ARMSTRONG ENERGY CORP

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory

1. Operator Name and Address

P.O. Box 1973

Roswell, NM 88202

https://www.emnrd.nm.gov/ocd/contact-us

# 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 402207

2. OGRID Number

3. API Number

1092

30-025-55410

Expiration Date: 11/4/2027

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

4. Property Cod	de	5. Pro	perty Name				6. Wel	l No.			
	847		Iceman 20 Sta	ate				001			
				7. Surf	ace Location						
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County		
Α	20	16S	36E	А	1109	N	996	E	Lea		
	•	•	•	8. Proposed B	ottom Hole Locatio	n	•	•	•		
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County		
Α	20	16S	36E	A	823	N	1135	E	Lea		
				9. Poo	I Information						
LOVINGTON	;UPPER PENN, W	'EST						40750			
				Additional	Well Information						
11. Work Type		12. Well Type		13. Cable/Rotary		ise Type	15. Ground Lev	el Elevation			
Nev	v Well	OIL		•		State	392	1			
16. Multiple		17. Proposed De	pth	18. Formation	19. Cor	ntractor	20. Spud Date				
N		1173	0	Strawn		12/15/2025					
Depth to Groun	id water			Distance from neares	t fresh water well	fresh water well Distance to nearest surface water					
We will be i	ieina a cloead-loc	op system in lieu of	lined nite								
z we will be t	using a closeu-loc	op system in neu or	•								
		1			ing and Cement Pro						
Туре	Hole Size	Casing Size	Ca	sing Weight/ft	Setting De	pth	Sacks of Cement		Estimated TOC		
Surf	12.25	9.625		40	2250		825		0		
Prod Prod	8.5 8.5	5.5 5.5		17 17		11730 2200 0 10000 2200 0					
Prod	8.5	5.5		15.5	6300	'	2200		0		
Prod	8.5	5.5		17	3800		2200		0		
1100	0.0	0.0					2200	<u> </u>	0		
				sing/Cement Prog	ram: Additional Co	mments					
Cement will I	oe circulated to su	rface on both string	s of casing.								
			:	22. Proposed Blov	vout Prevention Pro	gram					
	Type		Wor	king Pressure		Test Pressu	re	Manı	ıfacturer		
	Double Ram			5000		5000		Sh	naffer		
		mation given above	is true and complet	te to the best of my	'	0	IL CONSERVATION	DIVISION			
knowledge a											
		s containing PFAS c	nemicals will be ad	ded to the complet	ion						
	ion of this well.	d	NMAC Mandlen	40 45 44 0 (D) NIM							
i further cert ⊠, if applical		d with 19.15.14.9 (A	INIVIAC A and/or	13.15.14.9 (B) NIVI	40						
z, ii appiicai	JIG.										
Signature:											
					1						

Jeffrey Harrison

11/4/2025

Conditions of Approval Attached

Petroleum Specialist III

Approved By:

Approved Date:

Title:

Electronically filed by Shelby Dutton

sdutton@armstrongenergycorp.com

Phone: 575-625-2222

Accountant

11/3/2025

Printed Name:

Email Address:

Title:

Date:

<u>C-10</u>		1/3/2025 4:5		ergy, Mii		ew Mexico ral Resources Departi	ment			Revised July 9, 20		
	t Electronical					TION DIVISION			VI Initial Co.	1:44a1		
Via OC	D Permitting							Submittal	X Initial Su			
								Type:	☐ Amended Report ☐ As Drilled			
					WELLLOCA	TION INFORMATION			As Drille	ed		
ΔΡΙ Ν	umber		Pool Code			ATION INFORMATION  Pool Name 1 1 1						
30-0	025-554	10		40750	)	Pool Name Lovington; Upper Penn, West						
	ty Code <b>7847</b>		Property Na	ıme	I	CEMAN 20 STATE			Well Number	er 1		
OGRI	D 3.1	092	Operator Na	ame	ARMSTRON	IG ENERGY CORPOR	ATION		Ground Lev			
Surfac	e Owner: 🗖	State ☐ Fee ☐	 l Tribal □ Fed	lera1	AIIMSTIU	Mineral Owner: 🔀		☐ Tribal ☐ 1	•	920.7'		
-	X											
TIT	Castian	Township	Damas	Lat	Sur Ft. from N/S	face Location	Latituda	T	ongitude	Country		
UL	Section	Township	Range	Lot			Ft. from E/W Latitude			County		
A	20	16-S	36-E		1109 FNL		32.9116	575°N 10	)3.371051°W	LEA		
T.T.	Gt'	Т1-:	D	T -4	Botto Ft. from N/S	m Hole Location	T -4't 1-	Т.		Committee		
UL	Section	Township	Range	Lot		Ft. from E/W	Latitude		ongitude 03.371505°W	County		
A	20	16-S	36-E		823 FNL	1135 FEL	1135 FEL 32.912459°N			LEA		
	Dedicated Acres Infill or Defining Well Defining Well				Well API	Overlapping Spacing	g Unit (Y/N)	Consolidati	on Code			
Order	Order Numbers.					Well setbacks are un	ıder Common	Ownership: [	∃Yes □No			
					IZ i al.	Off Daint (VOD)						
UL	Section	Township	Range	Lot	Ft, from N/S	Off Point (KOP) Ft. from E/W	Latitude	L	ongitude	County		
							Lande					
					First 7	 Γake Point (FTP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County		
					Last 7	 Γake Point (LTP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County		
Unitiz	ed Area or Aı	rea of Uniform	Interest	Spacing	Unit Type □ Ho	rizontal 🛛 Vertical	Grou	nd Floor Elev	vation:			
									3920	0.7		
OPER	ATOR CERT	TIFICATIONS				SURVEYOR CERTIFI	ICATIONS					
I hereb my kno organiz includio location interest	y certify that th wledge and bel ation either ow ng the proposed n pursuant to a	e information con ief, and, if the wei ns a working inte I bottom hole loca contract with an v ary pooling agree	l is a vertical or rest or unleased tion or has a rig owner of a work	directional v mineral inte ht to drill thi ng interest o	rest in the land	I hereby certify that the w surveys made be me or un of my belief.	ell location show	wn on this plat ion, and that ti	he same is trued	MEXIC		
If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.								LICENSED	7777			

Note: 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.

Certificate Number

17777

8/20/25

DECEMBER 9, 2024

DRAWN BY: WN

PAGE 1 OF 2

Date of Survey

W.O.#24-1247

8/26/25

kalpers@aecnm.com

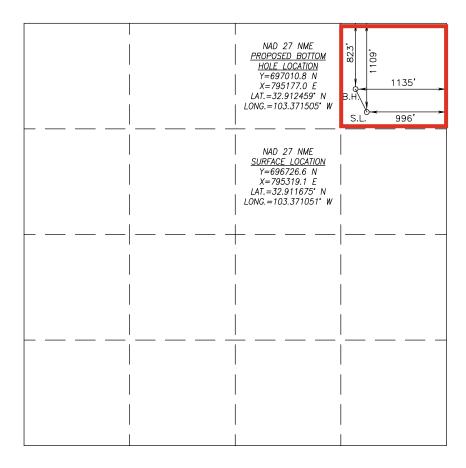
**Kyle Alpers** 

Printed Name

Email Address

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

# 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 402207

#### PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
ARMSTRONG ENERGY CORP [1092]	30-025-55410
P.O. Box 1973	Well:
Roswell, NM 88202	Iceman 20 State #001

OCD Reviewer	Condition
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.
jeffrey.harrison	Administrative order required for non-standard location prior to production.
jeffrey.harrison	Cement is required to circulate on both surface and production strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	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.
jeffrey.harrison	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.

# **ARMSTRONG ENERGY**

Lea County, NM (NAD27) NMEZ Grid Iceman 20 State 1 Iceman 20 State 1

ОН

Plan: Plan #1rev

# **Standard Planning Report**

02 September, 2025

Database: EDM 5000.1 Single User Db Company: ARMSTRONG ENERGY

Project: Lea County, NM (NAD27) NMEZ Grid

Site: Iceman 20 State 1
Well: Iceman 20 State 1

Wellbore: OH
Design: Plan #1rev

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Iceman 20 State 1

3920.7+18 @ 3938.70usft (Planning) 3920.7+18 @ 3938.70usft (Planning)

Grid

Minimum Curvature

Project Lea County, NM (NAD27) NMEZ Grid

 Map System:
 US State Plane 1927 (Exact solution)

 Geo Datum:
 NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Iceman 20 State 1

Northing: 696,726.60 usft 32.9116750 Site Position: Latitude: Easting: 795,319.00 usft -103.3710509 From: Мар Longitude: **Position Uncertainty:** 0.00 usft Slot Radius: 13.20 in Grid Convergence: 0.52 °

Well Iceman 20 State 1

 Well Position
 +N/-S
 0.00 usft
 Northing:
 696,726.60 usft
 Latitude:
 32.9116750

