPCS NM EAST X:685093.92' / Y:522280.96' LAT:32.43443479N / LON:103.73340478W ELEVATION = 3565'

WELL 4 STRESSED DESSERTS 36\_1 FED COM 12H OXY USA, INC. 2,463' FSL 1,776' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726150.73' / Y:522341.98' LAT:32.43455942N / LON:103.73430080W NAD 27, SPCS NM EAST X:684968.91' / Y:522281.08' LAT:32.43443705N / LON:103.73380996W ELEVATION = 3565'

WELL 8 STRESSED DESSETTS 36\_1 FED COM 42H OXY USA, INC. 2612' FSL 1,902' FWL, SECTION 36 2612 FSL 1,902 FWL, SECTION 36 NAD 83, SPCS NM EAST X:726275.87' / Y:522492.03' LAT:32.43496992N / LON:103.73389247W NAD 27, SPCS NM EAST X:685094.05' / Y:522431.12' LAT:32.43484755N / LON:103.73340163W ELEVATION = 3564'

WELL 12 STRESSED DESSERTS 36\_1 FED COM 32H OXY USA, INC. 2,432' FSL 1,900' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726275.84' / Y:522312.05' LAT:32.43447521N / LON:103.73389585W NAD 27, SPCS NM EAST X:685094.01' / Y:522251.15' LAT:32.43435284N / LON:103.73340502W FI FVATION = 3565'

WELL 2 STRESSED DESSERTS 36\_1 FED COM 22H STRESSED DESSERTS 36\_1 FED COM 21H OXY USA, INC. 2,553' FSL 1,776' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726150.75' / Y:522432.05' LAT:32.43480697N / LON:103.73429908W X:726150.83' / Y:522461.97' LAT:32.43488923N / LON:103.73429829W NAD 27, SPCS NM EAST X:684969.01' / Y:522401.07' LAT:32.43476686N / LON:103.73380744W X:684968.94' / Y:522371.14' LAT:32.43468460N / LON:103.73380823W FLEVATION = .3561

> WELL 6 STRESSED DESSERTS 36\_1 FED COM 2H OXY USA, INC. 2,373' FSL 1,775' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726150.76' / Y:522252.11' LAT:32.43431239N / LON:103.73430234W NAD 27, SPCS NM EAST X:684968.93' / Y:522191.21' LAT:32.43419002N / LON:103.73381150W ELEVATION = 3576'

WELL 10 STRESSED DESSERTS 36\_1 FED COM 72H OXY USA, INC. 2,522' FSL 1,901' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726275.83' / Y:522402.01' LAT:32.43472250N / LON:103.73389422W NAD 27, SPCS NM EAST X:685094.01' / Y:522341.11' LAT:32.43460012N / LON:103.73340339W FIFVATION = 3565'

WELL 13 STRESSED DESSERTS 36\_1 FED COM 33H OXY USA, INC. 2,402' FSL 1,900' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726275.80' / Y:522281.93' LAT:32.43439242N / LON:103.73389650W NAD 27, SPCS NM EAST X:685093.98' / Y:522221.03' LAT:32.43427004N / LON:103.73340568W ELEVATION = 3566'

01/03/2024

DATE DRAWN

WELL 14 STRESSED DESSERTS 36\_1 FED COM 34H OXY USA, INC. 2,372' FSL 1,900' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726275.80' / Y:522251.98' LAT:32.43431011N / LON:103.73389706W NAD 27, SPCS NM EAST X:685093.98' / Y:522191.08' LAT:32.43418773N / LON:103.73340624W ELEVATION = 3567'

#### 0 01/03/2024 ANC REV. DATE RY

BASIS OF BEARING

12/20/2023

DATE SURVEYED

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.999777727 AND A CONVERGENCE ANGLE OF 0.322738518\*







Page 8 of 131

•

	E	nergy, Minerals a Oil Co 1220 a	te of New Mex and Natural Res onservation Di South St. Fran nta Fe, NM 87	ources Departme vision cis Dr.	ent		Subn Via I	nit Electronically E-permitting
This Natural Gas Manag				GEMENT P		PD) for a n	ew oi	recompleted well.
			1 – Plan D Iffective May 25.					
I. Operator: <u>OXY US</u>	A INC.		OGRID: <u>16</u>	696		Date:	1 0/	1 4/2 4
II. Type: 🗹 Original 🗆	] Amendment	due to □ 19.15.27	7.9.D(6)(a) NMA	C 🗆 19.15.27.9.D(	(6)(b) N	IMAC 🗆 C	ther.	
If Other, please describe	:							
<b>III. Well(s):</b> Provide the be recompleted from a si					wells pr	roposed to	oe dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		icipated MCF/D	P	Anticipated roduced Water BBL/D
SEE ATTACHED								
IV. Central Delivery Po V. Anticipated Schedul proposed to be recomple	e: Provide the	following informa	ation for each new	v or recompleted w	vell or s			7.9(D)(1) NMAC] osed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial F Back D		First Production Date
SEE ATTACHED								
VI. Separation Equipm VII. Operational Pract Subsection A through F VIII. Best Managemen during active and planne	ices: ☑ Attac of 19.15.27.8 ] t Practices: [	h a complete desc NMAC. 2 Attach a comple	cription of the ac	tions Operator wil	l take t	o comply v	vith t	he requirements of

#### 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.

#### Section 3 - Certifications Effective May 25, 2021

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

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

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

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

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

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

### Section 4 - Notices

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

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

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

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

\_

.

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

Signature: Melíssa Guídry
Printed Name: Melissa Guidry
Title: Regulatory Advisor Sr.
E-mail Address: melissa_guidry@oxy.com
Date: 10/14/2024
<sup>Phone:</sup> 713-497-2481

ſ

## OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

Approved By:

Title:

Approval Date:

Conditions of Approval:

#### V. Anticipated Schedule

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
STRESSED DESSERTS 36_1 FED COM 1H	Pending	K-36-T21S-R31E	2403 FSL 1775 FWL	2200	3300	4700
STRESSED DESSERTS 36_1 FED COM 2H	Pending	K-36-T21S-R31E	2373 FSL 1775 FWL	2200	3300	4700
STRESSED DESSERTS 36_1 FED COM 3H	Pending	J-36-T21S-R31E	2498 FSL 1675 FEL	2200	3300	4700
STRESSED DESSERTS 36_1 FED COM 4H	Pending	J-36-T21S-R31E	2528 FSL 1674 FEL	2200	3300	4700
STRESSED DESSERTS 36_1 FED COM 11H	Pending	K-36-T21S-R31E	2493 FSL 1776 FWL	2000	8000	2500
STRESSED DESSERTS 36_1 FED COM 12H	Pending	K-36-T21S-R31E	2453 FSL 1776 FWL	2000	8000	2500
STRESSED DESSERTS 36_1 FED COM 13H	Pending	J-36-T21S-R31E	2408 FSL 1675 FEL	2000	8000	2500
STRESSED DESSERTS 36_1 FED COM 14H	Pending	J-36-T21S-R31E	2438 FSL 1675 FEL	2000	8000	2500
STRESSED DESSERTS 36_1 FED COM 21H	Pending	K-36-T21S-R31E	2583 FSL 1776 FWL	1800	3500	3700
STRESSED DESSERTS 36_1 FED COM 22H	Pending	K-36-T21S-R31E	2553 FSL 1776 FWL	1800	3500	3700
STRESSED DESSERTS 36_1 FED COM 23H	Pending	J-36-T21S-R31E	2318 FSL 1675 FEL	1800	3500	3700
STRESSED DESSERTS 36_1 FED COM 24H	Pending	J-36-T21S-R31E	2346 FSL 1675 FEL	1800	3500	3700
STRESSED DESSERTS 36_1 FED COM 38H	Pending	J-36-T21S-R31E	2527 FSL 1549 FEL	2000	3800	3200
STRESSED DESSERTS 36_1 FED COM 71H	Pending	K-36-T21S-R31E	2552 FSL 1901 FWL	1000	3500	2300
STRESSED DESSERTS 36_1 FED COM 72H	Pending	K-36-T21S-R31E	2522 FSL 1901 FWL	1000	3500	2300
STRESSED DESSERTS 36_1 FED COM 73H	Pending	J-36-T21S-R31E	2347 FSL 1550 FWL	1000	3500	2300
STRESSED DESSERTS 36_1 FED COM 74H	Pending	J-36-T21S-R31E	2377 FSL 1550 FEL	1000	3500	2300

Page 14 of 131

#### V. Anticipated Schedule

Well Name	ΑΡΙ	Spud Date	TD Reached Date	<b>Completion Commencement Date</b>	Initial Flow Back Date	First Production Date
STRESSED DESSERTS 36_1 FED COM 1H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 2H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 3H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 4H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 11H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 12H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 13H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 14H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 21H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 22H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 23H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 24H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 38H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 71H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 72H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 73H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 74H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026

Central Delivery Point Name : Lost Tank 35 Central Processing Facility

#### Part VI. Separation Equipment

Operator will size the flowback separator to handle 12,000 Bbls of fluid and 6-10MMscfd which is more than the expected peak rates for these wells. Each separator is rated to 1440psig, and pressure control valves and automated communication will cause the wells to shut in in the event of an upset at the facility, therefore no gas will be flared on pad during an upset. Current Oxy practices avoid use of flare or venting on pad, therefore if there is an upset or emergency condition at the facility, the wells will immediately shut down, and reassume production once the condition has cleared.

#### Page 16 of 131

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

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

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

#### **Flowback Strategy**

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on MPLX 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

	TANKS BONESPRING				
	Oil (bbl/d)	Gas (mcf/d)			
Jan-2024	1,006	1,259			
Feb-2024	1,133	1,807			
Mar-2024	938	1,919			
Apr-2024	790	1,931			
May-2024	681	1,965			
Jun-2024	596	1,922			
Jul-2024	530	1,827			
Aug-2024	477	1,744			
Sep-2024	432	1,671			
Oct-2024	395	1,604			
Nov-2024	363	1,543			
Dec-2024	337	1,490			
Jan-2025	314	1,441			
Feb-2025	293	1,393			
Mar-2025	274	1,350			
Apr-2025	258	1,309			
May-2025	243	1,271			
Jun-2025	229	1,234			
Jul-2025	218	1,200			
Aug-2025	207	1,169			
Sep-2025	197	1,139			
Oct-2025	188	1,110			
Nov-2025	179	1,083			
Dec-2025	172	1,058			
Jan-2026	165	1,034			
Feb-2026	159	1,011			
Mar-2026	152	988			
Apr-2026	147	967			
May-2026	141	947			
Jun-2026	136	927			
Jul-2026	132	908			
Aug-2026	127	890			
Sep-2026	123	873			
Oct-2026	120	856			
Nov-2026	116	840			
Dec-2026	112	825			



	TANKS WOLFCAMP				
	Oil (bbl/d)	Gas (mcf/d)			
Jan-2024	2,008	3,461			
Feb-2024	1,671	2,856			
Mar-2024	1,182	2,118			
Apr-2024	921	1,733			
May-2024	758	1,490			
Jun-2024	644	1,317			
Jul-2024	562	1,190			
Aug-2024	500	1,091			
Sep-2024	450	1,011			
Oct-2024	410	944			
Nov-2024	376	887			
Dec-2024	349	841			
Jan-2025	325	800			
Feb-2025	304	763			
Mar-2025	286	730			
Apr-2025	270	700			
May-2025	256	674			
Jun-2025	243	649			
Jul-2025	231	627			
Aug-2025	221	607			
Sep-2025	211	589			
Oct-2025	203	571			
Nov-2025	194	555			
Dec-2025	187	541			
Jan-2026	181	528			
Feb-2026	175	515			
Mar-2026	169	502			
Apr-2026	163	491			
May-2026	158	480			
Jun-2026	153	470			
Jul-2026	149	460			
Aug-2026	145	451			
Sep-2026	141	442			
Oct-2026	137	434			
Nov-2026	133	426			
Dec-2026	130	419			



•

# Oxy USA Inc. - STRESSED DESSERTS 36\_1 FED COM 21H Drill Plan

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

TVD of Target (ft):	10450	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	18175	Deepest Expected Fresh Water (ft):	731

**Delaware Basin** 

Formation	MD-RKB (ft)	TVD-RKB (ft)	<b>Expected Fluids</b>
Rustler	731	731	
Salado	1026	1026	Salt
Castile	2622	2622	Salt
Delaware	4358	4358	Oil/Gas/Brine
Bell Canyon	4454	4454	Oil/Gas/Brine
Cherry Canyon	5293	5292	Oil/Gas/Brine
Brushy Canyon	6632	6605	Losses
Bone Spring	8392	8320	Oil/Gas
Bone Spring 1st	9490	9389	Oil/Gas
Bone Spring 2nd	10117	10000	Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

#### 2. Casing Program

		N	ID	Τ\	/D				
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	791	0	791	13.375	54.5	J-55	BTC
Salt	12.25	0	4458	0	4458	10.75	45.5	L-80 HC	BTC-SC
Intermediate	9.875	0	9904	0	9791	7.625	26.4	L-80 HC	BTC
Production	6.75	0	18175	0	10450	5.5	20	P-110	Sprint-SF

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 SI						
Collapse	Burst	Tension	Tension			
1.00	1.100	1.4	1.4			

	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).	I
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	Ŷ
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back	
500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	Y
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	826	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	3,958	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	625	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	406	1.68	13.2	5%	6,882	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 2S - Tail BH	446	1.71	13.3	25%	3,958	Bradenhead Post-Frac	Class C+Accel.
Prod.	1	Production - Tail	496	1.84	13.3	25%	9,404	Circulate	Class C+Ret.

#### **Offline Cementing Request**

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

#### **Bradenhead CBL Request**

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

#### 4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	~	Tested to:	TVD Depth (ft) per Section:	
		5M		Annular	✓	70% of working pressure		
				Blind Ram	✓			
12.25" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	4458	
		5101		Double Ram	✓	200 psi / 5000 psi		
			Other*					
	13-5/8"	5M	5M Annular 🖌 70% of working		70% of working pressure			
			Blind Ram		✓			
9.875" Hole		5M		Pipe Ram		250 poi / 5000 poi	9791	
		5101		Double Ram	✓	250 psi / 5000 psi		
			Other*					
		5M		Annular	✓	70% of working pressure		
6.75" Hole			Blind Ram		✓			
	13-5/8"			Pipe Ram		250 mai / 5000 mai	10450	
		5M		Double Ram	✓	250 psi / 5000 psi		
			Other*					

\*Specify if additional ram is utilized

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

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

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

Are anchors required by manufacturer?

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

See attached schematics.

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

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

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

#### 5. Mud Program

See the se	Dep	Depth		TVD	<b>T</b>	Weight	¥7::4	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	791	0	791	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	791	4458	791	4458	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4458	9904	4458	9791	Water-Based or Oil- Based Mud	8.0 - 10.0	38-50	N/C
Production	9904	18175	9791	10450	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?	i vijine roccoj visual violitoring

#### 6. Logging and Testing Procedures

Mud log

PEX

Yes

No

Loggi	Logging, Coring and Testing.					
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).					
i es	Stated logs run will b	be in the Completion Report and submitted to the BLM.				
No	Logs are planned bas	sed on well control or offset log information.				
No	Drill stem test? If ye	es, explain				
No	Coring? If yes, explain					
Addit	ional logs planned	Interval				
No	Resistivity					
No	Density					
Yes	CBL	Production string				

Bone Spring - TD

#### 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5217 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	164°F

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

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

Ν	H2S is present
Y	H2S Plan attached

#### 8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.	
We plan to drill the 4 well pad in batch by section: all surface sections, intermediate	Yes
sections and production sections. The wellhead will be secured with a night cap whenever	1 05
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: 1652 bbls	

Revision Date - May 21, 2024



# 4-String Design – Open Int 1 x Int 2 Annulus

#### Update May 2024:

OXY is aware of the R111-Q update and will comply with these requirements including (but not limited to):

1) Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that meets API standards

2) Contingency plans in place to divert formation fluids away from salt interval in event of

production casing failure

3) Bradenhead squeeze to be completed within 180days to tie back TOC to salt string at least 500ft but with top below Marker Bed 126

4) Production cement to be tied back no less than 500ft inside previous casing shoe

5) While drilling salt interval, separation distance to any active/inactive producing offset well will be ensured such that SF > 1.0; Anti-Collision Reports will be provided with APD Packages for review where SF < 1.5 against any applicable offset well, or where center-to-center separation against a blind or inclination only surveyed offset well is less than 500ft

Revision Date - May 21, 2024

# 3-String Design – Open Production Casing Annulus



#### Update May 2024:

OXY is aware of the R111-Q update and will comply with these requirements including (but not limited to):

1) Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that meets API standards

2) Contingency plans in place to divert formation fluids away from salt interval in event of production casing failure

3) Bradenhead squeeze for Production cement to be completed within 180days to tie back TOC to previous casing string at least 500ft but with top below Marker Bed 126

4) While drilling salt interval, separation distance to any active/inactive producing offset well will be ensured such that SF > 1.0; Anti-Collision Reports will be provided with APD Packages for review where SF < 1.5 against any applicable offset well, or where center-to-center separation against a blind or inclination only surveyed offset well is less than 500ft

### **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: 5/19/2025 10:01:25 AM

# **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


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

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



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 reterence within its regulations.

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

X

Break testing has been approved by the BLM in the past

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

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

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

K

ഹ

X

8) A shell test is performed against the upper pipe rams testing all three breaks

6/20/2025 3:25:47 PM

- 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

K









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



# **BOP Handling System**

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

Released to Imaging: 6/20/2025 3:25:47 PM

XO

### **Bradenhead Cement CBL Variance Request**

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

### Three string wells:

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

### Four string wells:

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

### **Offline Cementing Variance Request**

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

### 1. Cement Program

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

### 2. Offline Cementing Procedure

The operational sequence will be as follows:

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi

Annular packoff with both external and internal seals





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.

# OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) Stressed Desserts 36\_1 Fed Com Stressed Desserts 36\_1 Fed Com 21H

Wellbore #1

**Plan: Permitting Plan** 

# **Standard Planning Report**

28 August, 2024

### **OXY** Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	PRD N Stress Stress Wellbo	NEERING DES NM DIRECTIC sed Desserts 3 sed Desserts 3	NAL PLANS ( 36_1 Fed Com	l ,	TVD Refe MD Refer North Ref	ence:		Well Stressed D RKB=25' @ 358 RKB=25' @ 358 Grid Minimum Curvat	6.00ft 6.00ft	ed Com 21H
Project	PRD N	M DIRECTION	NAL PLANS (1	NAD 1983)						
Map System: Geo Datum: Map Zone:	North An	e Plane 1983 nerican Datum xico Eastern Z			System Da	tum:		ean Sea Level	ale factor	
Site	Stresse	ed Desserts 36	6_1 Fed Com							
Site Position: From: Position Uncerta	Map ainty:	0.00 f	North Eastin ft Slot F	•	726,2		Latitude: Longitude:			32.434557 -103.733896
Well	Stresse	ed Desserts 36	_1 Fed Com 2	21H						
Well Position Position Uncerta Grid Convergen	-	0.0 2.0	00 ft Ea	orthing: asting: ellhead Eleva	ation:	522,461.97 726,150.83	usf Lor	itude: ngitude: ound Level:		32.434889 -103.734299 3,561.00 ft
Wellbore	Wellbo	ore #1								
Magnetics	Мо	del Name	Sampl	e Date	Declina (°)	tion	Dip A (°		Field Str (nT)	
		HDGM_FILE		8/28/2024		6.37		60.05	47,538	.0000000
Design	Permitt	ting Plan								
Audit Notes:										
Version:			Phas	e: I	PROTOTYPE	Tie	On Depth:	(	0.00	
Vertical Section	:	D	epth From (T (ft) 0.00	VD)	+N/-S (ft) 0.00		/-W it) 00	(	<b>ction</b> °) 3.24	
			0.00		0.00	0.1	00	100	5.24	
Plan Survey Too Depth From (ft) 1 0.0	n Depth (ft	h To	8/28/2024 7 <b>(Wellbore)</b> ing Plan (Well	bore #1)	<b>Tool Name</b> B005Mc_MWI MWD+HRGM		Remarks			
		Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
Measured	clination (°)	(°)	(14)	()						
Measured Depth (ft)         In           0.00         4,700.00	(°) 0.00 0.00	0.00 0.00	0.00 4,700.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
Depth In (ft) 0.00	(°) 0.00	0.00	0.00	0.00						

.

