Received by OCD: 4/26/2023 1:37:42 PM		Page 1 of 1
District I 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico	Form C-101
Phone: (575) 393-6161 Fax: (575) 393-0720 District II	Energy Minerals and Natural Resources	Revised July 18, 2013
811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III	Oil Conservation Division	AMENDED REPORT
1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170	1220 South St. Francis Dr.	PLUGBACK, RECOMPL
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462	Santa Fe, NM 87505	,

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

" Operator Name and Address								- OGRID Numbe	r			
MORNI	MORNINGSTAR OPERATING LLC, 400 W 7TH ST, FORT WORTH, TX 76102								330132			
		01210111		^{3.} API Number 30-025-302								
⁴ . Prop	erty Code 30021			VACUU	Property Name MGLORIETA	A WEST UNIT		^{o.} We 08	11 No. 8H			
	^{7.} Surface Location											
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County			
J	36	17S	34E		1653	S	2309	Е	LEA			
		-		⁸ Propose	ed Bottom Hol	e Location						
UL - Lot	UL - Lot Section Township Range Lot Idn Feet from N/S Line								County			
				9. Do	al Information							

^ Pool Information	
	Pool Code
VACUUM; GRAYBURG-SAN ANDRES	62180
Additional Well Information	

^{11.} Work Type	12.	Well Type	^{13.} Cable/Rotary	^{14.} Lease Type		^{15.} Ground Level Elevation					
P, A		0		S		3994 GL					
^{16.} Multiple	^{17.} Pro	oposed Depth	^{18.} Formation	^{19.} Contractor		^{20.} Spud Date					
Ν											
Depth to Ground water Distance fro		n nearest fresh water well		Distance to n	earest 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						
	Casing/Cement Program: Additional Comments											

^{22.} Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer							

^{23.} I hereby certify that the information given above is true and complete to the	OIL CONSERVATION DIVISION				
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	4 10				
19.15.14.9 (B) NMAC 🔀, if applicable.	Approved By:				
Signature: Connis Blaylock	P Kautz				
Printed name: CONNIE BLAYLOCK	Title:				
Title: REGULATORY ANALYST	Approved Date: 04/08/2023 Expiration Date: 04/08/2025				
E-mail Address: cblaylock@txoenergy.com					
Date: 04/25/2023 Phone: 817-334-7882	Conditions of Approval Attached				

District I 1625 N. French Dr., Hobbs, NM 882 Phone: (575) 393-6161 Fax: (575) 3 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 74 District III 1000 Rio Brazos Road, Aztec, NM 8	93-0720 18-9720 7410	State of Energy, Minerals & N OIL CONSER 1220 Sout	Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office	
Phone: (505) 334-6178 Fax: (505) 33 District IV		Santa F	X AMENDED REPORT	
1220 S. St. Francis Dr., Santa Fe, NN Phone: (505) 476-3460 Fax: (505) 47				JGBACK GLORIETA
	WI	ELL LOCATION AND	ACREAGE DEDICATION PLAT	COMPL GB-SAN ANDRES
¹ API Numbe	er	² Pool Code		ool Name
30-025-30206		62180	VACUUM; GRAYB	URG-SAN ANDRES
⁴ Property Code		⁵ Pr	operty Name	⁶ Well Number
333201		VACUUM GL	ORIETA WEST UNIT	088H
⁷ OGRID No.			perator Name	⁹ Elevation
330132		MORNINGSTAF	OPERATING LLC	2004 CI

33013	32			MORN	IINGSTAR OPE	RATING LLC			3994 GL				
			-		¹⁰ Surface I	Location							
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County				
J	36	175	34E		1653	S	2309	Е	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				
12 Dedicated Acres	¹³ Joint of	Infill ¹⁴ (Consolidation	Code ¹⁵ Or	der No.			Lan					

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.

16		T			
					17 OPERATOR CERTIFICATION
					I hereby certify that the information contained 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
		(c)			the proposed bottom hole location or has a right to drill this well at this
					location pursuant to a contract with an owner of such a mineral or working
					interest, or to a voluntary pooling agreement or a compulsory pooling
					order heretofore entered by the division.
					Connis Blaylock 04/24/2023 Signature Date
					CONNIE BLAYLOCK Printed Name
				T.	<u>cblaylock@txoenergy.com</u> E-mail Address
			-11		
					¹⁸SURVEYOR CERTIFICATION
					I hereby certify that the well location shown on this
	_			1	plat was plotted from field notes of actual surveys
	-				made by me or under my supervision, and that the
		•		2309'	same is true and correct to the best of my belief.
				-	same is if we and confect to the best of my bellej.
			11	······	Date of Survey
		ā			Signature and Seal of Professional Surveyor:
		1653'			
		1			
				×	
			,		Certificate Number
		V			

Re	ceived	by	OCD:	4/26/2023	1:37:42 PM	И
----	--------	----	------	-----------	------------	---

A

ĒN

		_	of New Me						
		Subn Via I	nit Electronically E-permitting						
		1220 Sc	nservation D buth St. Fran a Fe, NM 87	cis Dr.					
	N	ATURAL GA	S MANA	GEMENT PI	LAN				
This Natural Gas Manag	gement Plan mu	1st be submitted with	n each Applica	tion for Permit to E	Drill (Al	PD) for a r	new or	recompleted well.	
	-	Section 1		<u>escription</u>	Ň	,			
I. Operator:	NINGSTAR OF	PERATING LLC	_OGRID:	330132		Date:	04/2	25/2023	
II. Type: 🛛 Original 🛛	☐ Amendment	due to □ 19.15.27.9	.D(6)(a) NMA	C □ 19.15.27.9.D(6)(b) N	MAC 🗆 C	Other.		
If Other, please describe	:								
III. Well(s): Provide the process of the provide the process of the provide the provide the provided the pr					vells pr	oposed to	be dri	lled or proposed to	
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D	P	Anticipated Produced Water BBL/D	
AC GLORIETA WEST UNIT	30-025-3020	5 J/ 36/ 178/ 34E	1653 FSL 2309 FEL		30	0	350		
IV. Central Delivery P V. Anticipated Schedu proposed to be recomple	le: Provide the	following information	UM UNIT BA	TTERY v or recompleted w	ell or s			7.9(D)(1) NMAC] sed to be drilled or	
Well Name	API	Spud Date	TD Reached Date	Completion Commencement				First Production Date	
NTRAL VACUUM UNIT 27	8 30-025-30206			05/08/23		05/12/2	23	05/14/23	
VI. Separation Equipn VII. Operational Prac Subsection A through F	tices: 🛛 Attac	h a complete descrip	-	-			-	• •	
VIII. Best Managemen during active and planne			description of	f Operator's best m	anager	nent practi	ices to	minimize venting	

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.

 \overline{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:

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature: Connis Blaylock
Printed Name: CONNIE BLAYLOCK
Title: REGULATORY ANALYST
E-mail Address: cblaylock@txoenergy.com
Date: 04/25/2023
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.

Received by OCD: 4/26/2023 1:37:42 PM

CURRENT WELLBORE DIAGRAM

Created:	8/19/2003	By:		
Updated:	3/27/2023	By: JFR		
		- J . <u></u>		
Lease:	Vacuum Glorieta West Unit		Well No.: 88H	Field: Vacuum Glorieta
Surface Location:	1653' FSL & 2309' FEL		Unit Ltr: J	Sec: 36 TSHP/Range: 17S-34E
Bottomhole Location:	577' FSL & 1763' FEL		Unit Ltr: 0	Sec: 36 TSHP/Range: 173-34E
		04. 1114		<u> </u>
County:	Lea	St: <u>NM</u>	St Lease: B-155	API: <u>30-025-30206</u>
Current Status:	Active Oil Well		Elevation: 4006'	
Directions to Wellsite:	Buckeye, New Mexico			
Surface Csg.				KB: 4006'
Size:	16"			DF: N/A
Wt.:	75#, J-55		1	GL: 3994'
Set @:	400'			Original Spud Date: 2/14/1988
Sxs cmt:	650 + 175			Original Compl. Date: 3/25/1988
Circ:	Yes			Horizontal Spud Date: 9/24/1997
TOC:	Surface			Horizontal Compl. Date: 10/12/1997
Hole Size:	20"			10/12/1991
	20			
Intermediate Coa				
Intermediate Csg.	44 0/48			
Size:	11-3/4"			
Wt.:	42#, H-40			
Set @:	1540'			Tubing details (6/13/2016):
Sxs Cmt:	1300			Rig up Baker centerlift,
Circ:	Yes			Pick up ESP.
TOC:	Surface			Run in the hole with 183 x 2 3/8 5717.94'
Hole Size:	14 3/4"			S.N. 1.10
				Drain .45
Intermediate Csg.				1 2 3/8 6
Size:	8-5/8"			pump 13.55 pump 23.55
Wt.:	32#, S-80 & K-55			pump 23.55 pump 23.55
Set @:	4840'			gas sep./intake 2.60
Sxs Cmt:	1400 (stg 1-950, stg 2-450)			seal 12.20
Circ:	Yes			motor 17.00
				psi 1.20
DV tool:	1572'			Total 5819.20'
Hole Size:	11"			10tai 3013.20
				1
Production Csg.				
Size:	5-1/2"	OH abdn, wrong		
Wt.:	15.5#, J-55	Window: <u>5788-5</u>		
Set @:	6275'	drilled to 5880'	MD	
Sxs Cmt:	1100 (stg 1-500, stg 2-600)	Isolated w/ 50 s		
Circ:	Yes	/		5792' bad spot in casing (6/2016)
DV tool	4975'	[
Hole Size:	7 7/8"	L	∕ <u> </u>	Window: 5825'-5832' MD: 7062'
Original Vertical TD:	6275'	Whipstock likely in	well	
original vertical TD.	0210	just below win		
Perforations:		Cmt top ~5		
renorations.				
	6094'-6120'-sqzd	CICR @ 6		
	CR @ 6149', 6180-84'-sqzd			
HORIZONTAL INFORMATION			Vertical TD:	
Top of Horizontal Window:	5825'		6275'	
Bot of Horizontal Window:	5832'			_
Horizontal Drilling Interval:	5826'-7062', Open Hole			
Horizontal TD:	7062'			
TVD:	5930'			
IVD.				

.

Received by OCD: 4/26/2023 1:37:42 PM

PROPOSED WELLBORE DIAGRAM

			-	
Created:	8/19/2003	P1/		
		By:		
Updated:	3/27/2023	By: JFR		
Lease:	CVU #278 (formerly VGWU #88		Vell No.:	Field: Vacuum Glorieta
Surface Location:	1653' FSL & 2309' FEL		Jnit Ltr:	Sec: 36 TSHP/Range: 17S-34E
Bottomhole Location:	577' FSL & 1763' FEL	ι	Jnit Ltr: 0	Sec: 36 TSHP/Range: 17S-34E
County:	Lea		t Lease: B-155	API: 30-025-30206
Current Status:	Active Oil Well		Elevation: 4006'	
Directions to Wellsite:	Buckeye, New Mexico	-		
Directions to weinsite.				
Surface Csg.				KB: 4006'
Size:	16"			DF: N/A
Wt.:	75#, J-55			GL: 3994'
		4		
Set @:	400'			Original Spud Date: 2/14/1988
Sxs cmt:	650 + 175			Original Compl. Date: 3/25/1988
Circ:	Yes			Horizontal Spud Date: 9/24/1997
TOC:	Surface			Horizontal Compl. Date: 10/12/1997
Hole Size:	20"			
Intermediate Csg.			<u> </u>	
Size:	11-3/4"	_		
Wt.:	42#, H-40			
Set @:	1540'			
Sxs Cmt:	1300			
Circ:	Yes			
TOC:	Surface			
Hole Size:	14 3/4"			
Intermediate Csg.				
Size:	8-5/8"			
Wt.:	32#, S-80 & K-55			Proposed
Set @:	4840'			Perf 4278'-4554'
Sxs Cmt:	1400 (stg 1-950, stg 2-450)		╪╪╪╴╵╴╪	Perf 4691'-4834'
Circ:	Yes			Proposed CIBP @ 4945'
DV tool:	1572'			cap w/ 35' cmt
	11"			
Hole Size:	11"	DV tool @ 497	5	
Production Csg.				
Size:	5-1/2"	OH abdn, wrong di	ir.	
Wt.:	15.5#, J-55	Window: 5788-580		Proposed CIBP @ 5740'
	6275'	drilled to 5880' M		cap w/ 35' cmt
Set @:				cap w/ 55 cm
Sxs Cmt:	1100 (stg 1-500, stg 2-600)	Isolated w/ 50 sx		
Circ:	Yes		1	5792' bad spot in casing (6/2016)
DV tool	4975'			
Hole Size:	7 7/8"			Window: 5825'-5832' MD: 7062'
Original Vertical TD:	6275'	Whipstock likely in we		
		just below windo		\rightarrow
Perforations:		Cmt top ~583		
	6094'-6120'-sqzd	CICR @ 614	9'	
	CR @ 6149', 6180-84'-sqzd			
				_
HORIZONTAL INFORMATION			Vertical TD:	_
Top of Horizontal Window:	5825'		6275'	
Bot of Horizontal Window:	5832'			
Horizontal Drilling Interval:	5826'-7062', Open Hole			
Horizontal TD:	7062'			
TVD:	5930'			
	0930			

.

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	211043
	Action Type:
	[C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By		Condition Date
pkautz	None	4/27/2023

CONDITIONS

Page 11 of 11

Action 211043