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 343563

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

1. Operator Name and Address	2. OGRID Number
AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	372224
	3. API Number 30-025-51670

4. Property Code	5. Property Name	6. Well No.
334190	HOGAN BRIDGE 26 36 23 STATE COM	121H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	23	26S	36E	M	230	S	1309	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	14	26S	36E	D	50	N	330	W	Lea

9. Pool Information

WC-025 G-09 S263619C;WOLFCAMP	98234

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	2910
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	22741	Wolfcamp		9/1/2024
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	1667	2053	0
Int1	9.875	7.625	29.7	10671	3172	0
Prod	6.75	5.5	23	22741	1770	0

Casing/Cement Program: Additional Comments

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:		**OIL CONSERVATION DIVISION**		
Printed Name:	Electronically filed by Christie Hanna	Approved By:	Paul F Kautz	
Title:	Regulatory	Title:	Geologist	
Email Address:	channa@ameredev.com	Approved Date:	6/29/2023	Expiration Date: 6/29/2025
Date:	6/26/2023 Phone: 737-300-4723	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

[1]API Number	[2]Pool Code	[3]Pool Name
30-025-51670	98234	WC-025 G-09 S263619C;WOLFCAMP

[4]Property Code	[5]Property Name	[6]Well Number
334190	HOGAN BRIDGE 26 36 23 STATE COM	121H

[7]OGRID No.	[8]Operator Name	[9]Elevation
372224	AMEREDEV OPERATING, LLC.	2910'

[10]Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	26-S	36-E	–	230'	SOUTH	1309'	WEST	LEA

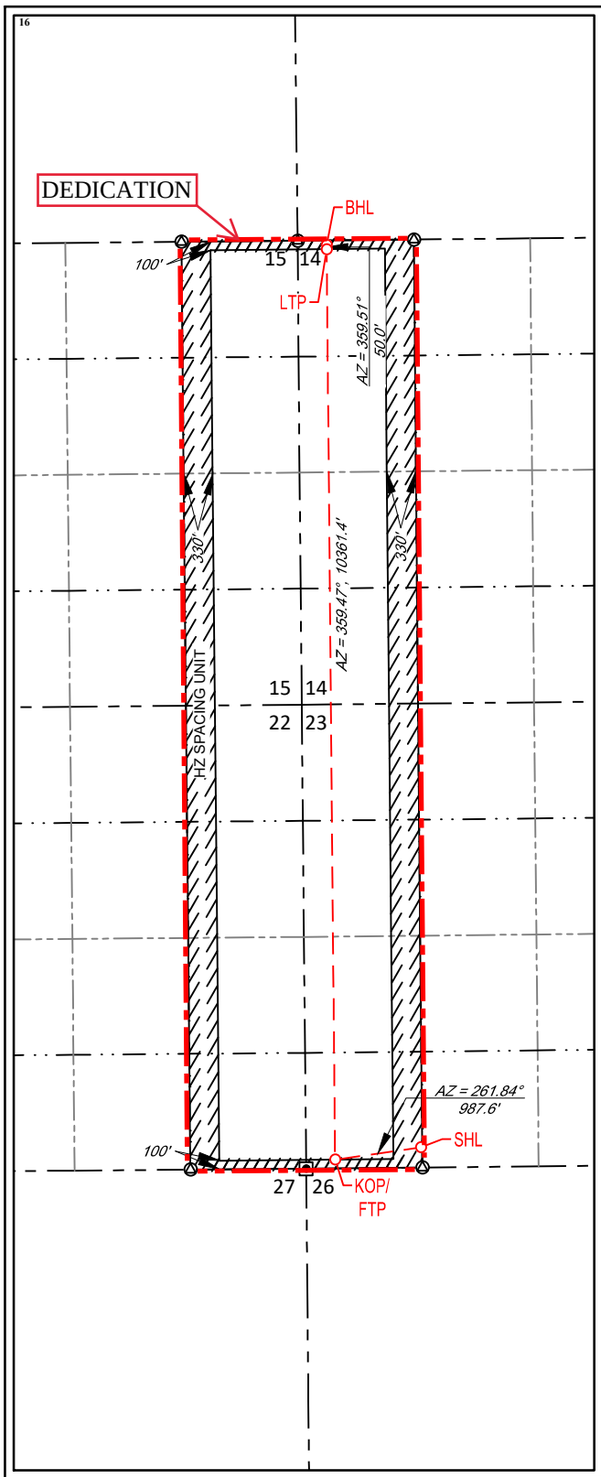
[11]Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	14	26-S	36-E	–	50'	NORTH	330'	WEST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
640		C	

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16



NEW MEXICO EAST
NAD 1983

SURFACE LOCATION (SHL)
230' FSL - SEC. 23
1309' FWL - SEC. 23
X=880088 Y=373508
LAT.: N 32.0221428
LONG.: W 103.2403140

KICK OFF POINT (KOP)
FIRST TAKE POINT (FTP)
100' FSL - SEC. 23
330' FWL - SEC. 23
X=879110 Y=373368
LAT.: N 32.0217845
LONG.: W 103.2434724

LAST TAKE POINT (LTP)
100' FNL - SEC. 14
330' FWL - SEC. 14
X=879015 Y=383729
LAT.: N 32.0502641
LONG.: W 103.2434435

BOTTOM HOLE LOCATION (BHL)
50' FNL - SEC. 14
330' FWL - SEC. 14
X=879014 Y=383779
LAT.: N 32.0504015
LONG.: W 103.2434433

[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.

Signature Date 6/18/2023

Floyd Hammond
Printed Name

fhammond@ameredev.com
E-mail Address

[18]SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

06/03/2023
Date of Survey
Signature and Seal of Professional Surveyor

ANGEL M. BAEZA
NEW MEXICO
25116
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 343563