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stressed Desserts 36_1 Fed Com 21H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3586.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3586.00ft
Site:	Stressed Desserts 36_1 Fed Com	North Reference:	Grid
Well:	Stressed Desserts 36_1 Fed Com 21H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00	0.00	0.00
	0.00 0.00		0.00
100.00 0.00 0.00 100.00 0.00 0.00 0.00	0.00	0.00	0.00
200.00 0.00 0.00 200.00 0.00 0.00 0.00		0.00	0.00
300.00 0.00 0.00 300.00 0.00 0.00 0.00	0.00	0.00	0.00
400.00 0.00 0.00 400.00 0.00 0.00 0.00		0.00	0.00
500.00 0.00 0.00 500.00 0.00 0.00 0.00	0.00	0.00	0.00
600.00 0.00 0.00 600.00 0.00 0.00 0.00		0.00	0.00
700.00 0.00 0.00 700.00 0.00 0.00 0.00		0.00	0.00
800.00 0.00 0.00 800.00 0.00 0.00 0.00		0.00	0.00
900.00 0.00 0.00 900.00 0.00 0.00 0.00		0.00	0.00
1,000.00 0.00 0.00 1,000.00 0.00 0.00 0.		0.00	0.00
1,100.00 0.00 0.00 1,000.00 0.00 0.00 0.		0.00	0.00
1,200.00 0.00 0.00 1,200.00 0.00 0.00 0.00 0.00		0.00	0.00
1,300.00 0.00 0.00 1,200.00 0.00 0.00 0.00 0.00		0.00	0.00
1,400.00 0.00 0.00 1,400.00 0.00 0.00 0.00 0.00		0.00	0.00
1,500.00 0.00 0.00 1,500.00 0.00 0.00 0.00		0.00	0.00
1,500.00 0.00 0.00 1,500.00 0.00 0.00 0.00 0.00 0.00		0.00	0.00
1,700.00 0.00 0.00 1,700.00 0.00 0.00 0.00 0.00		0.00	0.00
1,800.00 0.00 0.00 1,800.00 0.00 0.00 0.00 0.00		0.00	0.00
1,900.00 0.00 0.00 1,900.00 0.00 0.00 0.00 0.00		0.00	0.00
2,000.00 0.00 0.00 2,000.00 0.00 0.00 0.		0.00	0.00
2,100.00 0.00 0.00 2,100.00 0.00 0.00 0.00		0.00	0.00
2,100.00 0.00 0.00 2,100.00 0.00 0.00 0.00		0.00	0.00
2,300.00 0.00 0.00 2,300.00 0.00 0.00 0.00		0.00	0.00
2,400.00 0.00 0.00 2,400.00 0.00 0.00 0.00		0.00	0.00
2,500.00 0.00 0.00 2,500.00 0.00 0.00 0.00		0.00	0.00
2,500.00 0.00 0.00 2,500.00 0.00 0.00 0.00 0.00		0.00	0.00
2,700.00 0.00 0.00 2,700.00 0.00 0.00 0.00		0.00	0.00
2,800.00 0.00 0.00 2,800.00 0.00 0.00 0.00		0.00	0.00
2,900.00 0.00 0.00 2,900.00 0.00 0.00 0.00		0.00	0.00
3,000.00 0.00 0.00 3,000.00 0.00 0.00 0.	0.00	0.00	0.00
3,100.00 0.00 0.00 3,100.00 0.00 0.00 0.00		0.00	0.00
3,200.00 0.00 0.00 3,200.00 0.00 0.00 0.00		0.00	0.00
3,300.00 0.00 0.00 3,300.00 0.00 0.00 0.		0.00	0.00
3,400.00 0.00 0.00 3,400.00 0.00 0.00 0.00		0.00	0.00
3,500.00 0.00 0.00 3,500.00 0.00 0.00 0.00	0.00	0.00	0.00
3,600.00 0.00 0.00 3,600.00 0.00 0.00 0.00		0.00	0.00
3,700.00 0.00 0.00 3,700.00 0.00 0.00 0.00		0.00	0.00
3,800.00 0.00 0.00 3,800.00 0.00 0.00 0.00		0.00	0.00
3,900.00 0.00 0.00 3,900.00 0.00 0.00 0.00		0.00	0.00
4,000.00 0.00 0.00 4,000.00 0.00 0.00 0.	0.00	0.00	0.00
4,100.00 0.00 0.00 4,100.00 0.00 0.00 0.00		0.00	0.00
4,200.00 0.00 0.00 4,200.00 0.00 0.00 0.00		0.00	0.00
4,300.00 0.00 0.00 4,300.00 0.00 0.00 0.00		0.00	0.00
4,400.00 0.00 0.00 4,400.00 0.00 0.00 0.	0.00	0.00	0.00
4,500.00 0.00 0.00 4,500.00 0.00 0.00 0.00	0.00	0.00	0.00
4,600.00 0.00 0.00 4,600.00 0.00 0.00 0.00		0.00	0.00
4,700.00 0.00 0.00 4,700.00 0.00 0.00 0.00		0.00	0.00
4,800.00 1.00 270.22 4,800.00 0.00 -0.87 0.12		1.00	0.00
4,900.00 2.00 270.22 4,899.96 0.01 -3.49 0.49	1.00	1.00	0.00
5,000.00 3.00 270.22 4,999.86 0.03 -7.85 1.10		1.00	0.00
5,100.00 4.00 270.22 5,099.68 0.05 -13.96 1.95		1.00	0.00
5,200.00 5.00 270.22 5,199.37 0.08 -21.80 3.04	1.00	1.00	0.00
5,300.00 6.00 270.22 5,298.90 0.12 -31.39 4.38		1.00	0.00
5,400.00 7.00 270.22 5,398.26 0.16 -42.71 5.96	5 1.00	1.00	0.00

