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

☐AMENDED REPORT

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

			1. Operator Name	and Addre	ess			^{2.} OGRID N	umber
								^{3.} API Nur	nber
4. Prope	erty Code				³ Property Na	ame	•		⁶ . Well No.
					7. Surface Loc	cation	_		
UL - Lot	Section	Township	Range	Lot I	dn Feet from	m N/S Line	Feet From	E/W Line	e County
				8. Pr	oposed Botton	Hole Location			
JL - Lot	Section	Township	Range	Lot I	<u> </u>		Feet From	E/W Line	e County
				<u>I</u>	9. Pool Inform	nation		<u> </u>	
					Pool Name				Pool Code
11. Wo	rk Type		^{12.} Well Type	Ado	ditional Well Ir 13. Cable/Ro		14. Lease Type	15.	Ground Level Elevation
^{16.} M	ultiple		^{17.} Proposed Depth		^{18.} Formati	on	19. Contractor		^{20.} Spud Date
epth to Grou	ınd water	l .	Dista	nce from r	nearest fresh water w	vell	Dista	nce to nearest sur	face water
We will h	a using a c	elocad-loon	system in lieu o	f lined ni	te				
WE WIII D	c using a c	loscu-loop		_		Como and Dua aveau			
Tuna	Hole	G:		Tropose	eu Casing and	Cement Program			
		2 S17e	Casing Size	Cas	ing Weight/ft	Setting Denth	Sacks	of Cement	Estimated TOC
Type	Hole	e Size	Casing Size	Cas	ing Weight/ft	Setting Depth	Sacks	of Cement	Estimated TOC
1 ype	Hole	e Size	Casing Size	Cas	ing Weight/ft	Setting Depth	Sacks	of Cement	Estimated TOC
туре	Hole	e Size	Casing Size	Cas	ing Weight/ft	Setting Depth	Sacks	of Cement	Estimated TOC
туре	Hor	e Size	-					of Cement	Estimated TOC
туре	Hole	e Size	-			Setting Depth		of Cement	Estimated TOC
туре	HOR	e Size	Casin	ng/Ceme	ent Program: A	dditional Comme		of Cement	Estimated TOC
туре		e Size	Casin	ng/Ceme	ent Program: A	dditional Comme	nts	of Cement	
туре	Type	e Size	Casin	ng/Ceme	ent Program: A	dditional Comme	nts	of Cement	Estimated TOC
Туре		e Size	Casin	ng/Ceme	ent Program: A	dditional Comme	nts	of Cement	
I hereby co	Type	ne informatio	Casin	Propose Working P	ent Program: A ed Blowout Pre	dditional Comme	nts		Manufacturer
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I hereby co st of my kn rurther cer .15.14.9 (E gnature:	Type ertify that the theoretic form of the triple of tri	ne informatio d belief. nave complic	Casin 22. In given above is ed with 19.15.14. able.	Propose Working P true and co	ent Program: A ed Blowout Pre bressure	OI Approved By: P Kartz Title:	nts	ATION DIV	Manufacturer

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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

Well to be plugged back above horiz track;

E

BHL will be the same as the SHL.

WELL LOCATION AND ACREAGE DEDICATION PLAT 3 Pool Name ² Pool Code ¹ API Number VACUUM: GRAYBURG-SAN ANDRES 62180 30-025-31131 Well Number ⁴ Property Code ⁵ Property Name VACUUM GLORIETA WEST UNIT 115 331886

9 Elevation 8 Operator Name 7 OGRID No. MORNINGSTAR OPERATING LLC 3986 GL 330132 ¹⁰ Surface Location East/West line UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the County

856 34E 604 N 01 18S ¹¹ Bottom Hole Location If Different From Surface County East/West line Range Feet from the North/South line Feet from the UL or lot no. Section Township ¹⁵ Order No. 12 Dedicated Acres ³ Joint or Infill 14 Consolidation Code

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.

		 - 11	
16		 Lot 1 - +00	17 OPERATOR CERTIFICATION
		109	I hereby certify that the information contained herein is true and complete
		6-856'→	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
	1		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
		40.36 ac	order heretofore entered by the division.
			Connis Blaylock 01/16/2023 Signature Date
		3	Connie Blaylock
	3		Printed Name
			<u>cblaylock@mspartners.com</u> E-mail Address
			¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this
			plat was plotted from field notes of actual surveys
			made by me or under my supervision, and that the
			same is true and correct to the best of my belief.
			Date of Survey
			Signature and Seal of Professional Surveyor:
			Certificate Number
II	1	1	J

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 OPF	RATING LLC	OGRID:	330132	Dat	e: 01 /	16 /23	
i. Operator. MORIVI	NG51AR OI E	RATING LLC	_ OGKID:		Da	<u> </u>	10 / 23	
II. Type: \square XOriginal \square Amendment due to \square 19.15.27.9.D(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square Other.								
If Other, please describe	»:							
III. Well(s): Provide the be recompleted from a s					wells proposed	to be dri	lled or proposed to	
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/I		Anticipated roduced Water BBL/D	
VAC GLORIETA W UNIT	30-025-31131	A, 01, 18S, 34E	604 FNL 856 FEL	50	300		525	
IV. Central Delivery P V. Anticipated Schedu proposed to be recomple	le: Provide the	following informati	on for each nev	w or recompleted w			. , , ,	
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		al Flow k Date	First Production Date	
				02/05/2023	02/0	08/2023	02/10/2023	
VI. Separation Equipment: ☐ Attach a complete description of how Operator will size separation 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.								

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. \square 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).

	A 1 .	O 1	, 1 ,		1 4.	•	4 41 .	ased line pres	
I I	Affach (Inerator	's nian to	manage	nraduction	in rechange	to the incre	aced line nrec	cure

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.	

(i)

Section 3 - Certifications Effective May 25, 2021

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)

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (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 BLALOCK
Title:	REGULATORY ANALYST
E-mail Address	: CBLAYLOCK@MSPARTNERS.COM
Date:	01/16/2023
Phone:	
	817-334-7882
	OIL CONSERVATION DIVISION
	(Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of A	pproval:

VGWU 115H, MorningStar Operating LLC

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

Surface facilities for the well are located at a central site. Process equipment includes a 3-phase separator tester, a 2-phase free water knockout, gun barrel, oil tanks, vapor recovery unit, and a flare stack. Vessels are sized based on historical and predicted well performance and provide adequate time for separation. Natural gas will be sold to the sales pipeline and vented/flared during emergency/non-scheduled issues.

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.

PROPOSED WELLBORE DIAGRAM

Created: 3/23/2005 By: **Updated:** 9/6/2022 By: JFR VGSAU VGWU Field: Vacuum Glorieta Lease: Well No.: 358 115H 604' FNL & 856' FEL TSHP/Range: 18S-34E Surface Location: Unit Ltr: Α Sec: **Bottomhole Location:** 46' FSL & 443' FWL **Unit Ltr:** М Sec: 31 TSHP/Range: 17S-35E St Lease: B-1733-1 **API**: 30-025-31131 County: Lea St: NM **Current Status:** Active Oil Producer Elevation: 3986' GR **Directions to Wellsite:** Buckeye, New Mexico Surface csg Size: 11-3/4" KB: 4001' 14-3/4" hole DF: Wt.: 42#, H40 1550' GL: 3986' Set @: 1400 sx, Circ 300 sx Original Spud Date: 3/28/1991 Circ. **Intermediate Casing** Original Compl. Date: 6/11/1991 Horizontal Spud Date: 12/6/1997 Size: 8-5/8" Wt.: 32 Horizontal Compl. Date: 12/24/1997 3000 Set @: 1050 (DV @ 1565') Sxs cmt: 315 sx Circ: Surface TOC: Hole Size: 11" **Production Casing** Size: 5 1/2 Wt.: 15.5#, J55 Proposed San Andres Perfs: Set @: 6300 4241'-4409' Sxs Cmt: 1375 (DV @ 4983') 4440'-4783' Circ: 90 sx TOC: surf Proposed CIBP ~ 5000' Hole Size: 7-7/8" Csg leak btwn 5008'-5103' Sqz w/ 60 sx cmt total (2017) **Top of Horizontal Window:** 5848' 5860' **Bot of Horizontal Window:** 7459', 4-3/4" Hole **Horizontal TD:** Proposed CIBP @ 5800' Top of window @ 5848' PBTD (Cement Retainer): 5867' 5861' PBTD (cement plug) CICR @ 5867' Sqz thru w/ 100 sx **Perforations** Open Hole Completion in Horizontal Section (abandoned/sqzd) 5956' - 6092'

TD: 6250'

6145' - 6192'

(abandoned/sqzd)

		WELLBORE DIA	GRAIN
Created:	3/23/2005 By :		
Updated:	9/6/2022 By : JF	R	
Lease:	Vacuum Glorieta West U		
Surface Location:	604' FNL & 856' FEL	Unit Ltr: A	Sec:
Bottomhole Location:	46' FSL & 443' FWL	Unit Ltr: M	Sec:
County:	Lea St: N	M St Lease: B-1733-1	API
Current Status:	Active Oil Producer	Elevation: 3986' GR	_
SDirections to Wellsite:	Buckeye, New Mexico		
Surface csg			
Size:	11-3/4"		
Wt.:	42#, H40 14-3/4" hole		
Set @:	1550'		
Circ.	1400 sx, Circ 300 sx		
Intermediate Casing	0.7/01		
Size:	8-5/8"		
Wt.:	32		
Set @:	3000 1050 (DV @ 1565')		
Sxs cmt:			
Circ: TOC:	315 sx		
Hole Size:	Surface 11"		_
Hole Size.			
Production Casing			
Size:	5 1/2		
Wt.:	15.5#, J55		
Set @:	6300		
Sxs Cmt:	1375 (DV @ 4983')		
Circ:	90 sx		
TOC:	surf		
Hole Size:	7-7/8" Csg lea	ak btwn 5008'-5103'	1
	Sqz w/ 60	sx cmt total (2017)	
Top of Horizontal Window:	5848'		_
Bot of Horizontal Window:	5860'		
Horizontal TD:	7459', 4-3/4" Hole		
	-	ndow @ 5848'	
PBTD (Cement Retainer):	5867'		
PBTD (cement plug)	5861'		
			CI Sc
			30
Perforations			
Open Hole Completion in Hori			
(abandoned/sqzd)	5956' - 6092'		

	Field:	Vacuum Glor		
Sec:	1	TSHP/Range:	18S-34E	
Sec:	31	TSHP/Range:	17S-35E	
API : 30-025-31131				
			<u>-</u> "	

KB: 4001' DF: GL: 3986' Original Spud Date: 3/28/1991
Original Compl. Date: 6/11/1991 Horizontal Spud Date: 12/6/1997 Horizontal Compl. Date: 12/24/1997

ΠŢ	Γubi	ıbing								
	Tubing Description Tubing - Production					Run Dat 1/14/2		Pull Date		
	Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
Γ	1	Tubing	2 7/8	2.44	6.50	J-55		4.1	15	19
Ī	175	Tubing	2 7/8	2.44	6.50	J-55		5771.4	19	5791
F	1	Tubing Drain	2 7/8					0.6	5791	5791
r	1	Seal Nipple	2 7/8					1.1	5791	5792
F	1	Tubing	2 7/8	2.44	6.50	J-55		4.1	5792	5796
r	2	ESP - Pump	2 7/8					24.1	5796	5820
	1	ESP - Pump	2 7/8					19.1	5820	5839
F	1	ESP - Pump	2 7/8					10	5839	5850
F	2	ESP - Pump with intake	2 7/8					14.3	5850	5864
F	1	Seal	2 7/8					6.1	5864	5870
F	1	Seal	2 7/8					6.1	5870	5876
F	1	ESP - Motor	2 7/8					21.4	5876	5897
	1	Pressure / Temperature Sensor	2 7/8					2	5897	5899

CICR @ 5867' Sqz thru w/ 100 sx

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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

Action 176686

CONDITIONS

Operator:	OGRID:
MorningStar Operating LLC	330132
400 W 7th St	Action Number:
Fort Worth, TX 76102	176686
	Action Type:
	[C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By		Condition Date
pkautz	None	1/18/2023