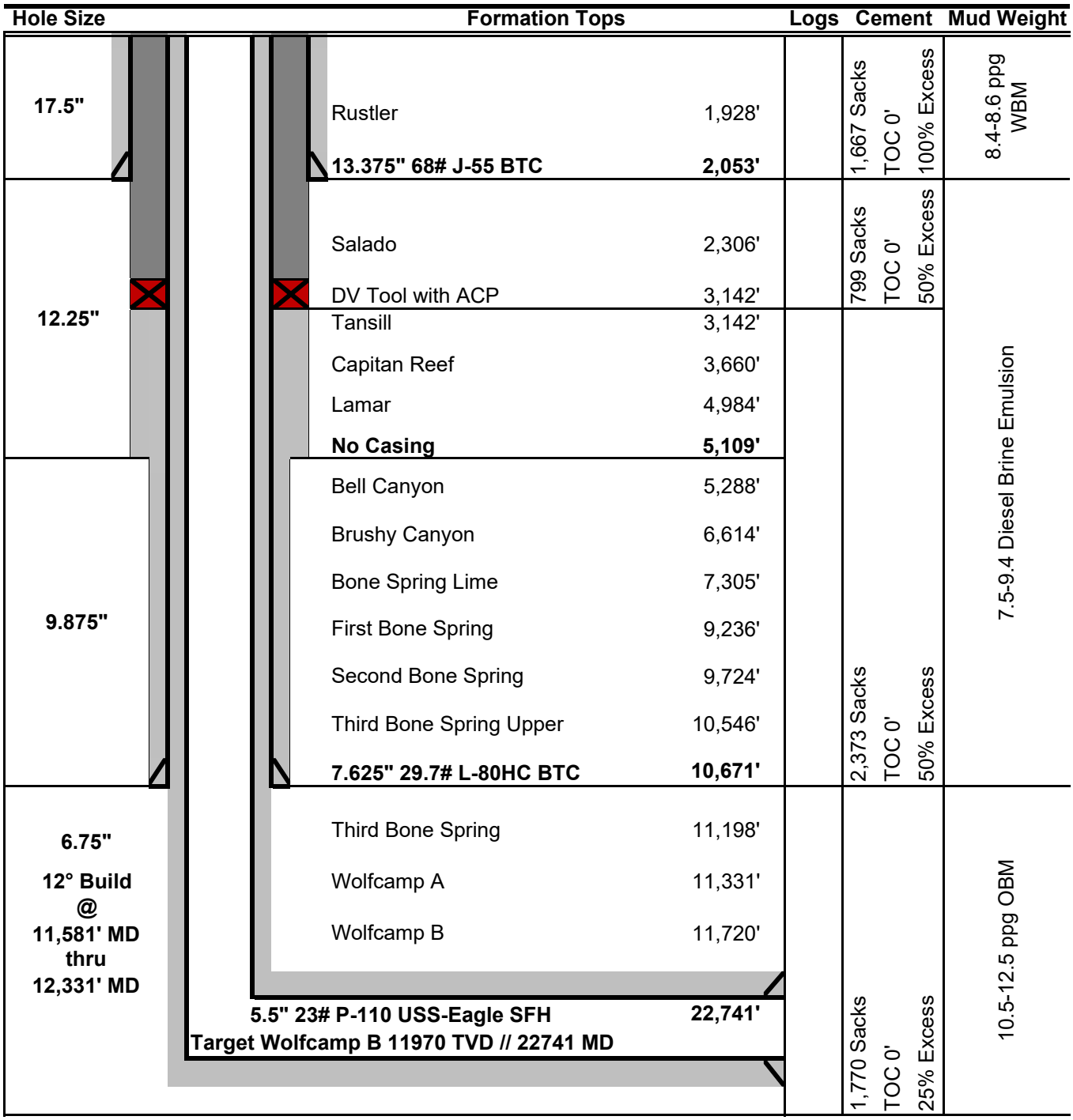
PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
AMEREDEV OPERATING, LLC [372224] 2901 Via Fortuna Austin, TX 78746	30-025-51670
	Well: HOGAN BRIDGE 26 36 23 STATE COM #121H

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	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

Wellbore Schematic

Well:	Hogan Bridge 26 36 23 State Com 121H	**Co. Well ID:**	xxxxxx
SHL:	Sec. 23 26S-36E 230' FSL & 1309' FWL	**AFE No.:**	xxxx-xxx
BHL:	Sec. 14 26S-36E 50' FNL & 330' FWL	**API No.:**	xxxxxxxxxx
	Lea, NM	**GL:**	2,910'
Wellhead:	A - 13-5/8" 10M x 13-5/8" SOW	**Field:**	Delaware
	B - 13-5/8" 10M x 13-5/8" 10M	**Objective:**	Wolfcamp B
	C - 13-5/8" 10M x 13-5/8" 10M	**TVD:**	11,970'
	Tubing Spool - 7-1/16" 15M x 13-3/8" 10M	**MD:**	22,741'
Xmas Tree:	2-9/16" 10M	**Rig:**	TBD **KB** 27'
Tubing:	2-7/8" L-80 6.5# 8rd EUE	**E-Mail:**	Wellsite2@ameredev.com



Ameredev Operating

Lea County, NM (N83-NME)
HOGAN/NELSON BRIDGE PROJECT

HOGAN BRIDGE 26 36 23 STATE COM 121H

OWB

Plan: PWP

Standard Planning Report - Geographic

14 June, 2023

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well HOGAN BRIDGE ST COM 26 36 23 121H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2937.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2937.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	**North Reference:**	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 121H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Project Lea County, NM (N83-NME)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site HOGAN/NELSON BRIDGE PROJECT

Site Position:		**Northing:**	373,507.82 usft	**Latitude:**	32.0221428
From:	Lat/Long	**Easting:**	880,088.06 usft	**Longitude:**	-103.2403140
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well HOGAN BRIDGE ST COM 26 36 23 121H

Well Position	**+N/-S**	0.0 usft	**Northing:**	373,507.82 usft	**Latitude:**	32.0221428
	+E/-W	0.0 usft	**Easting:**	880,088.06 usft	**Longitude:**	-103.2403140
Position Uncertainty		3.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	2,910.0 usft
Grid Convergence:		0.58 °				

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/12/2023	6.14	59.70	47,203.02370704

Design PWP

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.47

Plan Survey Tool Program **Date** 6/14/2023

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,740.7	PWP (OWB)	MWD OWSG MWD - Standard	

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well HOGAN BRIDGE ST COM 26 36 23 121H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2937.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2937.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	**North Reference:**	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 121H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,450.0	9.00	237.67	1,448.2	-18.9	-29.8	2.00	2.00	0.00	237.67	
8,359.6	9.00	237.67	8,272.7	-596.8	-943.2	0.00	0.00	0.00	0.00	
8,809.6	0.00	0.00	8,720.8	-615.7	-973.0	2.00	-2.00	0.00	180.00	
11,581.3	0.00	0.00	11,492.5	-615.7	-973.0	0.00	0.00	0.00	0.00	
12,331.3	90.00	359.47	11,970.0	-138.3	-977.4	12.00	12.00	-0.07	359.47	
22,740.7	90.00	359.47	11,970.0	10,270.7	-1,073.6	0.00	0.00	0.00	0.00	BHL (HBSC 121H)

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well HOGAN BRIDGE ST COM 26 36 23 121H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2937.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2937.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	**North Reference:**	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 121H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	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	373,507.82	880,088.06	32.0221428	-103.2403140
100.0	0.00	0.00	100.0	0.0	0.0	373,507.82	880,088.06	32.0221428	-103.2403140
200.0	0.00	0.00	200.0	0.0	0.0	373,507.82	880,088.06	32.0221428	-103.2403140
300.0	0.00	0.00	300.0	0.0	0.0	373,507.82	880,088.06	32.0221428	-103.2403140
400.0	0.00	0.00	400.0	0.0	0.0	373,507.82	880,088.06	32.0221428	-103.2403140
500.0	0.00	0.00	500.0	0.0	0.0	373,507.82	880,088.06	32.0221428	-103.2403140
600.0	0.00	0.00	600.0	0.0	0.0	373,507.82	880,088.06	32.0221428	-103.2403140
700.0	0.00	0.00	700.0	0.0	0.0	373,507.82	880,088.06	32.0221428	-103.2403140
800.0	0.00	0.00	800.0	0.0	0.0	373,507.82	880,088.06	32.0221428	-103.2403140
900.0	0.00	0.00	900.0	0.0	0.0	373,507.82	880,088.06	32.0221428	-103.2403140
1,000.0	0.00	0.00	1,000.0	0.0	0.0	373,507.82	880,088.06	32.0221428	-103.2403140
Start Build 2.00									
1,100.0	2.00	237.67	1,100.0	-0.9	-1.5	373,506.88	880,086.59	32.0221403	-103.2403188
1,200.0	4.00	237.67	1,199.8	-3.7	-5.9	373,504.08	880,082.16	32.0221327	-103.2403331
1,300.0	6.00	237.67	1,299.5	-8.4	-13.3	373,499.42	880,074.80	32.0221201	-103.2403571
1,400.0	8.00	237.67	1,398.7	-14.9	-23.6	373,492.91	880,064.50	32.0221025	-103.2403905
1,450.0	9.00	237.67	1,448.2	-18.9	-29.8	373,488.96	880,058.26	32.0220918	-103.2404108
Start 6909.6 hold at 1450.0 MD									
1,500.0	9.00	237.67	1,497.5	-23.0	-36.4	373,484.77	880,051.65	32.0220805	-103.2404322
1,600.0	9.00	237.67	1,596.3	-31.4	-49.6	373,476.41	880,038.43	32.0220579	-103.2404751
1,700.0	9.00	237.67	1,695.1	-39.8	-62.9	373,468.04	880,025.21	32.0220353	-103.2405181
1,800.0	9.00	237.67	1,793.8	-48.1	-76.1	373,459.68	880,011.99	32.0220126	-103.2405610
1,900.0	9.00	237.67	1,892.6	-56.5	-89.3	373,451.31	879,998.77	32.0219900	-103.2406039
1,935.8	9.00	237.67	1,928.0	-59.5	-94.0	373,448.32	879,994.03	32.0219819	-103.2406193
Rustler									
2,000.0	9.00	237.67	1,991.4	-64.9	-102.5	373,442.95	879,985.55	32.0219674	-103.2406468
2,100.0	9.00	237.67	2,090.1	-73.2	-115.7	373,434.58	879,972.33	32.0219448	-103.2406897
2,200.0	9.00	237.67	2,188.9	-81.6	-128.9	373,426.22	879,959.11	32.0219221	-103.2407327
2,300.0	9.00	237.67	2,287.7	-90.0	-142.2	373,417.85	879,945.89	32.0218995	-103.2407756
2,318.5	9.00	237.67	2,306.0	-91.5	-144.6	373,416.30	879,943.44	32.0218953	-103.2407835
Salado									
2,400.0	9.00	237.67	2,386.5	-98.3	-155.4	373,409.49	879,932.67	32.0218769	-103.2408185
2,500.0	9.00	237.67	2,485.2	-106.7	-168.6	373,401.12	879,919.45	32.0218543	-103.2408614
2,600.0	9.00	237.67	2,584.0	-115.1	-181.8	373,392.76	879,906.24	32.0218316	-103.2409043
2,700.0	9.00	237.67	2,682.8	-123.4	-195.0	373,384.39	879,893.02	32.0218090	-103.2409473
2,800.0	9.00	237.67	2,781.5	-131.8	-208.3	373,376.03	879,879.80	32.0217864	-103.2409902
2,900.0	9.00	237.67	2,880.3	-140.2	-221.5	373,367.66	879,866.58	32.0217638	-103.2410331
3,000.0	9.00	237.67	2,979.1	-148.5	-234.7	373,359.30	879,853.36	32.0217412	-103.2410760
3,100.0	9.00	237.67	3,077.8	-156.9	-247.9	373,350.94	879,840.14	32.0217185	-103.2411189
3,165.0	9.00	237.67	3,142.0	-162.3	-256.5	373,345.50	879,831.55	32.0217038	-103.2411468
Tansill									
3,200.0	9.00	237.67	3,176.6	-165.2	-261.1	373,342.57	879,826.92	32.0216959	-103.2411618
3,300.0	9.00	237.67	3,275.4	-173.6	-274.4	373,334.21	879,813.70	32.0216733	-103.2412048
3,400.0	9.00	237.67	3,374.1	-182.0	-287.6	373,325.84	879,800.48	32.0216507	-103.2412477
3,500.0	9.00	237.67	3,472.9	-190.3	-300.8	373,317.48	879,787.26	32.0216280	-103.2412906
3,600.0	9.00	237.67	3,571.7	-198.7	-314.0	373,309.11	879,774.04	32.0216054	-103.2413335
3,689.4	9.00	237.67	3,660.0	-206.2	-325.8	373,301.63	879,762.22	32.0215852	-103.2413719
Capitan									
3,700.0	9.00	237.67	3,670.5	-207.1	-327.2	373,300.75	879,760.82	32.0215828	-103.2413764
3,800.0	9.00	237.67	3,769.2	-215.4	-340.5	373,292.38	879,747.61	32.0215602	-103.2414194
3,900.0	9.00	237.67	3,868.0	-223.8	-353.7	373,284.02	879,734.39	32.0215375	-103.2414623
4,000.0	9.00	237.67	3,966.8	-232.2	-366.9	373,275.65	879,721.17	32.0215149	-103.2415052
4,100.0	9.00	237.67	4,065.5	-240.5	-380.1	373,267.29	879,707.95	32.0214923	-103.2415481

