<u>District I</u> 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**

Form C-101 August 1, 2011

Permit 297887

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZO
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Operator Name and Address	2. OGRID Number	
ARMSTRONG ENERGY CORP	1092	
P.O. Box 1973	3. API Number	
Roswell, NM 88202		30-025-49608
4. Property Code	5. Property Name	6. Well No.
331824	LIKE A ROCK	001

7 Surface Location

ſ	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	1	23	18S	35E	1	2252	S	1102	E	Lea

				o. Froposeu i	Dolloin Hole Location				
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
1	23	185	35F	1	2252	S	1102	F	Lea

9. Pool Information

REEVES; DEVONIAN	51940

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3875
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	12300	Devonian		12/1/2021
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	17.5	13.375	54.5	1900	1600	0
Int1	12.25	9.625	40	4350	1100	0
Prod	8.75	5.5	17	12300	1350	4000

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	3750	Shaffer
Annular	5000	3750	Shaffer

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable. Signature:				OIL CONSERVATION	ON DIVISION
Printed Name:	Electronically filed by Irma Cunnir	ngham	Approved By:	Paul F Kautz	
Title:	Geo Tech		Title:	Geologist	
Email Address:	ail Address: icunningham@armstrongenergycorp.com			11/30/2021	Expiration Date: 11/30/2023
Date:	11/30/2021	Conditions of Appr	oval Attached		

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (576) 393-6161 Fax: (575) 393-6720
DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

WELL LOCATION AND ACREAGE DEDICATION PLAT

1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Pool Code

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

Pool Name

DISTRICT III 1000 RIO BRAZOS RD., AZTEC, NM 87410 Phone: (505) 334-8178 Fax: (505) 334-8170

□ AMENDED REPORT

DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505 Phone: (505) 476-3460 Fax: (505) 478-3462

API Number

Property (Code				Property Nam LIKE A RO			Well Nun	ber
						1			
OGRID No	o.				Operator Nam			Elevatio	
			AR	MSTRO	NG ENERGY	CORPORATIO	N	387	4.8′
					Surface Loc	ation			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	23	18-S	35-E		2370	SOUTH	1080	EAST	LEA
			Bottom	Hole Lo	cation If Diffe	erent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	s Joint	or Infill Co	nsolidation	Code 0:	rder No.)	
	-			7101/810					
NO ALLO	WABLE V					JNTIL ALL INTER APPROVED BY		EEN CONSOLIDA	ATED
		ON A	TON DIA	DAIGD O	HIT HAD DEEN	ATTROVED DI	- DIVIDION		
				1			OPERAT	OR CERTIFICA	TION
	1			Ī	1		I hereby herein is true	certify that the inf and complete to th	ormation e best of
							my knowledge	and belief, and the	t this
	1			1	ſ		or unleased m including the	ineral interest in the proposed bottom hos	e land e location
							or has a right	to drill this well as ant to a contract w.	this
1				Ĭ	1		owner of such	mineral or working ary pooling agreeme	interest,
							compulsory po	oling order heretofor	re entered
- x x	:			<u>. </u>			- 17/711	.1.	20/00
					}	NAD 83 NME	KAJT	De	30/21
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					L	ONG.=103.422898° W	E-mail Addres		-
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				1		9	true and corre	ervision, and that the ect to the best of m	y belief.
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				I	Į.		Signature & S	Seal of Professiona	l Surveyor
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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**

Form APD Conditions

Permit 297887

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
ARMSTRONG ENERGY CORP [1092]	30-025-49608
P.O. Box 1973	Well:
Roswell, NM 88202	LIKE A ROCK #001

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require Deviation Survey with C-105
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
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
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
nkautz	Will require a administrative order for non-standard location prior to placing the well on production



NATURAL GAS MANAGEMENT PLAN ATTACHMENTS:

VI: Description of how Armstrong Energy Corporation will size separation equipment to optimize gas capture.

Separation equipment will be sized by Armstrong Energy Corporation's engineering staff based on anticipated volumes to allow adequate retention time of the produced fluids within the vessel.

VII: Descriptions of the actions Armstrong Energy Corporation will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC

- A. Armstrong Energy Corporation will maximize the recovery of natural gas by minimizing waste of natural gas through venting and flaring. AEC will ensure that our wells will be connected to a natural gas gathering system with sufficient capacity to transport 100% of the produced natural gas. Should a natural gas gathering system be unfeasible, an alternative beneficial use will be found for the gas.
- B. All drilling operations will be equipped with a properly sized flare stack located at least 100 feet from the surface hole location. The flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency or malfunction, any flared volumes will be reported appropriately.
- C. During completion operations any natural gas produced by the well will be flared. Following completion and flowback operations, the production stream will flow to portable separation equipment until well facility is completed, at which point fluids will be directed to permanent separation equipment. The separated natural gas will be sent to a gas gathering line. If the natural gas does not meet gathering pipeline specifications, gas will be flared for 60 days or until the gas meets pipeline specifications. The flare stack will be properly sized and equipped with an automatic igniter or continuous pilot. Gas samples will be taken twice per week and natural gas will be routed into a gathering system as soon as the pipeline specifications are met.
- D. During production operations natural gas will not be flared unless an exception as listed in 19.15.27.8(D)(1-4) is met. If there is no adequate takeaway for the produced natural gas, the well will be shut-in until a gas gathering system or alternative beneficial use is available, with exception of emergency or malfunction situations.
- E. Armstrong Energy Corporation will comply with performance standards as listed in 19.15.27.8(E)(1-8). All equipment will be designed and sized to handle maximum pressure in order to minimize waste. Storage tanks that are routed to a flare or other control device will be equipped with automatic gauging systems to reduce venting of natural gas. Flare stacks will be equipped with an automatic ignitor or continuous pilot. AEC conducts AVO inspections as



- described in 19.15.27.8(E)(5)(a) at frequencies specified in 19.15.27.8(E)(5)(b) and (c). All emergencies or malfunctions will be resolved as quickly and safely as possible to minimize waste.
- F. The volume of natural gas that is vented, flared or beneficially used during drilling, completion, or production operations, will be measured or estimated and reported accordingly. AEC will install equipment to measure the volume of natural gas flared from a facility associated with a well authorized by an APD after May 25, 2021 that has an average daily production greater than 60,000 cubic feet of natural gas. If metering is not practicable due to circumstances such as low flow rate or low pressure venting or flaring, AEC will estimate the volume of flared or vented natural gas. Measuring equipment will conform to industry standards and will not be equipped with a bypass around the metering element except for the sole purpose of inspecting and servicing the metering equipment.

VIII: Description of Armstrong Energy Corporation's best management practices to minimize venting during active and planned maintenance.

For active and planned maintenance activities, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production equipment, the producing well associated with the equipment will be shut-in to prevent venting.

I. Operator: Armstrong Energy Corporation

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Date: 10 / 20 / 21

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 <u>Effective May 25, 2021</u>

II. Type: \square Original \square Amendment due to \square 19.15.27.9.D(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square Other.

OGRID: 1092

If Other, please describe:								
III. Well(s): Provide the be recompleted from a sin					wells pro	posed to be di	rilled or proposed to	
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		Anticipated Anticipated Gas MCF/D Produced Water BBL/D		
Like A Rock #1		UL I Sec 23 T18S R35E	2252' FSL 1102' FEL	130	20		0	
IV. Central Delivery Po V. Anticipated Schedule proposed to be recomplet	e: Provide the	following informatio	n for each nev	w or recompleted w	ell or set		27.9(D)(1) NMAC] cosed to be drilled or	
Well Name	API	Spud Date	ΓD Reached Date	Completion Commencement Date		Initial Flow Back Date	First Production Date	
Like A Rock #1		12/1/21						
VI. Separation Equipmed VII. Operational Practic Subsection A through For VIII. Best Management during active and planned	ices: ☑ Attac of 19.15.27.8 t Practices: §	ch a complete descrip NMAC.	tion of the ac	tions Operator will	l take to	comply with	the requirements of	

Section 2 – Enhanced Plan

			<u>TE APRIL 1, 2022</u>			
	2022, an operator the complete this section		with its statewide natural ga	as cap	oture requirement for the applicable	
	es that it is not requit t for the applicable re		ction because Operator is in o	compl	liance with its statewide natural gas	
IX. Anticipated Na	ntural Gas Producti	on:				
Well		API	Anticipated Average Natural Gas Rate MCF/D		Anticipated Volume of Natural Gas for the First Year MCF	
X. Natural Gas Ga	nthering System (NC	GGS):		l		
Operator	System	ULSTR of Tie-in	Anticipated Gathering Av Start Date		Available Maximum Daily Capacity of System Segment Tie-in	
production operation the segment or port XII. Line Capacity production volume XIII. Line Pressur natural gas gatherin Attach Operator XIV. Confidential Section 2 as provide	ns to the existing or prior of the natural gas gas. The natural gas gas from the well prior to e. Operator \(\sqrt{ does } \) described system(s) described ity: \(Operator assed in Paragraph (2) or prior of the content of	planned interconnect of gathering system(s) to gathering system will [a the date of first product does not anticipate the dabove will continue to eduction in response to the date confidentiality pursuits of the date of t	the natural gas gathering systewhich the well(s) will be considered will not have capacity to getion. at its existing well(s) connect meet anticipated increases in the increased line pressure. Suant to Section 71-2-8 NMS 27.9 NMAC, and attaches a few which we will be considered to the constant to th	em(s), nected rather ted to n line p	atted pipeline route(s) connecting the and the maximum daily capacity of d. 100% of the anticipated natural gas the same segment, or portion, of the pressure caused by the new well(s).	

(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: Departor 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) power generation for grid; (b) (c) compression on lease; (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:
Printed Name: Kyle Alpers
Title: VP Engineering
E-mail Address: kalpers@aecnm.com
Date: 10/20/21
Phone: 575-625-2222
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval: