

**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**

Form C-101  
August 1, 2011

Permit 352674

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

1. Operator Name and Address AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746		2. OGRID Number 372224
		3. API Number 30-025-52127
4. Property Code 320055	5. Property Name AMEN CORNER 26 36 27 STATE COM	6. Well No. 125H

**7. Surface Location**

UL - Lot B	Section 27	Township 26S	Range 36E	Lot Idn B	Feet From 200	N/S Line N	Feet From 2350	E/W Line E	County Lea
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**8. Proposed Bottom Hole Location**

UL - Lot G	Section 34	Township 26S	Range 36E	Lot Idn G	Feet From 50	N/S Line S	Feet From 2310	E/W Line E	County Lea
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**9. Pool Information**

WC-025 G-09 S263619C;WOLFCAMP	98234
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**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 2907
16. Multiple N	17. Proposed Depth 19967	18. Formation Wolfcamp	19. Contractor	20. Spud Date 1/15/2024
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**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	68	2095	1700	0
Int1	9.875	7.625	29.7	10707	3194	0
Prod	6.75	5.5	23	19967	1554	0

**Casing/Cement Program: Additional Comments**

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**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	TBD

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:

Printed Name: Electronically filed by Christie Hanna

Title: Regulatory

Email Address: channa@ameredev.com

Date: 10/18/2023

Phone: 737-300-4723

**OIL CONSERVATION DIVISION**

Approved By: Paul F Kautz

Title: Geologist

Approved Date: 10/19/2023

Expiration Date: 10/19/2025

Conditions of Approval Attached

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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

☐ **AMENDED REPORT**

# WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-	<sup>2</sup> Pool Code 98234	<sup>3</sup> Pool Name WC-025 G-09 S263619C; WOLFCAMP
<sup>4</sup> Property Code 320055	<sup>5</sup> Property Name AMEN CORNER 26 36 27 STATE COM	
<sup>7</sup> OGRID No. 372224	<sup>8</sup> Operator Name AMEREDEV OPERATING, LLC.	<sup>6</sup> Well Number 125H  <sup>9</sup> Elevation 2907'

## <sup>10</sup>Surface Location

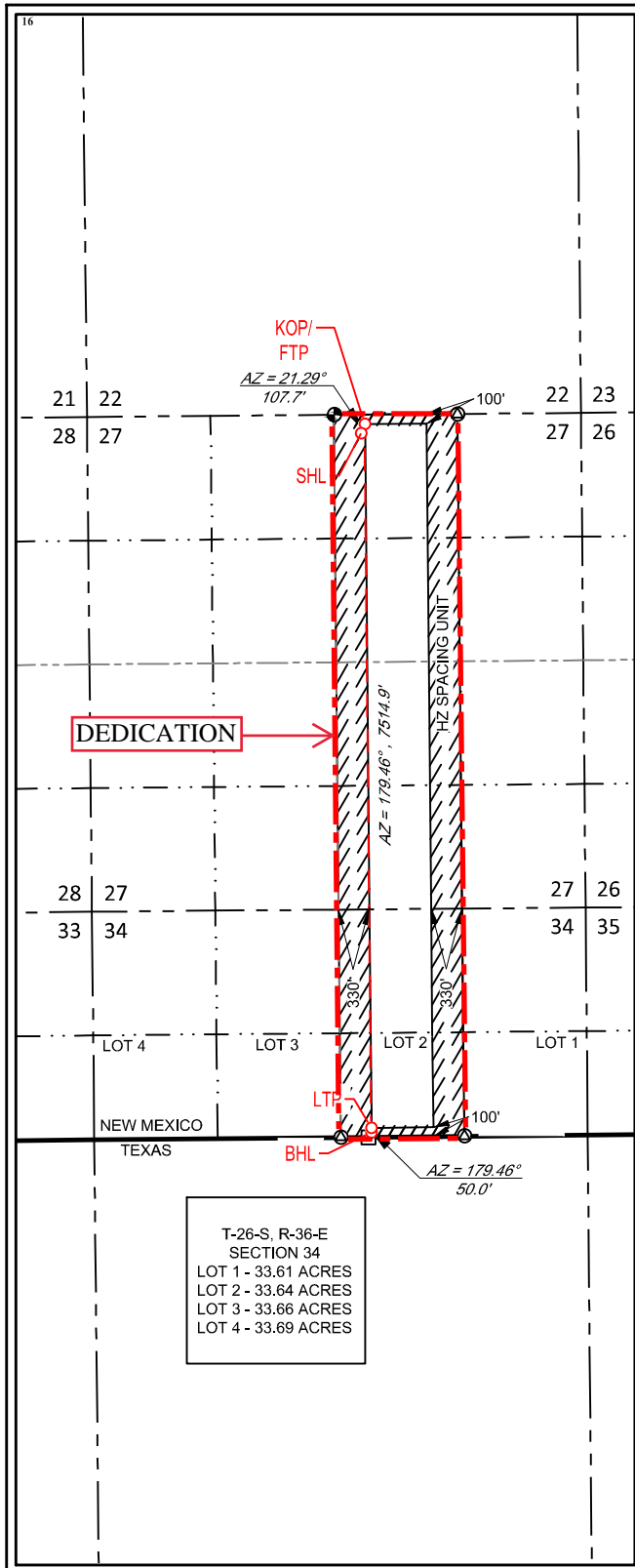
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	27	26-S	36-E	—	200'	NORTH	2350'	EAST	LEA

<sup>11</sup>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
2	34	26-S	36-E	—	50'	SOUTH	2310'	EAST	LEA

<sup>12</sup> Dedicated Acres <b>233.64</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code <b>C</b>	<sup>15</sup> Order No.
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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.