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stressed Desserts 36_1 Fed Com 21H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3586.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3586.00ft
Site:	Stressed Desserts 36_1 Fed Com	North Reference:	Grid
Well:	Stressed Desserts 36_1 Fed Com 21H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,500.00	8.00	270.22	5,497.40	0.21	-55.76	7.78	1.00	1.00	0.00
5,600.00	9.00	270.22	5,596.30	0.27	-70.54	9.84	1.00	1.00	0.00
5,700.00	10.00	270.22	5,694.93	0.33	-87.04	12.15	1.00	1.00	0.00
5,800.00	11.00	270.22	5,793.26	0.33	-105.27	14.69	1.00	1.00	0.00
5,900.00	12.00	270.22	5,891.25		-125.20	14.09		1.00	0.00
				0.48			1.00		
5,999.56	13.00	270.22	5,988.45	0.56	-146.75	20.48	1.00	1.00	0.00
6,000.00	13.00	270.22	5,988.87	0.56	-146.85	20.49	0.00	0.00	0.00
6,100.00	13.00	270.22	6,086.31	0.65	-169.34	23.63	0.00	0.00	0.00
6,200.00	13.00	270.22	6,183.75	0.73	-191.82	26.77	0.00	0.00	0.00
6,300.00	13.00	270.22	6,281.19	0.82	-214.31	29.91	0.00	0.00	0.00
6,400.00	13.00	270.22	6,378.63	0.90	-236.80	33.05	0.00	0.00	0.00
6,500.00	13.00	270.22	6,476.07	0.99	-259.29	36.18	0.00	0.00	0.00
6,600.00	13.00	270.22	6,573.51	1.07	-281.77	39.32	0.00	0.00	0.00
6,700.00	13.00	270.22	6,670.95	1.16	-304.26	42.46	0.00	0.00	0.00
6,800.00	13.00	270.22	6,768.38	1.25	-326.75	45.60	0.00	0.00	0.00
6,900.00	13.00	270.22	6,865.82	1.33	-349.24	48.74	0.00	0.00	0.00
7,000.00	13.00	270.22	6,963.26	1.33	-371.72	51.87	0.00	0.00	0.00
7,000.00	13.00	270.22	7,060.70	1.42	-394.21	55.01	0.00	0.00	0.00
7,100.00		270.22							
7,200.00	13.00 13.00	270.22 270.22	7,158.14 7,255.58	1.59 1.67	-416.70 -439.19	58.15 61.29	0.00 0.00	0.00 0.00	0.00 0.00
		270.22	7,353.02		-461.67	64.43			
7,400.00	13.00		,	1.76			0.00	0.00	0.00
7,500.00	13.00	270.22	7,450.46	1.85	-484.16	67.56	0.00	0.00	0.00
7,600.00	13.00	270.22	7,547.89	1.93	-506.65	70.70	0.00	0.00	0.00
7,700.00	13.00	270.22	7,645.33	2.02	-529.14	73.84	0.00	0.00	0.00
7,800.00	13.00	270.22	7,742.77	2.10	-551.62	76.98	0.00	0.00	0.00
7,900.00	13.00	270.22	7,840.21	2.19	-574.11	80.12	0.00	0.00	0.00
8,000.00	13.00	270.22	7,937.65	2.28	-596.60	83.26	0.00	0.00	0.00
8,100.00	13.00	270.22	8,035.09	2.36	-619.09	86.39	0.00	0.00	0.00
8,200.00	13.00	270.22	8,132.53	2.45	-641.57	89.53	0.00	0.00	0.00
8,300.00	13.00	270.22	8,229.97	2.53	-664.06	92.67	0.00	0.00	0.00
8,400.00	13.00	270.22	8,327.40	2.62	-686.55	95.81	0.00	0.00	0.00
8,500.00	13.00	270.22	8,424.84	2.70	-709.04	98.95	0.00	0.00	0.00
8,600.00	13.00	270.22	8,522.28	2.79	-731.52	102.08	0.00	0.00	0.00
8,700.00	13.00	270.22	8,619.72	2.88	-754.01	105.22	0.00	0.00	0.00
8,800.00	13.00	270.22	8,717.16	2.96	-776.50	108.36	0.00	0.00	0.00
8,900.00	13.00	270.22	8,814.60	3.05	-798.99	111.50	0.00	0.00	0.00
9,000.00	13.00	270.22	8,912.04	3.13	-821.47	114.64	0.00	0.00	0.00
9,100.00	13.00	270.22	9,009.48	3.13	-843.96	117.77	0.00	0.00	0.00
9,100.00	13.00	270.22	9,009.48	3.22	-866.45	120.91	0.00	0.00	0.00
9,200.00	13.00	270.22	9,106.91 9,204.35	3.30	-866.45 -888.94	120.91	0.00	0.00	0.00
9,400.00	13.00	270.22	9,301.79	3.48	-911.42	127.19	0.00	0.00	0.00
9,500.00	13.00	270.22	9,399.23	3.56	-933.91	130.33	0.00	0.00	0.00
9,600.00	13.00	270.22	9,496.67	3.65	-956.40	133.47	0.00	0.00	0.00
9,700.00	13.00	270.22	9,594.11	3.73	-978.89	136.60	0.00	0.00	0.00
9,800.00	13.00	270.22	9,691.55	3.82	-1,001.37	139.74	0.00	0.00	0.00
9,900.00	13.00	270.22	9,788.98	3.90	-1,023.86	142.88	0.00	0.00	0.00
10,000.00	13.00	270.22	9,886.42	3.99	-1,046.35	146.02	0.00	0.00	0.00
10,004.27	13.00	270.22	9,890.58	3.99	-1,047.31	146.15	0.00	0.00	0.00
10,100.00	16.02	233.17	9,983.44	-3.90	-1,068.70	157.03	10.00	3.16	-38.70
10,200.00	23.26	212.18	10,077.68	-28.95	-1,090.31	184.92	10.00	7.23	-20.99
10,300.00	31.96	201.41	10,166.26	-70.41	-1,110.54	228.85	10.00	8.70	-10.77
10,400.00	41.21	194.98	10,246.50	-127.01	-1,128.76	287.48	10.00	9.25	-6.43
10,500.00	50.70	190.59	10,315.97	-197.04	-1,144.43	359.03	10.00	9.49	-4.39
10,600.00	60.32	187.26	10,372.54	-278.37	-1,157.05	441.33	10.00	9.62	-3.33
10,700.00	70.01	184.52	10,414.50	-368.53	-1,166.27	531.88	10.00	9.69	-2.74

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stressed Desserts 36_1 Fed Com 21H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3586.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3586.00ft
Site:	Stressed Desserts 36_1 Fed Com	North Reference:	Grid
Well:	Stressed Desserts 36_1 Fed Com 21H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,800.00	79.73	182.10	10,440.57	-464.78	-1,171.78	627.93	10.00	9.72	-2.42
10,900.00	89.47	179.82	10,449.98	-564.20	-1,173.43	726.55	10.00	9.74	-2.27
10,905.43	90.00	179.70	10,450.00	-569.63	-1,173.41	731.93	10.00	9.74	-2.25
11,000.00	90.00	179.70	10,450.00	-664.20	-1,172.91	825.45	0.00	0.00	0.00
11,100.00	90.00	179.70	10,450.00	-764.20	-1,172.39	924.34	0.00	0.00	0.00
11,200.00	90.00	179.70	10,450.00	-864.20	-1,171.86	1,023.23	0.00	0.00	0.00
11,300.00	90.00 90.00	179.70 179.70	10,450.00	-964.19	-1,171.34	1,122.12	0.00 0.00	0.00 0.00	0.00 0.00
11,400.00	90.00	179.70	10,450.00 10,450.00	-1,064.19 -1,164.19	-1,170.81 -1,170.29	1,221.01 1,319.90	0.00	0.00	0.00
11,600.00	90.00	179.70	10,450.00	-1,264.19	-1,169.77	1,418.79	0.00	0.00	0.00
11,700.00	90.00	179.70	10.450.00	-1,364.19	-1,169.24	1,517.68	0.00	0.00	0.00
11,800.00	90.00	179.70	10,450.00	-1,464.19	-1,168.72	1,616.58	0.00	0.00	0.00
11,900.00	90.00	179.70	10,450.00	-1,564.19	-1,168.19	1,715.47	0.00	0.00	0.00
12,000.00	90.00	179.70	10,450.00	-1,664.18	-1,167.67	1,814.36	0.00	0.00	0.00
12,100.00	90.00	179.70	10,450.00	-1,764.18	-1,167.15	1,913.25	0.00	0.00	0.00
12,200.00	90.00	179.70	10,450.00	-1,864.18	-1,166.62	2,012.14	0.00	0.00	0.00
12,300.00	90.00	179.70	10,450.00	-1,964.18	-1,166.10	2,111.03	0.00	0.00	0.00
12,400.00	90.00	179.70	10,450.00	-2,064.18	-1,165.57	2,209.92	0.00	0.00	0.00
12,500.00	90.00	179.70	10,450.00	-2,164.18	-1,165.05	2,308.81	0.00	0.00	0.00
12,600.00	90.00	179.70	10,450.00	-2,264.18	-1,164.53	2,407.70	0.00	0.00	0.00
12,700.00	90.00	179.70	10,450.00	-2,364.17	-1,164.00	2,506.60	0.00	0.00	0.00
12,800.00	90.00	179.70	10,450.00	-2,464.17	-1,163.48	2,605.49	0.00	0.00	0.00
12,900.00	90.00	179.70	10,450.00	-2,564.17	-1,162.95	2,704.38	0.00	0.00	0.00
13,000.00	90.00	179.70	10,450.00	-2,664.17	-1,162.43	2,803.27	0.00	0.00	0.00
13,100.00	90.00	179.70	10,450.00	-2,764.17	-1,161.91	2,902.16	0.00	0.00	0.00
13,200.00	90.00	179.70	10,450.00	-2,864.17	-1,161.38	3,001.05	0.00	0.00	0.00
13,300.00	90.00	179.70 179.70	10,450.00	-2,964.17 -3,064.17	-1,160.86	3,099.94	0.00 0.00	0.00	0.00 0.00
13,400.00 13,500.00	90.00 90.00	179.70	10,450.00 10,450.00	-3,064.17 -3,164.16	-1,160.33 -1,159.81	3,198.83 3,297.73	0.00	0.00 0.00	0.00
13,600.00	90.00	179.70	10,450.00	-3,264.16	-1,159.29	3,396.62	0.00	0.00	0.00
13,700.00	90.00	179.70	10,450.00	-3,364.16	-1,158.76	3,495.51	0.00	0.00	0.00
13,800.00	90.00	179.70	10,450.00	-3,464.16	-1,158.24	3,594.40	0.00	0.00	0.00
13,900.00	90.00	179.70	10,450.00	-3,564.16	-1,157.71	3,693.29	0.00	0.00	0.00
14,000.00	90.00	179.70	10,450.00	-3,664.16	-1,157.19	3,792.18	0.00	0.00	0.00
14,100.00	90.00	179.70	10,450.00	-3,764.16	-1,156.67	3,891.07	0.00	0.00	0.00
14,200.00	90.00	179.70	10,450.00	-3,864.15	-1,156.14	3,989.96	0.00	0.00	0.00
14,300.00	90.00	179.70	10,450.00	-3,964.15	-1,155.62	4,088.85	0.00	0.00	0.00
14,400.00	90.00	179.70	10,450.00	-4,064.15	-1,155.09	4,187.75	0.00	0.00	0.00
14,500.00	90.00	179.70	10,450.00	-4,164.15	-1,154.57	4,286.64	0.00	0.00	0.00
14,600.00	90.00	179.70	10,450.00	-4,264.15	-1,154.05	4,385.53	0.00	0.00	0.00
14,700.00	90.00	179.70	10,450.00	-4,364.15	-1,153.52	4,484.42	0.00	0.00	0.00
14,800.00	90.00	179.70	10,450.00	-4,464.15	-1,153.00	4,583.31	0.00	0.00	0.00
14,900.00	90.00	179.70	10,450.00	-4,564.14	-1,152.47	4,682.20	0.00	0.00	0.00
15,000.00 15,100.00	90.00 90.00	179.70 179.70	10,450.00 10,450.00	-4,664.14 -4,764.14	-1,151.95 -1,151.43	4,781.09 4,879.98	0.00 0.00	0.00 0.00	0.00 0.00
15,200.00				,	-1,150.90			0.00	
15,200.00	90.00 90.00	179.70 179.70	10,450.00 10,450.00	-4,864.14 -4,964.14	-1,150.90 -1,150.38	4,978.87 5,077.77	0.00 0.00	0.00	0.00 0.00
15,400.00	90.00	179.70	10,450.00	-4,904.14 -5,064.14	-1,149.85	5,176.66	0.00	0.00	0.00
15,500.00	90.00	179.70	10,450.00	-5,164.14	-1,149.33	5,275.55	0.00	0.00	0.00
15,600.00	90.00	179.70	10,450.00	-5,264.14	-1,148.81	5,374.44	0.00	0.00	0.00
15,700.00	90.00	179.70	10,450.00	-5,364.13	-1,148.28	5,473.33	0.00	0.00	0.00
15,800.00	90.00	179.70	10,450.00	-5,464.13	-1,147.76	5,572.22	0.00	0.00	0.00
15,900.00	90.00	179.70	10,450.00	-5,564.13	-1,147.23	5,671.11	0.00	0.00	0.00
16,000.00	90.00	179.70	10,450.00	-5,664.13	-1,146.71	5,770.00	0.00	0.00	0.00
16,100.00	90.00	179.70	10,450.00	-5,764.13	-1,146.19	5,868.89	0.00	0.00	0.00
L									