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well HOGAN BRIDGE ST COM 26 36 23 121H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2937.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2937.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	**North Reference:**	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 121H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	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
4,200.0	9.00	237.67	4,164.3	-248.9	-393.3	373,258.92	879,694.73	32.0214697	-103.2415910
4,300.0	9.00	237.67	4,263.1	-257.3	-406.6	373,250.56	879,681.51	32.0214470	-103.2416340
4,400.0	9.00	237.67	4,361.8	-265.6	-419.8	373,242.19	879,668.29	32.0214244	-103.2416769
4,500.0	9.00	237.67	4,460.6	-274.0	-433.0	373,233.83	879,655.07	32.0214018	-103.2417198
4,600.0	9.00	237.67	4,559.4	-282.4	-446.2	373,225.46	879,641.85	32.0213792	-103.2417627
4,700.0	9.00	237.67	4,658.1	-290.7	-459.4	373,217.10	879,628.63	32.0213566	-103.2418056
4,800.0	9.00	237.67	4,756.9	-299.1	-472.6	373,208.73	879,615.41	32.0213339	-103.2418486
4,900.0	9.00	237.67	4,855.7	-307.4	-485.9	373,200.37	879,602.19	32.0213113	-103.2418915
5,000.0	9.00	237.67	4,954.4	-315.8	-499.1	373,192.00	879,588.98	32.0212887	-103.2419344
5,029.9	9.00	237.67	4,984.0	-318.3	-503.0	373,189.50	879,585.02	32.0212819	-103.2419472
Lamar									
5,100.0	9.00	237.67	5,053.2	-324.2	-512.3	373,183.64	879,575.76	32.0212661	-103.2419773
5,200.0	9.00	237.67	5,152.0	-332.5	-525.5	373,175.27	879,562.54	32.0212434	-103.2420202
5,300.0	9.00	237.67	5,250.8	-340.9	-538.7	373,166.91	879,549.32	32.0212208	-103.2420631
5,337.7	9.00	237.67	5,288.0	-344.1	-543.7	373,163.75	879,544.33	32.0212123	-103.2420793
Bell Canyon									
5,400.0	9.00	237.67	5,349.5	-349.3	-552.0	373,158.54	879,536.10	32.0211982	-103.2421061
5,500.0	9.00	237.67	5,448.3	-357.6	-565.2	373,150.18	879,522.88	32.0211756	-103.2421490
5,600.0	9.00	237.67	5,547.1	-366.0	-578.4	373,141.81	879,509.66	32.0211529	-103.2421919
5,700.0	9.00	237.67	5,645.8	-374.4	-591.6	373,133.45	879,496.44	32.0211303	-103.2422348
5,800.0	9.00	237.67	5,744.6	-382.7	-604.8	373,125.08	879,483.22	32.0211077	-103.2422777
5,900.0	9.00	237.67	5,843.4	-391.1	-618.1	373,116.72	879,470.00	32.0210851	-103.2423207
6,000.0	9.00	237.67	5,942.1	-399.5	-631.3	373,108.35	879,456.78	32.0210624	-103.2423636
6,100.0	9.00	237.67	6,040.9	-407.8	-644.5	373,099.99	879,443.56	32.0210398	-103.2424065
6,200.0	9.00	237.67	6,139.7	-416.2	-657.7	373,091.62	879,430.35	32.0210172	-103.2424494
6,300.0	9.00	237.67	6,238.4	-424.6	-670.9	373,083.26	879,417.13	32.0209946	-103.2424923
6,400.0	9.00	237.67	6,337.2	-432.9	-684.2	373,074.89	879,403.91	32.0209719	-103.2425353
6,500.0	9.00	237.67	6,436.0	-441.3	-697.4	373,066.53	879,390.69	32.0209493	-103.2425782
6,600.0	9.00	237.67	6,534.7	-449.7	-710.6	373,058.16	879,377.47	32.0209267	-103.2426211
6,680.2	9.00	237.67	6,614.0	-456.4	-721.2	373,051.45	879,366.86	32.0209085	-103.2426555
Brushy Canyon									
6,700.0	9.00	237.67	6,633.5	-458.0	-723.8	373,049.80	879,364.25	32.0209041	-103.2426640
6,800.0	9.00	237.67	6,732.3	-466.4	-737.0	373,041.43	879,351.03	32.0208815	-103.2427069
6,900.0	9.00	237.67	6,831.1	-474.7	-750.2	373,033.07	879,337.81	32.0208588	-103.2427498
7,000.0	9.00	237.67	6,929.8	-483.1	-763.5	373,024.70	879,324.59	32.0208362	-103.2427928
7,100.0	9.00	237.67	7,028.6	-491.5	-776.7	373,016.34	879,311.37	32.0208136	-103.2428357
7,200.0	9.00	237.67	7,127.4	-499.8	-789.9	373,007.97	879,298.15	32.0207910	-103.2428786
7,300.0	9.00	237.67	7,226.1	-508.2	-803.1	372,999.61	879,284.93	32.0207683	-103.2429215
7,379.9	9.00	237.67	7,305.0	-514.9	-813.7	372,992.93	879,274.38	32.0207503	-103.2429558
Bone Spring Lime									
7,400.0	9.00	237.67	7,324.9	-516.6	-816.3	372,991.24	879,271.72	32.0207457	-103.2429644
7,500.0	9.00	237.67	7,423.7	-524.9	-829.6	372,982.88	879,258.50	32.0207231	-103.2430074
7,600.0	9.00	237.67	7,522.4	-533.3	-842.8	372,974.52	879,245.28	32.0207005	-103.2430503
7,700.0	9.00	237.67	7,621.2	-541.7	-856.0	372,966.15	879,232.06	32.0206778	-103.2430932
7,800.0	9.00	237.67	7,720.0	-550.0	-869.2	372,957.79	879,218.84	32.0206552	-103.2431361
7,900.0	9.00	237.67	7,818.7	-558.4	-882.4	372,949.42	879,205.62	32.0206326	-103.2431790
8,000.0	9.00	237.67	7,917.5	-566.8	-895.7	372,941.06	879,192.40	32.0206100	-103.2432219
8,100.0	9.00	237.67	8,016.3	-575.1	-908.9	372,932.69	879,179.18	32.0205873	-103.2432649
8,200.0	9.00	237.67	8,115.0	-583.5	-922.1	372,924.33	879,165.96	32.0205647	-103.2433078
8,300.0	9.00	237.67	8,213.8	-591.9	-935.3	372,915.96	879,152.74	32.0205421	-103.2433507
8,359.6	9.00	237.67	8,272.7	-596.8	-943.2	372,910.98	879,144.86	32.0205286	-103.2433763
Start Drop -2.00									
8,400.0	8.19	237.67	8,312.6	-600.1	-948.3	372,907.75	879,139.76	32.0205199	-103.2433928

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well HOGAN BRIDGE ST COM 26 36 23 121H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2937.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2937.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	**North Reference:**	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 121H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	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
8,500.0	6.19	237.67	8,411.8	-606.8	-958.9	372,901.05	879,129.18	32.0205018	-103.2434272
8,600.0	4.19	237.67	8,511.4	-611.6	-966.5	372,896.21	879,121.54	32.0204887	-103.2434520
8,700.0	2.19	237.67	8,611.3	-614.6	-971.2	372,893.24	879,116.83	32.0204806	-103.2434673
8,809.6	0.00	0.00	8,720.8	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
Start 2771.7 hold at 8809.6 MD									
8,900.0	0.00	0.00	8,811.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
9,000.0	0.00	0.00	8,911.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
9,100.0	0.00	0.00	9,011.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
9,200.0	0.00	0.00	9,111.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
9,300.0	0.00	0.00	9,211.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
9,324.8	0.00	0.00	9,236.0	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
First Bone Spring									
9,400.0	0.00	0.00	9,311.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
9,500.0	0.00	0.00	9,411.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
9,600.0	0.00	0.00	9,511.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
9,700.0	0.00	0.00	9,611.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
9,800.0	0.00	0.00	9,711.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
9,812.8	0.00	0.00	9,724.0	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
Second Bone Spring									
9,900.0	0.00	0.00	9,811.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
10,000.0	0.00	0.00	9,911.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
10,100.0	0.00	0.00	10,011.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
10,200.0	0.00	0.00	10,111.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
10,300.0	0.00	0.00	10,211.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
10,400.0	0.00	0.00	10,311.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
10,500.0	0.00	0.00	10,411.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
10,600.0	0.00	0.00	10,511.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
10,634.8	0.00	0.00	10,546.0	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
Third Bone Spring Lime									
10,700.0	0.00	0.00	10,611.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
10,800.0	0.00	0.00	10,711.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
10,900.0	0.00	0.00	10,811.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
11,000.0	0.00	0.00	10,911.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
11,100.0	0.00	0.00	11,011.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
11,200.0	0.00	0.00	11,111.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
11,286.8	0.00	0.00	11,198.0	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
Third Bone Spring									
11,300.0	0.00	0.00	11,211.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
11,400.0	0.00	0.00	11,311.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
11,419.8	0.00	0.00	11,331.0	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
Wolfcamp									
11,500.0	0.00	0.00	11,411.2	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
11,581.3	0.00	0.00	11,492.5	-615.7	-973.0	372,892.12	879,115.06	32.0204776	-103.2434730
KOP-Start DLS 12.00 TFO 359.47									
11,600.0	2.25	359.47	11,511.2	-615.3	-973.0	372,892.48	879,115.06	32.0204786	-103.2434730
11,625.0	5.25	359.47	11,536.2	-613.7	-973.0	372,894.12	879,115.04	32.0204831	-103.2434730
11,650.0	8.25	359.47	11,561.0	-610.8	-973.0	372,897.05	879,115.01	32.0204912	-103.2434730
11,675.0	11.25	359.47	11,585.6	-606.5	-973.1	372,901.29	879,114.97	32.0205028	-103.2434730
11,700.0	14.25	359.47	11,610.0	-601.0	-973.1	372,906.80	879,114.92	32.0205180	-103.2434730
11,725.0	17.25	359.47	11,634.1	-594.2	-973.2	372,913.59	879,114.86	32.0205366	-103.2434730
11,750.0	20.25	359.47	11,657.7	-586.2	-973.3	372,921.62	879,114.79	32.0205587	-103.2434730
11,775.0	23.25	359.47	11,681.0	-576.9	-973.4	372,930.88	879,114.70	32.0205842	-103.2434729
11,800.0	26.25	359.47	11,703.7	-566.5	-973.5	372,941.35	879,114.60	32.0206129	-103.2434729

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well HOGAN BRIDGE ST COM 26 36 23 121H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2937.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2937.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	**North Reference:**	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 121H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	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
11,818.4	28.46	359.47	11,720.0	-558.0	-973.5	372,949.80	879,114.53	32.0206361	-103.2434729
Wolfcamp B									
11,825.0	29.25	359.47	11,725.8	-554.8	-973.6	372,952.98	879,114.50	32.0206449	-103.2434729
11,850.0	32.25	359.47	11,747.3	-542.1	-973.7	372,965.76	879,114.38	32.0206800	-103.2434728
11,875.0	35.25	359.47	11,768.1	-528.2	-973.8	372,979.65	879,114.25	32.0207182	-103.2434728
11,900.0	38.25	359.47	11,788.1	-513.2	-973.9	372,994.61	879,114.11	32.0207593	-103.2434728
11,925.0	41.25	359.47	11,807.3	-497.2	-974.1	373,010.59	879,113.96	32.0208032	-103.2434727
11,950.0	44.25	359.47	11,825.7	-480.3	-974.3	373,027.55	879,113.81	32.0208499	-103.2434727
11,975.0	47.25	359.47	11,843.1	-462.4	-974.4	373,045.46	879,113.64	32.0208991	-103.2434726
12,000.0	50.25	359.47	11,859.6	-443.6	-974.6	373,064.25	879,113.47	32.0209508	-103.2434726
12,025.0	53.25	359.47	11,875.1	-423.9	-974.8	373,083.88	879,113.29	32.0210047	-103.2434725
12,050.0	56.25	359.47	11,889.5	-403.5	-975.0	373,104.29	879,113.10	32.0210608	-103.2434725
12,075.0	59.25	359.47	11,902.8	-382.4	-975.2	373,125.43	879,112.90	32.0211189	-103.2434724
12,100.0	62.25	359.47	11,915.0	-360.6	-975.4	373,147.24	879,112.70	32.0211789	-103.2434724
12,125.0	65.25	359.47	11,926.1	-338.2	-975.6	373,169.66	879,112.49	32.0212405	-103.2434723
12,150.0	68.25	359.47	11,936.0	-315.2	-975.8	373,192.63	879,112.28	32.0213036	-103.2434722
12,175.0	71.25	359.47	11,944.6	-291.7	-976.0	373,216.08	879,112.06	32.0213681	-103.2434722
12,200.0	74.25	359.47	11,952.0	-267.9	-976.2	373,239.95	879,111.84	32.0214337	-103.2434721
12,225.0	77.25	359.47	11,958.2	-243.6	-976.4	373,264.17	879,111.62	32.0215003	-103.2434720
12,250.0	80.25	359.47	11,963.1	-219.1	-976.7	373,288.69	879,111.39	32.0215677	-103.2434720
12,275.0	83.25	359.47	11,966.7	-194.4	-976.9	373,313.43	879,111.17	32.0216357	-103.2434719
12,300.0	86.25	359.47	11,968.9	-169.5	-977.1	373,338.32	879,110.93	32.0217041	-103.2434718
12,325.0	89.25	359.47	11,969.9	-144.5	-977.4	373,363.30	879,110.70	32.0217727	-103.2434718
12,331.3	90.00	359.47	11,970.0	-138.3	-977.4	373,369.56	879,110.65	32.0217900	-103.2434717
LP-Start 10409.4 hold at 12331.3 MD									
12,400.0	90.00	359.47	11,970.0	-69.5	-978.0	373,438.29	879,110.01	32.0219789	-103.2434716
12,500.0	90.00	359.47	11,970.0	30.5	-979.0	373,538.29	879,109.09	32.0222538	-103.2434713
12,600.0	90.00	359.47	11,970.0	130.5	-979.9	373,638.28	879,108.16	32.0225286	-103.2434710
12,700.0	90.00	359.47	11,970.0	230.5	-980.8	373,738.28	879,107.24	32.0228035	-103.2434707
12,800.0	90.00	359.47	11,970.0	330.5	-981.7	373,838.27	879,106.31	32.0230783	-103.2434705
12,900.0	90.00	359.47	11,970.0	430.5	-982.7	373,938.27	879,105.39	32.0233532	-103.2434702
13,000.0	90.00	359.47	11,970.0	530.5	-983.6	374,038.27	879,104.46	32.0236281	-103.2434699
13,100.0	90.00	359.47	11,970.0	630.4	-984.5	374,138.26	879,103.54	32.0239029	-103.2434697
13,200.0	90.00	359.47	11,970.0	730.4	-985.4	374,238.26	879,102.62	32.0241778	-103.2434694
13,300.0	90.00	359.47	11,970.0	830.4	-986.4	374,338.25	879,101.69	32.0244527	-103.2434691
13,400.0	90.00	359.47	11,970.0	930.4	-987.3	374,438.25	879,100.77	32.0247275	-103.2434688
13,500.0	90.00	359.47	11,970.0	1,030.4	-988.2	374,538.24	879,099.84	32.0250024	-103.2434686
13,600.0	90.00	359.47	11,970.0	1,130.4	-989.1	374,638.24	879,098.92	32.0252773	-103.2434683
13,700.0	90.00	359.47	11,970.0	1,230.4	-990.1	374,738.24	879,097.99	32.0255521	-103.2434680
13,800.0	90.00	359.47	11,970.0	1,330.4	-991.0	374,838.23	879,097.07	32.0258270	-103.2434677
13,900.0	90.00	359.47	11,970.0	1,430.4	-991.9	374,938.23	879,096.14	32.0261018	-103.2434675
14,000.0	90.00	359.47	11,970.0	1,530.4	-992.8	375,038.22	879,095.22	32.0263767	-103.2434672
14,100.0	90.00	359.47	11,970.0	1,630.4	-993.8	375,138.22	879,094.30	32.0266516	-103.2434669
14,200.0	90.00	359.47	11,970.0	1,730.4	-994.7	375,238.21	879,093.37	32.0269264	-103.2434667
14,300.0	90.00	359.47	11,970.0	1,830.4	-995.6	375,338.21	879,092.45	32.0272013	-103.2434664
14,400.0	90.00	359.47	11,970.0	1,930.4	-996.5	375,438.21	879,091.52	32.0274762	-103.2434661
14,500.0	90.00	359.47	11,970.0	2,030.4	-997.5	375,538.20	879,090.60	32.0277510	-103.2434658
14,600.0	90.00	359.47	11,970.0	2,130.4	-998.4	375,638.20	879,089.67	32.0280259	-103.2434656
14,700.0	90.00	359.47	11,970.0	2,230.4	-999.3	375,738.19	879,088.75	32.0283008	-103.2434653
14,800.0	90.00	359.47	11,970.0	2,330.4	-1,000.2	375,838.19	879,087.83	32.0285756	-103.2434650
14,900.0	90.00	359.47	11,970.0	2,430.4	-1,001.2	375,938.18	879,086.90	32.0288505	-103.2434648
15,000.0	90.00	359.47	11,970.0	2,530.4	-1,002.1	376,038.18	879,085.98	32.0291253	-103.2434645
15,100.0	90.00	359.47	11,970.0	2,630.4	-1,003.0	376,138.18	879,085.05	32.0294002	-103.2434642

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Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well HOGAN BRIDGE ST COM 26 36 23 121H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2937.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2937.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	**North Reference:**	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 121H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	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
15,200.0	90.00	359.47	11,970.0	2,730.4	-1,003.9	376,238.17	879,084.13	32.0296751	-103.2434639
15,300.0	90.00	359.47	11,970.0	2,830.4	-1,004.9	376,338.17	879,083.20	32.0299499	-103.2434637
15,400.0	90.00	359.47	11,970.0	2,930.3	-1,005.8	376,438.16	879,082.28	32.0302248	-103.2434634
15,500.0	90.00	359.47	11,970.0	3,030.3	-1,006.7	376,538.16	879,081.35	32.0304997	-103.2434631
15,600.0	90.00	359.47	11,970.0	3,130.3	-1,007.6	376,638.16	879,080.43	32.0307745	-103.2434628
15,700.0	90.00	359.47	11,970.0	3,230.3	-1,008.6	376,738.15	879,079.51	32.0310494	-103.2434626
15,800.0	90.00	359.47	11,970.0	3,330.3	-1,009.5	376,838.15	879,078.58	32.0313242	-103.2434623
15,900.0	90.00	359.47	11,970.0	3,430.3	-1,010.4	376,938.14	879,077.66	32.0315991	-103.2434620
16,000.0	90.00	359.47	11,970.0	3,530.3	-1,011.3	377,038.14	879,076.73	32.0318740	-103.2434618
16,100.0	90.00	359.47	11,970.0	3,630.3	-1,012.3	377,138.13	879,075.81	32.0321488	-103.2434615
16,200.0	90.00	359.47	11,970.0	3,730.3	-1,013.2	377,238.13	879,074.88	32.0324237	-103.2434612
16,300.0	90.00	359.47	11,970.0	3,830.3	-1,014.1	377,338.13	879,073.96	32.0326986	-103.2434609
16,400.0	90.00	359.47	11,970.0	3,930.3	-1,015.0	377,438.12	879,073.04	32.0329734	-103.2434607
16,500.0	90.00	359.47	11,970.0	4,030.3	-1,015.9	377,538.12	879,072.11	32.0332483	-103.2434604
16,600.0	90.00	359.47	11,970.0	4,130.3	-1,016.9	377,638.11	879,071.19	32.0335232	-103.2434601
16,700.0	90.00	359.47	11,970.0	4,230.3	-1,017.8	377,738.11	879,070.26	32.0337980	-103.2434598
16,800.0	90.00	359.47	11,970.0	4,330.3	-1,018.7	377,838.10	879,069.34	32.0340729	-103.2434596
16,900.0	90.00	359.47	11,970.0	4,430.3	-1,019.6	377,938.10	879,068.41	32.0343477	-103.2434593
17,000.0	90.00	359.47	11,970.0	4,530.3	-1,020.6	378,038.10	879,067.49	32.0346226	-103.2434590
17,100.0	90.00	359.47	11,970.0	4,630.3	-1,021.5	378,138.09	879,066.56	32.0348975	-103.2434587
17,200.0	90.00	359.47	11,970.0	4,730.3	-1,022.4	378,238.09	879,065.64	32.0351723	-103.2434585
17,300.0	90.00	359.47	11,970.0	4,830.3	-1,023.3	378,338.08	879,064.72	32.0354472	-103.2434582
17,400.0	90.00	359.47	11,970.0	4,930.3	-1,024.3	378,438.08	879,063.79	32.0357221	-103.2434579
17,500.0	90.00	359.47	11,970.0	5,030.3	-1,025.2	378,538.07	879,062.87	32.0359969	-103.2434577
17,600.0	90.00	359.47	11,970.0	5,130.3	-1,026.1	378,638.07	879,061.94	32.0362718	-103.2434574
17,700.0	90.00	359.47	11,970.0	5,230.2	-1,027.0	378,738.07	879,061.02	32.0365466	-103.2434571
17,800.0	90.00	359.47	11,970.0	5,330.2	-1,028.0	378,838.06	879,060.09	32.0368215	-103.2434568
17,900.0	90.00	359.47	11,970.0	5,430.2	-1,028.9	378,938.06	879,059.17	32.0370964	-103.2434566
18,000.0	90.00	359.47	11,970.0	5,530.2	-1,029.8	379,038.05	879,058.24	32.0373712	-103.2434563
18,100.0	90.00	359.47	11,970.0	5,630.2	-1,030.7	379,138.05	879,057.32	32.0376461	-103.2434560
18,200.0	90.00	359.47	11,970.0	5,730.2	-1,031.7	379,238.04	879,056.40	32.0379210	-103.2434557
18,300.0	90.00	359.47	11,970.0	5,830.2	-1,032.6	379,338.04	879,055.47	32.0381958	-103.2434555
18,400.0	90.00	359.47	11,970.0	5,930.2	-1,033.5	379,438.04	879,054.55	32.0384707	-103.2434552
18,500.0	90.00	359.47	11,970.0	6,030.2	-1,034.4	379,538.03	879,053.62	32.0387455	-103.2434549
18,600.0	90.00	359.47	11,970.0	6,130.2	-1,035.4	379,638.03	879,052.70	32.0390204	-103.2434546
18,700.0	90.00	359.47	11,970.0	6,230.2	-1,036.3	379,738.02	879,051.77	32.0392953	-103.2434544
18,800.0	90.00	359.47	11,970.0	6,330.2	-1,037.2	379,838.02	879,050.85	32.0395701	-103.2434541
18,900.0	90.00	359.47	11,970.0	6,430.2	-1,038.1	379,938.01	879,049.93	32.0398450	-103.2434538
19,000.0	90.00	359.47	11,970.0	6,530.2	-1,039.1	380,038.01	879,049.00	32.0401199	-103.2434536
19,100.0	90.00	359.47	11,970.0	6,630.2	-1,040.0	380,138.01	879,048.08	32.0403947	-103.2434533
19,200.0	90.00	359.47	11,970.0	6,730.2	-1,040.9	380,238.00	879,047.15	32.0406696	-103.2434530
19,300.0	90.00	359.47	11,970.0	6,830.2	-1,041.8	380,338.00	879,046.23	32.0409444	-103.2434527
19,400.0	90.00	359.47	11,970.0	6,930.2	-1,042.8	380,437.99	879,045.30	32.0412193	-103.2434525
19,500.0	90.00	359.47	11,970.0	7,030.2	-1,043.7	380,537.99	879,044.38	32.0414942	-103.2434522
19,600.0	90.00	359.47	11,970.0	7,130.2	-1,044.6	380,637.98	879,043.45	32.0417690	-103.2434519
19,700.0	90.00	359.47	11,970.0	7,230.2	-1,045.5	380,737.98	879,042.53	32.0420439	-103.2434516
19,800.0	90.00	359.47	11,970.0	7,330.2	-1,046.5	380,837.98	879,041.61	32.0423188	-103.2434514
19,900.0	90.00	359.47	11,970.0	7,430.2	-1,047.4	380,937.97	879,040.68	32.0425936	-103.2434511
20,000.0	90.00	359.47	11,970.0	7,530.2	-1,048.3	381,037.97	879,039.76	32.0428685	-103.2434508
20,100.0	90.00	359.47	11,970.0	7,630.1	-1,049.2	381,137.96	879,038.83	32.0431433	-103.2434505
20,200.0	90.00	359.47	11,970.0	7,730.1	-1,050.2	381,237.96	879,037.91	32.0434182	-103.2434503
20,300.0	90.00	359.47	11,970.0	7,830.1	-1,051.1	381,337.95	879,036.98	32.0436931	-103.2434500
20,400.0	90.00	359.47	11,970.0	7,930.1	-1,052.0	381,437.95	879,036.06	32.0439679	-103.2434497
20,500.0	90.00	359.47	11,970.0	8,030.1	-1,052.9	381,537.95	879,035.13	32.0442428	-103.2434494

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Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well HOGAN BRIDGE ST COM 26 36 23 121H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2937.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2937.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	**North Reference:**	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 121H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	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
20,600.0	90.00	359.47	11,970.0	8,130.1	-1,053.8	381,637.94	879,034.21	32.0445177	-103.2434492
20,700.0	90.00	359.47	11,970.0	8,230.1	-1,054.8	381,737.94	879,033.29	32.0447925	-103.2434489
20,800.0	90.00	359.47	11,970.0	8,330.1	-1,055.7	381,837.93	879,032.36	32.0450674	-103.2434486
20,900.0	90.00	359.47	11,970.0	8,430.1	-1,056.6	381,937.93	879,031.44	32.0453422	-103.2434483
21,000.0	90.00	359.47	11,970.0	8,530.1	-1,057.5	382,037.92	879,030.51	32.0456171	-103.2434481
21,100.0	90.00	359.47	11,970.0	8,630.1	-1,058.5	382,137.92	879,029.59	32.0458920	-103.2434478
21,200.0	90.00	359.47	11,970.0	8,730.1	-1,059.4	382,237.92	879,028.66	32.0461668	-103.2434475
21,300.0	90.00	359.47	11,970.0	8,830.1	-1,060.3	382,337.91	879,027.74	32.0464417	-103.2434472
21,400.0	90.00	359.47	11,970.0	8,930.1	-1,061.2	382,437.91	879,026.82	32.0467166	-103.2434470
21,500.0	90.00	359.47	11,970.0	9,030.1	-1,062.2	382,537.90	879,025.89	32.0469914	-103.2434467
21,600.0	90.00	359.47	11,970.0	9,130.1	-1,063.1	382,637.90	879,024.97	32.0472663	-103.2434464
21,700.0	90.00	359.47	11,970.0	9,230.1	-1,064.0	382,737.89	879,024.04	32.0475411	-103.2434462
21,800.0	90.00	359.47	11,970.0	9,330.1	-1,064.9	382,837.89	879,023.12	32.0478160	-103.2434459
21,900.0	90.00	359.47	11,970.0	9,430.1	-1,065.9	382,937.89	879,022.19	32.0480909	-103.2434456
22,000.0	90.00	359.47	11,970.0	9,530.1	-1,066.8	383,037.88	879,021.27	32.0483657	-103.2434453
22,100.0	90.00	359.47	11,970.0	9,630.1	-1,067.7	383,137.88	879,020.34	32.0486406	-103.2434451
22,200.0	90.00	359.47	11,970.0	9,730.1	-1,068.6	383,237.87	879,019.42	32.0489155	-103.2434448
22,300.0	90.00	359.47	11,970.0	9,830.1	-1,069.6	383,337.87	879,018.50	32.0491903	-103.2434445
22,400.0	90.00	359.47	11,970.0	9,930.0	-1,070.5	383,437.86	879,017.57	32.0494652	-103.2434442
22,500.0	90.00	359.47	11,970.0	10,030.0	-1,071.4	383,537.86	879,016.65	32.0497400	-103.2434440
22,600.0	90.00	359.47	11,970.0	10,130.0	-1,072.3	383,637.86	879,015.72	32.0500149	-103.2434437
22,700.0	90.00	359.47	11,970.0	10,230.0	-1,073.3	383,737.85	879,014.80	32.0502898	-103.2434434
22,740.7	90.00	359.47	11,970.0	10,270.7	-1,073.6	383,778.51	879,014.42	32.0504015	-103.2434433
TD at 22740.7									

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
BHL (HBSC 121H) - plan hits target center - Point	0.00	0.00	11,970.0	10,270.7	-1,073.6	383,778.51	879,014.42	32.0504015	-103.2434433
LTP (HBSC 121H) - plan hits target center - Point	0.00	0.00	11,970.0	10,220.7	-1,073.2	383,728.52	879,014.87	32.0502641	-103.2434435
FTP (HBSC 121H) - plan misses target center by 0.2usft at 12329.3usft MD (11970.0 TVD, -140.2 N, -977.4 E) - Point	0.00	0.00	11,970.0	-140.2	-977.6	373,367.58	879,110.47	32.0217845	-103.2434724

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Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well HOGAN BRIDGE ST COM 26 36 23 121H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2937.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2937.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	**North Reference:**	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 121H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,935.8	1,928.0	Rustler			
2,318.5	2,306.0	Salado			
3,165.0	3,142.0	Tansill			
3,689.4	3,660.0	Capitan			
5,029.9	4,984.0	Lamar			
5,337.7	5,288.0	Bell Canyon			
6,680.2	6,614.0	Brushy Canyon			
7,379.9	7,305.0	Bone Spring Lime			
9,324.8	9,236.0	First Bone Spring			
9,812.8	9,724.0	Second Bone Spring			
10,634.8	10,546.0	Third Bone Spring Lime			
11,286.8	11,198.0	Third Bone Spring			
11,419.8	11,331.0	Wolfcamp			
11,818.4	11,720.0	Wolfcamp B			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,000.0	1,000.0	0.0	0.0	Start Build 2.00
1,450.0	1,448.2	-18.9	-29.8	Start 6909.6 hold at 1450.0 MD
8,359.6	8,272.7	-596.8	-943.2	Start Drop -2.00
8,809.6	8,720.8	-615.7	-973.0	Start 2771.7 hold at 8809.6 MD
11,581.3	11,492.5	-615.7	-973.0	KOP-Start DLS 12.00 TFO 359.47
12,331.3	11,970.0	-138.3	-977.4	LP-Start 10409.4 hold at 12331.3 MD
22,740.7	11,970.0	10,270.7	-1,073.6	TD at 22740.7

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:** 06/21/2023

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
Hogan Bridge 26 36 23 State Com 121H	30025-		230' FSL & 1309' FWL	101	1,664	241
Hogan Bridge 26 36 23 State Com 123H	30025-		230' FSL & 1349' FWL	101	1,664	241
Hogan Bridge 26 36 23 State Com 125H	30025-		230' FSL & 1680' FEL	101	1,664	241
Hogan Bridge 26 36 23 State Com 127H	30025-		230' FSL & 1640' FEL	101	1,664	241

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
Hogan Bridge 26 36 23 State Com 121H	30025-	09/01/2024	10/15/2024	11/15/2024	12/01/2024	12/04/2024
Hogan Bridge 26 36 23 State Com 123H	30025-	09/01/2024	10/15/2024	11/15/2024	12/01/2024	12/04/2024
Hogan Bridge 26 36 23 State Com 125H	30025-	09/01/2024	10/15/2024	11/15/2024	12/01/2024	12/04/2024
Hogan Bridge 26 36 23 State Com 127H	30025-	09/01/2024	10/15/2024	11/15/2024	12/01/2024	12/04/2024

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: Cesca Yu
Printed Name: Cesca Yu
Title: Engineer
E-mail Address: cyu@ameredev.com
Date: 06/21/2023
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/H2S 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