NEW MEXICO EAST  
NAD 1983

## SURFACE LOCATION (SHL)

200' FNL - SEC. 27  
2350' FEL - SEC. 27  
X=876433 Y=373046  
LAT.: N 32.0209742  
LONG.: W 103.2521192

KICK OFF POINT (KOP)  
FIRST TAKE POINT (FTP)

100' FNL - SEC. 27  
2310' FEL - SEC. 27  
X=876473 Y=373146  
LAT.: N 32.0212488  
LONG.: W 103.2519898

LAST TAKE POINT (LTP)

100' FSL - SEC. 34  
2310' FEL - SEC. 34  
X=876543 Y=365632  
LAT.: N 32.0005930  
LONG.: W 103.2520041

BOTTOM HOLE LOCATION (BHL)

50' FSL - SEC. 34  
2310' FEL - SEC. 34  
X=876544 Y=365582  
LAT.: N 32.0004556  
LONG.: W 103.2520042

## 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 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.

De Hammorsch 10/17/2023  
Signature Date

**Floyd Hammond**  
Printed Name

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**fhammond@ameredev.com**  
E-mail Address

# <sup>18</sup>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 to the best of my belief.

07/27/2018

Date of Survey  
Signature and Seal of Professional Surveyor



**Certificate Number**

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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 352674

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: AMEREDEV OPERATING, LLC [372224] 2901 Via Fortuna Austin, TX 78746	API Number: 30-025-52127
	Well: AMEN CORNER 26 36 27 STATE COM #125H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
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	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	If cement does not circulate on any string , a CBL is required for that string of casing.
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud



Ameredev II, LLC

## Wellbore Schematic

**Well:** Amen Corner 26 36 27 State Com 125H  
**SHL:** Sec. 22 26S-36E 200' FNL & 2350' FEL  
**BHL:** Sec. 34 26S-36E 50' FSL & 2310' FEL  
 Lea, NM  
**Wellhead:** A - 13-5/8" 10M x 13-5/8" SOW  
 B - 13-5/8" 10M x 13-5/8" 10M  
 C - 13-5/8" 10M x 13-5/8" 10M  
 Tubing Spool - 7-1/16" 15M x 13-3/8" 10M  
**Xmas Tree:** 2-9/16" 10M  
**Tubing:** 2-7/8" L-80 6.5# 8rd EUE

**Co. Well ID:** xxxxxx  
**AFE No.:** xxxx-xxx  
**API No.:** xxxxxxxxxxxx  
**GL:** 2,907'  
**Field:** Delaware  
**Objective:** Wolfcamp B  
**TVD:** 12,091'  
**MD:** 19,967'  
**Rig:** TBD **KB 27'**  
**E-Mail:** [Wellsite2@ameredev.com](mailto:Wellsite2@ameredev.com)

Hole Size	Formation Tops	Logs	Cement	Mud Weight
17.5"	Rustler 1,970'	1,700 Sacks	TOC 0'	8.4-8.6 ppg WBM
	<b>13.375" 68# J-55 BTC 2,095'</b>			
12.25"	Salado 2,348'	810 Sacks	TOC 0'	7.5-9.4 Diesel Brine Emulsion
	DV Tool with ACP 3,196'		50% Excess	
	Tansill 3,196'			
	Capitan Reef 3,809'			
	Lamar 5,020'			
	<b>No Casing 5,145'</b>			
9.875"	Bell Canyon 5,269'			
	Brushy Canyon 6,690'			
	Bone Spring Lime 7,511'			
	First Bone Spring 9,320'			
	Second Bone Spring 9,798'			
	Third Bone Spring Upper 10,582'			
	<b>7.625" 29.7# L-80HC BTC 10,707'</b>	2,384 Sacks	TOC 0'	50% Excess
6.75"	Third Bone Spring 11,221'			10.5-12.5 ppg OBM
12° Build @	Wolfcamp A 11,378'			
11,653' MD thru	Wolfcamp B 11,750'			
12,403' MD	<b>5.5" 23# P-110 USS-Eagle SFH 19,967'</b>	1,554 Sacks	TOC 0'	
	<b>Target Wolfcamp B 12091 TVD // 19967 MD</b>		25% Excess	

## Casing Design and Safety Factor Check

<b>Casing Specifications</b>						
Segment	Hole ID	Depth	OD	Weight	Grade	Coupling
Surface	17.5	2,095'	13.375	68	J-55	BTC
Intermediate	9.875	10,707'	7.625	29.7	HCL-80	BTC
Production	6.75	11,653'	5.5	23	P-110	SFH

<b>Check Surface Casing</b>				
OD Cplg	Body	Joint	Collapse	Burst
<i>inches</i>	<i>1000 lbs</i>	<i>1000 lbs</i>	<i>psi</i>	<i>psi</i>
14.375	1,069	915	4,100	3,450
<b>Safety Factors</b>				
1.56	7.51	6.42	4.38	0.66
<b>Check Intermediate Casing</b>				
OD Cplg	Body	Joint	Collapse	Burst
<i>inches</i>	<i>1000 lbs</i>	<i>1000 lbs</i>	<i>psi</i>	<i>psi</i>
7.625	940	558	6700	9460
<b>Safety Factors</b>				
1.13	2.96	2.00	1.28	1.20
<b>Check Prod Casing, Segment A</b>				
OD Cplg	Body	Joint	Collapse	Burst
<i>inches</i>	<i>1000 lbs</i>	<i>1000 lbs</i>	<i>psi</i>	<i>psi</i>
5.777	728	655	12780	14360
<b>Safety Factors</b>				
0.49	2.62	2.36	1.69	1.83



## **Ameredev Operating**

**Lea County, NM (N83-NME)**

**AMEN CORNER ST COM PROJECT**

**AMEN CORNER 26 36 27 ST COM 125H**

**PWP**

**Plan: PWP**

## **Standard Planning Report - Geographic**

**24 August, 2023**



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well AMEN CORNER ST COM 26 36 27 #125H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=25' @ 2932.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=25' @ 2932.0usft
<b>Site:</b>	AMEN CORNER ST COM PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	AMEN CORNER ST COM 26 36 27 #125H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	PWP		
<b>Design:</b>	PWP		

<b>Project</b>	Lea County, NM (N83-NME)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

Site		AMEN CORNER ST COM PROJECT			
Site Position:		Northing:	373,452.33 usft	Latitude:	32.0221652
From:	Lat/Long	Easting:	873,738.68 usft	Longitude:	-103.2607997
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well		AMEN CORNER ST COM 26 36 27 #125H				
Well Position	+N/-S	0.0 usft	Northing:	373,045.87 usft	Latitude:	32.0209742
	+E/-W	0.0 usft	Easting:	876,433.43 usft	Longitude:	-103.2521192
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	2,907.0 usft
Grid Convergence:		0.57 °				

<b>Wellbore</b>	PWP				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2020	6/29/2023	6.14	59.69	47,196.34893868

<b>Design</b>	PWP			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	179.46

<b>Plan Survey Tool Program</b>	<b>Date</b>	8/24/2023		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.0	19,966.8 PWP (PWP)	MWD	
			OWSG MWD - Standard	



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well AMEN CORNER ST COM 26 36 27 #125H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=25' @ 2932.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=25' @ 2932.0usft
<b>Site:</b>	AMEN CORNER ST COM PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	AMEN CORNER ST COM 26 36 27 #125H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	PWP		
<b>Design:</b>	PWP		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,900.0	8.00	3.37	1,898.7	27.8	1.6	2.00	2.00	0.00	3.37	
5,649.6	8.00	3.37	5,611.8	548.8	32.4	0.00	0.00	0.00	0.00	
6,049.6	0.00	0.00	6,010.5	576.6	34.0	2.00	-2.00	0.00	180.00	
11,653.1	0.00	0.00	11,614.0	576.6	34.0	0.00	0.00	0.00	0.00	
12,403.1	90.00	179.46	12,091.5	99.1	38.5	12.00	12.00	23.93	179.46	
19,966.8	90.00	179.46	12,091.0	-7,464.3	110.3	0.00	0.00	0.00	0.00	BHL (ACSC #125H)





## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well AMEN CORNER ST COM 26 36 27 #125H
<b>Company:</b>	Ameredeve Operating	<b>TVD Reference:</b>	KB=25' @ 2932.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=25' @ 2932.0usft
<b>Site:</b>	AMEN CORNER ST COM PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	AMEN CORNER ST COM 26 36 27 #125H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	PWP		
<b>Design:</b>	PWP		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	373,045.87	876,433.43	32.0209742	-103.2521192
100.0	0.00	0.00	100.0	0.0	0.0	373,045.87	876,433.43	32.0209742	-103.2521192
200.0	0.00	0.00	200.0	0.0	0.0	373,045.87	876,433.43	32.0209742	-103.2521192
300.0	0.00	0.00	300.0	0.0	0.0	373,045.87	876,433.43	32.0209742	-103.2521192
400.0	0.00	0.00	400.0	0.0	0.0	373,045.87	876,433.43	32.0209742	-103.2521192
500.0	0.00	0.00	500.0	0.0	0.0	373,045.87	876,433.43	32.0209742	-103.2521192
600.0	0.00	0.00	600.0	0.0	0.0	373,045.87	876,433.43	32.0209742	-103.2521192
700.0	0.00	0.00	700.0	0.0	0.0	373,045.87	876,433.43	32.0209742	-103.2521192
800.0	0.00	0.00	800.0	0.0	0.0	373,045.87	876,433.43	32.0209742	-103.2521192
900.0	0.00	0.00	900.0	0.0	0.0	373,045.87	876,433.43	32.0209742	-103.2521192
1,000.0	0.00	0.00	1,000.0	0.0	0.0	373,045.87	876,433.43	32.0209742	-103.2521192
1,100.0	0.00	0.00	1,100.0	0.0	0.0	373,045.87	876,433.43	32.0209742	-103.2521192
1,200.0	0.00	0.00	1,200.0	0.0	0.0	373,045.87	876,433.43	32.0209742	-103.2521192
1,300.0	0.00	0.00	1,300.0	0.0	0.0	373,045.87	876,433.43	32.0209742	-103.2521192
1,400.0	0.00	0.00	1,400.0	0.0	0.0	373,045.87	876,433.43	32.0209742	-103.2521192
1,500.0	0.00	0.00	1,500.0	0.0	0.0	373,045.87	876,433.43	32.0209742	-103.2521192
1,600.0	2.00	3.37	1,600.0	1.7	0.1	373,047.61	876,433.53	32.0209790	-103.2521188
1,700.0	4.00	3.37	1,699.8	7.0	0.4	373,052.83	876,433.84	32.0209934	-103.2521176
1,800.0	6.00	3.37	1,799.5	15.7	0.9	373,061.53	876,434.36	32.0210173	-103.2521157
1,900.0	8.00	3.37	1,898.7	27.8	1.6	373,073.70	876,435.07	32.0210507	-103.2521130
2,000.0	8.00	3.37	1,997.7	41.7	2.5	373,087.59	876,435.89	32.0210888	-103.2521099
2,100.0	8.00	3.37	2,096.8	55.6	3.3	373,101.48	876,436.71	32.0211270	-103.2521068
2,161.8	8.00	3.37	2,158.0	64.2	3.8	373,110.08	876,437.22	32.0211506	-103.2521049
Rustler									
2,200.0	8.00	3.37	2,195.8	69.5	4.1	373,115.38	876,437.53	32.0211652	-103.2521037
2,300.0	8.00	3.37	2,294.8	83.4	4.9	373,129.27	876,438.35	32.0212033	-103.2521006
2,400.0	8.00	3.37	2,393.8	97.3	5.7	373,143.16	876,439.17	32.0212415	-103.2520975
2,402.2	8.00	3.37	2,396.0	97.6	5.8	373,143.47	876,439.19	32.0212423	-103.2520975
Salado									
2,500.0	8.00	3.37	2,492.9	111.2	6.6	373,157.06	876,439.99	32.0212797	-103.2520945
2,600.0	8.00	3.37	2,591.9	125.1	7.4	373,170.95	876,440.81	32.0213178	-103.2520914
2,700.0	8.00	3.37	2,690.9	139.0	8.2	373,184.84	876,441.63	32.0213560	-103.2520883
2,800.0	8.00	3.37	2,789.9	152.9	9.0	373,198.74	876,442.45	32.0213941	-103.2520852
2,900.0	8.00	3.37	2,889.0	166.8	9.8	373,212.63	876,443.27	32.0214323	-103.2520821
3,000.0	8.00	3.37	2,988.0	180.7	10.7	373,226.52	876,444.08	32.0214705	-103.2520790
3,100.0	8.00	3.37	3,087.0	194.5	11.5	373,240.42	876,444.90	32.0215086	-103.2520759
3,200.0	8.00	3.37	3,186.1	208.4	12.3	373,254.31	876,445.72	32.0215468	-103.2520728
3,220.1	8.00	3.37	3,206.0	211.2	12.5	373,257.11	876,445.89	32.0215545	-103.2520722
Tansill									
3,300.0	8.00	3.37	3,285.1	222.3	13.1	373,268.20	876,446.54	32.0215850	-103.2520697
3,400.0	8.00	3.37	3,384.1	236.2	13.9	373,282.09	876,447.36	32.0216231	-103.2520666
3,500.0	8.00	3.37	3,483.1	250.1	14.7	373,295.99	876,448.18	32.0216613	-103.2520635
3,600.0	8.00	3.37	3,582.2	264.0	15.6	373,309.88	876,449.00	32.0216994	-103.2520604
3,700.0	8.00	3.37	3,681.2	277.9	16.4	373,323.77	876,449.82	32.0217376	-103.2520574
3,800.0	8.00	3.37	3,780.2	291.8	17.2	373,337.67	876,450.64	32.0217758	-103.2520543
3,900.0	8.00	3.37	3,879.2	305.7	18.0	373,351.56	876,451.46	32.0218139	-103.2520512
4,000.0	8.00	3.37	3,978.3	319.6	18.8	373,365.45	876,452.28	32.0218521	-103.2520481
4,100.0	8.00	3.37	4,077.3	333.5	19.7	373,379.35	876,453.10	32.0218903	-103.2520450
4,200.0	8.00	3.37	4,176.3	347.4	20.5	373,393.24	876,453.92	32.0219284	-103.2520419
4,300.0	8.00	3.37	4,275.3	361.3	21.3	373,407.13	876,454.73	32.0219666	-103.2520388
4,400.0	8.00	3.37	4,374.4	375.2	22.1	373,421.03	876,455.55	32.0220047	-103.2520357
4,500.0	8.00	3.37	4,473.4	389.1	22.9	373,434.92	876,456.37	32.0220429	-103.2520326
4,600.0	8.00	3.37	4,572.4	402.9	23.8	373,448.81	876,457.19	32.0220811	-103.2520295



