District I	State of New Mexico	Form C-10
1625 N. French Dr., Hobbs, NM 88240	Stute of file with the med	Revised July 18, 201
Phone: (575) 393-6161 Fax: (575) 393-0720 District II	Energy Minerals and Natural Resourc	
811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720	Oil Conservation Division	AMENDED REPOR
District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170	1220 South St. Francis Dr.	
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	
Phone: (505) 476-3460 Fax: (505) 476-3462	Suntu I e, I (III e rece	
ADDI ICATION EOD DEDM	IT TO DDILL DE ENTED DEEDEN DLL	CRACK OR ADD A ZONE
	IT TO DRILL, RE-ENTER, DEEPEN, PLU	² OGRID Number
Operator	Name and Address	
		330132
MORNINGSTAR OPERATING LLC	, 400 W 7TH ST, FORT WORTH, TX 76102	³ API Number 30-025-51203
^{4.} Property Code	CENTRAL VACUUM UNIT	^{o.} Well No.
331870		

ŧ.	D (0 1
	Property	ano v
	riopere	
		1870

	^{7.} Surface Location									
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County	
Н	31	17S	35E		2174	Ν	1089	Е	LEA	
⁸ Proposed Bottom Hole Location										
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County	
Н	31	17S	35E		1824	Ν	1290	Е	LEA	

^{9.} Pool Information

VACUUM; GRAYBURG-SAN ANDRES	

Pool Code 62180

Additional Well Information

^{11.} Work Type	^{12.} Well Type		13. Cable/Rotary	^{14.} Leas	е Туре	^{15.} Ground Level Elevation			
NEW	О			STATE		3975			
^{16.} Multiple	^{17.} Proposed Depth		^{18.} Formation	^{19.} Contractor		^{20.} Spud Date			
Ν	5145' TVD		SAN ANDRES			04/15/2023			
Depth to Ground water		Distance from nearest fresh water well			Distance to nearest surface water				

We will be using a closed-loop system in lieu of lined pits

^{21.} Proposed Casing and Cement Program

Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC			
SURF	12 1/4	9 5/8	36#	1514 TVD, 1517 MD	506	0			
PROD	8 3/4	5 1/2	17#	5145 TVD, 5162 MD	800	0			
	Casing/Cement Program: Additional Comments								

^{22.} Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer					
DOUBLE RAM	3000	3000	SHAFFER					

^{23.} I hereby certify that the information given above is true and complete to the best of my knowledge and belief.	OIL CONSERVATION DIVISION			
I further certify that I have complied with 19.15.14.9 (A) NMAC and/or 19.15.14.9 (B) NMAC , if applicable.	Approved By:			
Signature: Connis Blaulock				
Printed name: CONNIE BLAYLOCK	Title:			
Title: REGULATORY ANALYST	Approved Date:	Expiration Date:		
E-mail Address: cblaylock@txoenergy.com				
Date: 03/06/2023 Phone: 817-334-7882	Conditions of Approval Attached			

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

Dedicated Acres

Joint or Infill

Consolidation Code

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

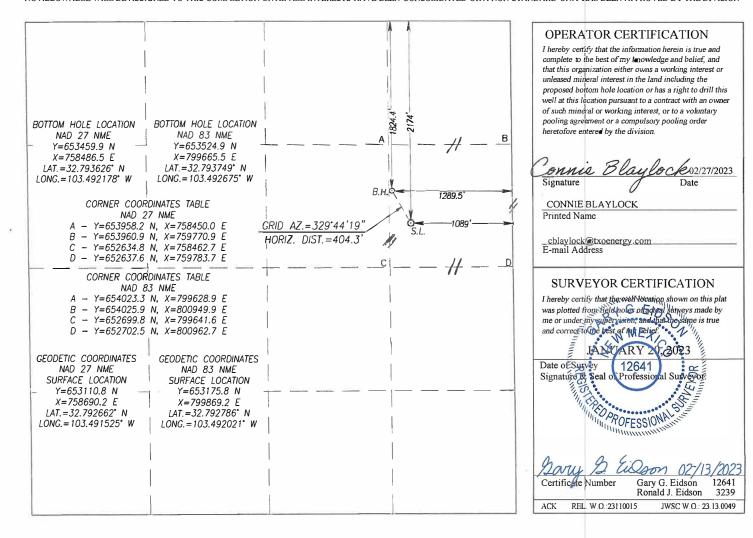
DAMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

						ICL DLDICI		•			
API Number				Pool Code		Pool Name					
30-025-51203			62180			VACUUM	, GRAYBURG-SAN	N ANDRES			
Property C					Property Name				W	ell Number	
331870			C	ENTRA	L VACUUN	1 UNIT				262	
OGRID 1					Operator Name				H	Elevation	
33013	2	MORNINGSTAR OPERATING, LLC					3975'				
					Surface Locati	on					
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County	
Н	31	17-S	35-Е		2174	NORTH	1089	EAST		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	/West line	County	
Н	31	17-S	35-Е		1824.4	NORTH	1289.5	E	EAST	LEA	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL	ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD LINIT I	HAS BEEN APPROVED BY THE DIVISION

Order No.



Re	ceived by	OCD: 3	3/6/2023	1:05:43 PM
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	Sub Via	mit Electronically E-permitting					
	N	ATURAL GAS	S MANA(GEMENT PI	LAN		
This Natural Gas Manag	gement Plan mu	ist be submitted with	each Applicat	ion for Permit to I	Drill (AP	PD) for a new c	r recompleted well.
			<u>– Plan D</u> ctive May 25,				
I. Operator: <u>MORN</u>	INGSTAR OP	ERATING LLC	_OGRID:	330132		Date: 02/	27 /23
II. Type: 🖾 Original 🛛	Amendment	due to □ 19.15.27.9.	D(6)(a) NMA	C 🗆 19.15.27.9.D(6)(b) NI	MAC 🗆 Other	
If Other, please describe	:						
III. Well(s): Provide the be recompleted from a s					wells pro	pposed to be dr	illed or proposed to
Well Name	API	ULSTR	Footages 2174 FNL	Anticipated Oil BBL/D		cipated MCF/D I	Anticipated Produced Water BBL/D
ENTRAL VACUUM UN	NIT 262 30-025-51203	H / 31 / 17S / 35E	1089 FEL	70	300		400
IV. Central Delivery P		CENTRAL VACU	JUM UNIT BA	ATTERY		[See 19.15.2	27.9(D)(1) NMAC]
V. Anticipated Schedu proposed to be recomple					vell or se	t of wells prop	osed to be drilled or
Well Name	API	Spud Date 7	TD Reached Date	Completion Commencement		Initial Flow Back Date	First Production Date
CENTRAL VACUUM I	INIT 262 30-025-51203	04/15/2023	04/22/2023	07/01/2023		07/12/2023	07/15/2023
VI. Separation Equipn VII. Operational Prac Subsection A through F VIII. Best Managemen during active and planne	nent: X Attach tices: X Attac of 19.15.27.8 I nt Practices: 2	h a complete descrip NMAC. A Attach a complete	tion of the act	ions Operator wil	l take to	comply with	the 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.

 \mathbf{X} 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:

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature: Connis Blaylock
Printed Name: CONNIE BLAYLOCK
Title: REGULATORY ANALYST
E-mail Address: cblaylock@txoenergy.com
Date: 02/27/2023
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.

					C/	′U #262				
					API number 30-02				John Marscha	
Sec 31, T17S, R34E Lea County, NM					AFE 22???	?	RIG: United Drilling GLE: 3,975' RKBE: 3,987' Rig KB: 12'			
MWD LWD	Logging Program	Estimated Formation Tops	DEF MD	TH TVD	CASI		HOLE SIZE/MD	CASING/CEMENT SPECS	MW MUD TYPE	DEVIATION
LWD	Flogram	Formation Tops	40'	40'			SIZE/MD	20"	MODITIFE	INFORMATION
							12 1/4"	9 5/8" 36# J55 LTC Centralizer every 3rd No DV Tool	Spud Mud	No Hardlines No Anti collision issuer Start nudge at 400' Nudge ~ 404' NW
								Lead to Surface 330 sks, 12.5 ppg, 2.23 yld 100% Excess 0.25 lb/sk Celloflake LCM	8.4 - 8.8 ppg	Keep DLS under 2° Hold angle to TD (no dro
		Rustler Casing Point	1,467' 1,517'	1,464' 1,514'				Tail to 1,229' 176 sks, 14.8 ppg, 1.34 yld 100% Excess 0.25 lb/sk Celloflake LCM ?? bbls (?? sx) to surface		
	Mud Loggers out from surface							5 1/2" 17# L80 LTC Centralizer every 3rd	WBM (Brine) CO2 Flood	Hold angle to TD
								Lead to Surface 700 sks, 11.0 ppg, 2.64 yld 200% Excess 0.25 lb/sk Cello LCM	9.5 - 10.0 ppg	
		Yates	2,741'	2,733'				0.25 lb/sk KOL LCM		
Warning H2S in San Andres		Seven Rivers	3,067'	3,058'		L	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 H2S	
		Queen	3,647'	3,636'		L			Possible Losses	
		Grayburg	4,020'	4,007'						
		Premier San Andres	4,263' 4,324'	4,249' 4,310'						
		Lovington	4,449'	4,435'						
		L. San Andres	4,492'	4,478'						
		TD	5,162'	5,145'				Confirm Volume with Fluid Caliper		

NOTES: Schematic Not to scale

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MORNING STAR OPERATING, LLC

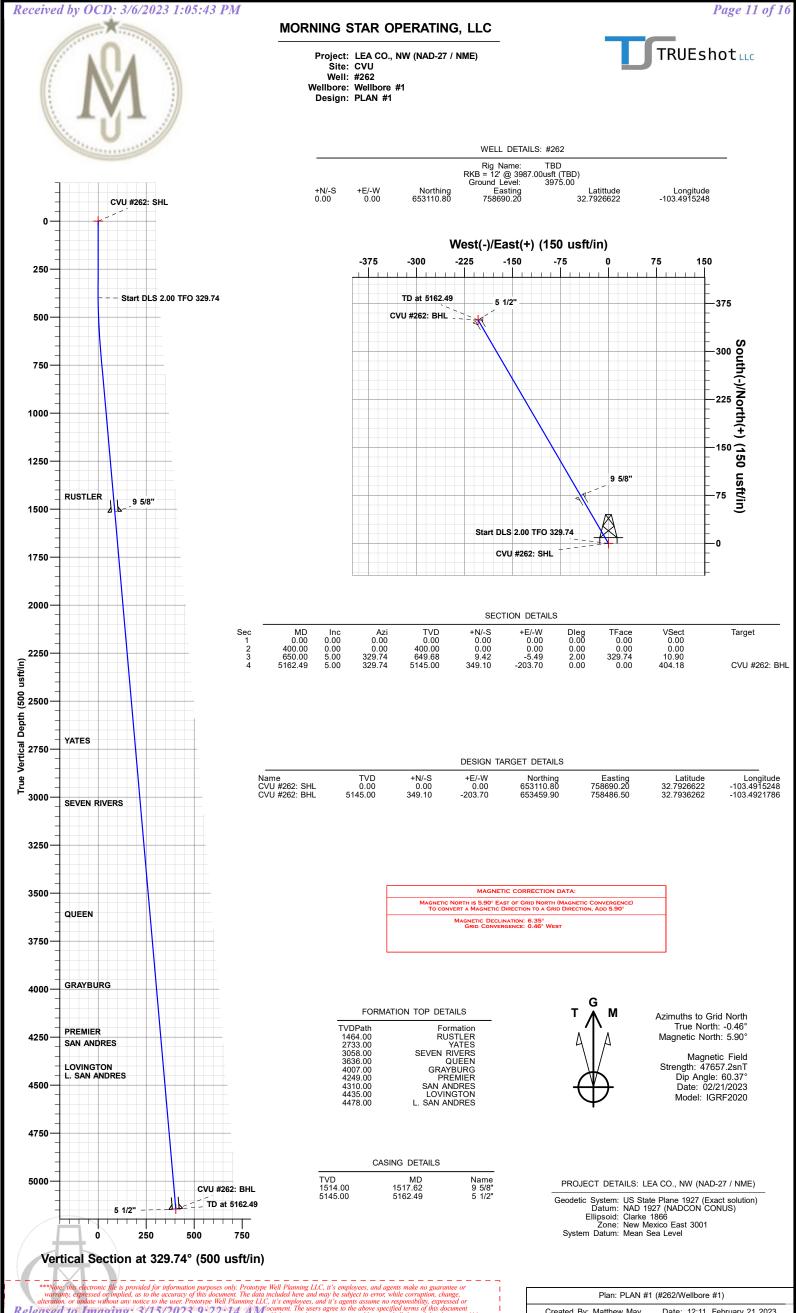
LEA CO., NW (NAD-27 / NME) CVU #262

Wellbore #1

Plan: PLAN #1

Standard Planning Report

21 February, 2023



Released to range in the state of 12 and 12 and 12 and 12 and 14

Date: 12:11, February 21 2023 Created By: Matthew May

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

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

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DISTRICT I

DISTRICT II

DISTRICT III

DISTRICT IV

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

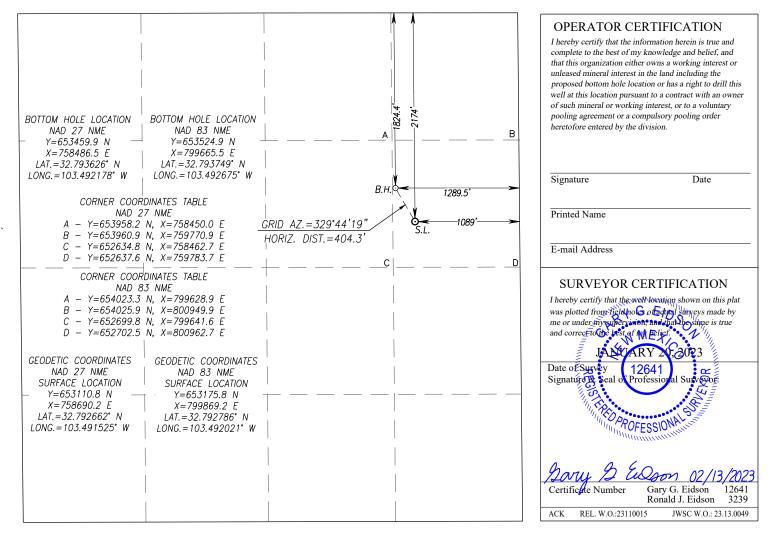
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name	
Property Code	Prop	Well Number	
	(262	
OGRID No.	Oper	ator Name	Elevation
	MORNINGSTAR	3975'	
	Surfac	e Location	

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	31	17-S	35-Е		2174	NORTH	1089	EAST	LEA

Bottom Hole Location If Different From Surface										
UL or lot No.	Section	Townshi	p Range	Lot	Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	31	17-S	35-Е			1824.4	NORTH	1289.5	EAST	LEA
Dedicated Acres	Joint or	Infill	Consolidation	Code	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



Database: Company: Project: Site: Well: Wellbore: Design:	MOR LEA (CVU #262	5000.1.13 Sir NING STAR C CO., NW (NAI ore #1 I #1	OPERATING,	LLC	TVD Refe MD Refe North Re			0	3987.00usft (Tf 3987.00usft (Tf vature	,
Project	LEA C	O., NW (NAD	0-27 / NME)							
Map System: Geo Datum: Map Zone:	NAD 19	e Plane 1927 27 (NADCON exico East 300	I CONUS)	on)	System D	atum:	М	ean Sea Level		
Site	CVU									
Site Position: From: Position Uncerta	Ma∣ ainty:		North Eastin Uusft Slot F	-	,	042.20 usft 218.70 usft 13-3/16 "	Latitude: Longitude: Grid Conve	rgence:		32.7925700 -103.5060760 0.45
Well	#262									
Well Position Position Uncerta	+N/-S +E/-W ainty	4,471.5	0 usft Ea	orthing: isting: ellhead Elev	ation:	653,110.80 758,690.20 0.00	usft Lo	titude: ngitude: ound Level:		32.792662 -103.491524 3,975.00 us
Wellbore										
	Wellb	ore #1								
Magnetics		ore #1 del Name	Sample	e Date	Declina (°)			Angle °)	Field Str (nT	-
Magnetics		// -	Sample	e Date 02/21/23						-
		del Name IGRF2020	Sample					°)		-)
Design Audit Notes:	Mo	del Name IGRF2020	Sample	02/21/23		6.35		°)		-)
	PLAN	del Name IGRF2020 #1	Phas epth From (T (usft)	02/21/23	(°) PLAN +N/-S (usft)	6.35 Tid +E (u	e On Depth: E/-W Isft)	e) 60.37 Dire	(nT 0.00 ection (°)	-)
Design Audit Notes: Version:	PLAN	del Name IGRF2020 #1	Phas Phas	02/21/23	(°) 2LAN +N/-S	6.35 Tid +E (u	e On Depth: E/-W	e) 60.37 Dire	(nT 0.00 ection	-)
Design Audit Notes: Version: Vertical Section	PLAN	del Name IGRF2020 #1	Phas epth From (T (usft)	02/21/23	(°) PLAN +N/-S (usft)	6.35 Tid +E (u	e On Depth: E/-W Isft)	e) 60.37 Dire	(nT 0.00 ection (°)	-)
Design Audit Notes: Version: Vertical Section Plan Sections Measured	PLAN	del Name IGRF2020 #1	Phas epth From (T (usft)	02/21/23	(°) PLAN +N/-S (usft)	6.35 Tid +E (u	e On Depth: E/-W Isft) .00 Build Rate	e) 60.37 Dire	(nT 0.00 ection (°)	-)
Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth Inc (usft) 0.00	Mor PLAN : clination (°) 0.00	del Name IGRF2020 #1 De Azimuth (°) 0.00	Phas epth From (T (usft) 0.00 Vertical Depth (usft) 0.00	02/21/23 se: F VD) +N/-S (usft) 0.00	(°) PLAN +N/-S (usft) 0.00 +E/-W (usft) 0.00	6.35 Tid +E (u 0 Dogleg Rate (°/100usft) 0.00	e On Depth: E/-W Isft) .00 Build Rate (°/100usft) 0.00	o) 60.37 Dire 32 Turn Rate (°/100usft) 0.00	(nT 0.00 ection (°) 29.74 TFO (°) 0.00	7) 47,657
Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth Inc (usft)	Mor PLAN : clination (°)	del Name IGRF2020 #1 De Azimuth (°)	Phas epth From (T (usft) 0.00 Vertical Depth (usft)	02/21/23 ee: F VD) +N/-S (usft)	(°) PLAN +N/-S (usft) 0.00 +E/-W (usft)	6.35 Tid +E (u 0 Dogleg Rate (°/100usft)	e On Depth: E/-W Isft) .00 Build Rate (°/100usft)	°) 60.37 Dire 32 Turn Rate (°/100usft) 0.00 0.00	(nT 0.00 ection (°) 29.74 TFO (°)	7) 47,657

Planning Report

Database: Company:	EDM 5000.1.13 Single User Db MORNING STAR OPERATING, LLC	Local Co-ordinate Reference: TVD Reference:	Well #262 RKB = 12' @ 3987.00usft (TBD)
Project:	LEA CO., NW (NAD-27 / NME)	MD Reference:	RKB = 12' @ 3987.00usft (TBD)
Site:	CVU	North Reference:	Grid
Well:	#262	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1	-	
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)
0.00 100.00 200.00 300.00 400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 100.00 200.00 300.00 400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
500.00 600.00 650.00 700.00 800.00	2.00 4.00 5.00 5.00 5.00	329.74 329.74 329.74 329.74 329.74 329.74	499.98 599.84 649.68 699.49 799.11	1.51 6.03 9.42 13.18 20.71	-0.88 -3.52 -5.49 -7.69 -12.08	1.75 6.98 10.90 15.26 23.97	2.00 2.00 2.00 0.00 0.00	2.00 2.00 2.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
900.00 1,000.00 1,100.00 1,200.00 1,300.00	5.00 5.00 5.00 5.00 5.00	329.74 329.74 329.74 329.74 329.74 329.74	898.73 998.35 1,097.97 1,197.59 1,297.21	28.23 35.76 43.29 50.82 58.35	-16.48 -20.87 -25.26 -29.65 -34.04	32.69 41.41 50.12 58.84 67.55	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
1,400.00 1,500.00 1,600.00 1,700.00 1,800.00	5.00 5.00 5.00 5.00 5.00	329.74 329.74 329.74 329.74 329.74 329.74	1,396.83 1,496.45 1,596.07 1,695.69 1,795.31	65.87 73.40 80.93 88.46 95.98	-38.44 -42.83 -47.22 -51.61 -56.01	76.27 84.98 93.70 102.41 111.13	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
1,900.00 2,000.00 2,100.00 2,200.00 2,300.00	5.00 5.00 5.00 5.00 5.00 5.00	329.74 329.74 329.74 329.74 329.74 329.74	1,894.93 1,994.55 2,094.17 2,193.78 2,293.40	103.51 111.04 118.57 126.09 133.62	-60.40 -64.79 -69.18 -73.58 -77.97	119.84 128.56 137.28 145.99 154.71	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
2,400.00 2,500.00 2,600.00 2,700.00 2,800.00	5.00 5.00 5.00 5.00 5.00 5.00	329.74 329.74 329.74 329.74 329.74 329.74	2,393.02 2,492.64 2,592.26 2,691.88 2,791.50	141.15 148.68 156.20 163.73 171.26	-82.36 -86.75 -91.15 -95.54 -99.93	163.42 172.14 180.85 189.57 198.28	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
2,900.00 3,000.00 3,100.00 3,200.00 3,300.00	5.00 5.00 5.00 5.00 5.00 5.00	329.74 329.74 329.74 329.74 329.74 329.74	2,891.12 2,990.74 3,090.36 3,189.98 3,289.60	178.79 186.32 193.84 201.37 208.90	-104.32 -108.72 -113.11 -117.50 -121.89	207.00 215.71 224.43 233.14 241.86	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
3,400.00 3,500.00 3,600.00 3,700.00 3,800.00	5.00 5.00 5.00 5.00 5.00 5.00	329.74 329.74 329.74 329.74 329.74 329.74	3,389.22 3,488.84 3,588.46 3,688.08 3,787.70	216.43 223.95 231.48 239.01 246.54	-126.28 -130.68 -135.07 -139.46 -143.85	250.58 259.29 268.01 276.72 285.44	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
3,900.00 4,000.00 4,100.00 4,200.00 4,300.00	5.00 5.00 5.00 5.00 5.00 5.00	329.74 329.74 329.74 329.74 329.74 329.74	3,887.32 3,986.94 4,086.56 4,186.17 4,285.79	254.06 261.59 269.12 276.65 284.17	-148.25 -152.64 -157.03 -161.42 -165.82	294.15 302.87 311.58 320.30 329.01	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
4,400.00 4,500.00 4,600.00 4,700.00 4,800.00	5.00 5.00 5.00 5.00 5.00 5.00	329.74 329.74 329.74 329.74 329.74 329.74	4,385.41 4,485.03 4,584.65 4,684.27 4,783.89	291.70 299.23 306.76 314.29 321.81	-170.21 -174.60 -178.99 -183.39 -187.78	337.73 346.45 355.16 363.88 372.59	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
4,900.00 5,000.00 5,100.00 5,162.49	5.00 5.00 5.00 5.00	329.74 329.74 329.74 329.74 329.74	4,883.51 4,983.13 5,082.75 5,145.00	329.34 336.87 344.40 349.10	-192.17 -196.56 -200.96 -203.70	381.31 390.02 398.74 404.18	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00

02/21/23 12:12:30PM

EDM 5000.1.13 Single User Db Well #262 Database: Local Co-ordinate Reference: MORNING STAR OPERATING, LLC Company: **TVD Reference:** RKB = 12' @ 3987.00usft (TBD) Project: LEA CO., NW (NAD-27 / NME) MD Reference: RKB = 12' @ 3987.00usft (TBD) CVU Site: North Reference: Grid Well: #262 Survey Calculation Method: Minimum Curvature Wellbore #1 Wellbore: Design: PLAN #1

Planning Report

Design Targets

Target Name - hit/miss target I - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CVU #262: SHL - plan hits target ce - Point	0.00 nter	0.00	0.00	0.00	0.00	653,110.80	758,690.20	32.7926622	-103.4915248
CVU #262: BHL - plan hits target ce - Point	0.00 nter	0.00	5,145.00	349.10	-203.70	653,459.90	758,486.50	32.7936262	-103.4921786

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,517.62	1,514.00 9	5/8"	9-5/8	12-1/4
5,162.49	5,145.00 5	1/2"	5-1/2	8-3/4

Formations Measured Vertical Dip Depth . Direction Depth Dip . (usft) (usft) (°) Name Lithology (°) 1,467.43 1,464.00 RUSTLER 2,733.00 YATES 2,741.27 3,067.52 3,058.00 SEVEN RIVERS 3,647.72 3,636.00 QUEEN 4,020.14 4,007.00 GRAYBURG 4,263.07 4,249.00 PREMIER 4,324.30 4,310.00 SAN ANDRES 4,449.78 4,435.00 LOVINGTON 4,492.94 4,478.00 L. SAN ANDRES

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

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

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

CONDITIONS

Operator:	OGRID:	
MorningStar Operating LLC	330132	
400 W 7th St	Action Number:	
Fort Worth, TX 76102	193713	
	Action Type:	
	[C-101] Drilling Non-Federal/Indian (APD)	

CONDITIONS

Created By	Condition	Condition Date	
pkautz	Notify OCD 24 hours prior to casing & cement	3/15/2023	
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/15/2023	
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	3/15/2023	
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	3/15/2023	
pkautz	Cement is required to circulate on both surface and production strings of casing	3/15/2023	
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud	3/15/2023	

CONDITIONS

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Action 193713