# 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**

Form C-101 Revised July 18, 2013

### **Energy Minerals and Natural Resources**

**Oil Conservation Division** 

☐AMENDED REPORT

1220 South St. Francis Dr.

**Santa Fe, NM 87505** 

APPLI	CATIC	N FOR		RMIT T			RE-EN	TER, D	EEPEN.	, PLU	GBAC!			ZONE	
			<sup>1.</sup> Оре	erator Name	and Add	ress						<sup>2.</sup> OGRID N	lumber		
MODNING	STAD O	DEDATI	JG I	I.C. 400	1 <i>111 7</i> T	'H ST EC	NDT W/C	אדע דער	X 76102			330132 3. API Nur	mber		
MORNINGSTAR OPERATING, LLC, 400 W 7TH ST, FORT W											30-025-	-	T.		
"- Property Code 3.1870 CENTRAL VAC						roperty Ni L VACU	ame JUM UN	IT			2	<sup>6.</sup> Well N 210	10.		
						7. Surf	face Lo	cation							
UL - Lot	Section	Township		Range	Lo	ot Idn	Feet fro	om	N/S Line	Fee	t From	E/W Line	e	County	
K	06	18S		35E			215		S	2	363	W		LEA	
	1	1			8. <b>F</b>	Proposed				1					
UL - Lot	Section	Township		Range	Lo	ot Idn	Feet fro	om	N/S Line	Fee	t From	E/W Line	e	County	
K	06	18S		35E			2280		S		2361	W		LEA	
		102				9. <b>Poo</b> l	l Inforn	nation		-	2501			DD. I	
						Pool Na								Pool Code	
					V	<u>ACUUM</u>	I; GRA	YBURG-	SAN AND	RES				62180	
					$\mathbf{A}'$	dditional	Well I	nformatio	on						
	rk Type		12.	Well Type			<sup>13.</sup> Cable/Ro			<sup>14.</sup> Lease 7		15		Level Elevation	
	NEW ultiple		17. p	OIL roposed Depth			<sup>18.</sup> Formati			STAT				980 oud Date	
	uitipie N		Pro	oposed Depth			N ANE					5/2023			
Depth to Grou		I		Dista	nce from	n nearest fres					Distance	to nearest sur			
We will b	e using a	closed-loop	syste	m in lieu of	f lined p	pits									
				21.	Propo	sed Casii	ng and	Cement I	Program						
Туре	Hole	e Size	Casi	ing Size	Ca	asing Weigl	ht/ft	Sett	ing Depth		Sacks of C	Cement	Es	stimated TOC	
SURF	12	2 1/4	9	5/8		36#		15:	56' TVD		506			0	
PROD		3 3/4	5	5 1/2		17#		5150 TVD		80	0		0		
	1	1		Casin	ıg/Cen	nent Prog	gram: A	dditional	Commen	ts		,			
				22.	Propo	sed Blow	out Pre	evention l	Program						
	Type			V	Working	Pressure			Test Pres	ssure			Manufacturer		
DC	OUBLE R	RAM			3000	)			3000			SHAFF	SHAFFER		
<sup>23.</sup> I hereby co			on give	en above is t	rue and	complete to	the the		OIL	CONS	SERVAT	TION DIV	VISION	N .	
I further cer 19.15.14.9 (E Signature:				th 19.15.14.9	9 (A) NI	MAC 🗌 aı	nd/or	Approved	Ву:						
Printed name	: CO	NNIE BL	AYLO	OCK				Title:							
Title:				ANALYS	Γ			Approved	Date:		E:	xpiration Dat	te:		
E-mail Addre		aylock@t													
Date:	02/20/20	• •		hone: 817-	-334-7	882		Conditions	s of Approval	Attached					

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, New Mexico 87505

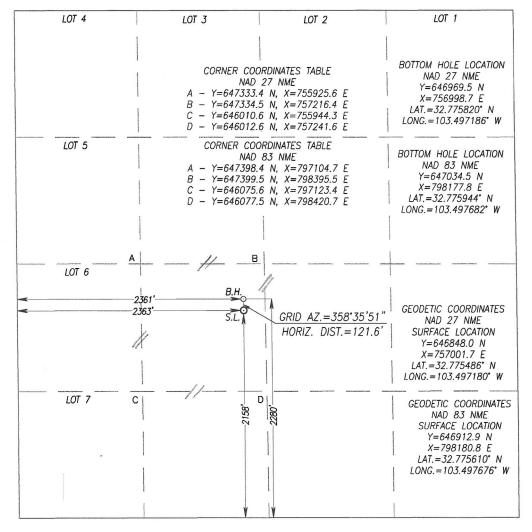
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

□AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Al	PI Number			Pool Code			Pool Name				
30-025- 62180 VA							VACUUM; GRAYBURG-SAN ANDRES				
Property C	ode		,		Property Nam					ell Number	
331870	4		C	ENTRA	L VACUUN	A UNIT				210	
OGRID 1	Vo.				Operator Nam				]	Elevation	
330132			Mo	ORNING	SSTAR OPE	ERATING, LI	LC			3980'	
					Surface Locat	ion					
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County	
K	6	18-S	35-E		2158	SOUTH 2363			VEST	LEA	
				Bottom Hol	e Location If Diffe	erent From Surface			-		
UL or lot No. Section Township Range Lot Idn Feet from the						North/South line	Feet from the	East	/West line	County	
K 6 18-S 35-E 2280 SOUTH 236							2361	V	VEST	LEA	
Dedicated Acres	Joint or	Infill C	Consolidation C	ode Ord	er 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



#### OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

R 02/20/2023 Signature Date CONNIE BLAYLOCK

cblaylock@txoenergy.com

E-mail Address

#### SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of advantage surveys made by me or under my supervision, and abjactors since is true and correct to the best of my felice.

JANUARY 25, 2023 Date of Survey 12641

Date or Signature R S POFESSIONAL TOPESSIONAL

Certificate Number

ACK

Gary G. Eidson 12641 Ronald J. Eidson 3239

JWSC W.O.: 23.11.0011

## State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

## NATURAL GAS MANAGEMENT PLAN

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

# Section 1 – Plan Description Effective May 25, 2021

I. Operator: MORNI	NGSTAR OP	ERATING LLC	OGRID:	330132	Date:	02/2	23 / 2023
II. Type: 🗓 Original [	☐ Amendment	due to □ 19.15.27.9	9.D(6)(a) NMA	C □ 19.15.27.9.D(	(6)(b) NMAC □	Other.	
If Other, please describe	e:						
III. Well(s): Provide the be recompleted from a s					wells proposed to	be dril	led or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D		Anticipated roduced Water BBL/D
CENTRAL VACUUM U	NIT 210	K/ 6/ 18S/ 35E	2158 FSL 2363 FWL	70	300		400
V. Anticipated Schedu proposed to be recomple Well Name					Initial I	Flow	First Production Date
CENTRAL VACUUM	JNIT 210	04/15/2023	04/22/2023	08/01/2023	08/12	/2023	08/15/2023
VI. Separation Equipm VII. Operational Prac Subsection A through F VIII. Best Management during active and planner	tices: 🔯 Attac of 19.15.27.8 nt Practices: [	h a complete descr NMAC.	iption of the ac	tions Operator wil	l take to comply	with th	ne requirements of

# Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

#### IX. Anticipated Natural Gas Production:

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

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

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

XI. Map.   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 🗆 v	vill □ will not have	capacity to gather	100% of the anticipated	natural gas
production volume from the well p	prior to the date of first pro	oduction.			

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

- · · ·						
Attach Operato	or's plan to n	ianage produ	iction in re	sponse to the	increased line	nressure

XIV. Confidentiality: $\square$ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the informat	ion 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 spec	ific information
for which confidentiality is asserted and the basis for such assertion.	

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

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

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: power generation on lease; (a) **(b)** power generation for grid;

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

# **Section 4 - Notices**

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become (a) 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
- 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: Connie Blaylock
Printed Name:  CONNIE BLAYLOCK
Title: REGULATORY ANALYST
E-mail Address: cblaylock@txoenergy.com
Date: 02/23/2023
Phone:
817-334-7882
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

MorningStar Operating LLC

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

Each well will full stream produce to a satellite location. At each satellite, bulk and test measurements for unit allocation are performed. Liquids are then sent on to the battery for lact sales. All vessels are sized based on historical well performance, and historical volumes were generally higher than what we now process and produce.

Satellite (gas venting is minimal to none in this satellite bulk and test transport to central battery). Test -2 phase test vessel and Coriolis measurement on liquid and gas phases. Bulk -2 phase vessel for gas separation from liquids. All gas from the satellite is sent to the plant for processing and reinjection into the unit. All liquids from the satellite are sent to the Central Vacuum Unit Battery.

<u>Central Vacuum Unit Battery</u> (all gas and vapors are collected and compressed to the plant to minimize any venting). Gas scrubber and FWKO are utilized to remove any excess gas. This gas is gathered by our GRU compression to be sent to the gas plant for processing and reinjection into the unit. Water is moved from holding tanks to suction tanks to be reinjected into the unit. In the event of an emergency, gas can be routed to a flare on location.

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

- Drilling Operations: Any natural gas produced during drilling operations will be combusted with a flare line. A properly sized flare stack will be located a minimum of 100 feet from the nearest surface hole location. If flaring isn't possible or poses a risk, Operator will vent natural gas to avoid any safety or environmental risks and report natural gas.
- Completion Operations: Hydrocarbon production will be minimized during completion and flowback operations. No flowback will occur until the well is connected to a properly sized system. When feasible, natural gas will be flared rather than vented. When sustained producible volumes are obtained, operations will turn to separation facilities and gathering pipeline.
- Production Operations: Efforts will be made to minimize waste. Process
  equipment (separator and tanks) is designed for efficient separation and routing
  produced gas to the sales pipeline. Flaring rather than venting will be the
  preferred method to handle emergencies and malfunctions. Equipment will be
  properly maintained with routine inspections and preventative maintenance.
  Weekly AVOs will be performed at facilities.

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

• Best management practices are used to minimize venting and flaring during downhole operations.

- Flaring will be used in lieu of venting when feasible.
- Adequate well control during completion operations will be employed to minimize oil and gas production.
- Tanks and vessels are isolated from their respective facilities prior to inspection, maintenance, and repairs.
- The preventive maintenance program includes weekly AVO inspections, identification of failures or malfunctions, and repairs as needed.
- Coordinate with third-party gathering and sales operators to minimize downtime and the need for venting/flaring during downstream pipeline and gas plant events.

					Moi	rningStar Op	erating LL	.C				
						CVU #2	10					
Sec 6, T18S, R35E Lea County, NM					nber 30-025-???? AFE 22????	?		ENG: John Marschall RIG: United Drilling GLE: 3,980'				
MWD	Logging	Estimated	DEPTH			CASING HOL			RKBE:	3,992' MW	Rig KB: 12'  DEVIATION	
LWD	Program	Formation Tops	40' 4	<b>D</b>		PROFILE		SIZE/MD	SPECS 20"	MUD TYPE	INFORMATION	
								12 1/4"	9 5/8" 36# J55 LTC Centralizer every 3rd No DV Tool Lead to Surface 330 sks, 12.5 ppg, 2.23 yld 100% Excess 0.25 lb/sk Celloflake LCM	Spud Mud 8.4 - 8.8 ppg	No Hardlines  No Anti collision issues  Start nudge at 400'  Nudge ~ 121' south  Keep DLS under 2°  Hold angle to TD (no drop)	
		Rustler Casing Point		506' 556'					Tail to 1,229' 176 sks, 14.8 ppg, 1.34 yld 100% Excess 0.25 lb/sk Celloflake LCM 49 bbls (123 sx) to surface			
	Mud Loggers out from surface								5 1/2" 17# L80 LTC Centralizer every 3rd	WBM (Brine)	Hold angle to TD	
		Yates		848'			L		Lead to Surface 700 sks, 11.0 ppg, 2.64 yld 200% Excess 0.25 lb/sk Cello LCM 0.25 lb/sk KOL LCM	9.5 - 10.0 ppg		
Warning H2S in San Andres		Yates Seven Rivers		191'				8 3/4"	Tail to 3,900' 100 sks, 13.2 ppg, 1.23 yld 100% Excess 0.25 lb/sk Cello LCM 0.25 lb/sk KOL LCM	San Andres Pre-Treat		
		Queen	3,	772'			L			H2S Possible Losses		
		Grayburg	4,	081'								
		San Andres	4,	335'			L					
		TD	5,	150'					Confirm Volume with Fluid Caliper			



# **TXO ENERGY PARTNERS**

LEA CO., NW (NAD-27 / NME) CVU #210

Wellbore #1

Plan: PLAN #1

# **Standard Planning Report**

09 February, 2023

CVU #210: SHL

Start DLS 2.00 TFO 358.59



0

250

500

750

1000

1250

1750

2000

2250

දි 2500

Vertica 2750 –

3000 E

3500

3750-

4000

4250

4500

4750

YATES

QUEEN

GRAYBURG

SAN ANDRES

SEVEN RIVERS

usft/in)

Depth

RUSTLER 9 5/8"

Project: LEA CO., NW (NAD-27 / NME) Site: CVU Well: #210 Wellbore: Wellbore #1 Design: PLAN #1



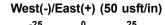
#### WELL DETAILS: #210

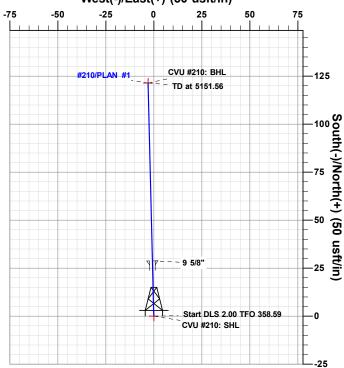
Rig Name: TBD RKB = 12' @ 3992.00usft (TBD) Ground Level: 3980.00

+E/-W 0.00

Latittude 32.7754860

Longitude -103.4971799





#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	•
2	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	
3	473.86	1.48	358.59	473.85	0.95	-0.02	2.00	358.59	0.95	
4	5151.56	1.48	358.59	5150.00	121.50	-3.00	0.00	0.00	121.54	CVU #210: BHL

#### DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
CVU #210: SHL	0.00	0.00	0.00	646848.00	757001.70	32.7754860	-103.4971799
CVU #210: BHL	5150.00	121.50	-3.00	646969.50	756998.70	32.7758200	-103.4971866

#### MAGNETIC CORRECTION DATA:

## FORMATION TOP DETAILS

Formation
RUSTLER
YATES
SEVEN RIVERS
QUEEN
GRAYBURG
SAN ANDRES



Azimuths to Grid North True North: -0.45° Magnetic North: 5.91°

Magnetic Field Strength: 47649.9snT Dip Angle: 60.35° Date: 02/09/2023 Model: IGRF2020

PROJECT DETAILS: LEA CO., NW (NAD-27 / NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

Vertical Section at 358.59° (500 usft/in)

250

CVU #210: BHL - TD at 5151.56

500

Released to Imaging: 3/6/2023-11:10:55 AM

Plan: PLAN #1 (#210/Wellbore #1)

Created By: Matthew May Date: 15:38, February 09 2023

DISTRICT I

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DISTRICT III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

Dedicated Acres

Joint or Infill

DISTRICT IV

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

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

□AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Al	PI Number			Pool Code			Pool Name	е			
Property C	ode				Property Name	;			Well Number		
					CVU					210	
OGRID N	No.				Operator Name	;			]	Elevation	
			MO	ORNING	GSTAR OPE	RATING, LI	LC		3980'		
					Surface Locati	on					
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	West line	County	
K	6	18-S	35-E		2158	SOUTH	2363	W	EST	LEA	
Bottom Hole Location If Different From Surface											
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	West line	County	
K	6	18-S	35-E		2280	SOUTH	2361	W	EST	LEA	

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

Order No.

	LOT 3	LOT 2	LOT 1
	NAD A - Y=647333. B - Y=647334. C - Y=646010.	DRDINATES TABLE 27 NME 4 N, X=755925.6 E 5 N, X=757216.4 E 6 N, X=755944.3 E 6 N, X=757241.6 E	BOTTOM HOLE LOCATION NAD 27 NME Y=646969.5 N X=756998.7 E LAT.=32.775820° N LONG.=103.497186° W
LOT 5	NAD A - Y=647398. B - Y=647399. C - Y=646075.	ORDINATES TABLE  83 NME 4 N, X=797104.7 E 5 N, X=798395.5 E 6 N, X=797123.4 E 5 N, X=798420.7 E	BOTTOM HOLE LOCATION NAD 83 NME Y=647034.5 N X=798177.8 E LAT.=32.775944* N LONG.=103.497682* W
A	B		
	361' B.H. 363' S.L.	GRID AZ.=358*35'51" HORIZ. DIST.=121.6'	GEODETIC COORDINATES  NAD 27 NME  SURFACE LOCATION  Y=646848.0 N  X=757001.7 E  LAT.=32.775486° N  LONG.=103.497180° W
LOT 7	2158'	75380,	GEODETIC COORDINATES  NAD 83 NME  SURFACE LOCATION  Y=646912.9 N  X=798180.8 E  LAT.=32.775610° N  LONG.=103.497676° W

Consolidation Code

#### OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date

Printed Name

E-mail Address

#### SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of rights of the same or under my supervision; and diathressime is true and correct to the test of my policy.

Date of Survey 12641 Signature & Seal of Professional Survey

Davy D Ewson 02/01/2023

Certificate Number Gary G. Eidson 12641

Ronald J. Eidson 3239

ACK JWSC W.O.: 23.11.0011



EDM 5000.1.13 Single User Db Database: Company: TXO ENERGY PARTNERS Project: LEA CO., NW (NAD-27 / NME)

CVU

Site: Well: #210 Wellbore: Wellbore #1 Design: PLAN #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: **Survey Calculation Method:**  Well #210

RKB = 12' @ 3992.00usft (TBD) RKB = 12' @ 3992.00usft (TBD)

358.59

Minimum Curvature

**Project** LEA CO., NW (NAD-27 / NME)

Map System: Geo Datum:

Map Zone:

US State Plane 1927 (Exact solution)

0.00

NAD 1927 (NADCON CONUS)

New Mexico East 3001

Mean Sea Level

CVU Site

Site Position: Northing: 653,042.20 usft 32.7925706 Latitude: From: Мар Easting: 754,218.70 usft Longitude: -103.5060760 **Position Uncertainty:** 0.00 usft Slot Radius: 13-3/16 " **Grid Convergence:** 0.45°

System Datum:

Well #210

**Well Position** +N/-S -6,194.20 usft Northing: 646,848.00 usft Latitude: 32.7754860 +E/-W 2,783.00 usft Easting: 757,001.70 usft Longitude: -103.4971799 **Position Uncertainty** 0.00 usft Wellhead Elevation: 0.00 usft **Ground Level:** 3,980.00 usft

Wellbore #1 Wellbore **Model Name** Field Strength Sample Date Declination **Dip Angle** Magnetics (°) (nT) (°) 47,650 60.35 IGRF2020 02/09/23 6.36

Design PLAN #1 **Audit Notes:** Tie On Depth: Version: Phase: **PLAN** 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°)

0.00

0.00

Plan Sections	s									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
473.86	1.48	358.59	473.85	0.95	-0.02	2.00	2.00	-1.92	358.59	
5,151.56	1.48	358.59	5,150.00	121.50	-3.00	0.00	0.00	0.00	0.00	CVU #210: BHL



Database:EDM 5000.1.13 Single User DbCompany:TXO ENERGY PARTNERSProject:LEA CO., NW (NAD-27 / NME)

Site: CVU
Well: #210
Wellbore: Wellbore #1
Design: PLAN #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #210

RKB = 12' @ 3992.00usft (TBD) RKB = 12' @ 3992.00usft (TBD)

Grid

Minimum Curvature

ed 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)
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CVU #210		0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00 200.00		0.00 0.00	100.00 200.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
300.00		0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00		0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
473.86		358.59	473.85	0.95	-0.02	0.95	2.00	2.00	0.00
500.00		358.59	499.98	1.63	-0.04	1.63	0.00	0.00	0.00
600.00 700.00		358.59 358.59	599.95 699.92	4.20 6.78	-0.10 -0.17	4.20 6.78	0.00 0.00	0.00 0.00	0.00 0.00
800.00		358.59	799.88	9.36	-0.23	9.36	0.00	0.00	0.00
900.00	1.48	358.59	899.85	11.93	-0.29	11.94	0.00	0.00	0.00
1,000.00		358.59	999.82	14.51	-0.36	14.52	0.00	0.00	0.00
1,100.00		358.59	1,099.78	17.09 10.67	-0.42 -0.49	17.09	0.00	0.00	0.00
1,200.00 1,300.00		358.59 358.59	1,199.75 1,299.72	19.67 22.24	-0.49 -0.55	19.67 22.25	0.00 0.00	0.00 0.00	0.00 0.00
			-						
1,400.00 1,500.00		358.59 358.59	1,399.68 1,499.65	24.82 27.40	-0.61 -0.68	24.83 27.40	0.00 0.00	0.00 0.00	0.00 0.00
1,506.35		358.59	1,506.00	27.56	-0.68	27.40	0.00	0.00	0.00
RUSTLE									
1,556.37	1.48	358.59	1,556.00	28.85	-0.71	28.86	0.00	0.00	0.00
<b>9 5/8"</b> 1,600.00	1.48	358.59	1,599.62	29.97	-0.74	29.98	0.00	0.00	0.00
1,700.00		358.59	1,699.58	32.55	-0.80	32.56	0.00	0.00	0.00
1,800.00		358.59	1,799.55	35.13	-0.87	35.14	0.00	0.00	0.00
1,900.00	1.48	358.59	1,899.52	37.70	-0.93	37.72	0.00	0.00	0.00
2,000.00		358.59	1,999.48	40.28	-0.99	40.29	0.00	0.00	0.00
2,100.00		358.59	2,099.45	42.86	-1.06	42.87	0.00	0.00	0.00
2,200.00 2,300.00		358.59 358.59	2,199.42 2,299.38	45.44 48.01	-1.12 -1.19	45.45 48.03	0.00 0.00	0.00 0.00	0.00 0.00
2,400.00		358.59	2,299.36	50.59	-1.19	50.61	0.00	0.00	0.00
2,500.00		358.59	2,499.32	53.17	-1.31	53.18	0.00	0.00	0.00
2,600.00	1.48	358.59	2,599.29	55.74	-1.38	55.76	0.00	0.00	0.00
2,700.00		358.59	2,699.25	58.32	-1.44	58.34	0.00	0.00	0.00
2,800.00 2,848.80		358.59 358.59	2,799.22 2,848.00	60.90 62.16	-1.50 -1.53	60.92 62.17	0.00 0.00	0.00 0.00	0.00 0.00
YATES	1.70	550.00			1.00	32.17			
2,900.00		358.59	2,899.19	63.48	-1.57	63.49	0.00	0.00	0.00
3,000.00		358.59	2,999.15	66.05	-1.63	66.07	0.00	0.00	0.00
3,100.00 3,191.91		358.59 358.59	3,099.12 3,191.00	68.63 71.00	-1.69 -1.75	68.65 71.02	0.00 0.00	0.00 0.00	0.00 0.00
SEVEN R		550.59	3, 181.00	11.00	-1.75	11.02	0.00	0.00	0.00
3,200.00		358.59	3,199.09	71.21	-1.76	71.23	0.00	0.00	0.00
3,300.00		358.59	3,299.05	73.78	-1.82	73.81	0.00	0.00	0.00
3,400.00		358.59	3,399.02	76.36	-1.89	76.38	0.00	0.00	0.00
3,500.00		358.59	3,498.99	78.94	-1.95	78.96	0.00	0.00	0.00
3,600.00 3,700.00		358.59 358.59	3,598.95 3,698.92	81.51 84.09	-2.01 -2.08	81.54 84.12	0.00 0.00	0.00 0.00	0.00 0.00
3,773.10		358.59	3,772.00	85.98	-2.00 -2.12	86.00	0.00	0.00	0.00
QUEEN									
3,800.00		358.59	3,798.89	86.67	-2.14	86.70	0.00	0.00	0.00
3,900.00		358.59	3,898.85	89.25	-2.20	89.27	0.00	0.00	0.00
4,000.00	1.48	358.59	3,998.82	91.82	-2.27	91.85	0.00	0.00	0.00



Database:EDM 5000.1.13 Single User DbCompany:TXO ENERGY PARTNERSProject:LEA CO., NW (NAD-27 / NME)

 Site:
 CVU

 Well:
 #210

 Wellbore:
 Wellbore #1

 Design:
 PLAN #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well #210

RKB = 12' @ 3992.00usft (TBD) RKB = 12' @ 3992.00usft (TBD)

Grid

Minimum Curvature

lanned Surv	еу									
Measu Dept (usft	h In	clination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,08	2.21	1.48	358.59	4,081.00	93.94	-2.32	93.97	0.00	0.00	0.00
GRAY	BURG									
4,10 4,20		1.48 1.48	358.59 358.59	4,098.79 4,198.75	94.40 96.98	-2.33 -2.39	94.43 97.01	0.00 0.00	0.00 0.00	0.00 0.00
4,30 4,33		1.48 1.48	358.59 358.59	4,298.72 4,335.00	99.55 100.49	-2.46 -2.48	99.58 100.52	0.00 0.00	0.00 0.00	0.00 0.00
SAN	ANDRES	3								
4,40 4,50 4,60	0.00	1.48 1.48 1.48	358.59 358.59 358.59	4,398.69 4,498.65 4,598.62	102.13 104.71 107.29	-2.52 -2.59 -2.65	102.16 104.74 107.32	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
4,70 4,80 4,90	0.00	1.48 1.48 1.48	358.59 358.59 358.59	4,698.59 4,798.55 4,898.52	109.86 112.44 115.02	-2.71 -2.78 -2.84	109.90 112.47 115.05	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
5,00 5,10	0.00	1.48 1.48	358.59 358.59	4,098.49 4,998.45	117.59 120.17	-2.90 -2.97	117.63 120.21	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
5,15		1.48	358.59	5,150.00	121.50	-3.00	121.54	0.00	0.00	0.00
,	#210: BH		550.59	5,150.00	121.50	-5.00	121.54	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
CVU #210: SHL - plan hits target ce - Point	0.00 enter	0.00	0.00	0.00	0.00	646,848.00	757,001.70	32.7754860	-103.4971799
CVU #210: BHL - plan hits target ce - Point	0.00 enter	0.00	5,150.00	121.50	-3.00	646,969.50	756,998.70	32.7758200	-103.4971866

<b>Casing Points</b>					
	Measured	Vertical		Casing	Hole
	Depth	Depth		Diameter	Diameter
	(usft)	(usft)	Name	(")	(")
	1,556.37	1,556.00 9 5/	"	9-5/8	12-1/4

ormations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,506.35	1,506.00	RUSTLER			
	2,848.80	2,848.00	YATES			
	3,191.91	3,191.00	SEVEN RIVERS			
	3,773.10	3,772.00	QUEEN			
	4,082.21	4,081.00	GRAYBURG			
	4,336.29	4,335.00	SAN ANDRES		0.00	



Database:EDM 5000.1.13 Single User DbCompany:TXO ENERGY PARTNERSProject:LEA CO., NW (NAD-27 / NME)

Site: CVU
Well: #210
Wellbore: Wellbore #1
Design: PLAN #1

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

**Survey Calculation Method:** 

Well #210

RKB = 12' @ 3992.00usft (TBD) RKB = 12' @ 3992.00usft (TBD)

Grid

Minimum Curvature

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

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** 

CONDITIONS

Action 191124

#### **CONDITIONS**

Operator:	OGRID:
MorningStar Operating LLC	330132
400 W 7th St	Action Number:
Fort Worth, TX 76102	191124
	Action Type:
	[C-101] Drilling Non-Federal/Indian (APD)

#### CONDITIONS

Created By	Condition	Condition Date
pkautz	Notify OCD 24 hours prior to casing & cement	3/6/2023
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/6/2023
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	3/6/2023
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	3/6/2023
pkautz	Cement is required to circulate on both surface and production strings of casing	3/6/2023
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud	3/6/2023