Received by OCD: 1/17/2023 11:05:48 AM

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

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

District III

Date:

.

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

District IV

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

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

Page 1 of 34

Form C-101 August 1, 2011 Permit 331655

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Na	ame and Address					·			2. OGR	ID Number		
Ta	scosa Energy Parti	ners, L.L.C								329748		
90	1 W. Missouri Ave								3. API N	lumber		
Mie	dland, TX 79701									30-015-5328	32	
4. Property Co	ode		5. Property Na	me					6. Well	No.		
33	1801		TALINA 25 30 S	STATE COM					204H			
					7. Surfa	ce Location						
UL - Lot	Section	Township	Rang	le	Lot Idn	Feet From	N/S Line	Feet From		E/W Line	County	
М	25	20	)S	26E		1296	S	4	00	W	Ē	Eddy
					8. Proposed B	ottom Hole Locatior	ı					
UL - Lot	Section	Township	Rang	е	Lot Idn	Feet From	N/S Line	Feet From		E/W Line	County	
Р	30	20	)S	27E	Р	330	S	1	00	E	E	Eddy
					9 Pool	Information						
AVALON; BO	ONE SPRING				0.1 00.	internation			963	381		
					Additional	Wall Information						
11 Work Type		12 Well Type		13 Cable/Pot	arv		14 Lease Tu	/ne	15 Grou	ind Level Elevatio	n	
Ne	w Well	OIL		13. Gable/100	ary		S	tate	15. 0100	3286	/11	
16. Multiple		17. Proposed De	epth	18. Formation			19. Contract	or	20. Spud	d Date		
N		1670	)3	2no	d Bone Spring S	and				2/1/2023		
Depth to Grou	ind water			Distance from	nearest fresh wate	r well			Distance	to nearest surface	e water	
We will be	using a closed-loo	op system in lie	eu of lined pit	ts								
				21	Proposed Casi	ng and Cement Pro	aram					
Туре	Hole Size	Casing	Size	Casing	Weight/ft	Setting De	pth	Sacks of (	Cement		Estimated TO	C
Surf	17.5	13.3	375		48	500		734	1		0	
Int1	12.25	9.6	25		36	3000	3000 115				0	
Prod	8.5	5.	5		20	16703		327	0		0	
				Casin	a/Cement Prog	am: Additional Con	nments					
				ouoin	g, comont rog							
				22	Proposed Blow	out Provention Pro	aram					
	Type		Work	ing Pressure	Froposed blow		Test Pressure			Manuf	acturer	
	Annular			5000			5000			hy	dril	
	Pino			5000			5000			hy	dril	
	Blind			5000			5000			hy	dril	
	Dillid			0000			0000			ny		
23. I hereby	certify that the info	mation given a	bove is true a	ind complete to	o the best of my		C	DIL CONSERV	ATION D	IVISION		
knowledge a	and belief.	5			,							
I further cer	tify I have complie	d with 19.15.14	I.9 (A) NMAC	and/or 19.	15.14.9 (B) NMA	с						
🛛, if applica	able.											
Cinnetune												
Signature:	<b>Flacture</b>		. M. Llandu				Kathanis - D	الما والم				
Printed Name	Electronica	lly filed by Kelly	M Hardy			Approved By:	Katherine P	lickford				
Printed Name Title:	Electronica	lly filed by Kelly ager	/ M Hardy			Approved By: Title:	Katherine P Geoscientis	rickford st			7/0005	
Printed Name Title: Email Address	Electronica Land Mana khardy@ta	lly filed by Kelly ager scosaep.com	/ M Hardy			Approved By: Title: Approved Date:	Katherine P Geoscientis 1/17/2023	rickford st	Ex	piration Date: 1/1	7/2025	

#### Received by OCD: 1/17/2023 11:05:48 AM

District I

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztee, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico Energy, Minerals & Natural Resources Department

# OIL CONSERVATION DIVISION

# 1220 South St. Francis Dr.

# Santa Fe, NM 87505

**Page 2 of 34** Form C-102

Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code Pool Na						
30-015- <mark>53282</mark>		96381	١G					
Property Code		Propert	ty Name	Well Number				
331801		CATALINA 2530 STATE COM						
OGRID No.		Operat	or Name	Elevation				
329748	3286'							
Surface Location								

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
М	25	20 S	26 E		1296	SOUTH	400	WEST	EDDY	
Bottom Hole Location If Different From Surface										

			БОГ	юш поте	Location II DII	lefent From Surfa	ce		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	30	20 S	27 E		330	SOUTH	100	EAST	EDDY
Dedicated Acres 640.22	Joint or	Infill	Consolidation Co	de Oi	rder No.				

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

		i i i		
		3.26E	3.27E	OPERATOR CERTIFICATION      I hereby certify that the information contained herein is true and comple to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land include the proposed bottom hole location or has a right to drill this well at this     location pursuant to a contract with an owner of such a mineral or wor' interest, or to a voluntary pooling agreement or a compulsory pooling     order heretofore entered by the division.
<u>23</u>	24 25 25 25 25 25 25 25 25 25 25 25 25 25	CE LOCATION <i>IEXICO</i> EAST AD 1983 = 560482' W 104.345097' AD 1927 = 496533' = 660421' N 32 540707''	$\begin{array}{c} 19 \\ 30 \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 19 \\ 30 \\ \end{array} \\ \end{array} \\ \begin{array}{c} 19 \\ 30 \\ \end{array} \\ \end{array} \\ \begin{array}{c} 19 \\ 30 \\ \end{array} \\ \end{array} \\ \end{array}$	9 20 9 20 9 20 9 29 9 20 9 29 9 20 9 29 9 20 1/4/23 Signature Date Printed Name adayanzo@tascosaep.com
X = 537337' Y = 561805' 100' ~ 400'	AZ = 198.24	w 104.344584° X = 542656° Y = 561766°	X = 545279' Y = 561832'	X = 547902' Y = 561873'       E-mail Address         Burk VEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted fro field notes of actual surveys made by me or under my supervision, and t the same is true and correct to the best of my belief.         November 10, 2022
100'	<b>36</b>   X = 539958' Y = 559170'	<b>36</b> X = 542627' Y = 559151'	AZ = 89.82°, 10373.1' HZ SPACING UNIT 31 LAST TAKE POINT / BOTTOM HOLE NEW MEXTOR EAST	$\begin{array}{c} 100'\\ \hline 32\\ X = 547863'\\ Y = 559222' \end{array}$
	NEW MEL NAL X = 6 LAT. = N LONG. = W NAL X = 4 LAT. = N LONG. = W	NGU EAST 1983 337396' 595418' 32.538172° 104.346127° 19927 996215' 59458' 32.538057° 104.345614°	NEW WEAKG VAS1 NAD 1983           X = 547768'           Y = 55950'           LAT. = N 32.538260°           LONG. = W 104.312467°           NAD 1927           X = 506588'           Y = 559490'           LAT. = N 32.538144°           LONG. = W 104.311956°	Job No.: 22-11-2634 MATTHEW B. TOMERLIN, N.M.P.L.S. Certificate Number 23203

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

PERMIT CONDITIONS OF APPROVAL

Operator N	lame and Address:	API Number:						
	Tascosa Energy Partners, L.L.C [329748]	30-015-53282						
	901 W. Missouri Ave	Well:						
	Midland, TX 79701 CATALINA 25 30 STATE COM #204H							
OCD	Condition							
Reviewer								
kpickford	Will require administrative order for non-standard spacing unit							
kpickford	Notify OCD 24 hours prior to casing & cement							
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104							
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud							
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the sur	face, the operator shall drill without interruption through the fresh						
	water zone or zones and shall immediately set in cement the water protection string							
kpickford	ford Cement is required to circulate on both surface and intermediate1 strings of casing							
kpickford	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.						

rhi ıy ı٢ drilling fluids and solids must be contained in a steel closed loop system