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stressed Desserts 36_1 Fed Com 21H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3586.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3586.00ft
Site:	Stressed Desserts 36_1 Fed Com	North Reference:	Grid
Well:	Stressed Desserts 36_1 Fed Com 21H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,200.00	90.00	179.70	10,450.00	-5,864.13	-1,145.66	5,967.79	0.00	0.00	0.00
16,300.00	90.00	179.70	10,450.00	-5,964.13	-1,145.14	6,066.68	0.00	0.00	0.00
16,400.00	90.00	179.70	10,450.00	-6,064.12	-1,144.61	6,165.57	0.00	0.00	0.00
16,500.00	90.00	179.70	10,450.00	-6,164.12	-1,144.09	6,264.46	0.00	0.00	0.00
16,600.00	90.00	179.70	10,450.00	-6,264.12	-1,143.57	6,363.35	0.00	0.00	0.00
16,700.00	90.00	179.70	10,450.00	-6,364.12	-1,143.04	6,462.24	0.00	0.00	0.00
16,800.00	90.00	179.70	10,450.00	-6,464.12	-1,142.52	6,561.13	0.00	0.00	0.00
16,900.00	90.00	179.70	10,450.00	-6,564.12	-1,141.99	6,660.02	0.00	0.00	0.00
17,000.00	90.00	179.70	10,450.00	-6,664.12	-1,141.47	6,758.91	0.00	0.00	0.00
17,100.00	90.00	179.70	10,450.00	-6,764.11	-1,140.95	6,857.81	0.00	0.00	0.00
17,200.00	90.00	179.70	10,450.00	-6,864.11	-1,140.42	6,956.70	0.00	0.00	0.00
17,300.00	90.00	179.70	10,450.00	-6,964.11	-1,139.90	7,055.59	0.00	0.00	0.00
17,400.00	90.00	179.70	10,450.00	-7,064.11	-1,139.37	7,154.48	0.00	0.00	0.00
17,500.00	90.00	179.70	10,450.00	-7,164.11	-1,138.85	7,253.37	0.00	0.00	0.00
17,600.00	90.00	179.70	10,450.00	-7,264.11	-1,138.33	7,352.26	0.00	0.00	0.00
17,700.00	90.00	179.70	10,450.00	-7,364.11	-1,137.80	7,451.15	0.00	0.00	0.00
17,800.00	90.00	179.70	10,450.00	-7,464.11	-1,137.28	7,550.04	0.00	0.00	0.00
17,900.00	90.00	179.70	10,450.00	-7,564.10	-1,136.75	7,648.93	0.00	0.00	0.00
18,000.00	90.00	179.70	10,450.00	-7,664.10	-1,136.23	7,747.83	0.00	0.00	0.00
18,100.00	90.00	179.70	10,450.00	-7,764.10	-1,135.71	7,846.72	0.00	0.00	0.00
18,175.43	90.00	179.70	10,450.00	-7,839.53	-1,135.31	7,921.31	0.00	0.00	0.00

### **Design Targets** Target Name - hit/miss target Dip Angle Dip Dir. TVD +N/-S +E/-W Northing Easting - Shape (usft) (usft) (°) (°) (ft) (ft) (ft) Latitude Longitude KOP (Stressed 0.00 0.00 0.00 4.65 -1,176.45 522.466.62 724,974.44 32.434920 -103.738111 - plan misses target center by 1176.46ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E) - Point PBHL (Stressed 0.00 0.00 10,450.00 -7,839.53 -1,135.31 514,622.86 725,015.58 32.413360 -103.738120 plan hits target center Point FTP (Stressed - 0.00 0.00 10,450.00 -45.35 -1,176.15 522,416.62 - plan misses target center by 204.08ft at 10491.82ft MD (10310.74 TVD, -190.86 N, -1143.25 E) - Point 0.00 0.00 10,450.00 -45.35 -1,176.15 522,416.62 724,974.74 32.434783 -103.738111

Database: Company: Project: Site: Well: Wellbore:	HOPSPP ENGINEERING DESIGNS PRD NM DIRECTIONAL PLANS (NAD 1983) Stressed Desserts 36_1 Fed Com Stressed Desserts 36_1 Fed Com 21H Wellbore #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well Stressed Desserts 36_1 Fed Com 21H RKB=25' @ 3586.00ft RKB=25' @ 3586.00ft Grid Minimum Curvature
Design: Formations	Permitting Plan		

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
731.00	731.00	RUSTLER			
1,026.00	1,026.00	SALADO			
2,622.00	2,622.00	CASTILE			
4,358.00	4,358.00	DELAWARE			
4,454.00	4,454.00	BELL CANYON			
5,293.06	5,292.00	CHERRY CANYON			
6,632.32	6,605.00	BRUSHY CANYON			
8,392.40	8,320.00	BONE SPRING			
9,489.50	9,389.00	BONE SPRING 1ST			
10,117.27	10,000.00	BONE SPRING 2ND			

Measured	Vertical	Local Coordinates		
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
4,700.00	4,700.00	0.00	0.00	Build 1°/100'
5,999.56	5,988.45	0.56	-146.75	Hold 13° Tangent
10,004.27	9,890.58	3.99	-1,047.31	KOP, Build & Turn 10°/100'
10,905.43	10,450.00	-569.63	-1,173.41	Landing Point
18,175.43	10,450.00	-7,839.53	-1,135.31	TD at 18175.43' MD

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:OXY USA INC.WELL NAME & NO.:STRESSED DESSERTS 36 1 FEDERAL COM 21HLOCATION:Sec 36, T21S, R31ECOUNTY:Eddy County, New Mexico

### COA

H <sub>2</sub> S	0	No	• Yes		
Potash /	○ None	O Secretary	• R-111-Q	Open Annulus	
WIPP	4-String Design: Ope	n 1st Int x 2nd Annulus (	CP 2 below Relief Zone) $\Box$ WIPP		
Cave / Karst	• Low	O Medium	O High	O Critical	
Wellhead	Conventional	Multibowl	O Both	O Diverter	
Cementing	Primary Squeeze	🗆 Cont. Squeeze	EchoMeter	DV Tool	
Special Req	🗆 Capitan Reef	🗆 Water Disposal	COM	🗆 Unit	
Waste Prev.	© Self-Certification	• Waste Min. Plan	O APD Submitted J	prior to 06/10/2024	
Additional	Flex Hose	Casing Clearance	Pilot Hole	Break Testing	
Language	Four-String	Offline Cementing	□ Fluid-Filled		

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

### A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

### **B.** CASING

- 1. The **13-3/8** inch surface casing shall be set at approximately **791** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8 hours</u> or <u>500 pounds compressive strength</u>, whichever is greater. (This is to include the

Page 1 of 9

lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- The 10-3/4 inch intermediate salt protection casing shall be set at approximately 50' prior to entering the Delaware group. Please set Salt Protection string prior to entering hydrocarbon bearing zone. Well needs to be kept vertical till past the MB 126. The minimum required fill of cement behind the 10-3/4 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, Capitan Reef, or potash.
- 3. The **7-5/8** inch second intermediate casing shall be set at approximately **9904** feet. *PLEASE REVIEW EXTERNAL PRESSURE FOR PRESSURE TEST. PLEASE KEEP CASING FULL FOR COLLAPSE SF.* The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

### **Option 1 (Primary + Post Frac Bradenhead):**

- Cement should tie-back **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126. <u>Operator must verify top of cement per R-111-Q</u> <u>requirements.</u> Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.
- A monitored open annulus will be incorporated during completion by leaving the Intermediate Casing 1 x Intermediate Casing 2 annulus un-cemented and monitored inside the Intermediate String. Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within 180 days.

Operator has proposed to pump down **intermediate 1 x intermediate 2** annulus post completion. <u>Operator must run Echo-meter to verify Cement Slurry/Fluid top in the</u> <u>annulus OR operator shall run a CBL from TD of the intermediate 2 casing to surface</u> <u>after the second stage BH to verify TOC.</u> Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. <u>Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on both the intermediate annulus and the production annulus for the life of the well.</u>

Page 2 of 9

# In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and (575-361-2822 Eddy County).

4. The **5-1**/2 inch production casing shall be set at approximately **18,175** feet. The minimum required fill of cement behind the **5-1**/2 inch production casing is:

### **Option 1 (Single Stage):**

• Cement should tie-back **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126. <u>Operator must verify top of cement per R-111-Q</u> <u>requirements.</u> Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, 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).
  - Operator has proposed a multi-bowl wellhead assembly. 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. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 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 43 CFR 3172 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

Page 3 of 9

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 43 CFR 3171 and 3172.
- 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</u> <u>Communitization Agreement number is known, it shall also be on the sign.</u>

### **BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for intervals utilizing a 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 **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

### **Offline Cementing**

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

### **Casing Clearance**

Overlap clearance OK.

**Approval Date: 05/14/2025** 

### **GENERAL REQUIREMENTS**

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

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

### **Contact Eddy County Petroleum Engineering Inspection Staff:**

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; BLM NM CFO DrillingNotifications@BLM.GOV; (575) 361-2822

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

### A. CASING

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

Page 5 of 9

- Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the 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

### 25 3:25:47 PM Approval Date: 05/14/2025

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

Page 8 of 9

disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

KPI -12/29/2024

Page 9 of 9



# Permian Drilling Hydrogen Sulfide Drilling Operations Plan

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

1. Escape

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





# Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

### <u>Scope</u>

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

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

### **Objective**

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

•

### **Discussion**

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

### Hydrogen Sulfide Training

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

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

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

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

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

Service company and visiting personnel

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

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

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

Special control equipment:

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

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

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

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

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

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

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

Caution – potential poison gas Hydrogen sulfide No admittance without authorization

#### *Wind sock* – *wind streamers*:

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

#### Condition flags

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

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

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

#### 5. <u>Mud Program</u>

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

#### *Mud inspection devices:*

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

#### 6. <u>Metallurgy</u>

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

#### 7. <u>Well Testing</u>

No drill stem test will be performed on this well.

#### 8. <u>Evacuation plan</u>

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

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

#### **Emergency procedures**

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

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

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

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

#### <u>Taking a kick</u>

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

#### **Open-hole logging**

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

#### **Running casing or plugging**

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

#### **Ignition procedures**

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

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

#### Instructions for igniting the well

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

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

#### Status check list

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

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

Checked by: \_\_\_\_\_ Date:

### Procedural check list during H2S events

#### Perform each tour:

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

#### Perform each week:

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

#### **General evacuation plan**

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

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

#### **Emergency actions**

#### Well blowout – if emergency

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

#### Person down location/facility

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

#### Toxic effects of hydrogen sulfide

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

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

#### Table i Toxicity of various gases

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

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

### Toxic effects of hydrogen sulfide

#### Table ii Physical effects of hydrogen sulfide

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

•

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

\*at 15.00 psia and 60'f.

### Use of self-contained breathing equipment (SCBA)

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

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

#### Rescue First aid for H2S poisoning

#### Do not panic!

Remain calm – think!

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

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

Revised CM 6/27/2012



# SITE PLAN

STRESSED DESSERTS 36\_1 FED COM (LSTTNK\_21S32E\_36\_PAD 01) WELL PAD SEC. 36 TWP. 21-S RGE. 31-E SURVEY: N.M.P.M. COUNTY: EDDY OPERATOR: OXY USA, INC. U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M. FAA PERMIT NEEDED: NO



150'



#### BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.999777727 AND A CONVERGENCE ANGLE OF 0.322738518\*.







Released to Imaging: 6/20/2025 3:25:47 PM



# SITE PLAN

STRESSED DESSERTS 36\_1 FED COM (LSTTNK\_21S32E\_36\_PAD 01) WELL PAD SEC. 36 TWP. 21-S RGE. 31-E SURVEY: N.M.P.M. COUNTY: EDDY OPERATOR: OXY USA, INC. U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M. FAA PERMIT NEEDED: NO



150'

Page 89 of 131



A tract of land being 9.48 acres of land. Said easement being located in Section 36, Township 21 South, Range 31 East, New Mexico Principal Meridian, Eddy County, New Mexico.

Being more particularly described as the following:

#### (SE/4 OF NW/4)

BEGINNING (PLACE OF BEGINNING 1) at a point from which a 2 inch iron pipe with GLO cap found for the West quarter corner of said Section 36 bears S 77°54'54" W a distance of 1,591.81 feet.

THENCE across the said Southeast quarter of the Northwest quarter of Section 36 the following courses and distances: S 89°59'55" E a distance of 485.12 feet, S 00°00'33" W a distance of 274.91 feet, S 89°56'20" E a distance of 100.05 feet, S 00°01'06" W a distance of 48.16 feet, S 89°43'50" W a distance of 585.10 feet and N 00°00'13" W a distance of 325.94 feet to the PLACE OF BEGINNING 1.

The area of the above described proposed permanent easement in the said Southeast quarter of the Northwest quarter of Section 36 containing 3.73 acres of land.

#### (NE/4 OF SW/4)

BEGINNING (PLACE OF BEGINNING 2) at a point from which a 2 inch iron pipe with GLO cap found for the West quarter corner of said Section 36 bears S 89°43'50" W a distance of 1,556.57 feet.

THENCE continuing across the said Northeast quarter of the Southwest quarter of Section 36 the following courses and distances: N 89°43'50" E a distance of 585.10 feet, S 00°01'06" W a distance of 321.76 feet, S 89°59'10" W a distance of 100.00 feet, S 00°00'33" W a distance of 130.13 feet, S 89°59'47" W a distance of 484.95 feet and N 00°00'13" W a distance of 449.19 feet to the PLACE OF BEGINNING 2.

The area of the above described proposed permanent easement in the said Northeast quarter of the Southwest quarter of Section 36 containing 5.75 acres of land.

The total area of the above described permanent easement in said Section 36 containing 9.48 acres of land.

All bearings and coordinates refer to NAD 83, New Mexico State Plane Coordinate System, East Zone, U.S. Survey Feet. All bearings, distances, coordinates and areas are grid measurements utilizing a combined scale factor of 0.99977727 and a convergence angle of 0.322738518°.

Title information furnished by OXY USA INC.

Reference accompanying Certificate of Survey prepared in conjunction with this legal description for easement.

#### STATE OF NEW MEXICO

COUNTY OF EDDY

I, David W. Myers, New Mexico Professional Surveyor No. 11403 do hereby certify that this easement survey plat and the actual survey on the ground upon which it is based were performed by me or under my direct supervision; that I am responsible for this survey; that this survey meets the minimum standards for surveying in New Mexico; and that it is true and correct to the best of my knowledge and belief. I further certify that this survey is not a land division or subdivision as defined in the New Mexico Subdivision Act and that this instrument is an easement survey plat crossing an existing tract or tracts.

12/20/2023 01/03/2024				0	01/03/2024	ANC
DATE SURVEYED DATE DRAWN				REV.	DATE	BY
LEGEND       EXISTING ROAD         PROPOSED ROAD       SURFACE SITE EDGE         SURFACE SITE EDGE       EXIST. PIPELINE         MONUMENT       QUARTER SPLIT         Reference to Timaging: 6/20/2025	OHP       OVERHEAD POWER         X       FENCE         SWD       SALT WATER LINE	JANUARY 19, 2024 DAVID W. MYERS	PROTESSIONAL SUR	DELTA 51 WEST 318- JOB N	PREPARED BY: FIELD SERVICES 10 TRENTON ST. MONROE, LA 71 -323-6900 0057 0. 0XY_0037_S HEET 3 OF 4	1291 ICE



## SITE PLAN

STRESSED DESSERTS 36 1 FED COM (LSTTNK 21S32E 36 PAD 01) WELL PAD SEC. 36 TWP. 21-S RGE. 31-E SURVEY: N.M.P.M. COUNTY: EDDY OPERATOR: OXY USA, INC. U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M. FAA PERMIT NEEDED: NO

WELL 2 STRESSED DESSERTS 36\_1 FED COM 22H WFIL 1 STRESSED DESSERTS 36\_1 FED COM 21H OXY USA, INC. OXY USA, INC. 2,583' FSL 1,776' FWL, SECTION 36 2,553' FSL 1,776' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726150.75' / Y:522432.05' LAT:32.43480697N / LON:103.73429908W NAD 83, SPCS NM EAST X:726150.83' / Y:522461.97' LAT:32.43488923N / LON:103.73429829W NAD 27, SPCS NM EAST NAD 27, SPCS NM EAST X:684969.01' / Y:522401.07' LAT:32.43476686N / LON:103.73380744W X:684968.94' / Y:522371.14' LAT:32.43468460N / LON:103.73380823W ELEVATION = 3561FLEVATION = .3561

WELL 5 STRESSED DESSERTS 36\_1 FED COM 1H OXY USA, INC. 2.403' FSL 1.775' FWL. SECTION 36 NAD 83, SPCS NM EAST X:726150.73' / Y:522281.91' LAT:32.43439431N / LON:103.73430190W NAD 27, SPCS NM EAST X:684968.90' / Y:522221.01' LAT:32.43427194N / LON:103.73381106W ELEVATION = 3570'

WELL 9 STRESSED DESSERTS 36\_1 FED COM 71H OXY USA, INC. 2,552' FSL 1,901' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726275.80' / Y:522431.96' LAT:32.43480480N / LON:103.73389380W NAD 27, SPCS NM EAST X:685093.98' / Y:522371.05' LAT:32.43468243N / LON:103.73340296W FIFVATION = 3565

WELL 13 STRESSED DESSERTS 36\_1 FED COM 33H OXY USA, INC. 2,402' FSL 1,900' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726275.80' / Y:522281.93' LAT:32.43439242N / LON:103.73389650W NAD 27, SPCS NM EAST X:685093.98' / Y:522221.03' LAT:32.43427004N / LON:103.73340568W ELEVATION = 3566'

WELL 6 STRESSED DESSERTS 36\_1 FED COM 2H OXY USA, INC. 2,373' FSL 1,775' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726150.76' / Y:522252.11' LAT:32.43431239N / LON:103.73430234W NAD 27, SPCS NM EAST X:684968.93' / Y:522191.21' LAT:32.43419002N / LON:103.73381150W ELEVATION = 3576'

WELL 10 STRESSED DESSERTS 36\_1 FED COM 72H OXY USA, INC. 2,522' FSL 1,901' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726275.83' / Y:522402.01' LAT:32.43472250N / LON:103.73389422W NAD 27, SPCS NM EAST X:685094.01' / Y:522341.11' LAT:32.43460012N / LON:103.73340339W FIFVATION = 3565'

WELL 14 STRESSED DESSERTS 36\_1 FED COM 34H OXY USA, INC. 2,372' FSL 1,900' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726275.80' / Y:522251.98' LAT:32.43431011N / LON:103.73389706W NAD 27, SPCS NM EAST X:685093.98' / Y:522191.08' LAT:32.43418773N / LON:103.73340624W ELEVATION = 3567'

WELL 3 STRESSED DESSERTS 36\_1 FED COM 11H OXY USA, INC. 2,493' FSL 1,776' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726150.66' / Y:522372.00' LAT:32.43464192N / LON:103.73430047W NAD 27, SPCS NM EAST X:684968.84' / Y:522311.09' LAT:32.43451955N / LON:103.73380962W ELEVATION = 3563'

WELL 7 STRESSED DESSERTS 36\_1 FED COM 41H OXY USA, INC. 2,642' FSL 1,902' FWL, SECTION 36 2,642 FSL 1,902 FWL, SECTION 36 NAD 83, SPCS NM EAST X:726275.77' / Y:522522.03' LAT:32.43505239N / LON:103.73389226W NAD 27, SPCS NM EAST X:685093.95' / Y:522461.13' LAT:32.43493002N / LON:103.73340141W ELEVATION = 3563'

WELL 11 STRESSED DESSERTS 36\_1 FED COM 31H OXY USA, INC. 2,462' FSL 1,901' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726275.74' / Y:522341.86' LAT:32.43455717N / LON:103.73389561W NAD 27, SPCS NM EAST X:685093.92' / Y:522280.96' LAT:32.43443479N / LON:103.73340478W ELEVATION = 3565'

WELL 4 STRESSED DESSERTS 36\_1 FED COM 12H OXY USA, INC. 2,463' FSL 1,776' FWL, SECTION 36

NAD 83, SPCS NM EAST X:726150.73' / Y:522341.98' LAT:32.43455942N / LON:103.73430080W NAD 27, SPCS NM EAST X:684968.91' / Y:522281.08' LAT:32.43443705N / LON:103.73380996W ELEVATION = 3565'

WELL 8 STRESSED DESSETTS 36\_1 FED COM 42H OXY USA, INC. 2612' FSL 1,902' FWL, SECTION 36 2612 FSL 1,902 FWL, SECTION 36 NAD 83, SPCS NM EAST X:726275.87' / Y:522492.03' LAT:32.43496992N / LON:103.73389247W NAD 27, SPCS NM EAST X:685094.05' / Y:522431.12' LAT:32.43484755N / LON:103.73340163W ELEVATION = 3564'

WELL 12 STRESSED DESSERTS 36\_1 FED COM 32H OXY USA, INC. 2,432' FSL 1,900' FWL, SECTION 36 NAD 83, SPCS NM EAST X:726275.84' / Y:522312.05' LAT:32.43447521N / LON:103.73389585W NAD 27, SPCS NM EAST X:685094.01' / Y:522251.15' LAT:32.43435284N / LON:103.73340502W FI FVATION = 3565'

12/20/2023 01/03/2024 DATE SURVEYED DATE DRAWN I, DAVID W. MYERS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 11403 DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO. SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT SURVEY PLAT CROSSING AN EXISTING TRACT OR TRACTS.

BASIS OF BEARING ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.999777727 AND A CONVERGENCE ANGLE OF 0.322738518\*







01/03/2024

DATE

ANC

RY

0

REV.

Page 90 of 131





Page 91 of 131

Received by OCD: 5/19/2025 10:01:25 AM



Released to Imaging: 6/20/2025 3:25:47 PM

# **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













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

# Ontinental 3

### Certificate of Conformity

Certificate Number H100161	COM Order Reference 1429702	ContiTect 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	B)

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 OI 1429702	rder Reference	ContiTec 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	3

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

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

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

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



Released to Imaging: 6/20/2025 3:25:47 PM

12000

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	:# JAIABS	H2-112019-4
)	:YTITNAUQ	Ţ
2	:# ABORO SBJA8	286915
		CLAMPS
4	SART DESCRIPTION:	RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE
5	-16C 12C1 CC 2 1 C 2 1 C 2 1 C	ZRMOR C/W 4 1/16 10K FIX X FLOAT H2S SUITED FLANGES WITH BX 155
	COSTOMER P/N:	3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL 10KFR3.012.0CK411610KFIXXFLT SSA SC LE
	:#.O.9 293MOT2U3	4128128 (RIG 1 PO 002773)
)	:NSTOMER:	<b>320H NITZUA ABD 2NI NITZUA 7-A</b>

6T0Z/0Z/TT	:3TAQ
<b>JUARUSSA YTIJAUD</b>	
Mouna Orbi	SIGNATURE:

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

WEB: www.gates.com EMAIL: Troy.Schmidt@gates.com :XA3 6TT1 - 209 (182) : 3NOHd

## PRESSURE TEST CERTIFICATE

-N/d gamotain	10KFR3.012.0CK411610KFIXXFLT 55A SC LE	Test Pressure:	'IS4 000'S1
Cracle Star No.:	671-6286-01060689	:eboD yldmeseA	R10E11 242147
:1 enit)∃ bn∃	4 1/16 10K FLANGES FIXED	End Fitting 2:	TAOJA SEGNAJA NOL 01/1 P
Product Description:	FLANGES WITH BX 155 RING GROOV	ARY WITH STAINLESS STEEL ARY WE SUPPLIED WITH SAFETY CLA	WBS & STINGS & FILL EVE CLAMPS AOR C/W 4 1/16 10K FIX X FLOAT H2S SUITED
			ABTRID 200 TAO IS Y VID YOU THIS ADD
nvoice No.:	286915	Created By:	
Lustomer Ref.: Invoice No.:			Norma Cabrera Norma Cabrera

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

10KER3.012.0CK411610KFIXXELT SSA SC LE

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

Working Pressure:

	: aintengia
6102/02/TT	: eteo
YTIJAUD	:Ailleu C

F-PRD-005

CUSTOMER P/N:



6102/02/11 PRODUCTION

'ISd 000'01

72-1987



RT	0	d	7	Н	I	S	7	I
	U	J	-	9			-	califiers.

noitnineal	
Lot number:	
Serial number:	
TEST OBJECT	

к	97/T-9 × 0°E	
Ж	3.0 × 4-1/15	
,	3.0 10k MS C&	
	141242113018	

H2-112019-4

M9 70:51:51 9102/02/11

	-	-		-			States tenning
			in the	_	1		SE.
- 81	0			-	1		
1000	a Contin	100	1000	1000		-	

Description:	
Part number:	
:L gninH	
Part number:	
:OI 920H	
Description:	
Lot number:	
Serial number:	
10001001	

rength:

Description:

	.anitainasofi
	Part number:
3.0 x 4-1	Fitting 2:
	Description:
	Part number:
2-4 × 0.E	Fitting 1:

15 **1991** 

Roderick Shambra

inch

%

Sec

isd

292

isd

**PASS** 

0.24

00.00

00.002

00'05/6

3600.00

00'000ST

286915

**Soh nitzuA** 

E20-40-219

Test operator:

Visual check:

Length difference:

Length difference:

**Mork pressure:** 

:eaussead aset

:vneqmoð

CUSTOMER

:enubeconq feat

Work pressure hold:

Test pressure hold:

**VOITAMAORNI TEST** 

Customer reference: Sales order #:

Production description:

Length measurement result: Pressure test result:



Page 1/2

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

# 72-1987

M9 70:51:51 9102/02/11

# **TEST REPORT**



#### **GAUGE TRACEABILITY**

Calibration due date	Calibration date	Serial number	Description
5050-03-72	2079-03-17	TIOAMCLO	W-A-22-2
5050-04-14	5076-04-76	110APO2K	M-A-252-2

Trammod

.

Page 2/2

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

÷

Received by OCD: 5/19/2025 10:01:25 AM Wer Date: 12/17/2019

- 日日日小田長小、日日一日日日日 - 三四日日

\$2 - - \$1 - - 1E-

1.10

ちちゃ ちょう やちちゃ

·武臣→王武士→武臣→王武臣→武臣→武王→王武王→武王→武王→王王→武臣→武臣→武臣→武臣→武臣→武王→武王→武王→王王→王王→王王→王王→武王→武臣→武臣→武臣→

こうかかっ 「「お」、ちょう、 「おき、ころき、ころな、ころがも、うちま、このな、、 ちちゃ そのぼう

DW Industries Inc. Carrett Crawford, Director of Quality

Certificate Issue Date: 2/27/2020

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

3% 10,000 psi WP CHOKE HOSE C/W CLAMPS C/W CLAMPS		Part Description:	1005-4 OV-2640-4812-	Customer Part Number:	Purchase Order Info
0202/92/20	Signal Assembly Date:	ľ		QTY Ordered:	
052620DW-2	Serial Number:	04-5640-4815-1002-4		Part Number:	
50050763	DM Industries Work	СОИТАСТ РАИL НОFFMAN FOR INFO		Customer: Purchase Order	Information
	PAUL HOFFMAN 032-241-5360				Customer Name:

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

do- to in drade -

Certificate of Conformance

**Released to Imaging: 6/20/2025 3:25:47 PM** 





By burgeries barries bernarderen with the barries of the parties

公 Certificate of Conformance

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

3" 10,000 psi WP CHOKE HOSE 4-1/16" FIXED BY FLOAT FLANGES C/W SS ARMOR & LIFTING EYES		Part Description:	J/16FXFL-ALE 0A-5640-4822-4-	Customer Part Number:	Purchase Order Information
0707/97/70	Assembly Date:	Ţ		QTY Ordered:	
052620DW-1	Serial Number:	OA-5640-4822-4-1/16FXFL-ALE		Part Number:	
50020164	OW Industries Work Order Number:	SONTACT PAUL HOFFMAN FOR INFO		Customer Purchase Order Mumber:	
PAUL HOFFMAN 0352-241-5360		Contact: Customer	CITADEL DRILLING		ramoteus Name:

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

Certificate Issue Date: 2/27/2020

DW Industries Inc.

Carrett Crawford, Director of Quality

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

27年1月1日1日月1日1日月1日日月1日日

5.4 - - + 4 - - 2,4 - - 5 4 - - - 5

34 ... 34 ... 20



30
# Certificate of Conformance

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

t,, EIG 603 WXE	יא אדאיי אייאאאיי אייאאאיי אייא אייאאיי אייאאיי אייאאיי אייאאיי	Part Description		Customer Part Number:	Purcha
T\52\203	:ətsG yldməzzA	Ţ		QTY Ordered:	se Ord
59007082	Serial Number:	0A-P55038-64154"-602		Part Number:	ler Info
59007082	DW Industries Work Order Number:	22670200		Customer Purchase Order Number:	Purchase Order Information
АЯЗ	η το	rəmoten) Contact:	ЭЗОН	NITU2A	Customer 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.

Certificate Issue Date: 1/27/2023

Quality Assurance, Inc.



IN SERVICE 12-20-21



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

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

CUSTOMER			TEST OBJECT		
Company:	Austin Distril	outing	Serial number:	H3-101521-2	
and the second s			Lot number:	L4197509171	9
Production description:			Description:		
Sales order #:	521925				
Customer reference:			Hose ID:	3" 10k ck	
			Part number:		
TEST INFORMATION					
Test procedure:	GTS-04-053		Fitting 1:	3.0 x 4-1/16	LOK
Test pressure:	15000.00	psi	Part number:		
Test pressure hold:	3600.00	sec	Description:		
Work pressure:	10000.00	psi			
Work pressure hold:	900.00	sec	Fitting 2:	3.0 x 4-1/16	10K
Length difference:	0.00	%	Part number:		
Length difference:	0.00	inch	Description:		
Visual check:			Length:	35	feet
Pressure test result:	PASS				
	T MJJ				
Length measurement result:					

Test operator:

francisco



Filename: D:\Certificates\Report\_101521-H3-101521-2.pdf



# H3-6963

## **TEST REPORT**

#### **GAUGE TRACEABILITY**

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

Filename: D:\Certificates\Report\_101521-H3-101521-2.pdf

## Page 115 of 131

ContiTech

## Hydrostatic Test Certificate

	Customer Name & Address	and the second
Certificate Number H100163 Customer Purchase Order No:	COM Order Reference  Customer Name of Adversaria    1429702  HELMERICH & PAYNE DRILLING CO    740382384  1434 SOUTH BOULDER AVE    TULSA, OK 74119  USA	
Project:	Accepted by COM Inspection Accepted by Client Inspectic	n
Test Center Address	Accepted by Commission	
ContiTech Oll & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Date: 07/14/22	best of our

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

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

RECERTIFICATION 50

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

70025 1

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

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



## Page 116 of 131 ontinental <sup>4</sup>

ContiTech

## **Certificate of Conformity**

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

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

ttem	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 Frostalbal 4-29-22



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

ContiTech

	QUALITY CONTROL INSPECTION AND TEST CERTIFICATE					lo:	75819	
PURCHASER:	ContiTech (	Dil & Marine C	Corp.		P.O. N°: 4501225327			
CONTITECH RUBBER order N°	HOSE TYPE:	3"	ID		Choke an	d Kill Hose		
HOSE SERIAL Nº:	75819	NOMINAL / AC	TUAL LE	NGTH:		10,67 n	n / 10,68 m	
W.P. 69,0 MPa 10	000 psi	T.P. 103,5	MPa	1500	)0 psi	Duration:	60	min.
Pressure test with water at ambient temperature See attachment ( 1 page )								
COUPLINGS Typ	e	Serial	N°		Qu	ality	Heat N°	
3" coupling with		602	6		AISI	4130	A0607J	
4 1/16" 10K API Swivel F	ange end				AISI	4130	040841	
Hub			1		AISI	4130	54194	
3" coupling with		601	6	1		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.								
Date:  Inspector  Quality Control  ContiTech Rubber    08. April 2019.					)			

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

Released to Imaging: 6/20/2025 3:25:47 PM

#### Hose Assembly Evaluation Sheet

Prepared by	(	Cristian Rivera		Date:	8/27/2022		QIN:	N/A	
Customer:	HEL	MERICH & PAYNE, INC		Location:	H&P INT'L DRILLING CO 210 MAGNOLIA DR GALENA PARK,TX,77547-2738		A		
User contact:	М	IITCH MCKINNIS		Phone:			e-mail:	mitch.mckinnis@hj	pinc.com
	•	Parame	ete	rs		Н	ose Detai	ls	Test Status
		РО			740398454 (88000240   SN	:700	)35)		
		Gates SO			525035				
		Serial #:			88000240   SN:70035				
		As Tested Seria	ıl:		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								
Informatio	n	Working pressu	ure	:	10000 PSI.				PASS

#### **1. Visual Examination**

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

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

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

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



Figure 1: Generic Hose Assembly

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





### Hose Assembly Evaluation Sheet





#### Hose Assembly Evaluation Sheet





## 2. Hydro Static Pressure test



#### 2.1 Hydrostatic Pressure test Procedures

	Hose Type	Test Specification	Test Date	Technician		
1	IN X 35FT CHOKE & KILL	3 10K C&K	2022-08-27	Martin Orozco		
	ASSEMBLY C/W 4-1/16	S ION CAN	2022-06-27			
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.

#### **Hose Assembly Evaluation Sheet**



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

**TEST REPORT** 

Test operator:



Filename: D:\Certificates\Report\_082722-H2-082722-1.pdf

Page 1/2

#### **Hose Assembly Evaluation Sheet**





## H2-8316

8/27/2022 8:51:22 AM

## **TEST REPORT**

#### GAUGE TRACEABILITY

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

Filename: D:\Certificates\Report\_082722-H2-082722-1.pdf

Page 2/2

.







APPENDIX 2: Certificate of Conformance



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

## **CERTIFICATE OF CONFORMANCE**

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

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

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

Tenaris

## **API BTC -Special** Clearance

9.875 in. 44.26 lb/ft

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

Connection OD Option Special Clearance

#### **Pipe Body Data**

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

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

#### Connection Data

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

#### Notes

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

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

Tenaris has issued this document for general information only, and the information in this document, including, without limitation, any pictures, drawings or designs ("Information") is not intended to constitute professional or any other type of advice or recommendation and is provided on an "as is" basis. No warranty is given. Tenaris has not independently verified any information –if any- provided by the user in connection with, or for the purpose of, the Information contained hereunder. The use of the Information is at user's own risk and Tenaris does not assume any responsibility or liability of any kind for any loss, damage or injury resulting from, or in connection with any Information contained hereunder or any use thereof. The Information in this document is subject to change or modification without notice. Tenaris's products and services are subject to Tenaris's and conditions or otherwise to the terms resulting from the respective contracts of sale or services, as the case may be, between petitioner and Tenaris. For more complete information please contact a Tenaris's representative or visit our website at www.tenaris.com . ©Tenaris 2023. All rights reserved.

#### Printed Phage 1273 of 131

## OXY's Minimum Design Criteria

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

**1)** Casing Design Assumptions

#### a) Burst Loads

CSG Test (Surface)

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

CSG Test (Intermediate)

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

CSG Test (Production)

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

Gas Column (Surface)

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

Bullheading (Surface / Intermediate)

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

Gas Kick (Intermediate)

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

Tubing Leak Near Surface While Producing (Production)

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

Tubing Leak Near Surface While Stimulating (Production)

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

Injection / Stimulation Down Casing (Production)

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

Lost Circulation (Surface / Intermediate)

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

#### c) Tension Loads

Running Casing (Surface / Intermediate / Production)

 $_{\odot}\,$  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.

Generated on April 25, 2024



## **CONNECTION DATA SHEET**

OD: 5.500 in. Weight: 20.00 lb/ft Drift: 4.653 in. (API) Wall Th.: 0.361 in.

Grade: P110 RY



## Semi-Flush

Make-up Torque (ft-lb) 20,000 MIN 22,500 **OPTI** 25,000 MAX

**Torque with Sealability (ft-lb)** 36,000 MTS

Locked Flank Torque (ft-lb) 4,500 **MIN** 15,750 **MAX** 

(2) MTS: Maximum Torque with Sealability.

#### PIPE BODY PROPERTIES

Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Wall Thickness	0.361	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	20.00	lb/ft
Plain End Weight	19.83	lb/ft
Drift	4.653	in.
Grade Type	Controlle	ed Yield
Grade Type Minimum Yield Strength	Controlle	ed Yield <i>ksi</i>
Minimum Yield Strength	110	ksi
Minimum Yield Strength Maximum Yield Strength	110 125	ksi ksi
Minimum Yield Strength Maximum Yield Strength Minimum Ultimate Tensile Strength	110 125 140	ksi ksi ksi
Minimum Yield Strength Maximum Yield Strength Minimum Ultimate Tensile Strength Pipe Body Yield Strength	110 125 140 641	ksi ksi ksi klb

#### **CONNECTION PROPERTIES**

Connection Type	Semi-Pr	emium Integral Sem
Nominal Connection OD	5.783	in.
Nominal Connection ID	4.718	in.
Make-up Loss	5.965	in.
Tension Efficiency	90	% Pipe Body
Compression Efficiency	90	% Pipe Body
Internal Pressure Efficiency	100	% Pipe Body
External Pressure Efficiency	100	% Pipe Body

#### JOINT PERFORMANCES

Tension Strength	577	klb
Compression Strength	577	klb
Internal Pressure Resistance	12,640	psi
External Pressure Resistance	11,110	psi
Maximum Bending, Structural	78	°/100 ft
Maximum Bending, with Sealability(1)	30	°/100 ft

(1) Sealability rating demonstrated as per API RP 5C5 / ISO 13679



# BOOST YOUR EFFICIENCY, REDUCE COSTS AND ENSURE 100% WELL INTEGRITY WITH VAM® FIELD SERVICE

Scan the QR code to contact us



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

Page 131 of 131

Action 464553

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	464553
	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.	5/19/2025
lesliereeves	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	5/19/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	6/20/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	6/20/2025
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.	6/20/2025
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.	6/20/2025
ward.rikala	Operator must comply with all of the R-111-Q requirements.	6/20/2025