 +E/-W
 0.00 usft
 Easting:
 795,319.00 usft
 Longitude:
 -103.3710509

Position Uncertainty 0.00 usft Wellhead Elevation: Ground Level: 3,920.70 usft

Wellbore OH

 Magnetics
 Model Name
 Sample Date (°)
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 User Defined
 09/02/25
 6.19
 60.40
 47,420.20000000

 Design
 Plan #1rev

 Audit Notes:
 PROTOTYPE
 Tie On Depth:
 0.00

 Vertical Section:
 Depth From (TVD) (usft)
 +N/-S (usft)
 +E/-W (usft)
 Direction (°)

 0.00
 0.00
 0.00
 333.43

Plan Survey Tool Program Date 09/02/25

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.00 11,742.00 Plan #1rev (OH)

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,350.00	0.00	0.00	2,350.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,799.59	4.50	333.43	2,799.13	15.77	-7.88	1.00	1.00	0.00	333.43	
6,400.41	4.50	333.43	6,388.87	268.23	-134.12	0.00	0.00	0.00	0.00	
6,850.00	0.00	0.00	6,838.00	284.00	-142.00	1.00	-1.00	0.00	180.00	
11,742.00	0.00	0.00	11,730.00	284.00	-142.00	0.00	0.00	0.00	0.00 lce	eman 20 State 1 PE

Database: EDM 5000.1 Single User Db Company: ARMSTRONG ENERGY

Project: Lea County, NM (NAD27) NMEZ Grid

Site: Iceman 20 State 1
Well: Iceman 20 State 1

Wellbore: OH
Design: Plan #1rev

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Iceman 20 State 1

3920.7+18 @ 3938.70usft (Planning) 3920.7+18 @ 3938.70usft (Planning)

Gilu

Minimum Curvature

ned Survey									
neu Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	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
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00		1,400.00	0.00				0.00	0.00
1,400.00		0.00	1,400.00		0.00	0.00	0.00		
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,250.00	0.00	0.00	2,250.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,350.00	0.00	0.00	2,350.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.50	333.43	2,400.00	0.20	-0.10	0.22	1.00	1.00	0.00
2,500.00	1.50	333.43	2,499.98	1.76	-0.88	1.96	1.00	1.00	0.00
2,600.00	2.50	333.43	2,599.92	4.88	-2.44	5.45	1.00	1.00	0.00
		333.43			-2.44 -4.78			1.00	
2,700.00	3.50	333.43	2,699.78	9.56	-4.70	10.69	1.00	1.00	0.00
2,799.59	4.50	333.43	2,799.13	15.77	-7.88	17.63	1.00	1.00	0.00
2,900.00	4.50	333.43	2,899.23	22.81	-11.40	25.50	0.00	0.00	0.00
3,000.00	4.50	333.43	2,998.92	29.82	-14.91	33.34	0.00	0.00	0.00
3,100.00	4.50	333.43	3,098.61	36.83	-18.42	41.18	0.00	0.00	0.00
3,200.00	4.50	333.43	3,198.31	43.84	-21.92	49.02	0.00	0.00	0.00
,									
3,300.00	4.50	333.43	3,298.00	50.85	-25.43	56.86	0.00	0.00	0.00
3,400.00	4.50	333.43	3,397.69	57.87	-28.93	64.70	0.00	0.00	0.00
3,500.00	4.50	333.43	3,497.38	64.88	-32.44	72.53	0.00	0.00	0.00
3,600.00	4.50	333.43	3,597.08	71.89	-35.94	80.37	0.00	0.00	0.00
3,700.00	4.50	333.43	3,696.77	78.90	-39.45	88.21	0.00	0.00	0.00
3,800.00	4.50	333.43	3,796.46	85.91	-42.96	96.05	0.00	0.00	0.00
3,900.00	4.50	333.43	3,896.15	92.92	-46.46	103.89	0.00	0.00	0.00
4,000.00	4.50	333.43	3,995.85	99.93	-49.97	111.73	0.00	0.00	0.00
4,100.00	4.50	333.43	4,095.54	106.94	-53.47	119.57	0.00	0.00	0.00
4,200.00	4.50	333.43	4,195.23	113.95	-56.98	127.41	0.00	0.00	0.00
4,300.00	4.50	333.43	4,294.92	120.97	-60.48	135.24	0.00	0.00	0.00
4,400.00	4.50	333.43	4,394.61	127.98	-63.99	143.08	0.00	0.00	0.00
4,500.00	4.50	333.43	4,494.31	134.99	-67.49	150.92	0.00	0.00	0.00
4,600.00	4.50	333.43	4,594.00	142.00	-71.00	150.92		0.00	0.00
4,700.00		333.43	4,693.69	142.00	-71.00 -74.51	166.60	0.00	0.00	0.00
	4.50						0.00		
4,800.00	4.50	333.43	4,793.38	156.02	-78.01	174.44	0.00	0.00	0.00
4,900.00	4.50	333.43	4,893.08	163.03	-81.52	182.28	0.00	0.00	0.00
5,000.00	4.50	333.43	4,992.77	170.04	-85.02	190.12	0.00	0.00	0.00

EDM 5000.1 Single User Db Database: ARMSTRONG ENERGY Company:

Lea County, NM (NAD27) NMEZ Grid Project:

Iceman 20 State 1 Site: Well: Iceman 20 State 1

Wellbore: ОН Plan #1rev Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Iceman 20 State 1

3920.7+18 @ 3938.70usft (Planning) 3920.7+18 @ 3938.70usft (Planning)

Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,100.00 5,200.00	4.50 4.50	333.43 333.43	5,092.46 5,192.15	177.06 184.07	-88.53 -92.03	197.95 205.79	0.00 0.00	0.00 0.00	0.00 0.00
5,300.00	4.50	333.43	5,291.84	191.08	-95.54	213.63	0.00	0.00	0.00
5,400.00	4.50	333.43	5,391.54	198.09	-99.04	221.47	0.00	0.00	0.00
5,500.00	4.50	333.43	5,491.23	205.10	-102.55	229.31	0.00	0.00	0.00
5,600.00 5,700.00	4.50 4.50	333.43 333.43	5,590.92 5,690.61	212.11 219.12	-106.06 -109.56	237.15 244.99	0.00 0.00	0.00 0.00	0.00 0.00
5,800.00	4.50	333.43	5,790.31	226.13	-113.07	252.83	0.00	0.00	0.00
5,900.00	4.50	333.43	5,890.00	233.15	-116.57	260.67	0.00	0.00	0.00
6,000.00	4.50	333.43	5,989.69	240.16	-120.08	268.50	0.00	0.00	0.00
6,100.00 6,200.00	4.50 4.50	333.43 333.43	6,089.38 6,189.08	247.17 254.18	-123.58 -127.09	276.34 284.18	0.00 0.00	0.00 0.00	0.00 0.00
6,300.00 6,400.41	4.50 4.50	333.43 333.43	6,288.77 6,388.87	261.19 268.23	-130.60 -134.12	292.02 299.89	0.00 0.00	0.00 0.00	0.00 0.00
6,500.00	3.50	333.43	6,488.22	274.44	-137.22	306.83	1.00	-1.00	0.00
6,600.00	2.50	333.43	6,588.08	279.12	-139.56	312.07	1.00	-1.00	0.00
6,700.00	1.50	333.43	6,688.01	282.24	-141.12	315.56	1.00	-1.00	0.00
6,800.00	0.50	333.43	6,788.00	283.80	-141.90	317.30	1.00	-1.00	0.00
6,850.00	0.00	0.00	6,838.00	284.00	-142.00	317.52	1.00	-1.00	0.00
6,900.00	0.00	0.00	6,888.00	284.00	-142.00	317.52	0.00	0.00	0.00
7,000.00 7,100.00	0.00 0.00	0.00 0.00	6,988.00 7,088.00	284.00 284.00	-142.00 -142.00	317.52 317.52	0.00 0.00	0.00 0.00	0.00 0.00
7,200.00	0.00	0.00	7,188.00	284.00	-142.00	317.52	0.00	0.00	0.00
7,300.00	0.00	0.00	7,288.00	284.00	-142.00	317.52	0.00	0.00	0.00
7,400.00	0.00	0.00	7,388.00	284.00	-142.00	317.52	0.00	0.00	0.00
7,500.00	0.00	0.00	7,488.00	284.00	-142.00	317.52	0.00	0.00	0.00
7,600.00	0.00	0.00	7,588.00	284.00	-142.00	317.52	0.00	0.00	0.00
7,700.00	0.00	0.00	7,688.00	284.00	-142.00	317.52	0.00	0.00	0.00
7,800.00	0.00	0.00	7,788.00	284.00	-142.00	317.52	0.00	0.00	0.00
7,900.00	0.00 0.00	0.00 0.00	7,888.00 7,988.00	284.00	-142.00 -142.00	317.52 317.52	0.00 0.00	0.00 0.00	0.00
8,000.00 8,100.00	0.00	0.00	8,088.00	284.00 284.00	-142.00	317.52	0.00	0.00	0.00 0.00
8,200.00	0.00	0.00	8,188.00	284.00	-142.00	317.52	0.00	0.00	0.00
8,300.00	0.00	0.00	8,288.00	284.00	-142.00	317.52	0.00	0.00	0.00
8,400.00	0.00	0.00	8,388.00	284.00	-142.00	317.52	0.00	0.00	0.00
8,500.00	0.00	0.00	8,488.00	284.00	-142.00	317.52	0.00	0.00	0.00
8,600.00	0.00	0.00	8,588.00	284.00	-142.00	317.52	0.00	0.00	0.00
8,700.00	0.00 0.00	0.00 0.00	8,688.00 8,788.00	284.00 284.00	-142.00 142.00	317.52 317.52	0.00 0.00	0.00 0.00	0.00 0.00
8,800.00 8,900.00	0.00	0.00	8,788.00	284.00	-142.00 -142.00	317.52	0.00	0.00	0.00
9,000.00	0.00	0.00	8,988.00	284.00	-142.00	317.52	0.00	0.00	0.00
9,100.00	0.00	0.00	9,088.00	284.00	-142.00	317.52	0.00	0.00	0.00
9,200.00	0.00	0.00	9,188.00	284.00	-142.00	317.52	0.00	0.00	0.00
9,300.00	0.00	0.00	9,288.00	284.00	-142.00	317.52	0.00	0.00	0.00
9,400.00	0.00	0.00	9,388.00	284.00	-142.00	317.52	0.00	0.00	0.00
9,500.00 9,600.00	0.00 0.00	0.00 0.00	9,488.00 9,588.00	284.00 284.00	-142.00 -142.00	317.52 317.52	0.00 0.00	0.00 0.00	0.00 0.00
9,700.00	0.00	0.00	9,688.00	284.00	-142.00	317.52	0.00	0.00	0.00
9,800.00	0.00	0.00	9,788.00	284.00	-142.00	317.52	0.00	0.00	0.00
9,900.00	0.00	0.00	9,888.00	284.00	-142.00	317.52	0.00	0.00	0.00
10,000.00	0.00	0.00	9,988.00	284.00	-142.00	317.52	0.00	0.00	0.00
10,100.00	0.00	0.00	10,088.00	284.00	-142.00	317.52	0.00	0.00	0.00
10,200.00	0.00	0.00	10,188.00	284.00	-142.00	317.52	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db Company: ARMSTRONG ENERGY

Project: Lea County, NM (NAD27) NMEZ Grid

Plan #1rev

Site: Iceman 20 State 1
Well: Iceman 20 State 1
Wellbore: OH

Design:

Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Iceman 20 State 1

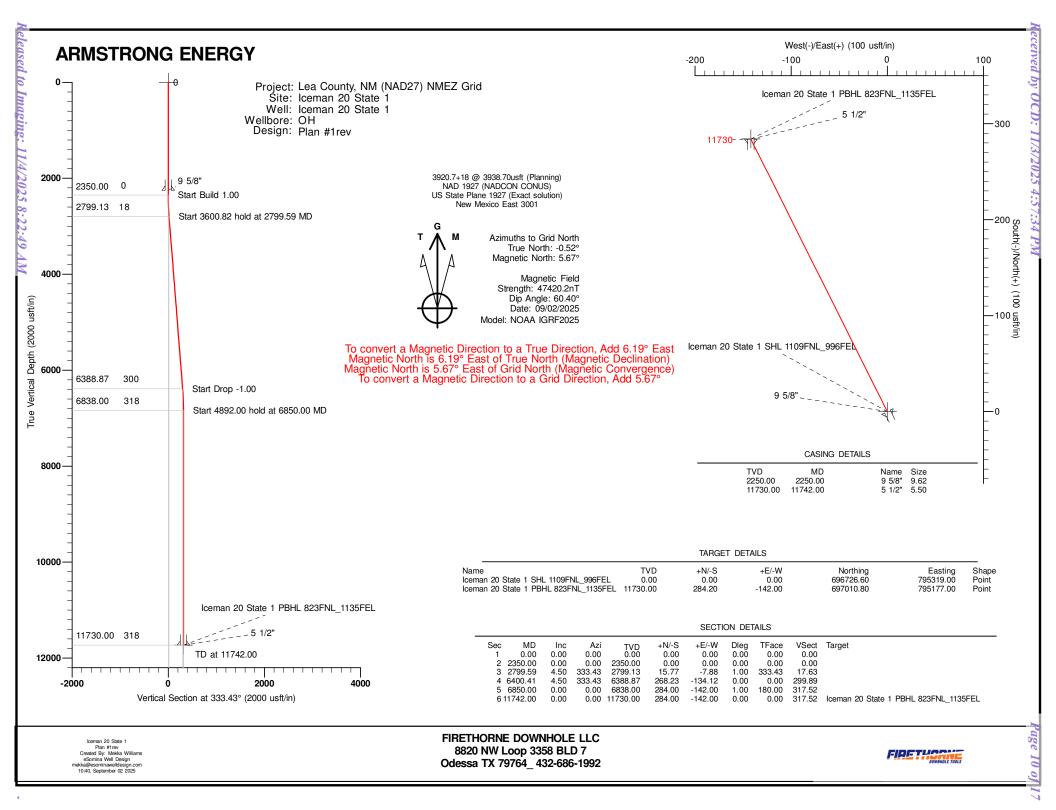
3920.7+18 @ 3938.70usft (Planning) 3920.7+18 @ 3938.70usft (Planning)

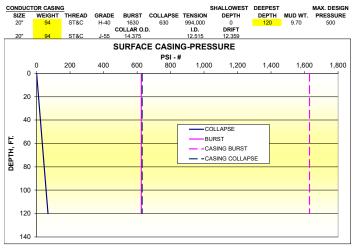
Minimum Curvature

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,300.00	0.00	0.00	10,288.00	284.00	-142.00	317.52	0.00	0.00	0.00
10,400.00	0.00	0.00	10,388.00	284.00	-142.00	317.52	0.00	0.00	0.00
10,500.00	0.00	0.00	10,488.00	284.00	-142.00	317.52	0.00	0.00	0.00
10,600.00	0.00	0.00	10,588.00	284.00	-142.00	317.52	0.00	0.00	0.00
10,700.00	0.00	0.00	10,688.00	284.00	-142.00	317.52	0.00	0.00	0.00
10,800.00	0.00	0.00	10,788.00	284.00	-142.00	317.52	0.00	0.00	0.00
10,900.00	0.00	0.00	10,888.00	284.00	-142.00	317.52	0.00	0.00	0.00
11,000.00	0.00	0.00	10,988.00	284.00	-142.00	317.52	0.00	0.00	0.00
11,100.00	0.00	0.00	11,088.00	284.00	-142.00	317.52	0.00	0.00	0.00
11,200.00	0.00	0.00	11,188.00	284.00	-142.00	317.52	0.00	0.00	0.00
11,300.00	0.00	0.00	11,288.00	284.00	-142.00	317.52	0.00	0.00	0.00
11,400.00	0.00	0.00	11,388.00	284.00	-142.00	317.52	0.00	0.00	0.00
11,500.00	0.00	0.00	11,488.00	284.00	-142.00	317.52	0.00	0.00	0.00
11,600.00	0.00	0.00	11,588.00	284.00	-142.00	317.52	0.00	0.00	0.00
11,700.00	0.00	0.00	11,688.00	284.00	-142.00	317.52	0.00	0.00	0.00
11,742.00	0.00	0.00	11,730.00	284.00	-142.00	317.52	0.00	0.00	0.00
5 1/2"									

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
Iceman 20 State 1 SHL plan hits target cente - Point	0.00 er	0.00	0.00	0.00	0.00	696,726.60	795,319.00	32.9116750	-103.3710509
Iceman 20 State 1 PBHL - plan misses target c - Point	0.00 enter by 0.20		11,730.00 2.00usft MD	284.20 (11730.00 TV	-142.00 D, 284.00 N, -	697,010.80 142.00 E)	795,177.00	32.9124596	-103.3715051

Casing Poir	nts					
	Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
	2,250.00 11,742.00	2,250.00 11,730.00		9.62 5.50	12.25 6.00	

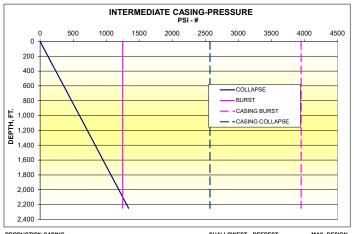




BURST	COLLAPSE	APSE TENSION DESIGN CASING PROPERTIES										
S.F.	S.F.	S.F.	BURST			BURST						
								994,000				
1.25	1.125	1.8	625	68	0	1630	630	994,000				
SURFACE CASING-TENSION PSI -# 0 200.000 400.000 600.000 800.000 1.000.000 1.200.000												
	200,000	400,000	) 6	600,000	800,000	1,00	0,000 1	,200,000				
							<u> </u>					
							i					
							i					
			_									
				- CASING TEI	NSION							
	1.25 1.25	1.25 1.125	1.25 1.125 1.8 1.25 1.125 1.8 SURF	1.25 1.125 1.8 625 1.25 1.125 1.8 625 SURFACE C.	1.25 1.125 1.8 625 0 1.25 1.125 1.8 625 68  SURFACE CASING-TEN: PSI -# 200,000 400,000 600,000	1.25 1.125 1.8 625 0 20.304 1.25 1.125 1.8 625 68 0 SURFACE CASING-TENSION PSI - # 200,000 400,000 600,000 800,000	1.25	1.25 1.125 1.8 625 0 20,304 1630 630 1.25 1.125 1.8 625 68 0 1630 630  SURFACE CASING-TENSION PSI #  200,000 400,000 600,000 800,000 1,000,000 1				

SURFACE	CASING						SHALLOWEST	DEEPEST		MAX. DESIGN
SIZE	WEIGHT	THREAD	GRADE	BURST	COLLAPSE	TENSION	DEPTH	DEPTH	MUD WT.	PRESSURE
9 5/8"	40	LT&C	J-55	3950	2570	916,000	0	500	10.20	1000
9 5/8"	40	LT&C	J-55	3950	2570	916,000	500	1500	10.20	1000
9 5/8"	40	LT&C	J-55	3950	2570	916,000	1500	2250	10.20	1000
				COLLAR O.D	).	I.D.	DRIFT			
9 5/8"	40	LT&C	J-55	10.625		8.835	8.679			

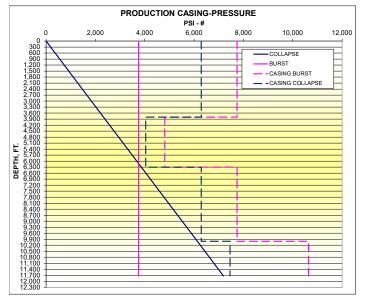
0	ESIGN	BURST	COLLAPSE	TENSION		DESIGN		CAS	SING PROPER	TIES
	DEPTH	S.F.	S.F.	S.F.	BURST	COLLAPSE	TENSION	BURST	COLLAPSE	TENSION
Г	0	1.25	1.125	1.80	1250	0	162,000	3,950	2,570	916,000
	500	1.25	1.125	1.80	1250	298	126,000	3,950	2,570	916,000
Г	500	1.25	1.125	1.80	1250	298	126,000	3,950	2,570	916,000
	1,500	1.25	1.125	1.80	1250	893	54,000	3,950	2,570	916,000
Г	1,500	1.25	1.125	1.80	1250	893	54,000	3,950	2,570	916,000
L	2,250	1.25	1.125	1.80	1250	1340	0	3,950	2,570	916,000

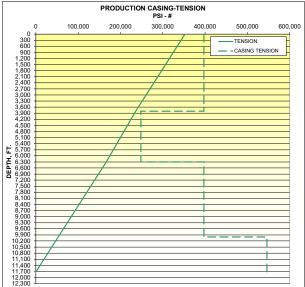


	INTERMEDIATE CASING-TENSION PSI - #										
0	0 100,000 200,000 300,000 400,000 500,000 600,000 700,000 800,000 900,000	1,000,000									
200											
400											
600											
800											
£ <sup>1,000</sup>											
H,200	!										
1,600											
2,000	— TENSION — - CASING TENSION										
2,200	1										
2,400											

PRODUCT	TON CASIN	G					SHALLOWEST	DEEPEST		MAX. DESIGN
SIZE	WEIGHT	THREAD	GRADE	BURST	COLLAPSE	TENSION	DEPTH	DEPTH	MUD WT.	PRESSURE
5 1/2"	17	LT&C	L80	7740	6290	397,000	0	3800	10.50	3000
5 1/2"	15.5	LT&C	J-55	4810	4040	248,000	3800	6300	10.50	3000
5 1/2"	17	LT&C	L80	7740	6290	397,000	6300	10000	10.50	3000
5 1/2"	17	LT&C	P-110	10640	7460	546,000	10000	11730	10.50	3000
			С	OLLAR O.	D.	I.D.	DRIFT			
5 1/2"	17	LT&C	HCL-80	6.05		4.892	4.767			
5 1/2"	20	LT&C	HCP-110	6.05		4.778	4.653			

DESIGN	BURST	COLLAPSE	TENSION	DESIGN			CASING PROPERTIES		
DEPTH	S.F.	S.F.	S.F.	BURST	COLLAPSE	TENSION	BURST	COLLAPSE	TENSION
0	1.25	1.125	1.80	3,750	0	352,188	7,740	6,290	397,000
3,800	1.25	1.125	1.80	3,750	2,330	235,908	7,740	6,290	397,000
3,800	1.25	1.125	1.80	3,750	2,330	235,908	4,810	4,040	248,000
6,300	1.25	1.125	1.80	3,750	3,862	166,158	4,810	4,040	248,000
6,300	1.25	1.125	1.80	3,750	3,862	166,158	7,740	6,290	397,000
10,000	1.25	1.125	1.80	3,750	6,131	52,938	7,740	6,290	397,000
10,000	1.25	1.125	1.80	3,750	6,131	52,938	10,640	7,460	546,000
11,730	1.25	1.125	1.80	3,750	7,191	0	10,640	7,460	546,000







#### **NATURAL GAS MANAGEMENT PLAN ATTACHMENTS:**

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

Armstrong Energy Corporation will utilize a separator of sufficient size to allow adequate retention time of the production stream for separation of gas and fluids based on the lowest possible operating pressure determined by the gas sales line pressure downstream of the vessel. The separator size determination will be made either by typical engineering calculations or operational experience. By operating the separator at the lowest operable pressure AEC will ensure maximum capture of produced gas for sales into the pipeline. Should the line pressure downstream of the separator be too high to ensure good separation, AEC has the ability to utilize low suction pressure compressors to aid in separation and gas capture where applicable.

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.

## 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: _Armstrong Energy Corporation				Date	Date: _08_/_26_/_2025			
☐ Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C □ 19.15.27.9.D	(6)(b) NMAC □	Other.			
:								
				wells proposed to	be dri	lled or proposed to		
API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D			
30-025-XXXX	UL A Sec 20 T16S R36E	1109' FNL 996' FEL	100	50	0			
IV. Central Delivery Point Name:Targa Monument/Eunice [See 19.15.27.9(D)(1) NMA  V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled proposed to be recompleted from a single well pad or connected to a central delivery point.  Well Name API Spud Date TD Reached Completion Initial Flow First Production Date Date Date Date								
30-025-XXXX	11/1/25 est.	11/15/25 est.	11/25/25 est.	12/1/25	est.	12/5/25 est.		
Iceman 20 State #1 30-025-XXXX 11/1/25 est. 11/15/25 est. 11/25/25 est. 12/1/25 est. 12/5/25 est. 12/5/25 est.  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.								
	Amendment  in the following infingle well pad  API  30-025-XXXX  In the provide the steed from a single and the st	Amendment due to   19.15.27.  End following information for each ringle well pad or connected to a complete descriptices:   API ULSTR  30-025-XXXX ULA Sec 20 T16S R36F  Dint Name: Targa Monume  API Spud Date  30-025-XXXX 11/1/25 est.  API Spud Date  30-025-XXXX 11/1/25 est.	Amendment due to □ 19.15.27.9.D(6)(a) NMA	Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D  control of the following information for each new or recompleted well or set of ingle well pad or connected to a central delivery point.  API ULSTR Footages Anticipated Oil BBL/D  30-025-XXXX ULA Sec 20 T16S R36E 1109° FNL 996° FEL 100  Doint Name: Targa Monument/Eunice  100	Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □    Second or connected to a central delivery point.    API	Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.    Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.   Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.   Complete description of the actions Operator will take to comply with the following information of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of Operator's best management practices to the following description of the description of Operator's best management practices to the following description of the description of Operator's		

# 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 $\square$	will □ will not hav	e capacity to gather	100% of the anticipated	d natural gas
production volume from the well	prior to the date of first p	oroduction.			

XIII. Line Pressure. Operator $\square$ does $\square$ does not anticipate that its existing well(s) connected to the same segment, or portion	on, of 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 .	· •	1 .	1	•	1 .	sed line pressure

XIV. Confidentiality: $\square$ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information pro	ovided 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 inf	ormation
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) power generation for grid; (b) 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: Kyle Alpers
Printed Name: Kyle Alpers
Title: Senior Vice President
E-mail Address: kalpers@aecnm.com
Date: 08/26/25
Phone: 575-625-2222
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval: