Marker II (157): Hables, NM 8320 BULL APIN NO. WELL APIN NO. Barker II (157): APAL303 OIL CONSERVATION DIVISION Bull 5: Hold State Type of Lease Barker II (157): APAL303 Sunta Fe, NM 87505 S. Indicate Type of Lease BULS First Sc. Areais, NM 8210 Bull 5: Hold State Type of Lease S. Indicate Type of Lease BULS First Sc. Areais, NM 8210 Bull 5: Hold State Of & Case Lease No. S. Indicate Type of Lease C200 NOT USE THE HOLE NON DOLLOGENALS TO BULL OF TO DEPENDER PLACHAKE TO A MOTORY ALS, TO PERMEATOR NOT RECORNAL OF COMPARING PLACHAKE TO A MOTORY ALS, TO PERMEATOR NOT RECORNAL OF COMPARING PLACHAKE TO A MOTORY ALS, TO PERMEATOR NOT RECORNAL OF COMPARING PLACHAKE TO A MOTORY ALS, TO PERMEATOR NOT RECORNAL OF COMPARING PLACHAE TYPE of Mell. R. Well Number 2020 1. Type of Well: OIL Well State Com Gas Well State Com B. Well Number 2020 2. Name of Operator MOTORY ALS, TO PERMEAN OPERATING LLC. 9. OGRID Number 2021 B. Well Number 2020 3. Address of Operator MULL Centor 11. Elevation (Norw whether DR, RKB, RT, GR, ecc.) 11. Elevation (Norw whether DR, RKB, RT, GR, ecc.) 3. Lease MEDIAL WORK State Data Monore Data NOTICE OF INTENTION TO: COMMENCE OF INTENTION TO: CHARGE PLUE MORAING PLUE (19.157.14 NMAC. For Multiple Completions: Attach wellbare diagram of proposed completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated of stating any proposed or comopleted operations. (Clearly state all perti	Ceinerfully Copy P: Applophate Biard	514	te of New Mexico		Form Care 3
11 E. FURS S. Areas, SM 88210 OIL CONSERVATION DIVISION 5. Indicate Type of Lease 1100 Rink THE (SM 5346173 Santa Fe, NM 87505 5. Indicate Type of Lease 1100 Rink THE (SM 546163 Santa Fe, NM 87505 5. Indicate Type of Lease 1100 Rink THE (SM 546163 Santa Fe, NM 87505 5. Indicate Type of Lease 1100 Rink The SM 500 NOTICES AND REPORTS ON WELLS 6. State Coll & Clast Lease No. 1100 Rink THE (SM 500 NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement Nam 1100 Rink of Visit SPARMOR DOR PROPSALS TO BRILLOR TO DEEPEN OR PLUG BACK TO A Perta Vende 11 State Com 1100 Rink of Operator 9. OGRID Number 2028 9. OGRID Number 06 8830 11 Address of Operator 9. OGRID Number 0 6830 10. Pool name or Wildcat 11 Leiter P : 230 _ feet from the _ sorth _ line and _ 130 _ feet from the _ Best _ line and _ 130 _ feet from the _ Best _ line and _ 130 _ feet from the _ Best _ line and _ 130 _ feet from the _ Best _ line and _ 130 _ feet from the _ Best _ line and _ 140 _ feet from the _ Best _ line and _ 140 _ feet from the _ Best _ line and _ 140 _ feet from the _ Best _ line and _ 140 _ feet from the _ Best _ line and _ 140 _ feet from the _ Best _ line and _ 140 _ feet from the _ Best _ line and _ 140 _ feet from the _ Best _ line and _ 140 _ feet from the _ Best _ line and _ 140 _ feet from the _ Best _ line and _ 140 _ feet from the _ Best _ line and _ 140 _ feet from the _ Best _ line and _ 140 _ feet from the _ Best _ line and _ feet from the _ Best _ line an	1625 N. French Dr., Hobbs, NM 8824	0		WELL API	
1000 Rear Brave RJ, Adec, SM 87410 Santa Fe, NM 87505 6. Star Off. 2018. Clas Lease No. 1203 SUNDEY NOTICES AND REPORTS ON WELLS 6. Star Off. 2018. Clas Lease No. 1203 SUNDEY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement Nam Peter Venter Star Off. 1204 DO NOT USE THIS FORM FOR REPORTS TO DELLOR TO DEEPEN OR FLUG BACK TO A DEFENSIOR. USE "MULCATION TO PERMIT" (PORM.C-10) FOR SLCH 9. OGRID Number 20211 1. Type of Well: Oil Well Z Gas Well O Other 8. Well Number 20211 9. OGRID Number 0 5830 3. Address of Operator King The Man OPERATING LLC. 9. OGRID Number 0 5830 4. Well Lecention Unit Letter P 230 feet from the South line and 1301 feet from the East line South line and 1301 feet from the East line South line and 1301 feet from the East line South line and 1301 feet from the East line South line and 1301 feet from the East line South line and 1301 feet from the East line Complexity and NMPR County Lea 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRULLING OPNS P AND A CASING CLOSENDOR OF SYSTEM ON LINE COMPL 13. Describe proposed or completed operations. MULPPLE COMPL CAMMERCE DRULLING OPNS P AND A CASING COMPL A State all pertinent datas, and give pertinent datas, including estimated of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbere diagram of proposed completion or recompletion.	811 S. First St., Artesia, NM 88210			5. Indicate	Type of Lease
SUNDRY NOTICES AND REPORTS ON WELLS (D) NOT USE THE PORM FOR REPORTS AND REPORTS ON WELLS 7. Lease Rame or Unit Agreement Name DO NOT USE THE PORTALL OR TO DEPEND (CORM C-101) FOR SUCH Perta Verde 31 State Com 1. Type of Well: Oil Well Z Gas Well Other 8. Well Number 2028 2. Name of Operator Mono PERATING LLC. 9. OGRID Number © 5830 3. Address of Operator Molecular Road Difference of the Context of the Contex	1000 Rio Brazos Rd., Aztec, NM 874 <u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	0		51A	
IDD NOT USE THIS FORM FOR PROPOSALS TO DRILLOR TO DEFERENCE (UDG BACK TO A PROPOSALS). Peria Vorde 31 State Com 1. Type of Well: Oil Well Gas Well Other 8. Well Number 202H 2. Name of Operator with of Operator 9. OGRID Number 0 State 9. State 3. Address of Operator with of Operator 9. OGRID Number 0 Wildcat 9. State 4. Well Location 0. In the south line and issue of Wildcat 10. Pool name or Wildcat 4. Well Location 0. In the south line and issue of Wildcat 10. Pool name or Wildcat 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 11. Elevation (Show whether DR, RKB, RT, GR, etc.) SUBSEQUENT REPORT OF: REMEDIAL WORK SUBSEQUENT REPORT OF: REMEDIAL WORK SUBSEQUENT REPORT OF: REMEDIAL WORK DEFORM REPORATION TO: SUBSEQUENT REPORT OF: REMEDIAL WORK DEFORM REPORATION ID COMPLET C		OTICES AND REPOR	TS ON WELLS	7. Lease N	ame or Unit Agreement Name
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3. Address of Operator	1. Type of Well: Oil Well	Gas Well 🗌 Oth	ner		-
4. Well Location P 230 feet from the south inc and 1301 feet from the south inc and 1301 feet from the south inc and 1301 feet from the south inc 11. Elevation 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 11. Elevation (Show whether DR, RKB, RT, GR, etc.) NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: REMEDIAL WORK PLUG AND ABANDON CHARK ENDIAL WORK PLUG AND ABANDON OTHER: OTHER OTHER OTHER OTHER:	2. Name of Operator XTO PER	MIAN OPERATING LLC.		9. OGRID	Number 0 5830
Unit Letter P : 230 feet from the South line and	1	UILDING 5, MIDLAND, TX	79707		
Section 31 Township 19S Range 35E NMPM County Lea 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK DATA SUBSEQUENT REPORT OF: PERFORM RECOMUNDER CHANGE PLANS COMMENCE DRILLING OPNS. P AND A DOWNHOLE COMMINGE CASING CEMENT JOB CASING/CEMENT JOB Data Attrend CASING DOWNHOLE COMMINGE MULTIPLE COMPL CASING/CEMENT JOB PAND A CASING/CEMENT JOB MULTIPLE COMPL CASING/CEMENT JOB PAND A CASING/CEMENT JOB MULTIPLE COMPL CASING/CEMENT JOB PAND A CASING/CEMENT JOB MULTIPLE COMPL CASING/CEMENT JOB Commence data and proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. XTO Energy, Inc. requests permission to make the following changes to the original APD: Change SHL fr/200FSL & 1301FEL, Section 31-T19S-R35E to 50FNL & 2280FWL, Section 30-T19S-R35E					
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON CHANGE PLUG AND ABANDON CHANGE PLUG AND ABANDON CHANGE PLUG AND ABANDON PERFORM REMEDIAL WORK ALTERNIG CASING OTHER: OTHER: </td <td></td> <td></td> <td></td> <td></td> <td></td>					
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NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON ALTERING CASING PULL OR ALTER CASING MULTIPLE COMPL COMMENCE DRILLING OPNS. PAND A PULL OR ALTER CASING MULTIPLE COMPL COMMENCE DRILLING OPNS. PAND A COSED-LOOP SYSTEM OTHER: OTHER: OTHER: 13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. XTO Energy, Inc. requests permission to make the following changes to the original APD: Change Well Name from Peria Verde 31 State Com 202H to Peria Verde 31 State Com 402H Change BHL fr/230FSL & 1301'FEL, Section 31-T19S-R35E to 50'FNL & 1229'FWL, Section 31-T19S-R35E Change BHL fr/50'FNL & 1980'FEL, Section 31-T19S-R35E to 50'FNL & 2280'FWL, Section 30-T19S-R35E Spud Date: Rig Release Date:					
hereby certify that the information above is true and complete to the best of my knowledge and belief. SIGNATURE Conci Cuance TITLE Lead Regulatory Analyst DATE 5/3/23 Type or print name Cassie Evans E-mail address: cassie.evans@exxonmobil.com PHONE: 432.214.7887	CLOSED-LOOP SYSTEM OTHER: 13. Describe proposed or c of starting any propose proposed completion o XTO Energy, Inc. reques Change Well Name from Change SHL fr/230'FSL	mpleted operations. (0 d work). SEE RULE 19 r recompletion. sts permission to make 1 n Perla Verde 31 State 0 & 1301'FEL, Section 31	Clearly state all pertinen 9.15.7.14 NMAC. For I the following changes to Com 202H to Perla Verd I-T19S-R35E to 242'FSI	t details, and give pertine Multiple Completions: A the original APD: e 31 State Com 402H L & 1229'FWL, Section 31	ttach wellbore diagram of -T19S-R35E
SIGNATURE Cassie Evans TITLE Lead Regulatory Analyst DATE 5/3/23 Type or print name Cassie Evans E-mail address: cassie.evans@exxonmobil.com PHONE: 432.214.7887 For State Use Only For State Use Only For State Use Only Cassie Evans Cassie Evans					
Type or print name Cassie Evans E-mail address: cassie.evans@exxonmobil.com PHONE: 432.214.7887			omplete to the best of m	iy knowledge and belief.	
For State Use Only	SIGNATURE Caso i C	10MO-		/ Analyst	DATE5/3/23
APPROVED BY: TITLE DATE		vans	E-mail address: cassi	e.evans@exxonmobil.cor	n PHONE: 432.214.7887
	APPROVED BY:		_TITLE		DATE

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Received by OCD: 6/8/2023 7:27:13 PM

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

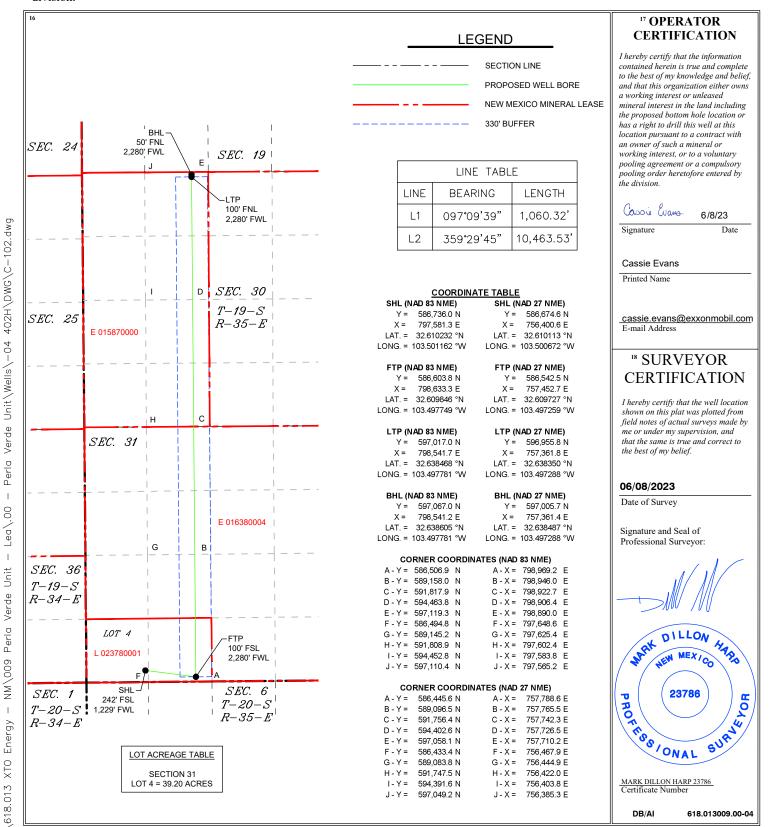
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹API Number Pool Name Pool Code **30-025-** 50 52 9 37570 Lea; Bone Spring ⁴ Property Code ⁵ Property Name Well Number PERLA VERDE 31 STATE COM 402H 313270 OGRID No. **Operator** Name Elevation 005380 **XTO ENERGY, INC.** 3,702' ¹⁰ Surface Location UL or lot no. Section Township North/South lin Feet from the East/West lin County Rang Lot Idn Feet from the 31 19 S 35 E 242 SOUTH 1,229 WEST LEA 4 "Bottom Hole Location If Different From Surface UL or lot no. Township Feet from th East/West line Range Lot Idn County Section Feet from the North/South lin С 30 19 S 35 E 50 NORTH 2,280 WEST LEA ¹²Dedicated Acres Joint or Infill Consolidation Code ⁵Order 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



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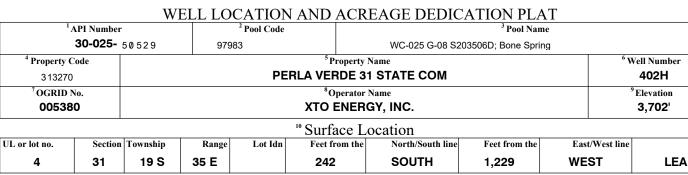
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

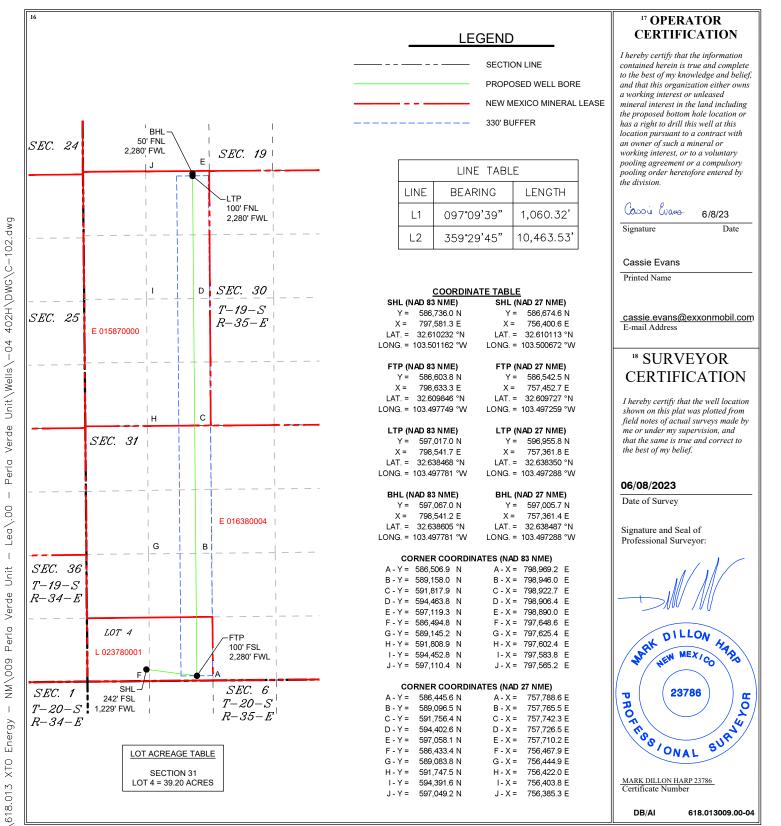
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT



	"Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	Range	Lot Idn	North/South line	Feet from the	East/West line	County				
С	30	19 S	35 E		50	NORTH	2,280	WEST	LEA			
¹² Dedicated Acres	¹³ Joint or	¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No.										
320												

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



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County

Long Lead_Well Planning

Perla Verde Perla Verde PERLA VERDE 31 STATE COM 402H

402H

Plan: Plan 1

Standard Planning Report

26 April, 2023

Database:		LMRKF	PROD3			Local Co-	ordinate Refe	rence:	Well PERLA VEF	RDE 31 STATE	COM 402H
Company:			ead Well Plar	nning		TVD Refe			RKB(3702+30)' (
Project:		Perla V	erde			MD Refere	ence:		RKB(3702+30)' (-	
Site:		Perla V	erde			North Ref	erence:		Grid	-	
Well:		PERLA	VERDE 31 S	TATE COM 402	2H	Survey Ca	Iculation Met	hod:	Minimum Curvat	ure	
Wellbore:		402H									
Design:		Plan 1									
Project		Perla Ve	rde								
Map System:		US State	Plane 1927 (F	Exact solution)		System Dat	um.	M	ean Sea Level		
Geo Datum:			(NADCON C			oystem bu					
Map Zone:		New Mexi	co East 3001								
Site		Perla Ve	erde								
Site Position:				Northi	ng:	586,	673.20 usft	Latitude:			32° 36' 36.399 N
From:		Мар		Eastin	g:	756,3	310.50 usft	Longitude:			103° 30' 3.473 W
Position Uncert	tainty:		3.0	usft Slot R	adius:	1	3-3/16 "				
Well		PERLA	/ERDE 31 ST	ATE COM 402	4						
Well Position		+N/-S	0	.0 usft No	rthing:		586,674.60	usft Lat	itude:		32° 36' 36.406 M
		+E/-W			sting:		756,400.60		ngitude:		103° 30' 2.420 V
Position Uncert	taintv				ellhead Elevati	ion:	0, . 00.00		ound Level:		3,702.0 ust
Grid Converger				45 °							<u>,</u> , <u>,</u> <u>,</u> <u>,</u> <u>,</u> <u>,</u> <u>,</u> <u>,</u> <u>,</u> <u>,</u>
Wellbore		402H									
Magnetics		Мос	lel Name	Sample	Date	Declina	tion		Angle	Field St	-
						(°)		(°)	(n1	
			IGRF2020		4/14/2023		6.33		60.20	47,53	6.19699622
Design		Plan 1									
Audit Notes:											
Version:				Phase	. P	PLAN	Tie	On Depth:		0.0	
								· • · · · · · · · ·		0.0	
			-								
Vertical Section	ו:		C	Depth From (TV	'D)	+N/-S (usft)		E/-W		ection	
Vertical Section	1:		[(usft)	'D)	(usft)	(u	isft)		(°)	
Vertical Section	ו:		['D)		(u				
Vertical Section		gram		(usft)	D)	(usft)	(u	isft)		(°)	
	ol Pro	gram Depth	Date	(usft) 0.0	D)	(usft)	(u	isft)		(°)	
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Plan Survey To Depth Fra (usft) 1 Plan Sections Measured Depth (usft) 0.0 2,000.0 3,000.4	ool Prog om 0.0 Inclin	Depth (usf 21,6i ation) 0.00 0.00 20.01	Date To 30.2 Plan 1 (Azimuth (°) 0.00 0.00 127.93	(usft) 0.0 4/26/2023 (Wellbore) (402H) Vertical Depth (usft) 0.0 2,000.0 2,980.2	+N/-S (usft) 0.0 0.0 -106.3	(usft) 0.0 Tool Name XOM_R2OWS OWSG MWD OWSG MWD +E/-W (usft) 0.0 0.0 136.4	(u GG MWD+IFR + IFR1 + Multi Dogleg Rate (°/100usft) 0.00 0.00 2.00	sft) 0.0 Remarks 1+ -S1 Build Rate (°/100usft) 0.00 0.00 2.00	Turn Rate (°/100usft) 0.00 0.00 0.00	(°) 9.50 	Target
Plan Survey To Depth Fro (usft) 1 Plan Sections Measured Depth (usft) 0.0 2,000.0 3,000.4 6,022.4	ool Prog om 0.0 Inclin	Depth (usf 21,6 ation) 0.00 0.00 20.01 20.01	Date To Survey 30.2 Plan 1 (Azimuth (°) 0.00 0.00 127.93 127.93	(usft) 0.0 4/26/2023 (Wellbore) (402H) Vertical Depth (usft) 0.0 2,000.0 2,980.2 5,819.8	+N/-S (usft) 0.0 -106.3 -741.8	(usft) 0.0 Tool Name XOM_R2OWS OWSG MWD OWSG MWD +E/-W (usft) 0.0 0.0 136.4 952.0	(u GG MWD+IFR + IFR1 + Multi Dogleg Rate (°/100usft) 0.00 0.00 2.00 0.00	sft) 0.0 Remarks 1+ -St Build Rate (°/100usft) 0.00 0.00 2.00 0.00	Turn Rate (°/100usft) 0.00 0.00 0.00 0.00	(°) 9.50 	Target
Plan Survey To Depth Fro (usft) 1 Plan Sections Measured Depth (usft) 0.0 2,000.0 3,000.4 6,022.4 7,022.8	ool Prog om 0.0 Inclin	Depth (usf 21,6 21,6 20,0 0,00 0,00 20,01 20,01 20,01 0,00	Date To 30.2 Plan 1 (Azimuth (°) 0.00 0.00 127.93 127.93 0.00	(usft) 0.0 4/26/2023 (Wellbore) (402H) Vertical Depth (usft) 0.0 2,000.0 2,980.2 5,819.8 6,800.0	+N/-S (usft) 0.0 -106.3 -741.8 -848.1	(usft) 0.0 Tool Name XOM_R2OWS OWSG MWD OWSG MWD +E/-W (usft) 0.0 0.0 136.4 952.0 1,088.3	(u GG MWD+IFR + IFR1 + Multi Dogleg Rate (°/100usft) 0.00 0.00 2.00 0.00 2.00	sft) 0.0 Remarks 1+ -St Build Rate (°/100usft) 0.00 0.00 2.00 0.00 -2.00	Turn Rate (°/100usft) 0.00 0.00 0.00 0.00 0.00 0.00	(°) 9.50 	Target
Plan Survey To Depth Fro (usft) 1 Plan Sections Measured Depth (usft) 0.0 2,000.0 3,000.4 6,022.4	ool Prog om 0.0 Inclin	Depth (usf 21,6 ation) 0.00 0.00 20.01 20.01	Date To Survey 30.2 Plan 1 (Azimuth (°) 0.00 0.00 127.93 127.93	(usft) 0.0 4/26/2023 (Wellbore) (402H) Vertical Depth (usft) 0.0 2,000.0 2,980.2 5,819.8	+N/-S (usft) 0.0 -106.3 -741.8	(usft) 0.0 Tool Name XOM_R2OWS OWSG MWD OWSG MWD +E/-W (usft) 0.0 0.0 136.4 952.0	(u GG MWD+IFR + IFR1 + Multi Dogleg Rate (°/100usft) 0.00 0.00 2.00 0.00	sft) 0.0 Remarks 1+ -St Build Rate (°/100usft) 0.00 0.00 2.00 0.00	Turn Rate (°/100usft) 0.00 0.00 0.00 0.00	(°) 9.50 	

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Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Well PERLA VERDE 31 STATE COM 402H
Company:	Long Lead_Well Planning	TVD Reference:	RKB(3702+30)' @ 3732.0usft
Project:	Perla Verde	MD Reference:	RKB(3702+30)' @ 3732.0usft
Site:	Perla Verde	North Reference:	Grid
Well:	PERLA VERDE 31 STATE COM 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	402H		
Design:	Plan 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
402H_SHL 2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2	2.00								
2,100.0	2.00	127.93	2,100.0	-1.1	1.4	-1.1	2.00	2.00	0.00
2,200.0	4.00	127.93	2,199.8	-4.3	5.5	-4.3	2.00	2.00	0.00
2,300.0	6.00	127.93	2,299.5	-9.6	12.4	-9.8	2.00	2.00	0.00
2,400.0	8.00	127.93	2,398.7	-17.1	22.0	-17.3	2.00	2.00	0.00
2,500.0	10.00	127.93	2,497.5	-26.8	34.3	-27.0	2.00	2.00	0.00
2,600.0	12.00	127.93	2,595.6	-38.5	49.4	-38.9	2.00	2.00	0.00
2,700.0	14.00	127.93	2,693.1	-52.3	67.1	-52.9	2.00	2.00	0.00
2,800.0	16.00	127.93	2,789.6	-68.2	87.5	-69.0	2.00	2.00	0.00
2,900.0	18.00	127.93	2,885.3	-86.2	110.6	-87.1	2.00	2.00	0.00
3,000.0	20.00	127.93	2,979.8	-106.2	136.3	-107.4	2.00	2.00	0.00
3,000.4	20.01	127.93	2,980.2	-106.3	136.4	-107.5	2.00	2.00	0.00
	hold at 3000.4 N		,				,	,	
3,100.0	20.01	127.93	3,073.8	-127.2	163.3	-128.6	0.00	0.00	0.00
3,200.0	20.01	127.93	3,167.7	-148.3	190.3	-149.9	0.00	0.00	0.00
2 200 0	20.01	107.02	2 261 7	160.2	217.2	171.0	0.00	0.00	0.00
3,300.0 3,400.0	20.01	127.93 127.93	3,261.7 3,355.7	-169.3 -190.3	217.2 244.2	-171.2 -192.4	0.00 0.00	0.00 0.00	0.00
3,500.0	20.01	127.93	3,449.6	-190.3	244.2	-192.4	0.00	0.00	0.00
3,600.0	20.01	127.93	3,543.6	-232.4	298.2	-235.0	0.00	0.00	0.00
3,700.0	20.01	127.93	3,637.6	-253.4	325.2	-256.2	0.00	0.00	0.00
			,						
3,800.0	20.01	127.93	3,731.5	-274.4	352.2	-277.5 -298.8	0.00	0.00	0.00
3,900.0	20.01	127.93 127.93	3,825.5	-295.5 -316.5	379.2 406.2	-298.8 -320.0	0.00 0.00	0.00 0.00	0.00 0.00
4,000.0 4,100.0	20.01 20.01	127.93	3,919.5 4,013.4	-316.5	406.2	-320.0 -341.3	0.00	0.00	0.00
4,100.0	20.01	127.93	4,107.4	-358.5	460.1	-341.3	0.00	0.00	0.00
4,300.0	20.01	127.93	4,201.4	-379.6	487.1	-383.8	0.00	0.00	0.00
4,400.0	20.01	127.93	4,295.3	-400.6	514.1	-405.1	0.00	0.00	0.00
4,500.0	20.01	127.93	4,389.3	-421.6	541.1	-426.3	0.00	0.00	0.00
4,600.0 4,700.0	20.01 20.01	127.93 127.93	4,483.3 4,577.2	-442.7 -463.7	568.1 595.1	-447.6 -468.9	0.00 0.00	0.00 0.00	0.00 0.00
4,800.0	20.01	127.93	4,671.2	-484.7	622.1	-490.1	0.00	0.00	0.00
4,900.0	20.01	127.93	4,765.1	-505.8	649.1	-511.4	0.00	0.00	0.00
5,000.0	20.01	127.93	4,859.1	-526.8	676.0	-532.7	0.00	0.00	0.00
5,100.0	20.01	127.93	4,953.1	-547.8	703.0	-553.9	0.00	0.00	0.00
5,200.0	20.01	127.93	5,047.0	-568.8	730.0	-575.2	0.00	0.00	0.00
5,300.0	20.01	127.93	5,141.0	-589.9	757.0	-596.5	0.00	0.00	0.00
5,400.0	20.01	127.93	5,235.0	-610.9	784.0	-617.7	0.00	0.00	0.00
5,500.0	20.01	127.93	5,328.9	-631.9	811.0	-639.0	0.00	0.00	0.00
5,600.0	20.01	127.93	5,422.9	-653.0	838.0	-660.3	0.00	0.00	0.00
5,700.0	20.01	127.93	5,516.9	-674.0	865.0	-681.5	0.00	0.00	0.00
5,800.0	20.01	127.93	5,610.8	-695.0	891.9	-702.8	0.00	0.00	0.00
5,900.0	20.01	127.93	5,704.8	-716.1	918.9	-724.0	0.00	0.00	0.00
6,000.0	20.01	127.93	5,798.8	-737.1	945.9	-745.3	0.00	0.00	0.00
6,022.4	20.01	127.93	5,819.8	-741.8	952.0	-750.1	0.00	0.00	0.00
Start Drop -									
6,100.0	18.46	127.93	5,893.1	-757.5	972.1	-766.0	2.00	-2.00	0.00
6,200.0	16.46	127.93	5,988.5	-775.9	995.8	-784.6	2.00	-2.00	0.00
6,300.0	14.46	127.93	6,084.8	-792.3	1,016.8	-801.2	2.00	-2.00	0.00
6,400.0	12.46	127.93	6,182.1	-806.6	1,035.2	-815.6	2.00	-2.00	0.00
6,500.0	10.46	127.93	6,280.1	-818.8	1,050.8	-828.0	2.00	-2.00	0.00

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COMPASS 5000.17 Build 101

Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Well PERLA VERDE 31 STATE COM 402H
Company:	Long Lead_Well Planning	TVD Reference:	RKB(3702+30)' @ 3732.0usft
Project:	Perla Verde	MD Reference:	RKB(3702+30)' @ 3732.0usft
Site:	Perla Verde	North Reference:	Grid
Well:	PERLA VERDE 31 STATE COM 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	402H		
Design:	Plan 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)
6,600.0	8.46	127.93	6,378.7	-828.9	1,063.8	-838.2	2.00	-2.00	0.00
6,700.0	6.46	127.93	6,477.9	-836.9	1,074.0	-846.2	2.00	-2.00	0.00
6,800.0	4.46	127.93	6,577.4	-842.7	1,081.5	-852.2	2.00	-2.00	0.00
6,900.0	2.46	127.93	6,677.2	-846.5	1,086.3	-855.9	2.00	-2.00	0.00
7,000.0	0.46	127.93	6,777.2	-848.0	1,088.3	-857.5	2.00	-2.00	0.00
7,022.8	0.00	0.00	6,800.0	-848.1	1,088.3	-857.5	2.00	-2.00	0.00
	hold at 7022.8 M		0,000.0	-0+0.1	1,000.0	-007.0	2.00	-2.00	0.00
10,091.6	0.00	0.00	9,868.8	-848.1	1,088.3	-857.5	0.00	0.00	0.00
Start Turn 0		0.00	3,000.0	-0-+0.1	1,000.0	-007.0	0.00	0.00	0.00
10.100.0	0.67	359.50	9,877.2	-848.0	1.088.3	-857.5	8.00	8.00	0.00
10,200.0	8.67	359.50		-839.9	1,088.3	-849.3	8.00		
			9,976.8					8.00	0.00
10,300.0	16.67	359.50	10,074.3	-818.0	1,088.1	-827.4	8.00	8.00	0.00
10,400.0	24.67	359.50	10,167.8	-782.7	1,087.8	-792.2	8.00	8.00	0.00
10,500.0	32.67	359.50	10,255.4	-734.8	1,087.4	-744.2	8.00	8.00	0.00
10,600.0	40.67	359.50	10,335.6	-675.1	1,086.8	-684.5	8.00	8.00	0.00
10,700.0	48.67	359.50	10,406.6	-604.8	1.086.2	-614.3	8.00	8.00	0.00
10,800.0	56.67	359.50	10,467.2	-525.4	1,085.5	-534.8	8.00	8.00	0.00
10,900.0	64.67	359.50	10,516.2	-438.3	1,085.5	-447.7	8.00	8.00	0.00
11,000.0	72.67	359.50	10,552.5	-345.2	1,084.0	-354.7	8.00	8.00	0.00
11,100.0	80.67	359.50	10,575.5	-248.0	1,083.1	-257.4	8.00	8.00	0.00
11,200.0	88.67	359.50	10,584.8	-148.5	1,082.2	-157.9	8.00	8.00	0.00
11,216.6	90.00	359.50	10,585.0	-131.9	1,082.1	-141.3	8.00	8.00	0.00
Start 10413.	7 hold at 11216.	6 MD - 402H_FT	P						
11,300.0	90.00	359.50	10,585.0	-48.5	1,081.4	-57.9	0.00	0.00	0.00
11,400.0	90.00	359.50	10,585.0	51.5	1,080.5	42.1	0.00	0.00	0.00
11,500.0	90.00	359.50	10,585.0	151.5	1,079.6	142.1	0.00	0.00	0.00
11,600.0	90.00	359.50	10,585.0	251.5	1,078.8	242.1	0.00	0.00	0.00
11,700.0	90.00	359.50	10,585.0	351.5	1,077.9	342.1	0.00	0.00	0.00
11,800.0	90.00	359.50	10,585.0	451.5	1,077.0	442.1	0.00	0.00	0.00
11,900.0	90.00	359.50	10,585.0	551.5	1,076.1	542.1	0.00	0.00	0.00
12,000.0	90.00	359.50	10,585.0	651.5	1,075.3	642.1	0.00	0.00	0.00
12,100.0	90.00	359.50	10,585.0	751.5	1,074.4	742.1	0.00	0.00	0.00
12,200.0	90.00	359.50	10,585.0	851.5	1,073.5	842.1	0.00	0.00	0.00
12,300.0	90.00	359.50	10,585.0	951.5	1,072.6	942.1	0.00	0.00	0.00
12,400.0	90.00	359.50	10,585.0	1,051.5	1,071.8	1,042.1	0.00	0.00	0.00
12,500.0	90.00	359.50	10,585.0	1,151.5	1,070.9	1,142.1	0.00	0.00	0.00
12,600.0	90.00	359.50	10,585.0	1,251.4	1,070.0	1,242.1	0.00	0.00	0.00
12,700.0	90.00	359.50	10,585.0	1,351.4	1,069.2	1,342.1	0.00	0.00	0.00
12,800.0	90.00	359.50	10,585.0	1,451.4	1,068.3	1,442.1	0.00	0.00	0.00
12,900.0	90.00	359.50	10,585.0	1,551.4	1,067.4	1,542.1	0.00	0.00	0.00
13,000.0	90.00	359.50	10,585.0	1,651.4	1,066.5	1,642.1	0.00	0.00	0.00 0.00
13,100.0	90.00	359.50	10,585.0	1,751.4	1,065.7	1,742.1	0.00	0.00	
13,200.0	90.00	359.50	10,585.0	1,851.4	1,064.8	1,842.1	0.00	0.00	0.00
13,300.0	90.00	359.50	10,585.0	1,951.4	1,063.9	1,942.1	0.00	0.00	0.00
13,400.0	90.00	359.50	10,585.0	2,051.4	1,063.0	2,042.1	0.00	0.00	0.00
13,500.0	90.00	359.50	10,585.0	2,151.4	1,062.2	2,142.1	0.00	0.00	0.00
13,600.0	90.00	359.50	10,585.0	2,251.4	1,061.3	2,242.1	0.00	0.00	0.00
13,700.0	90.00	359.50	10,585.0	2,351.4	1,060.4	2,342.1	0.00	0.00	0.00
13,800.0	90.00	359.50	10,585.0	2,451.4	1,059.6	2,442.1	0.00	0.00	0.00
13,900.0	90.00	359.50	10,585.0	2,551.4	1,058.7	2,542.1	0.00	0.00	0.00
14,000.0	90.00	359.50	10,585.0	2,651.4	1,057.8	2,642.1	0.00	0.00	0.00
14,100.0	90.00	359.50	10,585.0	2,751.4	1,056.9	2,742.1	0.00	0.00	0.00
14,100.0	90.00	359.50	10,585.0	2,751.4	1,056.1	2,742.1	0.00	0.00	0.00
	90.00	339.30	10.303.0	2 0 0 1 4	1.000.1	2.042.1	0.00	0.00	11111

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COMPASS 5000.17 Build 101

Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Well PERLA VERDE 31 STATE COM 402H
Company:	Long Lead_Well Planning	TVD Reference:	RKB(3702+30)' @ 3732.0usft
Project:	Perla Verde	MD Reference:	RKB(3702+30)' @ 3732.0usft
Site:	Perla Verde	North Reference:	Grid
Well:	PERLA VERDE 31 STATE COM 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	402H		
Design:	Plan 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)
14,300.0	90.00	359.50	10,585.0	2,951.4	1,055.2	2,942.1	0.00	0.00	0.00
14,400.0	90.00	359.50	10,585.0	3,051.4	1,054.3	3,042.1	0.00	0.00	0.00
14,400.0	90.00	359.50	10,585.0	3,151.4	1,054.5	3,042.1	0.00	0.00	0.00
	90.00	359.50	10,585.0	3,151.4	1,053.5	3,142.1	0.00	0.00	0.00
14,600.0	90.00	359.50 359.50						0.00	0.00
14,700.0			10,585.0	3,351.4	1,051.7	3,342.1	0.00		
14,800.0	90.00	359.50	10,585.0	3,451.4	1,050.8	3,442.1	0.00	0.00	0.00
14,900.0	90.00	359.50	10,585.0	3,551.4	1,050.0	3,542.1	0.00	0.00	0.00
15,000.0	90.00	359.50	10,585.0	3,651.4	1,049.1	3,642.1	0.00	0.00	0.00
15,100.0	90.00	359.50	10,585.0	3,751.4	1,048.2	3,742.1	0.00	0.00	0.00
15,200.0	90.00	359.50	10,585.0	3,851.3	1,047.3	3,842.1	0.00	0.00	0.00
15,300.0	90.00	359.50	10,585.0	3,951.3	1,046.5	3,942.1	0.00	0.00	0.00
45 400 0				4 054 0	4.045.0	4 0 4 0 4			
15,400.0	90.00	359.50	10,585.0	4,051.3	1,045.6	4,042.1	0.00	0.00	0.00
15,500.0	90.00	359.50	10,585.0	4,151.3	1,044.7	4,142.1	0.00	0.00	0.00
15,600.0	90.00	359.50	10,585.0	4,251.3	1,043.9	4,242.1	0.00	0.00	0.00
15,700.0	90.00	359.50	10,585.0	4,351.3	1,043.0	4,342.1	0.00	0.00	0.00
15,800.0	90.00	359.50	10,585.0	4,451.3	1,042.1	4,442.1	0.00	0.00	0.00
15,900.0	90.00	359.50	10,585.0	4,551.3	1,041.2	4,542.1	0.00	0.00	0.00
16,000.0	90.00	359.50	10,585.0	4,651.3	1,040.4	4,642.1	0.00	0.00	0.00
16,100.0	90.00	359.50	10,585.0	4,751.3	1,039.5	4,742.1	0.00	0.00	0.00
16,200.0	90.00	359.50	10,585.0	4,851.3	1,038.6	4,842.1	0.00	0.00	0.00
16,300.0	90.00	359.50	10,585.0	4,951.3	1,037.7	4,942.1	0.00	0.00	0.00
16,400.0	90.00	359.50	10,585.0	5,051.3	1,036.9	5,042.1	0.00	0.00	0.00
16,500.0	90.00	359.50	10,585.0	5,151.3	1,036.0	5,142.1	0.00	0.00	0.00
16,600.0	90.00	359.50	10,585.0	5,251.3	1,035.1	5,242.1	0.00	0.00	0.00
16,700.0	90.00	359.50	10,585.0	5,351.3	1,034.3	5,342.1	0.00	0.00	0.00
16,800.0	90.00	359.50	10,585.0	5,451.3	1,033.4	5,442.1	0.00	0.00	0.00
16,900.0	90.00	359.50	10,585.0	5,551.3	1,032.5	5,542.1	0.00	0.00	0.00
17,000.0	90.00	359.50	10,585.0	5,651.3	1,031.6	5,642.1	0.00	0.00	0.00
17,100.0	90.00	359.50	10,585.0	5,751.3	1,030.8	5,742.1	0.00	0.00	0.00
17,200.0	90.00	359.50	10,585.0	5,851.3	1,029.9	5,842.1	0.00	0.00	0.00
17,300.0	90.00	359.50	10,585.0	5,951.3	1,029.0	5,942.1	0.00	0.00	0.00
17,400.0	90.00	359.50	10,585.0	6,051.3	1,028.1	6,042.1	0.00	0.00	0.00
17,500.0	90.00	359.50	10,585.0	6,151.3	1,027.3	6,142.1	0.00	0.00	0.00
17,600.0	90.00	359.50	10,585.0	6,251.3	1,027.3	6,242.1	0.00	0.00	0.00
17,000.0	90.00	359.50	10,585.0	6,351.3	1,020.4	6,342.1	0.00	0.00	0.00
17,800.0	90.00	359.50	10,585.0	6,451.2	1,023.3	6,442.1	0.00	0.00	0.00
17,900.0	90.00	359.50	10,585.0	6,551.2	1,023.8	6,542.1	0.00	0.00	0.00
18,000.0	90.00	359.50	10,585.0	6,651.2	1,022.9	6,642.1	0.00	0.00	0.00
18,100.0	90.00	359.50	10,585.0	6,751.2	1,022.0	6,742.1	0.00	0.00	0.00
18,200.0	90.00	359.50	10,585.0	6,851.2	1,021.2	6,842.1	0.00	0.00	0.00
18,300.0	90.00	359.50	10,585.0	6,951.2	1,020.3	6,942.1	0.00	0.00	0.00
18,400.0	90.00	359.50	10,585.0	7,051.2	1,019.4	7,042.1	0.00	0.00	0.00
18,500.0	90.00	359.50	10,585.0	7,151.2	1,018.5	7,142.1	0.00	0.00	0.00
18,600.0	90.00	359.50	10,585.0	7,251.2	1,017.7	7,242.1	0.00	0.00	0.00
18,700.0	90.00	359.50	10,585.0	7,351.2	1,016.8	7,342.1	0.00	0.00	0.00
18,800.0	90.00	359.50	10,585.0	7,451.2	1,015.9	7,442.1	0.00	0.00	0.00
18,900.0	90.00	359.50	10,585.0	7,551.2	1,015.1	7,542.1	0.00	0.00	0.00
19,000.0	90.00	359.50	10,585.0	7,651.2	1,014.2	7,642.1	0.00	0.00	0.00
19,100.0	90.00	359.50	10,585.0	7,751.2	1,013.3	7,742.1	0.00	0.00	0.00
19,200.0	90.00	359.50	10,585.0	7,851.2	1,012.4	7,842.1	0.00	0.00	0.00
19,300.0	90.00	359.50	10,585.0	7,951.2	1,011.6	7,942.1	0.00	0.00	0.00
19,400.0	90.00	359.50	10,585.0	8,051.2	1,010.7	8,042.1	0.00	0.00	0.00
19,500.0	90.00	359.50	10,585.0	8,151.2	1,009.8	8,142.1	0.00	0.00	0.00
19,600.0	90.00	359.50	10,585.0	8,251.2	1,009.0	8,242.1	0.00	0.00	0.00

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COMPASS 5000.17 Build 101

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Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Well PERLA VERDE 31 STATE COM 402H
Company:	Long Lead_Well Planning	TVD Reference:	RKB(3702+30)' @ 3732.0usft
Project:	Perla Verde	MD Reference:	RKB(3702+30)' @ 3732.0usft
Site:	Perla Verde	North Reference:	Grid
Well:	PERLA VERDE 31 STATE COM 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	402H		
Design:	Plan 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)
19,700.0 19,800.0	90.00 90.00	359.50 359.50	10,585.0 10,585.0	8,351.2 8,451.2	1,008.1 1,007.2	8,342.1 8,442.1	0.00 0.00	0.00 0.00	0.00 0.00
19,900.0 20,000.0 20,100.0 20,200.0 20,300.0	90.00 90.00 90.00 90.00 90.00	359.50 359.50 359.50 359.50 359.50 359.50	10,585.0 10,585.0 10,585.0 10,585.0 10,585.0	8,551.2 8,651.2 8,751.2 8,851.2 8,951.2	1,006.3 1,005.5 1,004.6 1,003.7 1,002.8	8,542.1 8,642.1 8,742.1 8,842.1 8,942.1	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
20,400.0 20,500.0 20,600.0 20,700.0 20,800.0	90.00 90.00 90.00 90.00 90.00 90.00	359.50 359.50 359.50 359.50 359.50 359.50	10,585.0 10,585.0 10,585.0 10,585.0 10,585.0 10,585.0	9,051.1 9,151.1 9,251.1 9,351.1 9,451.1	1,002.0 1,001.1 1,000.2 999.4 998.5	9,042.1 9,142.1 9,242.1 9,342.1 9,442.1	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
20,900.0 21,000.0 21,100.0 21,200.0 21,300.0	90.00 90.00 90.00 90.00 90.00	359.50 359.50 359.50 359.50 359.50	10,585.0 10,585.0 10,585.0 10,585.0 10,585.0	9,551.1 9,651.1 9,751.1 9,851.1 9,951.1	997.6 996.7 995.9 995.0 994.1	9,542.1 9,642.1 9,742.1 9,842.1 9,942.1	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
21,400.0 21,500.0 21,600.0 21,630.3 Start 49.9 ho	90.00 90.00 90.00 90.00 90.00	359.50 359.50 359.50 359.50 359.50	10,585.0 10,585.0 10,585.0 10,585.0	10,051.1 10,151.1 10,251.1 10,281.4	993.2 992.4 991.5 991.2	10,042.1 10,142.1 10,242.1 10,272.4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
21,680.2 TD at 21680.	90.00	359.50	10,585.0	10,331.3	990.8	10,322.3	0.00	0.00	0.00

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
402H_SHL - plan hits target cer - Rectangle (sides V		0.00	0.0	0.0	0.0	586,674.60	756,400.60	32° 36' 36.406 N	103° 30' 2.420 W
402H_BHL - plan hits target cer - Point	0.00 hter	0.00	10,585.0	10,331.3	990.8	597,005.90	757,391.40	32° 38' 18.554 N	103° 29' 49.887 W
402H_FTP - plan hits target cer - Point	0.00 hter	0.00	10,585.0	-131.9	1,082.1	586,542.70	757,482.70	32° 36' 35.016 N	103° 29' 49.782 W
402H_LTP - plan misses target - Point	0.00 center by 0.1u	0.00 sft at 21630	10,585.0 .3usft MD (10	10,281.4 0585.0 TVD, 1	991.3 10281.4 N, 991	596,956.00 I.2 E)	757,391.90	32° 38' 18.060 N	103° 29' 49.886 W

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Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Well PERLA VERDE 31 STATE COM 402H
Company:	Long Lead_Well Planning	TVD Reference:	RKB(3702+30)' @ 3732.0usft
Project:	Perla Verde	MD Reference:	RKB(3702+30)' @ 3732.0usft
Site:	Perla Verde	North Reference:	Grid
Well:	PERLA VERDE 31 STATE COM 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	402H		
Design:	Plan 1		
Plan Annotations			

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
3,000.4	2,980.2	-106.3	136.4	Start 3022.1 hold at 3000.4 MD
6,022.4	5,819.8	-741.8	952.0	Start Drop -2.00
7,022.8	6,800.0	-848.1	1,088.3	Start 3068.8 hold at 7022.8 MD
10,091.6	9,868.8	-848.1	1,088.3	Start Turn 0.00
11,216.6	10,585.0	-131.9	1,082.1	Start 10413.7 hold at 11216.6 MD
21,630.3	10,585.0	10,281.4	991.2	Start 49.9 hold at 21630.3 MD
21,680.2	10,585.0	10,331.3	990.8	TD at 21680.2

DRILLING PLAN: BLM COMPLIANCE (Supplement to BLM 3160-3)

XTO Energy Inc. Perla Verde 402H Projected TD: 21680.2' MD / 10585' TVD SHL: 242' FSL & 1229' FWL , Section 31, T19S, R35E BHL: 50' FNL & 2310' FWL , Section 30, T19S, R35E Lea County, NM

1. Geologic Name of Surface Formation

A. Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	1871'	Water
Top of Salt	2153'	Water
Base of Salt	3412'	Water
Delaware	5829'	Water
Brushy Canyon	7000'	Water/Oil/Gas
Bone Spring	8133'	Water
1st Bone Spring Ss	9570'	Water/Oil/Gas
2nd Bone Spring Ss	10165'	Water/Oil/Gas
Target/Land Curve	10585'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 2103' (50' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 9891.6' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 21680.2 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9591.6 feet).

3. Casing Design

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Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 2103'	9.625	40	J-55	BTC	New	1.33	2.76	7.49
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.76	2.57	1.90
8.75	4000' – 9891.6'	7.625	29.7	HC L-80	Flush Joint	New	2.74	1.92	2.32
6.75	0' – 9791.6'	5.5	23	RY P-110	Semi-Premium	New	1.21	3.25	1.96
6.75	9791.6' - 21680.2'	5.5	23	RY P-110	Semi-Flush	New	1.21	3.00	2.13

- XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry

• XTO requests to not utilize centralizers in the curve and lateral

7.625 Collapse analyzed using 50% evacuation based on regional experience.

5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

• XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

- Permanent Wellhead Multibowl System A. Starting Head: 11" 10M top flange x 9-5/8" bottom B. Tubing Head: 11" 10M bottom flange x 7-1/16" 15M top flange · Wellhead will be installed by manufacturer's representatives.
 - · Manufacturer will monitor welding process to ensure appropriate temperature of seal.
 - Operator will test the 7-5/8" casing per BLM Onshore Order 2
 - \cdot Wellhead Manufacturer representative will not be present for BOP test plug installation

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 2103'

Lead: 600 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water) Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water) Top of Cement: Surface Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9891.6'1st StageOptional Lead: 380 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)TOC: SurfaceTail: 260 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)TOC: Brushy Canyon @ 7000Compressives:12-hr =900 psi24 hr = 1150 psi

 2nd Stage

 Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water)

 Tail: 790 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

 Top of Cement: 0

 Compressives:
 12-hr =
 900 psi
 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (7000') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will include the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing: 5.5, 23 New Semi-Flush, RY P-110 casing to be set at +/- 21680.2'

Lead: 20 sxs NeoCem	(mixed at 11.5 p	pg, 2.69 ft3/sx,	15.00 gal/sx water) Top of Cement:	9591.6 feet
Tail: 830 sxs VersaCe	m (mixed at 13.2	ppg, 1.51 ft3/s:	x, 8.38 gal/sx water) Top of Cement:	10091.6 feet
Compressives:	12-hr =	800 psi	24 hr = 1500 psi	

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

5. Pressure Control Equipment

Once the permanent WH is installed on the 9.625 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 3M Hydril and a 13-5/8" minimum 3M Double Ram BOP. MASP should not exceed 2515 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 9.625, 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When nippling up on the 7.625, the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production

hole on each of the wells.

A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to ONLY retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that has a hole interval deeper than the first.

6. Proposed Mud Circulation System

INTERVAL	Hole Size		MW	Viscosity	Fluid Loss
INTERVAL		Mud Type	(ppg)	(sec/qt)	(cc)
0' - 2103'	12.25	FW/Native	8.5-9	35-40	NC
2103' - 9891.6'	8.75	FW / Cut Brine / Direct Emulsion	10-10.5	30-32	NC
9891.6' - 21680.2'	6.75	OBM	8.8-9.3	50-60	NC - 20

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud. Drill out from under 9-5/8" surface casing with brine solution. A 9.7 ppg - 10.2 ppg cut brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 9.625 casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 170 to 190 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 4844 psi.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

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	State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505						
NATURAL GAS MANAGEMENT PLAN							
This Natural Gas Manag	gement Plan m	ust be submitted wi	th each Applicat	tion for Permit to D	Drill (Al	PD) for a ne	ew or recompleted well.
			<u>1 – Plan D</u> fective May 25,				
I. Operator:			_OGRID:			Date:	//
II. Type: Original	Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C 🗆 19.15.27.9.D(6)(b) N	MAC □ O	ther.
If Other, please describe	:						
III. Well(s): Provide the be recompleted from a s					vells pr	oposed to b	e drilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D	Anticipated Produced Water BBL/D
IV. Central Delivery P	oint Name:					[See 19.	.15.27.9(D)(1) NMAC]
V. Anticipated Schedul proposed to be recomple					ell or so	et of wells p	proposed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement	Date	Initial Flo Back Da	
VI. Separation Equipm	ient: 🛛 Attacl	a complete descrij	ption of how Op	erator will size sep	aration	equipment	to optimize gas capture.
VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.							
VIII. Best Management Practices: 🛛 Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.							

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Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

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

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

 \Box 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

 \boxtimes 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. 🖂 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. \boxtimes 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: Casoi Evano-
Printed Name: Cassie Evans
Title: Regulatory Analyst
E-mail Address: cassie.evans@exxonmobil.com
Date: 08/09/22
Phone: 432.218.3671
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment:

XTO Permian Operating, LLC. production tank batteries include separation equipment designed to efficiently separate gas from liquid phases to optimize gas capture based on projected and estimated volumes from the targeted pool in conjunction with the total number of wells planned to or existing within the facility. Separation equipment is upgraded prior to well being drilled or completed, if determined to be undersized or needed. The separation equipment is designed and built according to the relevant industry specifications (API Specification 12J and ASME Sec VIII Div I). Other recognized industry publications such as the Gas Processors Suppliers Association (GPSA) are referenced when designing separation equipment to optimize gas capture.

VII. Operational Practices:

- 1. Subsection B.
 - During drilling, flare stacks will be located a minimum of 150 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
 - Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.
 - At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.
- 2. Subsection C.
 - During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.

For emergencies, equipment malfunction, or if the operator decides to produce oil and gas during well completion:

- Flowlines will be routed for flowback fluids into a completion or storage tank and, if feasible under well conditions, flare rather than vent and commence operation of a separator as soon as it is technically feasible for a separator to function.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.
- At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.
- 3. Subsection D.
 - At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.
 - Monitor manual liquid unloading for wells on-site or in close proximity (<30 minutes' drive time), take reasonable actions to achieve a stabilized rate and pressure at the earliest practical time, and take reasonable actions to minimize venting to the maximum extent practicable.

- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.
- 4. Subsection E.
 - All tanks and separation equipment are designed for maximum throughput and pressure to minimize waste.
 - Flare stack was installed prior to May 25, 2021 but has been designed for proper size and combustion efficiency. Flare currently has a continuous pilot and is located more than 100 feet from any known well and storage tanks.
 - At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.
- 5. Subsection F.
 - Measurement equipment is installed to measure the volume of natural gas flared from process piping or a flowline piped from the equipment associated with a well and facility associated with the approved application for permit to drill that has an average daily production greater than 60 mcf of natural gas.
 - Measurement equipment installed is not designed or equipped with a manifold to allow diversion of natural gas around the metering equipment, except for the sole purpose of inspecting and servicing the measurement equipment, as noted in NMAC 19.15.27.8 Subsection G.

VIII. Best Management Practices:

- 1. During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- 2. Operator does not flow well (well shut in) during initial production until all flowlines, tank batteries, and oil/gas takeaway are installed, tested, and determined operational.
- 3. Operator equips storage tanks with an automatic gauging system to reduce venting of natural gas.
- 4. Operator reduces the number of blowdowns by looking for opportunities to coordinate repair and maintenance activities.
- 5. Operator combusts natural gas that would otherwise be vented or flared, when feasible.
- 6. Operator has a flare stack designed in accordance with need and to handle sufficient volume to ensure proper combustion efficiency. Flare stacks are equipped with continuous pilots and securely anchored at least 100 feet (at minimum) from storage tanks and wells.
- 7. Operator minimizes venting (when feasible) through pump downs of vessels and reducing time required to purge equipment before returning equipment to service.
- 8. Operator will shut in wells (when feasible) in the event of a takeaway disruption, emergency situation, or other operations where venting or flaring may occur due to equipment failures.

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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

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	225679
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
pkautz	None	6/12/2023

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Action 225679