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well AMEN CORNER ST COM 26 36 27 #125H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=25' @ 2932.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=25' @ 2932.0usft
<b>Site:</b>	AMEN CORNER ST COM PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	AMEN CORNER ST COM 26 36 27 #125H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	PWP		
<b>Design:</b>	PWP		

Planned Survey										
Measured			Vertical			Map				
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
4,700.0	8.00	3.37	4,671.5	416.8	24.6	373,462.71	876,458.01	32.0221192	-103.2520264	
4,800.0	8.00	3.37	4,770.5	430.7	25.4	373,476.60	876,458.83	32.0221574	-103.2520233	
4,900.0	8.00	3.37	4,869.5	444.6	26.2	373,490.49	876,459.65	32.0221956	-103.2520203	
4,986.3	8.00	3.37	4,955.0	456.6	26.9	373,502.49	876,460.36	32.0222285	-103.2520176	
Lamar										
5,000.0	8.00	3.37	4,968.5	458.5	27.0	373,504.39	876,460.47	32.0222337	-103.2520172	
5,100.0	8.00	3.37	5,067.6	472.4	27.9	373,518.28	876,461.29	32.0222719	-103.2520141	
5,200.0	8.00	3.37	5,166.6	486.3	28.7	373,532.17	876,462.11	32.0223101	-103.2520110	
5,248.9	8.00	3.37	5,215.0	493.1	29.1	373,538.96	876,462.51	32.0223287	-103.2520095	
Bell Canyon										
5,300.0	8.00	3.37	5,265.6	500.2	29.5	373,546.07	876,462.93	32.0223482	-103.2520079	
5,400.0	8.00	3.37	5,364.6	514.1	30.3	373,559.96	876,463.75	32.0223864	-103.2520048	
5,500.0	8.00	3.37	5,463.7	528.0	31.1	373,573.85	876,464.57	32.0224245	-103.2520017	
5,600.0	8.00	3.37	5,562.7	541.9	32.0	373,587.74	876,465.38	32.0224627	-103.2519986	
5,649.6	8.00	3.37	5,611.8	548.8	32.4	373,594.63	876,465.79	32.0224816	-103.2519971	
5,700.0	6.99	3.37	5,661.8	555.3	32.7	373,601.20	876,466.18	32.0224997	-103.2519956	
5,800.0	4.99	3.37	5,761.2	565.8	33.4	373,611.62	876,466.79	32.0225283	-103.2519933	
5,900.0	2.99	3.37	5,861.0	572.7	33.8	373,618.57	876,467.20	32.0225474	-103.2519918	
6,000.0	0.99	3.37	5,960.9	576.2	34.0	373,622.04	876,467.41	32.0225569	-103.2519910	
6,049.6	0.00	0.00	6,010.5	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
6,100.0	0.00	0.00	6,060.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
6,200.0	0.00	0.00	6,160.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
6,300.0	0.00	0.00	6,260.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
6,400.0	0.00	0.00	6,360.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
6,500.0	0.00	0.00	6,460.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
6,600.0	0.00	0.00	6,560.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
6,700.0	0.00	0.00	6,660.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
6,711.1	0.00	0.00	6,672.0	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
Brushy Canyon										
6,800.0	0.00	0.00	6,760.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
6,900.0	0.00	0.00	6,860.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
7,000.0	0.00	0.00	6,960.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
7,100.0	0.00	0.00	7,060.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
7,200.0	0.00	0.00	7,160.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
7,300.0	0.00	0.00	7,260.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
7,400.0	0.00	0.00	7,360.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
7,500.0	0.00	0.00	7,460.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
7,600.0	0.00	0.00	7,560.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
7,646.1	0.00	0.00	7,607.0	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
Bone Spring Lime										
7,700.0	0.00	0.00	7,660.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
7,800.0	0.00	0.00	7,760.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
7,900.0	0.00	0.00	7,860.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
8,000.0	0.00	0.00	7,960.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
8,100.0	0.00	0.00	8,060.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
8,200.0	0.00	0.00	8,160.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
8,300.0	0.00	0.00	8,260.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
8,400.0	0.00	0.00	8,360.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
8,500.0	0.00	0.00	8,460.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
8,600.0	0.00	0.00	8,560.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
8,700.0	0.00	0.00	8,660.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
8,800.0	0.00	0.00	8,760.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
8,900.0	0.00	0.00	8,860.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well AMEN CORNER ST COM 26 36 27 #125H
<b>Company:</b>	Ameredeve Operating	<b>TVD Reference:</b>	KB=25' @ 2932.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=25' @ 2932.0usft
<b>Site:</b>	AMEN CORNER ST COM PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	AMEN CORNER ST COM 26 36 27 #125H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	PWP		
<b>Design:</b>	PWP		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
9,000.0	0.00	0.00	8,960.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
9,100.0	0.00	0.00	9,060.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
9,200.0	0.00	0.00	9,160.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
9,300.0	0.00	0.00	9,260.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
9,363.1	0.00	0.00	9,324.0	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
First Bone Spring										
9,400.0	0.00	0.00	9,360.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
9,500.0	0.00	0.00	9,460.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
9,600.0	0.00	0.00	9,560.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
9,700.0	0.00	0.00	9,660.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
9,800.0	0.00	0.00	9,760.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
9,884.1	0.00	0.00	9,845.0	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
Second Bone Spring										
9,900.0	0.00	0.00	9,860.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
10,000.0	0.00	0.00	9,960.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
10,100.0	0.00	0.00	10,060.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
10,200.0	0.00	0.00	10,160.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
10,300.0	0.00	0.00	10,260.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
10,400.0	0.00	0.00	10,360.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
10,500.0	0.00	0.00	10,460.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
10,600.0	0.00	0.00	10,560.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
10,644.1	0.00	0.00	10,605.0	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
Third Bone Spring Upper										
10,700.0	0.00	0.00	10,660.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
10,800.0	0.00	0.00	10,760.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
10,900.0	0.00	0.00	10,860.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
11,000.0	0.00	0.00	10,960.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
11,100.0	0.00	0.00	11,060.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
11,200.0	0.00	0.00	11,160.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
11,288.1	0.00	0.00	11,249.0	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
Third Bone Spring										
11,300.0	0.00	0.00	11,260.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
11,400.0	0.00	0.00	11,360.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
11,456.1	0.00	0.00	11,417.0	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
Wolfcamp										
11,500.0	0.00	0.00	11,460.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
11,600.0	0.00	0.00	11,560.9	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
11,653.1	0.00	0.00	11,614.0	576.6	34.0	373,622.47	876,467.43	32.0225581	-103.2519909	
11,700.0	5.63	179.46	11,660.8	574.3	34.0	373,620.16	876,467.45	32.0225517	-103.2519909	
11,800.0	17.63	179.46	11,758.6	554.2	34.2	373,600.04	876,467.65	32.0224964	-103.2519909	
11,889.6	28.39	179.46	11,841.0	519.2	34.5	373,565.06	876,467.98	32.0224003	-103.2519910	
Wolfcamp B										
11,900.0	29.63	179.46	11,850.1	514.2	34.6	373,560.04	876,468.02	32.0223865	-103.2519910	
12,000.0	41.63	179.46	11,931.2	456.0	35.1	373,501.89	876,468.58	32.0222266	-103.2519911	
12,100.0	53.63	179.46	11,998.5	382.3	35.8	373,428.15	876,469.28	32.0220239	-103.2519912	
12,200.0	65.63	179.46	12,048.9	296.2	36.7	373,342.03	876,470.09	32.0217872	-103.2519914	
12,300.0	77.63	179.46	12,080.4	201.4	37.6	373,247.31	876,470.99	32.0215269	-103.2519915	
12,400.0	89.63	179.46	12,091.5	102.2	38.5	373,148.11	876,471.94	32.0212542	-103.2519917	
12,401.9	89.86	179.46	12,091.5	100.3	38.5	373,146.16	876,471.95	32.0212488	-103.2519917	
FTP (ACSC #125H)										
12,403.1	90.00	179.46	12,091.5	99.1	38.5	373,144.99	876,471.96	32.0212456	-103.2519917	
12,500.0	90.00	179.46	12,091.5	2.2	39.5	373,048.11	876,472.88	32.0209793	-103.2519918	
12,600.0	90.00	179.46	12,091.5	-97.7	40.4	372,948.12	876,473.83	32.0207045	-103.2519920	



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well AMEN CORNER ST COM 26 36 27 #125H
<b>Company:</b>	Ameredeve Operating	<b>TVD Reference:</b>	KB=25' @ 2932.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=25' @ 2932.0usft
<b>Site:</b>	AMEN CORNER ST COM PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	AMEN CORNER ST COM 26 36 27 #125H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	PWP		
<b>Design:</b>	PWP		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
12,700.0	90.00	179.46	12,091.4	-197.7	41.4	372,848.12	876,474.78	32.0204296	-103.2519922	
12,800.0	90.00	179.46	12,091.4	-297.7	42.3	372,748.13	876,475.73	32.0201547	-103.2519923	
12,900.0	90.00	179.46	12,091.4	-397.7	43.2	372,648.13	876,476.68	32.0198799	-103.2519925	
13,000.0	90.00	179.46	12,091.4	-497.7	44.2	372,548.14	876,477.63	32.0196050	-103.2519927	
13,100.0	90.00	179.46	12,091.4	-597.7	45.1	372,448.14	876,478.58	32.0193301	-103.2519928	
13,200.0	90.00	179.46	12,091.4	-697.7	46.1	372,348.15	876,479.53	32.0190553	-103.2519930	
13,300.0	90.00	179.46	12,091.4	-797.7	47.0	372,248.15	876,480.48	32.0187804	-103.2519932	
13,400.0	90.00	179.46	12,091.4	-897.7	48.0	372,148.15	876,481.43	32.0185055	-103.2519933	
13,500.0	90.00	179.46	12,091.4	-997.7	48.9	372,048.16	876,482.38	32.0182307	-103.2519935	
13,600.0	90.00	179.46	12,091.4	-1,097.7	49.9	371,948.16	876,483.33	32.0179558	-103.2519937	
13,700.0	90.00	179.46	12,091.4	-1,197.7	50.8	371,848.17	876,484.27	32.0176810	-103.2519938	
13,800.0	90.00	179.46	12,091.4	-1,297.7	51.8	371,748.17	876,485.22	32.0174061	-103.2519940	
13,900.0	90.00	179.46	12,091.4	-1,397.7	52.7	371,648.18	876,486.17	32.0171312	-103.2519942	
14,000.0	90.00	179.46	12,091.4	-1,497.7	53.7	371,548.18	876,487.12	32.0168564	-103.2519943	
14,100.0	90.00	179.46	12,091.4	-1,597.7	54.6	371,448.19	876,488.07	32.0165815	-103.2519945	
14,200.0	90.00	179.46	12,091.4	-1,697.7	55.6	371,348.19	876,489.02	32.0163066	-103.2519947	
14,300.0	90.00	179.46	12,091.3	-1,797.7	56.5	371,248.20	876,489.97	32.0160318	-103.2519948	
14,400.0	90.00	179.46	12,091.3	-1,897.7	57.5	371,148.20	876,490.92	32.0157569	-103.2519950	
14,500.0	90.00	179.46	12,091.3	-1,997.7	58.4	371,048.20	876,491.87	32.0154820	-103.2519952	
14,600.0	90.00	179.46	12,091.3	-2,097.7	59.4	370,948.21	876,492.82	32.0152072	-103.2519953	
14,700.0	90.00	179.46	12,091.3	-2,197.7	60.3	370,848.21	876,493.77	32.0149323	-103.2519955	
14,800.0	90.00	179.46	12,091.3	-2,297.6	61.3	370,748.22	876,494.72	32.0146574	-103.2519957	
14,900.0	90.00	179.46	12,091.3	-2,397.6	62.2	370,648.22	876,495.67	32.0143826	-103.2519958	
15,000.0	90.00	179.46	12,091.3	-2,497.6	63.2	370,548.23	876,496.61	32.0141077	-103.2519960	
15,100.0	90.00	179.46	12,091.3	-2,597.6	64.1	370,448.23	876,497.56	32.0138328	-103.2519962	
15,200.0	90.00	179.46	12,091.3	-2,697.6	65.1	370,348.24	876,498.51	32.0135580	-103.2519963	
15,300.0	90.00	179.46	12,091.3	-2,797.6	66.0	370,248.24	876,499.46	32.0132831	-103.2519965	
15,400.0	90.00	179.46	12,091.3	-2,897.6	67.0	370,148.24	876,500.41	32.0130083	-103.2519967	
15,500.0	90.00	179.46	12,091.3	-2,997.6	67.9	370,048.25	876,501.36	32.0127334	-103.2519968	
15,600.0	90.00	179.46	12,091.3	-3,097.6	68.9	369,948.25	876,502.31	32.0124585	-103.2519970	
15,700.0	90.00	179.46	12,091.3	-3,197.6	69.8	369,848.26	876,503.26	32.0121837	-103.2519972	
15,800.0	90.00	179.46	12,091.3	-3,297.6	70.8	369,748.26	876,504.21	32.0119088	-103.2519973	
15,900.0	90.00	179.46	12,091.2	-3,397.6	71.7	369,648.27	876,505.16	32.0116339	-103.2519975	
16,000.0	90.00	179.46	12,091.2	-3,497.6	72.7	369,548.27	876,506.11	32.0113591	-103.2519977	
16,100.0	90.00	179.46	12,091.2	-3,597.6	73.6	369,448.28	876,507.06	32.0110842	-103.2519978	
16,200.0	90.00	179.46	12,091.2	-3,697.6	74.6	369,348.28	876,508.01	32.0108093	-103.2519980	
16,300.0	90.00	179.46	12,091.2	-3,797.6	75.5	369,248.29	876,508.95	32.0105345	-103.2519981	
16,400.0	90.00	179.46	12,091.2	-3,897.6	76.5	369,148.29	876,509.90	32.0102596	-103.2519983	
16,500.0	90.00	179.46	12,091.2	-3,997.6	77.4	369,048.29	876,510.85	32.0099847	-103.2519985	
16,600.0	90.00	179.46	12,091.2	-4,097.6	78.4	368,948.30	876,511.80	32.0097099	-103.2519986	
16,700.0	90.00	179.46	12,091.2	-4,197.6	79.3	368,848.30	876,512.75	32.0094350	-103.2519988	
16,800.0	90.00	179.46	12,091.2	-4,297.6	80.3	368,748.31	876,513.70	32.0091602	-103.2519990	
16,900.0	90.00	179.46	12,091.2	-4,397.6	81.2	368,648.31	876,514.65	32.0088853	-103.2519991	
17,000.0	90.00	179.46	12,091.2	-4,497.5	82.2	368,548.32	876,515.60	32.0086104	-103.2519993	
17,100.0	90.00	179.46	12,091.2	-4,597.5	83.1	368,448.32	876,516.55	32.0083356	-103.2519995	
17,200.0	90.00	179.46	12,091.2	-4,697.5	84.1	368,348.33	876,517.50	32.0080607	-103.2519996	
17,300.0	90.00	179.46	12,091.2	-4,797.5	85.0	368,248.33	876,518.45	32.0077858	-103.2519998	
17,400.0	90.00	179.46	12,091.2	-4,897.5	86.0	368,148.33	876,519.40	32.0075110	-103.2520000	
17,500.0	90.00	179.46	12,091.2	-4,997.5	86.9	368,048.34	876,520.35	32.0072361	-103.2520001	
17,600.0	90.00	179.46	12,091.1	-5,097.5	87.9	367,948.34	876,521.29	32.0069612	-103.2520003	
17,700.0	90.00	179.46	12,091.1	-5,197.5	88.8	367,848.35	876,522.24	32.0066864	-103.2520005	
17,800.0	90.00	179.46	12,091.1	-5,297.5	89.8	367,748.35	876,523.19	32.0064115	-103.2520006	
17,900.0	90.00	179.46	12,091.1	-5,397.5	90.7	367,648.36	876,524.14	32.0061366	-103.2520008	
18,000.0	90.00	179.46	12,091.1	-5,497.5	91.7	367,548.36	876,525.09	32.0058618	-103.2520010	



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well AMEN CORNER ST COM 26 36 27 #125H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=25' @ 2932.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=25' @ 2932.0usft
<b>Site:</b>	AMEN CORNER ST COM PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	AMEN CORNER ST COM 26 36 27 #125H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	PWP		
<b>Design:</b>	PWP		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
18,100.0	90.00	179.46	12,091.1	-5,597.5	92.6	367,448.37	876,526.04	32.0055869	-103.2520011	
18,200.0	90.00	179.46	12,091.1	-5,697.5	93.6	367,348.37	876,526.99	32.0053120	-103.2520013	
18,300.0	90.00	179.46	12,091.1	-5,797.5	94.5	367,248.38	876,527.94	32.0050372	-103.2520014	
18,400.0	90.00	179.46	12,091.1	-5,897.5	95.5	367,148.38	876,528.89	32.0047623	-103.2520016	
18,500.0	90.00	179.46	12,091.1	-5,997.5	96.4	367,048.38	876,529.84	32.0044875	-103.2520018	
18,600.0	90.00	179.46	12,091.1	-6,097.5	97.4	366,948.39	876,530.79	32.0042126	-103.2520019	
18,700.0	90.00	179.46	12,091.1	-6,197.5	98.3	366,848.39	876,531.74	32.0039377	-103.2520021	
18,800.0	90.00	179.46	12,091.1	-6,297.5	99.3	366,748.40	876,532.68	32.0036629	-103.2520023	
18,900.0	90.00	179.46	12,091.1	-6,397.5	100.2	366,648.40	876,533.63	32.0033880	-103.2520024	
19,000.0	90.00	179.46	12,091.1	-6,497.5	101.2	366,548.41	876,534.58	32.0031131	-103.2520026	
19,100.0	90.00	179.46	12,091.1	-6,597.5	102.1	366,448.41	876,535.53	32.0028383	-103.2520028	
19,200.0	90.00	179.46	12,091.0	-6,697.4	103.0	366,348.42	876,536.48	32.0025634	-103.2520029	
19,300.0	90.00	179.46	12,091.0	-6,797.4	104.0	366,248.42	876,537.43	32.0022885	-103.2520031	
19,400.0	90.00	179.46	12,091.0	-6,897.4	104.9	366,148.42	876,538.38	32.0020137	-103.2520033	
19,500.0	90.00	179.46	12,091.0	-6,997.4	105.9	366,048.43	876,539.33	32.0017388	-103.2520034	
19,600.0	90.00	179.46	12,091.0	-7,097.4	106.8	365,948.43	876,540.28	32.0014639	-103.2520036	
19,700.0	90.00	179.46	12,091.0	-7,197.4	107.8	365,848.44	876,541.23	32.0011891	-103.2520038	
19,800.0	90.00	179.46	12,091.0	-7,297.4	108.7	365,748.44	876,542.18	32.0009142	-103.2520039	
19,900.0	90.00	179.46	12,091.0	-7,397.4	109.7	365,648.45	876,543.13	32.0006393	-103.2520041	
LTP (ACSC #125H)										
19,966.8	90.00	179.46	12,091.0	-7,464.3	110.3	365,581.61	876,543.76	32.0004556	-103.2520042	
BHL (ACSC #125H)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
BHL (ACSC #125H)	0.00	0.00	12,091.0	-7,464.3	110.3	365,581.61	876,543.76	32.0004556	-103.2520042	
- plan hits target center										
- Point										
FTP (ACSC #125H)	0.00	0.00	12,091.0	100.3	39.1	373,146.17	876,472.54	32.0212488	-103.2519898	
- plan misses target center by 0.7usft at 12401.9usft MD (12091.5 TVD, 100.3 N, 38.5 E)										
- Point										
LTP (ACSC #125H)	0.00	0.00	12,091.0	-7,414.3	109.9	365,631.60	876,543.29	32.0005930	-103.2520041	
- plan misses target center by 16.9usft at 19900.0usft MD (12091.0 TVD, -7397.4 N, 109.7 E)										
- Point										



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well AMEN CORNER ST COM 26 36 27 #125H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=25' @ 2932.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=25' @ 2932.0usft
<b>Site:</b>	AMEN CORNER ST COM PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	AMEN CORNER ST COM 26 36 27 #125H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	PWP		
<b>Design:</b>	PWP		

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	2,161.8	2,158.0	Rustler		0.00	
	2,402.2	2,396.0	Salado		0.00	
	3,220.1	3,206.0	Tansill		0.00	
	4,986.3	4,955.0	Lamar		0.00	
	5,248.9	5,215.0	Bell Canyon		0.00	
	6,711.1	6,672.0	Brushy Canyon		0.00	
	7,646.1	7,607.0	Bone Spring Lime		0.00	
	9,363.1	9,324.0	First Bone Spring		0.00	
	9,884.1	9,845.0	Second Bone Spring		0.00	
	10,644.1	10,605.0	Third Bone Spring Upper		0.00	
	11,288.1	11,249.0	Third Bone Spring		0.00	
	11,456.1	11,417.0	Wolfcamp		0.00	
	11,889.6	11,841.0	Wolfcamp B		0.00	



## H<sub>2</sub>S Drilling Operation Plan

1. **All Company and Contract personnel admitted on location must be trained by a qualified H<sub>2</sub>S safety instructor to the following:**
  - a. Characteristics of H<sub>2</sub>S
  - b. Physical effects and hazards
  - c. Principal and operation of H<sub>2</sub>S detectors, warning system and briefing areas
  - d. Evacuation procedure, routes and first aid
  - e. Proper use of safety equipment and life support systems
  - f. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.
2. **Briefing Area:**
  - a. Two perpendicular areas will be designated by signs and readily accessible.
  - b. Upon location entry there will be a designated area to establish all safety compliance criteria (1.) has been met.
3. **H<sub>2</sub>S Detection and Alarm Systems:**
  - a. H<sub>2</sub>S sensors/detectors shall be located on the drilling rig floor, in the base of the sub structure/cellar area, and on the mud pits in the shale shaker area. Additional H<sub>2</sub>S detectors may be placed as deemed necessary. All detectors will be set to initiate visual alarm at 10 ppm and visual with audible at 14 ppm and all equipment will be calibrated every 30 days or as needed.
  - b. An audio alarm will be installed on the derrick floor and in the top doghouse.
4. **Protective Equipment for Essential Personnel:**
  - a. **Breathing Apparatus:**
    - i. Rescue Packs (SCBA) - 1 Unit shall be placed at each briefing area.
    - ii. Two (SCBA) Units will be stored in safety trailer on location.
    - iii. Work/Escapes packs - 1 Unit will be available on rig floor in doghouse for emergency evacuation for driller.
  - b. **Auxiliary Rescue Equipment:**
    - i. Stretcher
    - ii. 2 - OSHA full body harnesses
    - iii. 100 ft. 5/8" OSHA approved rope
    - iv. 1 - 20# class ABC fire extinguisher
5. **Windsock and/or Wind Streamers:**
  - a. Windsock at mud pit area should be high enough to be visible.
  - b. Windsock on the rig floor should be high enough to be visible.
6. **Communication:**
  - a. While working under mask scripting boards will be used for communication where applicable.
  - b. Hand signals will be used when script boards are not applicable.





## H<sub>2</sub>S Drilling Operation Plan

- c. Two way radios will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at Drilling Foreman's Office.

7. **Drill Stem Testing:** - No Planned DST at this time.

8. **Mud program:**

- a. If H<sub>2</sub>S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H<sub>2</sub>S scavengers if necessary.

9. **Metallurgy:**

- a. All drill strings, casing, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H<sub>2</sub>S service.
- b. Drilling Contractor supervisor will be required to be familiar with the effect H<sub>2</sub>S has on tubular goods and other mechanical equipment provided through contractor.





## H<sub>2</sub>S Contingency Plan

### Emergency Procedures

In the event of a release of H<sub>2</sub>S, the first responder(s) must:

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H<sub>2</sub>S monitors and air packs in order to control the release.
- Use the “buddy system” to ensure no injuries occur during the response.
- Take precautions to avoid personal injury during this operation.
- Contact Operator and/or local officials the aid in operation. See list of phone numbers attached.
- Have received training in the:
  - Detection of H<sub>2</sub>S and
  - Measures for protection against the gas,
  - Equipment used for protection and emergency response.

### Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

### Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air=1	2 ppm	N/A	1000 ppm

### Contacting Authorities

Ameredev Operating LLC personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including direction to site. The following call list of essential and potential responders has been prepared for use during a release. Ameredev Operating LLC’s response must be in coordination with the State of New Mexico’s “Hazardous Materials Emergency Response Plan” (HMER)



## H<sub>2</sub>S Contingency Plan

<b>Ameredev Operating LLC – Emergency Phone 737-300-4799</b>			
Key Personnel:			
Name	Title	Office	Mobile
Floyd Hammond	Chief Operating officer	737-300-4724	512-783-6810
Shane McNeely	Operations Engineer	737-300-4729	432-413-8593
Dayeed Khan	Construction Manager	737-300-4733	281-928-4692

<b><u>Artesia</u></b>	
Ambulance	911
State Police	575-748-9718
City Police	575-746-5000
Sheriff's Office	575-887-7551
Fire Department	575-746-5051
Artesia General Hospital	575-748-3333
New Mexico Oil Conservation Division	575-626-0830
<b><u>Carlsbad</u></b>	
Ambulance	911
State Police	575-885-3138
City Police	575-885-2111
Sheriff's Office	575-887-7551
Fire Department	575-885-3125
Carlsbad Medical Center	575-887-4100
Hobbs Hospital	575-492-5000
BLM Hobbs Field Office	575-689-5981
BLM Carlsbad Field Office	575-361-2822
New Mexico Oil Conservation Division	575-626-0830
<b><u>Santa Fe</u></b>	
Department of Homeland Security and Emergency Management (Santa Fe)	505-476-9600
New Mexico State Emergency Operations Center	505-476-9635
<b><u>National</u></b>	
National Emergency Response Center (Washington, D.C.)	800-424-8802
<b><u>Medical</u></b>	
Aerocare - R3, Box 49F; Lubbock, TX	800-627-2376
Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM	505-842-4433
Lifeguard Air Emergency Services- 2505 Clark Carr Loop S.E.; Albuquerque, NM	505-243-2343

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:** \_\_\_\_\_ Ameredev II, LLC \_\_\_\_\_ **OGRID:** \_\_\_\_\_ 372224 \_\_\_\_\_ **Date:** \_\_\_\_\_ 10/17/2023 \_\_\_\_\_

**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: \_\_\_\_\_

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Amen Corner 26 36 27 State Com 062H	30025-		230' FSL & 1660' FWL	680	3,412	2,610
Amen Corner 26 36 27 State Com 063H	30025-		200' FNL & 2310' FEL	680	3,412	2,610
Amen Corner 26 36 27 State Com 072H	30025-		200' FNL & 2390' FEL	680	3,412	2,610
Amen Corner 26 36 27 State Com 073H	30025-		230' FSL & 1055' FEL	680	3,412	2,610
Amen Corner 26 36 27 State Com 123H	30025-		230' FSL & 1700' FWL	680	3,412	2,610
Amen Corner 26 36 27 State Com 125H	30025-		200' FNL & 2350' FEL	680	3,412	2,610

**IV. Central Delivery Point Name:** \_\_\_\_\_ [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Amen Corner 26 36 27 State Com 062H	30025-	01/15/2024	03/02/2024	04/02/2024	04/30/2024	05/03/2024
Amen Corner 26 36 27 State Com 063H	30025-	01/15/2024	03/02/2024	04/02/2024	04/30/2024	05/03/2024
Amen Corner 26 36 27 State Com 072H	30025-	01/15/2024	03/02/2024	04/02/2024	04/30/2024	05/03/2024
Amen Corner 26 36 27 State Com 073H	30025-	01/15/2024	03/02/2024	04/02/2024	04/30/2024	05/03/2024
Amen Corner 26 36 27 State Com 123H	30025-	01/15/2024	03/02/2024	04/02/2024	04/30/2024	05/03/2024
Amen Corner 26 36 27 State Com 125H	30025-	01/15/2024	03/02/2024	04/02/2024	04/30/2024	05/03/2024

**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.** ☐ 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 ☐ will ☐ 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 ☐ does ☐ 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:** ☐ 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.

### **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:

- (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: <i>Cesca Yu</i>
Printed Name: Cesca Yu
Title: Engineer
E-mail Address: cyu@ameredev.com
Date: 10/17/2023
Phone: 512-775-1417

**OIL CONSERVATION DIVISION**  
**(Only applicable when submitted as a standalone form)**

Approved By:
Title:
Approval Date:
Conditions of Approval:

## **Natural Gas Management Plan**

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

- Separation equipment is sized to allow for retention time and velocity to adequately separate oil, gas, and water at anticipated peak rates.
- All central tank battery equipment is designed to efficiently capture the remaining gas from the liquid phase.
- Valves and meters are designed to service without flow interruption or venting of gas.

### **VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.**

#### **19.15.27.8 (A)**

Ameredev's field operations are designed with the goal of minimizing flaring and preventing venting of natural gas. If capturing the gas is not possible then the gas is combusted/flared using properly sized flares or combustors in accordance with state air permit rules.

#### **19.15.27.8 (B) Venting and Flaring during drilling operations**

- A properly-sized flare stack will be located at a minimum 100' from the nearest surface hole location on the pad.
- All natural gas produced during drilling operations will be flared. Venting will only occur if there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety, public health, or the environment.

#### **19.15.27.8 (C) Venting and Flaring during completions or recompletions operations.**

- During all phases of flowback, wells will flow through a sand separator, or other appropriate flowback separation equipment, and the well stream will be directed to a central tank battery (CTB) through properly sized flowlines
- The CTB will have properly sized separation equipment for maximum anticipated flowrates
- Multiple stages of separation will be used to separate gas from liquids. All gas will be routed to a sales outlet. Fluids will be routed to tanks equipped with a closed loop system that will recover any residual gas from the tanks and route such gas to a sales outlet.

#### **19.15.27.8 (D) Venting and Flaring during production operations.**

- During production, the well stream will be routed to the CTB where multiple stages of separation will separate gas from liquids. All gas will be routed to a sales outlet. Fluids will be routed to tanks with a closed



loop system that will recover any residual gas from the tanks and route such gas to a sales outlet, minimizing tank emissions.

- Flares are equipped with auto-ignition systems and continuous pilot operations.
- Automatic gauging equipment is installed on all tanks.

#### **19.15.27.8 (E) Performance Standards**

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- Automatic gauging equipment is installed on all tanks to minimize venting
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- Flares are equipped with continuous pilots and auto-ignitors along with remote monitoring of the pilot status
- Weekly AVOs and monthly LDAR inspections will be performed on all wells and facilities that produce more than 60 Mcfd.
- Gas/H<sub>2</sub>S detectors will be installed throughout the facilities and wellheads to detect leaks and enable timely repairs.

#### **19.15.27.8 (F) Measurement or estimation of vented and flared natural gas**

- All high pressure flared gas is measured by equipment conforming to API 14.10.
- No meter bypasses are installed.
- When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated through flare flow curves with the assistance of air emissions consultants, as necessary.

#### **VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.**

- Ameredev will use best management practices to vent as minimally as possible during well intervention operations and downhole well maintenance
- All natural gas is routed into the gas gathering system and directed to one of Ameredev's multiple gas sales outlets.
- All venting events will be recorded and all start-up, shutdown, maintenance logs will be kept for control equipment
- All control equipment will be maintained to provide highest run-time possible
- All procedures are drafted to keep venting and flaring to the absolute minimum