Form APD Conditions

Permit 331655

# **Tascosa Energy Partners, LLC**

Eddy County, New Mexico Sec 25, T20-S, R26-E Catalina #204H

Wellbore #1

Plan: Design #1

# **KLX Well Planning Report**

15 November, 2022

Database: Company: Project: Site: Well: Wellbore: Design:	EDM Tasc Eddy Sec Cata Well Desi	I 5000.1 Singl osa Energy P / County, New 25, T20-S, R2 lina #204H bore #1 gn #1	le User Db lartners, LLC / Mexico 26-E		Local Co TVD Ref MD Refe North Ro Survey (	o-ordinate R erence: erence: eference: Calculation N	eference: Method:	Well Catalina WELL @ 331 WELL @ 331 Grid Minimum Cut	#204H 6.0usft 6.0usft rvature	
Project	Eddy	County, New	Mexico							
Map System: Geo Datum: Map Zone:	US Sta North A New M	ate Plane 198 American Datu exico Eastern	3 um 1983 1 Zone		System D	atum:	М	ean Sea Leve	el	
Site	Sec 2	5, T20-S, R20	6-E							
Site Position: From: Position Unce	Ma ertainty:	ap 0.	Nort East 0 usft Slot	hing: ing: Radius:	560, 537,	511.83 usft 563.09 usft 13-3/16 "	Latitude: Longitude: Grid Conve	ergence:		32° 32' 27.255 N 104° 20' 44.094 W -0.01 °
Well	Catali	na #204H								
Well Position	+N/-S +E/-W	-30 149	0.0 usft <b>N</b> 0.4 usft <b>E</b>	orthing: asting:		560,481.84 537,712.51	usft La usft Lo	titude: ngitude:		32° 32' 26.958 N 104° 20' 42.349 W
Position Unce	ertainty	0	0.0 usft 🛛 🛚 🛛	ellhead Ele	vation:		Gr	ound Level:		3,289.0 usft
Wollboro	\\/ollt	ore #1								
wendore	VVCIIL									
Magnetics	Мо	odel Name	Samp	le Date	Declina (°)	ation	Dip / (	Angle °)	Field S (r	itrength 1T)
		HDGM2022	2	11/7/2022		6.88		60.15	47,61	7.8000000
Design	Desig	n #1								
Audit Notes:										
Version:			Pha	se:	PLAN	Tie	e On Depth:		0.0	
Vertical Section	on:	D	epth From (1 (usft)	rvd)	+N/-S (usft)	+E (u	E/-W Isft)	Di	rection (°)	
			0.0		0.0	C	).0	!	93.41	
Plan Sections										
Measured Depth I (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,718.5	14.37	205.96	2,711.0	-80.6	-39.2	2.00	2.00	0.00	205.96	
4,803.0	14.37	205.96	4,789.0	-559.3	-272.3	0.00	0.00	0.00	180.00	VD Catalina #204U
0,002.1 6 051 3	0.00	360.00	5,500.0 5 969 2	-029.0 -630 8	-311.5 _211 5	2.00 0.00	-2.00 0 00	0.00	360.00	vr Ualaina #204H
6 426 3	45.00	100.00	6 306 8	-039.0 -664 1	-173.8	12 00	12 00	0.00	100.00	
6.799.8	88.84	89.49	6,450.0	-686 6	160 1	12.00	11.74	-2.81	-14.99	
16,702.6	88.84	89.49	6,650.0	-598.8	10,060.5	0.00	0.00	0.00	0.00	PBHL Catalina #20 <sup>,</sup>

.

Detabase	EDM 5000 1 Single Llear Dh	Local Co. ordinata Bafaranaa	Woll Catalina #204H
Dalabase.	LDW 5000. I Single Oser DD	Local Co-orunnale Reference.	
Company:	Tascosa Energy Partners, LLC	TVD Reference:	WELL @ 3316.0usft
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3316.0usft
Site:	Sec 25, T20-S, R26-E	North Reference:	Grid
Well:	Catalina #204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

#### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 2°/10 2,000.0 2,100.0 2,200.0 2,300.0 2,400.0	0.00 2.00 4.00 6.00 8.00	0.00 205.96 205.96 205.96 205.96	2,000.0 2,100.0 2,199.8 2,299.5 2,398.7	0.0 -1.6 -6.3 -14.1 -25.1	0.0 -0.8 -3.1 -6.9 -12.2	0.0 -0.7 -2.7 -6.0 -10.7	0.00 2.00 2.00 2.00 2.00	0.00 2.00 2.00 2.00 2.00	0.00 0.00 0.00 0.00 0.00 0.00
2,500.0 2,600.0 2,700.0	10.00 12.00 14.00 <b>37° Inc / 205 9</b>	205.96 205.96 205.96	2,497.5 2,595.6 2,693.1	-39.1 -56.3 -76.5	-19.1 -27.4 -37.2	-16.7 -24.0 -32.6	2.00 2.00 2.00	2.00 2.00 2.00	0.00 0.00 0.00
2,718.5	14.37 14.37 14.37	205.96 205.96	2,711.0 2.789.9	-80.6 -98.8	-39.2 -48.1	-34.4 -42.1	2.00 0.00	2.00 0.00	0.00
2,900.0 3,000.0 3,100.0 3,200.0 3,300.0	14.37 14.37 14.37 14.37 14.37	205.96 205.96 205.96 205.96 205.96	2,886.8 2,983.7 3,080.6 3,177.4 3,274.3	-121.1 -143.4 -165.7 -188.0 -210.3	-59.0 -69.8 -80.7 -91.5 -102.4	-51.7 -61.2 -70.7 -80.2 -89.7	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
3,400.0	14.37	205.96	3,371.2	-232.7	-113.3	-99.2	0.00	0.00	0.00
3,500.0	14.37	205.96	3,468.0	-255.0	-124.1	-108.8	0.00	0.00	0.00
3,600.0	14.37	205.96	3,564.9	-277.3	-135.0	-118.3	0.00	0.00	0.00
3,700.0	14.37	205.96	3,661.8	-299.6	-145.9	-127.8	0.00	0.00	0.00
3,800.0	14.37	205.96	3,758.7	-321.9	-156.7	-137.3	0.00	0.00	0.00
3,900.0	14.37	205.96	3,855.5	-344.2	-167.6	-146.8	0.00	0.00	0.00
4,000.0	14.37	205.96	3,952.4	-366.5	-178.5	-156.4	0.00	0.00	0.00
4,100.0	14.37	205.96	4,049.3	-388.9	-189.3	-165.9	0.00	0.00	0.00
4,200.0	14.37	205.96	4,146.1	-411.2	-200.2	-175.4	0.00	0.00	0.00
4,300.0	14.37	205.96	4,243.0	-433.5	-211.0	-184.9	0.00	0.00	0.00
4,400.0	14.37	205.96	4,339.9	-455.8	-221.9	-194.4	0.00	0.00	0.00
4,500.0	14.37	205.96	4,436.8	-478.1	-232.8	-204.0	0.00	0.00	0.00
4,600.0	14.37	205.96	4,533.6	-500.4	-243.6	-213.5	0.00	0.00	0.00
4,700.0	14.37	205.96	4,630.5	-522.7	-254.5	-223.0	0.00	0.00	0.00
4,800.0	14.37	205.96	4,727.4	-545.1	-265.4	-232.5	0.00	0.00	0.00
Drop 2°/10	0'								

.

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Catalina #204H
Company:	Tascosa Energy Partners, LLC	TVD Reference:	WELL @ 3316.0usft
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3316.0usft
Site:	Sec 25, T20-S, R26-E	North Reference:	Grid
Well: Wellbore: Design:	Catalina #204H Wellbore #1 Design #1	Survey Calculation Method:	Minimum Curvature

#### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,863.6 4,900.0 5,000.0 5,100.0 5,200.0	14.37 13.64 11.64 9.64 7.64	205.96 205.96 205.96 205.96 205.96	4,789.0 4,824.3 4,921.9 5,020.1 5,119.0	-559.3 -567.2 -586.8 -603.4 -617.0	-272.3 -276.1 -285.7 -293.8 -300.4	-238.6 -241.9 -250.3 -257.4 -263.2	0.00 2.00 2.00 2.00 2.00	0.00 -2.00 -2.00 -2.00 -2.00	0.00 0.00 0.00 0.00 0.00	
5,300.0 5,400.0 5,500.0	5.64 3.64 1.64	205.96 205.96 205.96	5,218.3 5,318.0 5,417.9	-627.4 -634.6 -638.8	-305.4 -309.0 -311.0	-267.6 -270.7 -272.5	2.00 2.00 2.00	-2.00 -2.00 -2.00	0.00 0.00 0.00	
5,582.1 5,600.0	0.00	360.00 0.00	5,500.0 5,517.9	-639.8 -639.8	-311.5 -311.5	-272.9 -272.9	2.00 0.00	-2.00 0.00	0.00 0.00	
5,700.0 5,800.0 5,900.0 6.000.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5,617.9 5,717.9 5,817.9 5.917.9	-639.8 -639.8 -639.8 -639.8	-311.5 -311.5 -311.5 -311.5	-272.9 -272.9 -272.9 -272.9	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	
Build 12°/1	00'		-,							
6,051.3	0.00	0.00	5,969.2	-639.8	-311.5	-272.9	0.00	0.00	0.00	
6,075.0 6,100.0 6,125.0 6,150.0 6,175.0	2.84 5.84 8.84 11.84 14.84	100.00 100.00 100.00 100.00 100.00	5,992.9 6,017.8 6,042.6 6,067.2 6,091.5	-639.9 -640.3 -640.8 -641.6 -642.6	-310.9 -309.1 -305.9 -301.5 -295.8	-272.4 -270.5 -267.3 -262.8 -257.1	12.00 12.00 12.00 12.00 12.00	12.00 12.00 12.00 12.00 12.00	0.00 0.00 0.00 0.00 0.00	
6,200.0 6,225.0 6,250.0 6,275.0 6,300.0	17.84 20.84 23.84 26.84 29.84	100.00 100.00 100.00 100.00 100.00	6,115.5 6,139.1 6,162.2 6,184.8 6,206.8	-643.8 -645.3 -646.9 -648.8 -650.8	-288.9 -280.7 -271.4 -260.9 -249.2	-250.1 -241.9 -232.5 -221.8 -210.1	12.00 12.00 12.00 12.00 12.00	12.00 12.00 12.00 12.00 12.00	0.00 0.00 0.00 0.00 0.00	
6,325.0 6,350.0 6,375.0 6,400.0	32.84 35.84 38.84 41.84	100.00 100.00 100.00 100.00	6,228.1 6,248.8 6,268.6 6,287.7	-653.1 -655.5 -658.2 -661.0	-236.4 -222.5 -207.5 -191.6	-197.1 -183.1 -168.1 -152.0	12.00 12.00 12.00 12.00	12.00 12.00 12.00 12.00	0.00 0.00 0.00 0.00	
EOB @ 45	° Inc / 100° Azı	m								
6,426.3	45.00	100.00	6,306.8	-664.1	-173.8	-134.0	12.00	12.00	0.00	
6,450.0 6,475.0 6,500.0 6,525.0 6,550.0	47.75 50.66 53.58 56.50 59.43	99.01 98.05 97.17 96.35 95.59	6,323.1 6,339.5 6,354.8 6,369.2 6,382.4	-666.9 -669.8 -672.4 -674.8 -677.0	-156.9 -138.2 -118.6 -98.3 -77.2	-117.0 -98.1 -78.5 -58.0 -36.8	12.00 12.00 12.00 12.00 12.00	11.61 11.64 11.67 11.70 11.72	-4.19 -3.83 -3.53 -3.27 -3.06	
6,575.0 6,600.0 6,625.0 6,650.0 6,675.0	62.36 65.30 68.24 71.18 74.13	94.87 94.19 93.54 92.91 92.31	6,394.6 6,405.6 6,415.5 6,424.1 6,431.6	-679.0 -680.7 -682.3 -683.6 -684.7	-55.5 -33.1 -10.2 13.2 37.1	-15.0 7.4 30.4 53.8 77.7	12.00 12.00 12.00 12.00 12.00	11.73 11.75 11.76 11.77 11.78	-2.88 -2.73 -2.60 -2.50 -2.41	
6,700.0 6,725.0 6,750.0 6,775.0	77.07 80.02 82.97 85.92	91.72 91.15 90.59 90.04	6,437.8 6,442.8 6,446.4 6,448.9	-685.5 -686.1 -686.5 -686.7	61.3 85.8 110.5 135.4	101.9 126.4 151.1 175.9	12.00 12.00 12.00 12.00	11.78 11.79 11.79 11.80	-2.34 -2.29 -2.24 -2.22	
EUB @ 88.	.84° Inc / 89.49	P Azm	6 450 0	606 6	160 1	200 E	12.00	11 00	2.20	
6,900.0 7,000.0 7,100.0 7,200.0 7,300.0	88.84 88.84 88.84 88.84 88.84 88.84	89.49 89.49 89.49 89.49 89.49 89.49 89.49	6,452.0 6,454.0 6,456.1 6,458.1 6,460.1	-685.7 -684.8 -683.9 -683.0 -682.1	260.3 360.3 460.3 560.2 660.2	200.6 300.6 400.3 500.1 599.8 699.6	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	-2.20 0.00 0.00 0.00 0.00 0.00	

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Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Catalina #204H
Company:	Tascosa Energy Partners, LLC	TVD Reference:	WELL @ 3316.0usft
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3316.0usft
Site:	Sec 25, T20-S, R26-E	North Reference:	Grid
Well:	Catalina #204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

#### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	()	()	. ,	()	()	. ,	. ,	· /	, <i>,</i>
7,400.0	88.84	89.49	6,462.1	-681.2	760.2	799.3	0.00	0.00	0.00
7,500.0	88.84	89.49	6,464.1	-680.4	860.2	899.1	0.00	0.00	0.00
7,600.0	88.84	89.49	6,466.2	-679.5	960.1	998.8	0.00	0.00	0.00
7,700.0	88.84	89.49	6,468,2	-678.6	1.060.1	1.098.6	0.00	0.00	0.00
7.800.0	88.84	89.49	6.470.2	-677.7	1,160,1	1,198.3	0.00	0.00	0.00
7 000 0	00.04	80.40	6 470 0	676.9	1 260 1	1 209 1	0.00	0.00	0.00
7,900.0	00.04	09.49	0,472.2	-070.0	1,200.1	1,290.1	0.00	0.00	0.00
0,000.0	00.04	09.49	0,474.2	-075.9	1,300.0	1,397.0	0.00	0.00	0.00
8,100.0	88.84	89.49	0,470.3	-075.0	1,460.0	1,497.6	0.00	0.00	0.00
8,200.0	88.84	89.49	0,478.3	-074.2	1,560.0	1,597.3	0.00	0.00	0.00
0,300.0	00.04	09.49	0,400.3	-073.3	1,000.0	1,697.0	0.00	0.00	0.00
8,400.0	88.84	89.49	6,482.3	-672.4	1,759.9	1,796.8	0.00	0.00	0.00
8,500.0	88.84	89.49	6,484.3	-671.5	1,859.9	1,896.5	0.00	0.00	0.00
8,600.0	88.84	89.49	6,486.4	-670.6	1,959.9	1,996.3	0.00	0.00	0.00
8,700.0	88.84	89.49	6,488.4	-669.7	2,059.9	2,096.0	0.00	0.00	0.00
8,800.0	88.84	89.49	6,490.4	-668.8	2,159.9	2,195.8	0.00	0.00	0.00
8.900.0	88.84	89.49	6.492.4	-668.0	2.259.8	2.295.5	0.00	0.00	0.00
9,000.0	88.84	89.49	6,494.4	-667.1	2.359.8	2,395.3	0.00	0.00	0.00
9.100.0	88.84	89.49	6.496.5	-666.2	2.459.8	2,495.0	0.00	0.00	0.00
9,200.0	88.84	89.49	6,498.5	-665.3	2,559.8	2,594.8	0.00	0.00	0.00
9,300.0	88.84	89.49	6,500.5	-664.4	2,659.7	2,694.5	0.00	0.00	0.00
9 400 0	88 84	80 40	6 502 5	-663 5	2 759 7	2 794 3	0.00	0.00	0.00
9,400.0	88 84	80.40	6 504 5	-662.6	2,750.7	2,704.0	0.00	0.00	0.00
9,600.0	88.84	80.40	6 506 6	-661.8	2,050.7	2,004.0	0.00	0.00	0.00
9,000.0	88.84	80.40	6 508 6	-660.0	2,959.7	2,555.7	0.00	0.00	0.00
9,700.0	88.84	80.40	6,500.0	-660.0	3 159 6	3 103 2	0.00	0.00	0.00
9,000.0	00.04	09.49	0,510.0	-000.0	5,159.0	5,195.2	0.00	0.00	0.00
9,900.0	88.84	89.49	6,512.6	-659.1	3,259.6	3,293.0	0.00	0.00	0.00
10,000.0	88.84	89.49	6,514.6	-658.2	3,359.6	3,392.7	0.00	0.00	0.00
10,100.0	88.84	89.49	6,516.7	-657.3	3,459.5	3,492.5	0.00	0.00	0.00
10,200.0	88.84	89.49	6,518.7	-656.4	3,559.5	3,592.2	0.00	0.00	0.00
10,300.0	88.84	89.49	6,520.7	-655.6	3,659.5	3,692.0	0.00	0.00	0.00
10,400.0	88.84	89.49	6,522.7	-654.7	3,759.5	3,791.7	0.00	0.00	0.00
10,500.0	88.84	89.49	6,524.7	-653.8	3,859.4	3,891.5	0.00	0.00	0.00
10,600.0	88.84	89.49	6,526.8	-652.9	3,959.4	3,991.2	0.00	0.00	0.00
10,700.0	88.84	89.49	6,528.8	-652.0	4,059.4	4,091.0	0.00	0.00	0.00
10,800.0	88.84	89.49	6,530.8	-651.1	4,159.4	4,190.7	0.00	0.00	0.00
10.900.0	88.84	89.49	6.532.8	-650.2	4.259.3	4.290.5	0.00	0.00	0.00
11.000.0	88.84	89.49	6.534.8	-649.4	4.359.3	4,390.2	0.00	0.00	0.00
11,100.0	88.84	89.49	6.536.8	-648.5	4,459,3	4,489,9	0.00	0.00	0.00
11,200.0	88.84	89.49	6.538.9	-647.6	4.559.3	4,589.7	0.00	0.00	0.00
11,300.0	88.84	89.49	6,540.9	-646.7	4,659.2	4,689.4	0.00	0.00	0.00
11 400 0	88 84	89 49	6 542 9	-645.8	4 759 2	4 789 2	0.00	0.00	0.00
11,100.0	88.84	89.49	6 544 9	-644 9	4 859 2	4 888 9	0.00	0.00	0.00
11,000.0	88 84	89.49	6 546 9	-644 0	4 959 2	4 988 7	0.00	0.00	0.00
11,000.0	88 84	89.49	6 549 0	-643 1	5 059 1	5 088 4	0.00	0.00	0.00
11,800.0	88.84	89.49	6,551.0	-642.3	5,159.1	5,188.2	0.00	0.00	0.00
11 000 0	00 04	80.40	6 553 0	-641 4	5 250 1	5 297 0	0.00	0.00	0.00
12 000 0	00.04 00.04	20.49 20.40	6 555 0	-041.4	5 250 1	5,207.9	0.00	0.00	0.00
12,000.0	00.04 00.04	09.49 20.40	6 557 0	-040.0	5,559.1	5,301.1	0.00	0.00	0.00
12,100.0	00.04 00.04	09.49 20.40	6 550 1	-039.0	5,459.0	5,407.4 5 5 2 7 0	0.00	0.00	0.00
12,200.0	00.04 88 84	89.49	6 561 1	-637.8	5,559.0	5 686 9	0.00	0.00	0.00
10,400.0	00.04	00.40	6,501.1	600.0	E 750 0	E 700 0	0.00	0.00	0.00
12,400.0	88.84	89.49	0,003.1	-030.9	5,759.0	5,780.6	0.00	0.00	0.00
12,500.0	88.84	89.49	0,005.1	-030.1	5,859.0	5,886.4	0.00	0.00	0.00
12,600.0	88.84	89.49	0,00/.1	-035.2	5,958.9	5,986.1	0.00	0.00	0.00
12,700.0	88.84	89.49	0,569.2	-034.3	0,058.9	0,085.9	0.00	0.00	0.00

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Database: Company:	EDM 5000.1 Single User Db Tascosa Energy Partners, LLC	Local Co-ordinate Reference:	Well Catalina #204H
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3316.0usft
Site: Well:	Catalina #204H	North Reference: Survey Calculation Method:	Grid Minimum Curvature
Wellbore: Design:	Wellbore #1 Design #1		

#### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,800.0	88.84	89.49	6,571.2	-633.4	6,158.9	6,185.6	0.00	0.00	0.00
12,900.0 13,000.0 13,100.0 13,200.0 13,300.0 13,400.0 13,500.0 13,600.0 13,700.0 13,800.0	88.84 88.84 88.84 88.84 88.84 88.84 88.84 88.84 88.84 88.84 88.84	89.49 89.49 89.49 89.49 89.49 89.49 89.49 89.49 89.49 89.49 89.49	6,573.2 6,575.2 6,577.2 6,579.3 6,581.3 6,583.3 6,585.3 6,585.3 6,587.3 6,589.4 6,591.4	-632.5 -631.6 -630.7 -629.9 -629.0 -628.1 -627.2 -626.3 -625.4 -624.5	6,258.9 6,358.8 6,458.8 6,558.8 6,558.8 6,758.7 6,858.7 6,958.7 7,058.7 7,158.6	6,285.4 6,385.1 6,484.9 6,584.6 6,684.4 6,784.1 6,883.9 6,983.6 7,083.3 7,183.1	$\begin{array}{c} 0.00\\$	$\begin{array}{c} 0.00\\$	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
13,900.0 14,000.0 14,100.0 14,200.0 14,300.0	88.84 88.84 88.84 88.84 88.84	89.49 89.49 89.49 89.49 89.49	6,593.4 6,595.4 6,597.4 6,599.5 6,601.5	-623.7 -622.8 -621.9 -621.0 -620.1	7,258.6 7,358.6 7,458.6 7,558.5 7,658.5	7,282.8 7,382.6 7,482.3 7,582.1 7,681.8	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
14,400.0 14,500.0 14,600.0 14,700.0 14,800.0	88.84 88.84 88.84 88.84 88.84	89.49 89.49 89.49 89.49 89.49	6,603.5 6,605.5 6,607.5 6,609.6 6,611.6	-619.2 -618.3 -617.5 -616.6 -615.7	7,758.5 7,858.5 7,958.4 8,058.4 8,158.4	7,781.6 7,881.3 7,981.1 8,080.8 8,180.6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
14,900.0 15,000.0 15,100.0 15,200.0 15,300.0	88.84 88.84 88.84 88.84 88.84	89.49 89.49 89.49 89.49 89.49 89.49	6,613.6 6,615.6 6,617.6 6,619.7 6,621.7	-614.8 -613.9 -613.0 -612.1 -611.3	8,258.4 8,358.3 8,458.3 8,558.3 8,658.3	8,280.3 8,380.1 8,479.8 8,579.5 8,679.3	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
15,400.0 15,500.0 15,600.0 15,700.0 15,800.0	88.84 88.84 88.84 88.84 88.84	89.49 89.49 89.49 89.49 89.49	6,623.7 6,625.7 6,627.7 6,629.8 6,631.8	-610.4 -609.5 -608.6 -607.7 -606.8	8,758.2 8,858.2 8,958.2 9,058.2 9,158.1	8,779.0 8,878.8 8,978.5 9,078.3 9,178.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
15,900.0 16,000.0 16,100.0 16,200.0 16,300.0 16,400.0 16,500.0	88.84 88.84 88.84 88.84 88.84 88.84 88.84	89.49 89.49 89.49 89.49 89.49 89.49 89.49 89.49	6,633.8 6,635.8 6,637.8 6,639.9 6,641.9 6,643.9 6,645.9	-605.9 -605.1 -604.2 -603.3 -602.4 -601.5 -600.6	9,258.1 9,358.1 9,458.1 9,558.1 9,658.0 9,758.0 9,858.0	9,277.8 9,377.5 9,477.3 9,577.0 9,676.8 9,776.5 9,876.2	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00
16,600.0 TD @ 1670	88.84 <b>3' MD / 6650'</b> '	89.49 TVD	6,647.9	-599.7	9,958.0	9,976.0	0.00	0.00	0.00
16,702.6	88.84	89.49	6,650.0	-598.8	10,060.5	10,078.3	0.00	0.00	0.00

Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.1 Single User Db Tascosa Energy Partners, LLC Eddy County, New Mexico Sec 25, T20-S, R26-E Catalina #204H Wellbore #1 Design #1			Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:			Well Catalina #204H WELL @ 3316.0usft WELL @ 3316.0usft Grid Minimum Curvature		
Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VP Catalina #204H - plan hits target o - Point	0.00 center	0.00	5,500.0	-639.8	-311.5	559,842.00	537,401.0	0 32° 32' 20.626 N	104° 20' 45.987 W
PBHL Catalina #204F - plan hits target o - Point	l 0.00 center	0.00	6,650.0	-598.8	10,060.5	559,883.00	547,773.0	0 32° 32' 21.028 N	104° 18' 44.819 W

**Plan Annotations** 

Measure	ed Vertical	Local Co	oordinates	Comment
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	
2,000	0.0         2,000.0           3.5         2,711.0           3.6         4,789.0           2.1         5,500.0           1.3         5,969.2	0.0	0.0	Build 2°/100'
2,718		-80.6	-39.2	EOB @ 14.37° Inc / 205.96° Azm
4,863		-559.3	-272.3	Drop 2°/100'
5,582		-639.8	-311.5	EOD @ Vert
6,05		-639.8	-311.5	Build 12°/100'
6,426	5.3         6,306.8           9.8         6,450.0           2.6         6,650.0	-664.1	-173.8	EOB @ 45° Inc / 100° Azm
6,799		-686.6	160.1	EOB @ 88.84° Inc / 89.49° Azm
16,702		-598.8	10,060.5	TD @ 16703' MD / 6650' TVD

SEC 25, T20S, R26E, Eddy County, New Mexico

This well and its anticipated facility are <u>not</u> expected to have hydrogen sulfide releases. However, there may be H2S production in the nearby area. There are no occupied dwellings in the area, but to comply with onshore order 6, if unexpected H2S is detected, Tascosa will implement the H2S plan shown below. Tascosa Energy Partners, LLC will have a company representative living on location throughout the drilling and completion of this well. If H2S is detected or suspected, monitoring equipment will be available for monitoring and/or testing. An un-manned H2S safety trailer and monitoring equipment will also be stationed on location during the drilling operations, below the surface casing depth of  $\pm$  500 ft. to total drilling depth of  $\pm$  16,703 ft. It will have detection probes placed in the substructure, at the shale shaker and on the drill floor.

SEC 25, T20S, R26E, Eddy County, New Mexico

EMERGENCY CALL LIST: (Start and continue until ONE of these people have been contacted)

	OFFICE	MOBILE	HOME
Tascosa Energy, LLC.	432 695-6970		
Jeff Birkelbach	432 695-6970	432 288-5874	
Alyssa McNear		720 244 4417	
Richard Wright	432 695 6970	432 556 7595	
Brian Kirkland		432 770-2325	
Kevin Herrmann	432 695-6970	432 254-9106	

#### **EMERGENCY RESPONSE NUMBERS:**

State Police: State Police:	Eddy County Lea County		575 748 9718 575 392 5588
Sheriff Sheriff	Eddy County Lea County		575 746 2701
Emergency Medical Ser (Ambulance)	Eddy County Lea County	Eunice	911 or 575 746 2701 911 or 575 394 3258
Emergency Response	Eddy County SERC		575 476 9620
Artesia Police Dept Artesia Fire Dept			575 746 5001 575 746 5001
Carlsbad Police Dept Carlsbad Fire Dept			575 885 2111 575 885 3125
Loco Hills Police Dept			575 677 2349
Jal Police Dept Jal Fire Dept			575 395 2501 575 395 2221

SEC 25, T20S, R26E, Eddy County, New Mexico

Jal ambulance		575 395 2221
Eunice Police Dept Eunice Fire Dept Eunice Ambulance		575 394 0112 575 394 3258 575 394 3258
Hobbs Police Dept		
NMOCD	District 1 (Lea, Roosevelt, Curry) District 2 ( Eddy Chavez)	575 393 6161 575 748 1283
BLM Carlsbad BLM Hobbs		575 234 5972 575 393 3612
Lea County Information		575 393 8203
Midland Safety	Lea/Eddy County	432 520 3838 888 262 4964
American Safety	Lea/Eddy County	575 746 1096
		575 393 3093
Halliburton	Artesia	800 844 8451
	Hobbs	800 844 8451
	Midland	800 844 8451
Halliburton Services		800 844 8451
Wild Well Control	Midland	281 78 <i>1 1</i> 700
	mana	281 443 4873

SEC 25, T20S, R26E, Eddy County, New Mexico

#### General H2S Emergency Actions:

- 1. All personnel will immediately evacuate to an up-wind and if possible, up-hill "safe area"
- 2. If for any reason a person must enter the hazardous area, they must wear a SCBA (Self Contained Breathing Apparatus)
- 3. Always use the "buddy system"
- 4. Isolate the well/problem if possible
- 5. Account for all personnel
- 6. Display the proper colors warning all unsuspecting personnel of the danger at hand.
- 7. Contact the Company personnel as soon as possible if not at the location. ( use the enclosed call list as instructed

At this point the company representative will evaluate the situation and coordinate the necessary duties to bring the situation under control, and if necessary, the notification of the emergency response agencies and nearby residents.

## EMERGENCY PROCEDURES FOR AN UNCONTROLLABLE RELEASE OF H2S

- 1. All personnel will wear the self-contained breathing apparatus.
- 2. Remove all personnel to the "safe area". (Always use the buddy system).
- 3. Contact company personnel if not on location.
- 4. Set in motion the steps to protect and or remove the "general public" to an upwind "safe area". Maintain strict security & safety procedures while dealing with the source.
- 5. No entry to any unauthorized personnel.
- Notify the appropriate agencies: City Police-City Street (s) State Police- State Rd County Sheriff – County Rd.
- 7. Call the BLM &/or NMOCD

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# **PROTECTION OF THE GENERAL PUBLIC ( Radius of Exposure):**

- 100 ppm at any public area (any place not associated with this site)
- 500 ppm at any public road (any road which the "general public" may travel)
- 100 ppm radius of ¼ mile in New Mexico will be assumed if there is insufficient data to do the calculations, and there is a reasonable expectation that H2S could be present in concentrations greater than 100 ppm in the gas mixture

# CALCULATIONS FOR THE 100 PPM (ROE) "Pasquill-Gifford equation"

X = [(1.589) (mole fraction) (Q- volume in std cu ft)] to the power of (0.6258)

# CALCULATION FOR THE 500 PPM ROE:

# X = [(.4546) (mole fraction) (Q- volume in std cu ft)] to the power of (0.6258)

## Example:

If a well/facility has been determined to have 150 / 500 ppm H2S in the gas mixture and the well/facility is producing at a gas rate of 100 MCFPD then:

150 ppm X= [(1.589) (.00015) (100,000 cfd )] to the power of (.6258) X= 7 ft

500 ppm X= [(.4546) ( .0005) (100,000 cfd )] to the power of ( .6258) X = 3.3 ft.

#### (These calculations will be forwarded to the appropriate District NMOCD office when Applicable)

## **PUBLIC EVACUATION PLAN:**

- 1. Notification of the emergency response agencies of the hazardous condition and implement evacuation procedures.
- A trained person in H2S safety, shall monitor with detection equipment the H2S concentration, wind and area exposure (ROE). This person will determine the outer perimeter of the hazardous area. The extent of the evacuation area will be determined from the data being collected. Monitoring shall continue until the situation has been resolved. (All monitoring equipment shall be UL approved, for use in class 1 groups A, B, C & D, Division 1, hazardous locations. All monitor will have a minimum capability of measuring H2S, oxygen, and flammable values).

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- Law enforcement shall be notified to set up necessary barriers and maintain such for the duration of the situation as well as aid in the evacuation procedure.
- The company supervising personnel shall stay in communication with all agencies throughout the duration of the situation and inform such agencies when the situation has been contained and the affected area(s) is safe to enter.

# PROCEDURE FOR IGNITING AN UNCONTROLABLE CONDITION:

- 1. Human life and/or property are in danger
- 2. There is no hope of bringing the situation under control with the prevailing conditions at the site.

# **INSTRUCTION FOR IGNITION:**

- 1. Two people are required. They must be equipped with positive pressure, "self contained breathing apparatus" and a "D" ring style full body, OSHA approved safety harness. Nonflammable rope will be attached.
- 2. One of the people will be qualified safety person who will test the atmosphere for H2S, Oxygen & LFL. The other person will be the company supervisor; he is responsible for igniting the well.
- 3. Ignite up wind from a distance no closer than necessary. Make sure that where you ignite from has the maximum escape avenue available. A 25 mm flare gun shall be used, with a ± 500 ft. range to ignite the gas.
- 4. Prior to ignition, make a final check for combustible gases.
- 5. Following ignition, continue with the emergency actions & procedures as before.

# A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.

- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:
  - Well control equipment

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- a. Flare line 100' from wellhead to be ignited by flare gun or automatic striker.
- b. Choke manifold with a remotely operated choke.
- c. Mud/gas separator

Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escape packs —4 packs shall be stored on the rig floor the sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher
- H2S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
  - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
  - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
  - c. Two wind socks will be placed in strategic locations, visible from all angles.
- Mud program: Only utilized if H2S has been detected The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.
- Metallurgy: Only utilized if H2S has been detected
  - a. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
  - b. All elastomers used for packing and seals shall be H2S trim.
- Communication: **Only utilized if H2S has been detected**

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Communication will be via two way radio in emergency and company vehicles. Cell phones and land lines where available.

# USING SELF CONTAINED BREATHING AIR EQUIPMENT (SCBA):

- (SCBA) SHOULD BE WORN WHEN ANY OF THE FOLLOWING ARE PERFORMED: Only utilized if H2S has been detected
  - > Working near the top or on top of a tank
  - > Disconnecting any line where H2S can reasonably be expected
  - > Sampling air in the area to determine if toxic concentrations of H2S exist.
  - > Working in areas where over 10 ppm on H2S has been detected.
  - > At any time there is a doubt as the level of H2S in the area.
- All personnel shall be trained in the use of SCBA prior to working in a potentially hazardous location.
- Facial hair and standard eyeglasses are not allowed with SCBA.
- Contact lenses are never allowed with SCBA.
- Air quality shall continuously be checked during the entire operation.
- After each use, the SCBA unit shall be cleaned, disinfected, serviced and inspected
- All SCBA shall be inspected monthly.

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# **RESCUE AND FIRST AID FOR VICTIMS OF HYDROGEN SULFIDE (H2S) POISONING:**

- Do not panic
- Remain Calm & think
- Get on the breathing apparatus
- Remove the victim to the safe breathing area as quickly as possible. Up wind an uphill from source or cross wind to achieve upwind.
- Notify emergency response personnel.
- Provide artificial respiration and or CPR, as necessary

Various Gases

- Remove all contaminated clothing to avoid further exposure.
- A minimum of two personnel on location shall be trained in CPR and First Aid.

# Hydrogen Sulfide (H2S) Toxic Effects

H2S is extremely toxic. The acceptable ceiling for eight hours of exposure is 10 ppm, which is .001% by volume. H2S is approximately 20% heavier than air (Sp. Gr= 1.19)(Air = 1) and H2S is colorless. It forms an explosive mixture with air between 4.3% and 46%. By volume hydrogen sulfide is almost as toxic as hydrogen cyanide and 5-6 times more toxic than carbon monoxide.

COMMON NAME	CHEMICAL ABBREV.	SPECIFIC GRVTY.	THRESHOLD LIMITS	HAZARDOUS LIMITS	LETHAL CONCENTRATIONS
Hydrogen			10ppm 15		
Sulfide	H2S	1.19	ppm	100 ppm/hr	600 ppm
Hydrogen					
Cyanide	HCN	0.94	10 ppm	150 ppm/hr	300 ppm
Sulfur Dioxide	SO2	2.21	2 ppm	N/A	1000 ppm
Chlorine	CL2	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon					
Monoxide	CO	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon					
Dioxide	CO2	1.52	5000 ppm	5%	10%
				Combustible@	
Methane	CH4	0.55	90,000	5%	N/A

# **Threshold Limit:** Concentrations at which it is believed that all workers may be repeatedly exposed, day after day without adverse effects.

Hazardous Limit: Concentrations that may cause death.

Lethal Concentrations: Concentrations that will cause death with short term exposure.

Threshold Limit- 10 ppm: NIOSH guide to chemical hazards.

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#### PHYSICAL EFFECTS OF HYDROGEN SULFIDE:

CONCE	NTRATION	PHYSICAL EFFECTS
		Obvious and unpleasant odor. Safe for 8 hour
.001%	10 PPM	exposure
		Can cause some flu like symptoms and can
.005%	50 ppm	cause pneumonia
F		
		Kills the sense of smell in 3-15 minutes. May
.01%	100 ppm	irritate the eyes
		and throat.
		Kills the sense of smell rapidly. Severely irritates
.02%	200 ppm	the eyes and
		throat. Severe flu like symptoms after 4 or more
		hours. May
		cause lung damage and or death.
		Loss of consciousness quickly, death will result if
.06%	600 ppm	not rescued
		promptly.

Well name:

# Catalina 2530 State Com # 204H

Operator: Tascosa Energy Partners, LLC

String type: Surface Casing (500)

Location: Eddy County, New Mexico. 1296 FSL & 400 FWL, Sec 25, T20S, R26E BHL Planned: 330 FSL & 100 FEL, Sec 30, T20S, R27E

Design parameters: Collapse			Minimum	design facto	ors:	Environme	ent: ered?	No		
Mud weight:			9.00	ppg	DF	1,125	Surface tem	perature:	75.00	)°F
Design is ba	ased on evacu	uated pipe.	0.00	PP9	51		BHTemp	porataro.	79	)°F
							Temp gradie	ent:	0.80	) °F/100ft
							Minimum se	c length:	500	) ft
					Burst:		Minimum Dr	ift:	12.25	5 in
					DF	1.10	Cement top:		Surface	
<u>Burst</u>										
Max anticipa	ated surface									
pressure		=	250.00	psi						
Internal grad	dient:	=	0.12	psi/ft	Tension:		Non-directio	nal string.		
Calculated E	ЗНР	=	310.00	psi	8 Rd STC:	1.80	(J)			
					8 Rd LTC:	1.80	(J)			
No backup	mud specifie	ed.			Buttress:	1.60	(J)			
•	•				Premium:	1.50	(J)			
					Body yield:	1.50	(B)	Re subseq	uent strings:	
							Next setting	depth:	3,000.00	ft
				Tension is l	based on buoy	/ed wgt.	Next mud w	eight:	10.00	ppg
				Neutral pt:	453.00	ft	Next setting	BHP:	1,482.00	psi
Maximum Lif	ft using 14.8 p	pg cmt to sur	face with 8.5	i ppg mud fille	d csg=		Fracture mu	d wt:	11.00	ppg
23,014 lbs lif	t. String wgt =	= 24,600 lbs. (	Chain down	casing prior to	o cmt job		Safety Facto	or Injection	1.00	ppg
for Safety.							Fracture dep	oth:	500.00	ft
							Injection pre	ssure	312.00	psi
Run	Seament		Nominal		End	True Vert	Measured	Drift	Internal	Internal
Seq	Length	Size	Weight	Grade	Finish	Depth	Depth	Diameter	Capacity	Capacity
•	(ft)	(in)	(lbs/ft)			(ft)	(ft)	(in)	(ft <sup>3</sup> )	(bbls)
1	45	13.375	48.00	H-40	ST&C	500	500	12.59	440.9	78.54
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension	
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design	
	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(Kips)	(Kips)	Factor	
1	234	740	3.16	312	1730	5.54	24	322	13.417	
	Prepared				Phone: (432	) 695 6970	Date:	01/30/22		

Prepared by: Richard Wright

Remarks:

Collapse is based on a vertical depth of 500 ft, a mud weight of 9.0 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

FAX: (432) 695 6973

Midland, Texas

Burst strength is not adjusted for tension.

# Well name: Catalina 2530 State Com # 204H

Operator: Tascosa Energy Partners, LLC

String type: Intermediate Casing (3,000)

Location:Eddy County, New Mexico. 1296 FSL & 400 FWL, Sec 25, T20S, R26EBHL Planned:330 FSL & 100 FEL, Sec 30, T20S, R27E

Design pa	Design parameters: Collanse			Minimum	design fact	ors:	Environment:			
Mud weight	·-		9 50	nna	DE	1 1 2 5	Surface tem	nerature:	75.00	°F
Design is h	ased on evacu	lated nine	3.00	PP9	Ы	1.125	BH Temp	perature.	00	°F
Design is b		lated pipe.					Temp Gradi	ont	0.80	°E/100ft
							Minimum Se	c I enath	1500	ft
					Buret:		Minimum Dr	ift.	8 75	75 in
					DE DE	1 15	Cement top		Surface	
Burst					51		o onnonic top.		oundoo	
Max anticip	ated surface									
pressure:			1,902.00	psi						
Internal gra	dient:		0.12	psi/ft	<u>Tension:</u>		Non-directio	nal string.		
Calculated	BHP		2,262.00	psi	8 Rd STC:	1.80	(J)			
					8 Rd LTC:	1.80	(J)			
No backup mud specified.					Buttress:	1.60	(J)			
					Premium:	1.50	(J)			
					Body yield:	1.50	(B)	Re subsequ	uent strings	:
							Next setting	depth:	12,818	ft MD
			Tension is	based on buo	yed wgt.	Next setting	depth:	7,880	ft TVD	
				Neutral pt:	± 2578	ft	Next mud weight:		9.5	ppg
							Next setting BHP:		3,893	psi
							Fracture mu	d wt:	13.5	ppg
							Safety Facto	or-Injection	1	ppg
							Fracture dep	oth:	3000	ft
							Injection pre	ssure	2,262	psi
Run	Segment		Nominal		End	True Vert	Measured	Drift	ID	Internal
Sea	Lenath	Size	Weiaht	Grade	Finish	Depth	Depth	Diameter	Diameter	Capacity
	(ft)	(in)	(lbs/ft)			(ft)	(ft)	(in)	(in)	(bbls)
1	3000	9.625	36	J-55	LT&C	3000	3000	8.796	8.921	232
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension	
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design	
	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(Kips)	(Kips)	Factor	
1	1482	2020	1.36	1902	3520	1.85	108	453	4.19 J	
	Prepared				Phone: (432	) 695 6970	Date:	01/30/22		
	by:	Richard Wri	ght		FAX: (432) 6	695 6973		Midland, Tex	xas	

Remarks:

Collapse is based on a vertical depth of 3,000 ft, a mud weight of 9.5 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

# Catalina 2530 State Com # 204H

Operator: Tascosa Energy Partners, LLC

## String type: Production Casing (± 16,703 ft MD) "FRAC"

Location: Eddy County, New Mexico. 1296 FSL & 400 FWL, Sec 25, T20S, R26E BHL Planned 330 FSL & 100 FEL, Sec 30, T20S, R27E

Design parameters:			Minimum o	design fact	ors:	Environment:	
<u>Collapse</u>				<u>Collapse:</u>		H2S considered?	No
Mud weight:			9.50 ppg	DF	1.125	Surface temperature:	75.00 °F
Design is based on evacuated pip	e.					Bottom hole temp:	125 °F
						Temperature gradient:	0.80 °F/100ft
						Minimum section lgth:	1,500 ft
				<u>Burst:</u>		Minimum Drift:	4.653 in
				DF	1.12	Cement top:	Surface ft
<u>Burst</u>							
Max anticipated surface							
pressure FRAC @ RATE:	10,000.00	psi					
Internal gradient:	0.434	psi/ft	Tension:			Directional Info - Build & F	Hold
Calculated BHP	12,841.00	psi	8 Rd STC:	1.80	(J)	KOP #1 ±	1,500 ft
backup mud specified.	0.434	psi/ft	8 Rd LTC:	1.80	(J)	KOP #2 ±	5,756 ft
Net Injection Pressure Surface	10,000.00	psi	Buttress:	1.60	(J)	Departure at shoe:	10,236 ft
Net Injection Pressure TVD	4,254.00	psi	Premium:	1.50	(J)	Maximum dogleg:	10 °/100ft
Annular surface PSI	0	psi	Body yield:	1.50	(B)	Inclination at shoe:	88.72 °
Frac Gradient	12.50	ppg					
Frac Gradient	0.65	psi/ft	Tension is b	ased on buc	yed weigh	t. (.85474 factor)	
			Neutral pt:	± 5,328 ft a	ssumes n	o friction	

Nominal True Vert Measured Drift ID Run Segment End Internal Length Size Weight Grade Finish Depth Depth Diameter Diameter Capacity Seq (lbs/ft) (ft) (in) (ft) (ft) (in) (in) (bbls) 16,703 TCBC-HT 16,703 1 5.5 20 CYP-110 6,650 4.653 4.778 367.0 Run Collapse Collapse Burst Burst Tension Tension Collapse Burst Tension Seq Load Strength Design Load Strength Design Load Strength Design (psi) Factor (psi) Factor (Kips) Factor (psi) (psi) (Kips) 80% it strgth over pull 1 3,233 12200 3.77 10000 12360 1.236 454.8 667 1.5J Prepared Phone: (432) 695 6970 Date: 01/30/22 by: Richard Wright FAX: (432) 695 6973 Midland, Texas

#### Remarks:

Collapse is based on a vertical depth of 6545 ft, a mud weight of 9.5 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

#### Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a tensile load which is added to the axial load

# Catalina 25 St Com # 204H: Cement Program

1. Surface hole depth = 500 ft. (79°F) TOC @surface w/ 200% W/O Surface hole = 17.5 inch Surface casing = 13.375" 48# H-40 STC Float Collar "PDC Drillable" 1 jts up. Hardware needed = 8 spring centralizers-(6) first 6 jts\_(1) every 3rd jt to surface 1 Guide shoe PDC Drillable 1 Float Collar (1 jt Up) PDC Drillable 2 thread lock (2) collar stops (15' up from shoe) + (15' up from FC)

#### Engineering Data <u>"Surface</u>":

500 ft 17.5 inch hole x 13.375" csg = .6946 cuft/ft X 500 X 3.0 excess = 1042 cu ft 44 ft 13.375" 54.5 # casing volume= .8679 X 44 ft = 38 cu ft **Total Cement volume required = 1080 cu ft.** 

<u>Lead slurry</u> "Scavenger" Anticipated Coverage (200-surf) = 417 cu ft "C" 61:26 poz w/ 1% CaCl2, 12.8 ppg yield 1.68 cu ft/sk = (271 sks)

#### Slurry 1 Cement Tested @ 80°F

Thickening Time 4hr 37 min Compressive Strength = 8:53\_500 psi; 24:00\_815 psi .07% FW in 2 hrs FL = NC Gel Strength = 10 sec 10.3; 10 min 26.2 PV = 16.2 YP = 18.3

<u>Tail Slurry Anticipated Coverage (500'-200)</u> = 625 cu ft Class "C" w/ 2% CaCl2 14.8 ppg yield 1.35 cu ft / sk = (463 sks)

#### Slurry 2 Cement Tested @ 79°F

Thickening Time 2hr 08 min Compressive Strength =  $5:53_500$  psi;  $36:00_1818$  psi 0% FW in 2 hrs FL = 100 ml/30 minGel Strength =  $10 \sec 15.3$ ; 10 min 19.9PV = 24YP = 17.8 Include 350 sks class "C" neat for top out + sack Calcium Chloride for mixing water (3%) if needed.

2. Intermediate hole depth=3,000 ft. (99° F) TOC @ Surface w/ 150% W/O open hole Intermediate hole = 12.25 inch Intermediate Casing = 9.625" 36# J-55 LTC Float Collar 1 jts up. Hardware needed = 12 spring cent space equally every 4 jts to 450 ft 1 Guide Shoe 1 float collar (1 jt up)

> 4 thread lock Casing Packer

# Engineering Data "Intermediate":

2500 ft 12 1/4inch open hole x 9.625 csg = .3132 cuft/ft X 2500 X 2.5 excess = **1958 cu ft** 500 ft 9.625 x 13.375" casing =.3765 cu ft/ft X 500 = **188 cu ft** 44 ft 9.625"36 # casing volume= .4340 X 44 ft = **19 cu ft Total Cement volume required = 2165 cu ft.** 

<u>Lead</u> Slurry Anticipated Coverage (2019-Surface) = 1754 cu ft "C" 61/26 poz w/ 2% Calcium Chloride 12.0 ppg yield 2.07 cu ft/sk = **(847 sks)** 

## Lead Slurry Tested @ 99°F

Thickening Time 5hr 59 min Compressive Strength = 24:00 hrs \_ 349 psi .2% in 2 hrs (2.5 ml/250 ml) Gel Strength = 10 Sec 17.6; 10 min 25.1 PV = 13.3 YP = 16.1

Tail Slurry Anticipated Coverage (3000-2500) = 411 cu ft Class "C" w/ 1% CaCl2 14.8 ppg yield 1.34 cu ft / sk = (306 sks)

#### Slurry 2 Cement Tested @ 100°F

Thickening Time 1hr 56 min Compressive Strength = 3:31\_500 psi; 36:0\_2229 psi .8% FW in 2 hrs FL = 100 ml/30 min Gel Strength = 10 sec 16.6; 10 min 16.7 PV = .7 YP = 17.5 Include 350 sks class "C" neat for top out + sack Calcium Chloride for mixing water (3%) if needed.

3. Production Hole Depth = ± 16,703 ft. <u>"± 6,650" TVD Max.</u> (Temp 126° F)\_TOC @ surface w/ 50% (W/O) OPEN HOLE <u>(1 stage cmt job). NEED 18 HR SERVICE TIME TO PUMP JOB !</u> Production Hole Part 1 = 8.75 inch 3,000 – 16,703 ft. (13,703) x.2526x1.5 =5,192 Cu Ft Production Hole Part 2 = 9.625 36# Csg x 5.5"Csg (3000') x .2691 = 807 Cu Ft Total Cement needed = 5,999 Cu Ft

5.5" seat = 16,703 MD. TOC calculated to Surface w/ 50% Washout open hole.

Production Casing = 5.5 inch 20 # RY 110 w/ GBDC or Equivalent Connections Hardware Needed = 70 spring Centralizers every 3<sup>rd</sup> jt. 9700 to surface 76 Rigid standoff Centralizers (1 every 3rd jt in lateral & Curve. Wet Float Shoe 8 thread lock Glass Disc float sub

Engineering Data "Production Casing Cement":

#### <u>Slurry 1 Coverage = (5,000-Surface ft)</u>

8.75" OH x 5.5" Csg = 2,000' x .2526 cu ft / ft x 1.5 = **758 cu ft.** 5.5" Csg x 9-5/8 36# csg = 3,000' x .2691 cu ft / ft = **807 cu ft.** Slurry 1 Total = 1,565 cu ft.

**Total Slurry 1 Recipe = (1,565 cu ft) (353 sacks**) class "C" 50/50 poz 10.5 ppg yield 4.43 cu ft/sk w/ 10% bentonite + 10% Silica Fume + 1.5% Sodium Metasilicate + 5 pps LCM.

#### Slurry 1 Cement Tested @ 141°F

Thickening Time 6hr 02 min Compressive Strength = 10:41\_ 50 psi; 15:29\_ 100 psi; 72 hr\_346 psi 1% in 2 hrs (2.5 ml/250 ml) Gel Strength = 10 Sec 22; 10 min 32 PV = 5.8 YP = 19

Slurry 2 Coverage = (16,703-5,000 ft) 11,703 ft 8-3/4" OH x 5.5" Csg = 11,703 x .2526 cu ft / ft x 1.5= 4,434 cu ft Shoe jt NA (44' X .1245) = 0 Cu Ft Slurry 2 Total = 4,434 cuft **Total Slurry 2 Recipe = (4,434 cu ft) (2,917 sacks)** class "H" 50/50 poz 13.2 ppg yield 1.52 cu ft/sk w/ 4% bentonite + .2% Sodium Metasilicate + 3 BWOW NaCl + .4% Fluid Loss Gas Migration Additive. 7.21 GPS H2O.

#### Slurry 2 Cement Tested @ 150°F

Thickening Time 5hr 37 min Compressive Strength = 9:34\_ 50 psi; 20:08\_ 500 psi; 72 hr\_1,622 psi 0% FW in 2 hrs FL = 100 ml/30 min Gel Strength = 10 sec 4; 10 min 8 PV = 120.9 YP = 13.2

#### Receive

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by O	CD: 1/17/	<b>/2023 11:0</b> 5	5:48 AM									P
nten	t	As Dril	led									
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# Catalina 25 30 State Com #204H – Natural Gas Management Plan

# **VI. Separation Equipment:**

Tascosa has sized a FWKO and a high pressure, 3-phase separator to allow for complete separation at our anticipated rates, with adequate retention times. Tank vapors will also be captured through a vapor recovery unit and sent to the Enterprise sales line through a compressor on location.

# **VII. Operational Practices:**

- a. Drilling Operations Tascosa will ensure that a flare stack is set at least 100' from the wellbore during drilling operations. This flare stack will be properly sized to handle the maximum expected release, ensuring that all natural gas produced during drilling operations can be flared (unless there is an equipment malfunction or if venting is necessary for safety reasons).
- b. Completion Operations Prior to flowback, Tascosa will ensure that the well is connected to a gathering system that can handle the expected gas volumes. During flowback, natural gas will be separated and flared until it is within the specs of the contracted gathering system (Enterprise).
- c. Production Operations Tascosa will conduct weekly AVO inspections and tackle equipment failures with haste. The emergency flare on location will be equipped with an auto-ignition, capable of handling the maximum expected release. Sight glasses will be installed on all tanks to eliminate gas releases due to gauging through thief hatches. A VRU will also be installed to capture tank vapors and reduce waste. In preparation of a VRU failure or planned maintenance, a backup combustor will be placed at the facility.
- d. Performance Standards
  - a. Tascosa will design completion and production equipment for maximum expected output and pressure to eliminate venting.
  - b. A properly sized flare stack will be placed at the facility with an automatic ignitor.
  - c. AVO inspections will be conducted at least once a week to prevent releases due to equipment failure. These inspections will be recorded for future review.
  - d. Tascosa is obligated to eliminate waste and will repair equipment failures as soon as possible.
- e. Measurement and Estimation A meter will be placed on the combustor and the flare stack to ensure combusted gas readings are accurate during a release event. If for any reason a meter reading is unavailable, released volumes will be estimated and reported.



# **VIII. Best Management Practices:**

Tascosa will aim to conduct surface maintenance without venting or flaring as much as possible. If planned maintenance is prolonged due to wait times for labor and equipment, Tascosa will shut in the producing well to prevent excess emissions. Tascosa will also minimized venting during downhole operations.

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

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

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

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

#### IX. Anticipated Natural Gas Production:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

# Section 4 - Notices

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

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

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

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

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

Signature: Alyssa McNear
Printed Name: Alyssa McNear
Title: Engineering Manger
E-mail Address: adavanzo@tascosaep.com
Date: 01/04/2023
Phone: 720-244-4417
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval: