

**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 343426

**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 30-025-51655
4. Property Code 334187	5. Property Name NELSON BRIDGE 26 36 26 STATE COM	6. Well No. 121H

**7. Surface Location**

UL - Lot M	Section 23	Township 26S	Range 36E	Lot Idn M	Feet From 230	N/S Line S	Feet From 1329	E/W Line W	County Lea
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**8. Proposed Bottom Hole Location**

UL - Lot E	Section 35	Township 26S	Range 36E	Lot Idn 4	Feet From 50	N/S Line S	Feet From 331	E/W Line W	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 2910
16. Multiple N	17. Proposed Depth 19851	18. Formation Wolfcamp	19. Contractor	20. Spud Date 9/15/2024
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	1666	2052	0
Int1	9.875	7.625	29.7	10672	3172	0
Prod	6.75	5.5	23	19851	1545	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 <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.	<b>OIL CONSERVATION DIVISION</b>	
Signature:		
Printed Name: Electronically filed by Christie Hanna	Approved By: Paul F Kautz	
Title: Regulatory	Title: Geologist	
Email Address: channa@ameredev.com	Approved Date: 6/27/2023	Expiration Date: 6/27/2025
Date: 6/23/2023	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

<sup>1</sup> API Number <b>30-025-51655</b>		<sup>2</sup> Pool Code <b>98234</b>		<sup>3</sup> Pool Name <b>WC-025 G-09 S263619C;WOLFCAMP</b>	
<sup>4</sup> Property Code <b>334187</b>		<sup>5</sup> Property Name <b>NELSON BRIDGE 26 36 26 STATE COM</b>			<sup>6</sup> Well Number <b>121H</b>
<sup>7</sup> OGRID No. <b>372224</b>		<sup>8</sup> Operator Name <b>AMEREDEV OPERATING, LLC.</b>			<sup>9</sup> Elevation <b>2910'</b>
<sup>10</sup> Surface Location					
UL or lot no. <b>M</b>	Section <b>23</b>	Township <b>26-S</b>	Range <b>36-E</b>	Lot Idn <b>-</b>	Feet from the <b>230'</b>
				North/South line <b>SOUTH</b>	Feet from the <b>1329'</b>
				East/West line <b>WEST</b>	County <b>LEA</b>
<sup>11</sup> Bottom Hole Location If Different From Surface					
UL or lot no. <b>4</b>	Section <b>35</b>	Township <b>26-S</b>	Range <b>36-E</b>	Lot Idn <b>-</b>	Feet from the <b>50'</b>
				North/South line <b>SOUTH</b>	Feet from the <b>331'</b>
				East/West line <b>WEST</b>	County <b>LEA</b>
<sup>12</sup> Dedicated Acres <b>233.58</b>		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code <b>C</b>	
<sup>15</sup> Order No.					

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.

	<p>NEW MEXICO EAST NAD 1983</p> <p><u>SURFACE LOCATION (SHL)</u> 230' FSL - SEC. 23 980' FWL - SEC. 23 X=880108 Y=373508 LAT.: N 32.0221426 LONG.: W 103.2402492</p> <p><u>KICK OFF POINT (KOP)</u> <u>FIRST TAKE POINT (FTP)</u> 100' FNL - SEC. 26 331' FWL - SEC. 26 X=879113 Y=373167 LAT.: N 32.0212342 LONG.: W 103.2434705</p> <p><u>LAST TAKE POINT (LTP)</u> 100' FSL - SEC. 35 331' FWL - SEC. 35 X=879184 Y=365660 LAT.: N 32.0005973 LONG.: W 103.2434866</p> <p><u>BOTTOM HOLE LOCATION (BHL)</u> 50' FSL - SEC. 35 331' FWL - SEC. 35 X=879184 Y=365610 LAT.: N 32.0004598 LONG.: W 103.2434867</p>	<p><sup>17</sup>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.</p> <p><i>Floyd Hammond</i> <b>6/18/2023</b> Signature Date</p> <p><b>Floyd Hammond</b> Printed Name</p> <p><b>fhammond@amerev.com</b> E-mail Address</p> <p><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.</p> <p><b>06/03/2023</b> Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p> Certificate Number</p>
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**Santa Fe, NM 87505**

Form APD Conditions

Permit 343426

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: AMEREDEV OPERATING, LLC [372224] 2901 Via Fortuna Austin, TX 78746	API Number: 30-025-51655
	Well: NELSON BRIDGE 26 36 26 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



Ameredev II, LLC

## Wellbore Schematic

**Well:** Nelson Bridge 26 36 26 State Com 121H  
**SHL:** Sec. 23 26S-36E 230' FSL & 1329' FWL  
**BHL:** Sec. 35 26S-36E 50' FSL & 330' FWL  
 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:** 2,910'  
**Field:** Delaware  
**Objective:** Wolfcamp B  
**TVD:** 11,950'  
**MD:** 19,851'  
**Rig:** TBD **KB 27'**  
**E-Mail:** [Wellsite2@ameredev.com](mailto:Wellsite2@ameredev.com)

Hole Size	Formation Tops	Logs	Cement	Mud Weight
17.5"	Rustler 1,927'	1,666 Sacks	TOC 0'	8.4-8.6 ppg WBM
	<b>13.375" 68# J-55 BTC 2,052'</b>			
12.25"	Salado 2,304'	799 Sacks	TOC 0'	7.5-9.4 Diesel Brine Emulsion
	DV Tool with ACP 3,142'		50% Excess	
	Tansill 3,142'			
	Capitan Reef 3,660'			
	Lamar 4,984'			
	<b>No Casing 5,109'</b>			
9.875"	Bell Canyon 5,288'			
	Brushy Canyon 6,613'			
	Bone Spring Lime 7,304'			
	First Bone Spring 9,235'			
	Second Bone Spring 9,723'			
	Third Bone Spring Upper 10,547'			
	<b>7.625" 29.7# L-80HC BTC 10,672'</b>	2,373 Sacks	TOC 0'	50% Excess
6.75"	Third Bone Spring 11,199'			10.5-12.5 ppg OBM
12° Build @ 11,542' MD thru 12,292' MD	Wolfcamp A 11,331'			
	Wolfcamp B 11,720'			
	<b>5.5" 23# P-110 USS-Eagle SFH 19,851'</b>	1,545 Sacks	TOC 0'	
	<b>Target Wolfcamp B 11950 TVD // 19851 MD</b>		25% Excess	



## **Ameredev Operating**

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

**HOGAN/NELSON BRIDGE PROJECT**

**NELSON BRIDGE 26 36 26 STATE COM 121H**

**OWB**

**Plan: PWP**

## **Standard Planning Report - Geographic**

**15 June, 2023**



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well NELSON BRIDGE ST COM 26 36 26 121H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=27' @ 2937.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=27' @ 2937.0usft
<b>Site:</b>	HOGAN/NELSON BRIDGE PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	NELSON BRIDGE ST COM 26 36 26 121H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<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		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		NELSON BRIDGE ST COM 26 36 26 121H				
Well Position	+N/-S	0.0 usft	Northing:	373,507.95 usft	Latitude:	32.0221426
	+E/-W	0.0 usft	Easting:	880,108.14 usft	Longitude:	-103.2402492
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	2,910.0 usft
Grid Convergence:		0.58 °				

<b>Wellbore</b>	OWB
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/12/2023	6.14	59.70	47,203.02987410

<b>Design</b>	PWP
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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	179.46

<b>Plan Survey Tool Program</b>	<b>Date</b>	6/15/2023			
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.0	19,850.6 PWP (OWB)	MWD		
			OWSG MWD - Standard		



## Planning Report - Geographic

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<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=27' @ 2937.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=27' @ 2937.0usft
<b>Site:</b>	HOGAN/NELSON BRIDGE PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	NELSON BRIDGE ST COM 26 36 26 121H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,400.0	8.00	277.83	1,398.7	3.8	-27.6	2.00	2.00	0.00	277.83	
8,252.3	8.00	277.83	8,184.3	133.7	-972.4	0.00	0.00	0.00	0.00	
8,652.3	0.00	0.00	8,583.0	137.5	-1,000.0	2.00	-2.00	0.00	180.00	
11,541.8	0.00	0.00	11,472.5	137.5	-1,000.0	0.00	0.00	0.00	0.00	
12,291.8	90.00	179.46	11,950.0	-339.9	-995.5	12.00	12.00	23.93	179.46	
19,850.6	90.00	179.46	11,950.0	-7,898.4	-924.5	0.00	0.00	0.00	0.00	BHL (NBSC 121H)



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well NELSON BRIDGE ST COM 26 36 26 121H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=27' @ 2937.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=27' @ 2937.0usft
<b>Site:</b>	HOGAN/NELSON BRIDGE PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	NELSON BRIDGE ST COM 26 36 26 121H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<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	373,507.95	880,108.14	32.0221426	-103.2402492
100.0	0.00	0.00	100.0	0.0	0.0	373,507.95	880,108.14	32.0221426	-103.2402492
200.0	0.00	0.00	200.0	0.0	0.0	373,507.95	880,108.14	32.0221426	-103.2402492
300.0	0.00	0.00	300.0	0.0	0.0	373,507.95	880,108.14	32.0221426	-103.2402492
400.0	0.00	0.00	400.0	0.0	0.0	373,507.95	880,108.14	32.0221426	-103.2402492
500.0	0.00	0.00	500.0	0.0	0.0	373,507.95	880,108.14	32.0221426	-103.2402492
600.0	0.00	0.00	600.0	0.0	0.0	373,507.95	880,108.14	32.0221426	-103.2402492
700.0	0.00	0.00	700.0	0.0	0.0	373,507.95	880,108.14	32.0221426	-103.2402492
800.0	0.00	0.00	800.0	0.0	0.0	373,507.95	880,108.14	32.0221426	-103.2402492
900.0	0.00	0.00	900.0	0.0	0.0	373,507.95	880,108.14	32.0221426	-103.2402492
1,000.0	0.00	0.00	1,000.0	0.0	0.0	373,507.95	880,108.14	32.0221426	-103.2402492
<b>Start Build 2.00</b>									
1,100.0	2.00	277.83	1,100.0	0.2	-1.7	373,508.18	880,106.42	32.0221433	-103.2402548
1,200.0	4.00	277.83	1,199.8	1.0	-6.9	373,508.90	880,101.23	32.0221454	-103.2402715
1,300.0	6.00	277.83	1,299.5	2.1	-15.5	373,510.08	880,092.60	32.0221489	-103.2402993
1,400.0	8.00	277.83	1,398.7	3.8	-27.6	373,511.74	880,080.52	32.0221538	-103.2403382
<b>Start 6852.3 hold at 1400.0 MD</b>									
1,500.0	8.00	277.83	1,497.7	5.7	-41.4	373,513.64	880,066.74	32.0221594	-103.2403826
1,600.0	8.00	277.83	1,596.8	7.6	-55.2	373,515.54	880,052.95	32.0221650	-103.2404270
1,700.0	8.00	277.83	1,695.8	9.5	-69.0	373,517.43	880,039.16	32.0221706	-103.2404714
1,800.0	8.00	277.83	1,794.8	11.4	-82.8	373,519.33	880,025.37	32.0221762	-103.2405158
1,900.0	8.00	277.83	1,893.8	13.3	-96.6	373,521.22	880,011.59	32.0221818	-103.2405603
1,933.5	8.00	277.83	1,927.0	13.9	-101.2	373,521.86	880,006.97	32.0221837	-103.2405751
<b>Rustler</b>									
2,000.0	8.00	277.83	1,992.9	15.2	-110.3	373,523.12	879,997.80	32.0221874	-103.2406047
2,100.0	8.00	277.83	2,091.9	17.1	-124.1	373,525.01	879,984.01	32.0221930	-103.2406491
2,200.0	8.00	277.83	2,190.9	19.0	-137.9	373,526.91	879,970.22	32.0221986	-103.2406935
2,300.0	8.00	277.83	2,289.9	20.9	-151.7	373,528.81	879,956.44	32.0222042	-103.2407379
2,314.2	8.00	277.83	2,304.0	21.1	-153.7	373,529.07	879,954.48	32.0222050	-103.2407442
<b>Salado</b>									
2,400.0	8.00	277.83	2,389.0	22.8	-165.5	373,530.70	879,942.65	32.0222098	-103.2407824
2,500.0	8.00	277.83	2,488.0	24.7	-179.3	373,532.60	879,928.86	32.0222154	-103.2408268
2,600.0	8.00	277.83	2,587.0	26.5	-193.1	373,534.49	879,915.07	32.0222210	-103.2408712
2,700.0	8.00	277.83	2,686.1	28.4	-206.9	373,536.39	879,901.29	32.0222266	-103.2409156
2,800.0	8.00	277.83	2,785.1	30.3	-220.6	373,538.28	879,887.50	32.0222321	-103.2409600
2,900.0	8.00	277.83	2,884.1	32.2	-234.4	373,540.18	879,873.71	32.0222377	-103.2410045
3,000.0	8.00	277.83	2,983.1	34.1	-248.2	373,542.08	879,859.92	32.0222433	-103.2410489
3,100.0	8.00	277.83	3,082.2	36.0	-262.0	373,543.97	879,846.14	32.0222489	-103.2410933
3,160.4	8.00	277.83	3,142.0	37.2	-270.3	373,545.12	879,837.80	32.0222523	-103.2411201
<b>Tansill</b>									
3,200.0	8.00	277.83	3,181.2	37.9	-275.8	373,545.87	879,832.35	32.0222545	-103.2411377
3,300.0	8.00	277.83	3,280.2	39.8	-289.6	373,547.76	879,818.56	32.0222601	-103.2411821
3,400.0	8.00	277.83	3,379.2	41.7	-303.4	373,549.66	879,804.77	32.0222657	-103.2412265
3,500.0	8.00	277.83	3,478.3	43.6	-317.2	373,551.56	879,790.99	32.0222713	-103.2412710
3,600.0	8.00	277.83	3,577.3	45.5	-330.9	373,553.45	879,777.20	32.0222769	-103.2413154
3,683.5	8.00	277.83	3,660.0	47.1	-342.5	373,555.03	879,765.68	32.0222816	-103.2413525
<b>Capitan</b>									
3,700.0	8.00	277.83	3,676.3	47.4	-344.7	373,555.35	879,763.41	32.0222825	-103.2413598
3,800.0	8.00	277.83	3,775.3	49.3	-358.5	373,557.24	879,749.62	32.0222881	-103.2414042
3,900.0	8.00	277.83	3,874.4	51.2	-372.3	373,559.14	879,735.83	32.0222937	-103.2414486
4,000.0	8.00	277.83	3,973.4	53.1	-386.1	373,561.03	879,722.05	32.0222993	-103.2414931
4,100.0	8.00	277.83	4,072.4	55.0	-399.9	373,562.93	879,708.26	32.0223049	-103.2415375
4,200.0	8.00	277.83	4,171.5	56.9	-413.7	373,564.83	879,694.47	32.0223105	-103.2415819





## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well NELSON BRIDGE ST COM 26 36 26 121H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=27' @ 2937.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=27' @ 2937.0usft
<b>Site:</b>	HOGAN/NELSON BRIDGE PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	NELSON BRIDGE ST COM 26 36 26 121H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<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
4,300.0	8.00	277.83	4,270.5	58.8	-427.5	373,566.72	879,680.68	32.0223160	-103.2416263
4,400.0	8.00	277.83	4,369.5	60.7	-441.2	373,568.62	879,666.90	32.0223216	-103.2416707
4,500.0	8.00	277.83	4,468.5	62.6	-455.0	373,570.51	879,653.11	32.0223272	-103.2417152
4,600.0	8.00	277.83	4,567.6	64.5	-468.8	373,572.41	879,639.32	32.0223328	-103.2417596
4,700.0	8.00	277.83	4,666.6	66.4	-482.6	373,574.30	879,625.53	32.0223384	-103.2418040
4,800.0	8.00	277.83	4,765.6	68.3	-496.4	373,576.20	879,611.75	32.0223440	-103.2418484
4,900.0	8.00	277.83	4,864.6	70.2	-510.2	373,578.10	879,597.96	32.0223496	-103.2418928
5,000.0	8.00	277.83	4,963.7	72.0	-524.0	373,579.99	879,584.17	32.0223552	-103.2419372
5,020.5	8.00	277.83	4,984.0	72.4	-526.8	373,580.38	879,581.34	32.0223564	-103.2419464
<b>Lamar</b>									
5,100.0	8.00	277.83	5,062.7	73.9	-537.8	373,581.89	879,570.38	32.0223608	-103.2419817
5,200.0	8.00	277.83	5,161.7	75.8	-551.5	373,583.78	879,556.60	32.0223664	-103.2420261
5,300.0	8.00	277.83	5,260.7	77.7	-565.3	373,585.68	879,542.81	32.0223720	-103.2420705
5,327.5	8.00	277.83	5,288.0	78.3	-569.1	373,586.20	879,539.01	32.0223735	-103.2420827
<b>Bell Canyon</b>									
5,400.0	8.00	277.83	5,359.8	79.6	-579.1	373,587.58	879,529.02	32.0223776	-103.2421149
5,500.0	8.00	277.83	5,458.8	81.5	-592.9	373,589.47	879,515.23	32.0223832	-103.2421593
5,600.0	8.00	277.83	5,557.8	83.4	-606.7	373,591.37	879,501.45	32.0223888	-103.2422038
5,700.0	8.00	277.83	5,656.9	85.3	-620.5	373,593.26	879,487.66	32.0223944	-103.2422482
5,800.0	8.00	277.83	5,755.9	87.2	-634.3	373,595.16	879,473.87	32.0224000	-103.2422926
5,900.0	8.00	277.83	5,854.9	89.1	-648.1	373,597.05	879,460.08	32.0224055	-103.2423370
6,000.0	8.00	277.83	5,953.9	91.0	-661.8	373,598.95	879,446.30	32.0224111	-103.2423814
6,100.0	8.00	277.83	6,053.0	92.9	-675.6	373,600.85	879,432.51	32.0224167	-103.2424259
6,200.0	8.00	277.83	6,152.0	94.8	-689.4	373,602.74	879,418.72	32.0224223	-103.2424703
6,300.0	8.00	277.83	6,251.0	96.7	-703.2	373,604.64	879,404.93	32.0224279	-103.2425147
6,400.0	8.00	277.83	6,350.0	98.6	-717.0	373,606.53	879,391.15	32.0224335	-103.2425591
6,500.0	8.00	277.83	6,449.1	100.5	-730.8	373,608.43	879,377.36	32.0224391	-103.2426035
6,600.0	8.00	277.83	6,548.1	102.4	-744.6	373,610.32	879,363.57	32.0224447	-103.2426479
6,665.5	8.00	277.83	6,613.0	103.6	-753.6	373,611.57	879,354.53	32.0224484	-103.2426771
<b>Brushy Canyon</b>									
6,700.0	8.00	277.83	6,647.1	104.3	-758.4	373,612.22	879,349.78	32.0224503	-103.2426924
6,800.0	8.00	277.83	6,746.1	106.2	-772.1	373,614.12	879,335.99	32.0224559	-103.2427368
6,900.0	8.00	277.83	6,845.2	108.1	-785.9	373,616.01	879,322.21	32.0224615	-103.2427812
7,000.0	8.00	277.83	6,944.2	110.0	-799.7	373,617.91	879,308.42	32.0224671	-103.2428256
7,100.0	8.00	277.83	7,043.2	111.9	-813.5	373,619.80	879,294.63	32.0224727	-103.2428700
7,200.0	8.00	277.83	7,142.3	113.8	-827.3	373,621.70	879,280.84	32.0224783	-103.2429145
7,300.0	8.00	277.83	7,241.3	115.6	-841.1	373,623.60	879,267.06	32.0224838	-103.2429589
7,363.3	8.00	277.83	7,304.0	116.9	-849.8	373,624.80	879,258.32	32.0224874	-103.2429870
<b>Bone Spring Lime</b>									
7,400.0	8.00	277.83	7,340.3	117.5	-854.9	373,625.49	879,253.27	32.0224894	-103.2430033
7,500.0	8.00	277.83	7,439.3	119.4	-868.7	373,627.39	879,239.48	32.0224950	-103.2430477
7,600.0	8.00	277.83	7,538.4	121.3	-882.5	373,629.28	879,225.69	32.0225006	-103.2430921
7,700.0	8.00	277.83	7,637.4	123.2	-896.2	373,631.18	879,211.91	32.0225062	-103.2431366
7,800.0	8.00	277.83	7,736.4	125.1	-910.0	373,633.07	879,198.12	32.0225118	-103.2431810
7,900.0	8.00	277.83	7,835.4	127.0	-923.8	373,634.97	879,184.33	32.0225174	-103.2432254
8,000.0	8.00	277.83	7,934.5	128.9	-937.6	373,636.87	879,170.54	32.0225230	-103.2432698
8,100.0	8.00	277.83	8,033.5	130.8	-951.4	373,638.76	879,156.76	32.0225286	-103.2433142
8,200.0	8.00	277.83	8,132.5	132.7	-965.2	373,640.66	879,142.97	32.0225342	-103.2433586
8,252.3	8.00	277.83	8,184.3	133.7	-972.4	373,641.65	879,135.76	32.0225371	-103.2433819
<b>Start Drop -2.00</b>									
8,300.0	7.05	277.83	8,231.6	134.6	-978.6	373,642.50	879,129.57	32.0225396	-103.2434018
8,400.0	5.05	277.83	8,331.0	136.0	-989.0	373,643.93	879,119.14	32.0225439	-103.2434354
8,500.0	3.05	277.83	8,430.8	136.9	-996.0	373,644.89	879,112.15	32.0225467	-103.2434579



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well NELSON BRIDGE ST COM 26 36 26 121H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=27' @ 2937.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=27' @ 2937.0usft
<b>Site:</b>	HOGAN/NELSON BRIDGE PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	NELSON BRIDGE ST COM 26 36 26 121H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<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	
8,600.0	1.05	277.83	8,530.7	137.4	-999.5	373,645.38	879,108.62	32.0225481	-103.2434693	
8,652.3	0.00	0.00	8,583.0	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
Start 2889.5 hold at 8652.3 MD										
8,700.0	0.00	0.00	8,630.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
8,800.0	0.00	0.00	8,730.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
8,900.0	0.00	0.00	8,830.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
9,000.0	0.00	0.00	8,930.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
9,100.0	0.00	0.00	9,030.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
9,200.0	0.00	0.00	9,130.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
9,300.0	0.00	0.00	9,230.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
9,304.3	0.00	0.00	9,235.0	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
First Bone Spring										
9,400.0	0.00	0.00	9,330.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
9,500.0	0.00	0.00	9,430.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
9,600.0	0.00	0.00	9,530.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
9,700.0	0.00	0.00	9,630.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
9,792.3	0.00	0.00	9,723.0	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
Second Bone Spring										
9,800.0	0.00	0.00	9,730.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
9,900.0	0.00	0.00	9,830.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
10,000.0	0.00	0.00	9,930.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
10,100.0	0.00	0.00	10,030.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
10,200.0	0.00	0.00	10,130.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
10,300.0	0.00	0.00	10,230.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
10,400.0	0.00	0.00	10,330.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
10,500.0	0.00	0.00	10,430.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
10,600.0	0.00	0.00	10,530.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
10,616.3	0.00	0.00	10,547.0	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
Third Bone Spring Lime										
10,700.0	0.00	0.00	10,630.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
10,800.0	0.00	0.00	10,730.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
10,900.0	0.00	0.00	10,830.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
11,000.0	0.00	0.00	10,930.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
11,100.0	0.00	0.00	11,030.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
11,200.0	0.00	0.00	11,130.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
11,268.3	0.00	0.00	11,199.0	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
Third Bone Spring										
11,300.0	0.00	0.00	11,230.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
11,400.0	0.00	0.00	11,330.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
11,400.3	0.00	0.00	11,331.0	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
Wolfcamp										
11,500.0	0.00	0.00	11,430.7	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
11,541.8	0.00	0.00	11,472.5	137.5	-1,000.0	373,645.45	879,108.14	32.0225483	-103.2434708	
KOP-Start DLS 12.00 TFO 179.46										
11,550.0	0.99	179.46	11,480.7	137.4	-1,000.0	373,645.38	879,108.15	32.0225481	-103.2434708	
11,575.0	3.99	179.46	11,505.7	136.3	-1,000.0	373,644.29	879,108.16	32.0225451	-103.2434708	
11,600.0	6.99	179.46	11,530.6	134.0	-1,000.0	373,641.90	879,108.18	32.0225386	-103.2434708	
11,625.0	9.99	179.46	11,555.3	130.3	-999.9	373,638.21	879,108.21	32.0225284	-103.2434709	
11,650.0	12.99	179.46	11,579.8	125.3	-999.9	373,633.24	879,108.26	32.0225147	-103.2434709	
11,675.0	15.99	179.46	11,604.0	119.0	-999.8	373,626.98	879,108.32	32.0224976	-103.2434709	
11,700.0	18.99	179.46	11,627.8	111.5	-999.8	373,619.47	879,108.39	32.0224769	-103.2434709	
11,725.0	21.99	179.46	11,651.3	102.8	-999.7	373,610.72	879,108.47	32.0224529	-103.2434709	
11,750.0	24.99	179.46	11,674.2	92.8	-999.6	373,600.76	879,108.56	32.0224255	-103.2434709	



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well NELSON BRIDGE ST COM 26 36 26 121H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=27' @ 2937.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=27' @ 2937.0usft
<b>Site:</b>	HOGAN/NELSON BRIDGE PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	NELSON BRIDGE ST COM 26 36 26 121H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<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
11,775.0	27.99	179.46	11,696.6	81.7	-999.5	373,589.61	879,108.67	32.0223948	-103.2434710
11,800.0	30.99	179.46	11,718.3	69.4	-999.4	373,577.31	879,108.78	32.0223610	-103.2434710
11,802.0	31.22	179.46	11,720.0	68.3	-999.4	373,576.29	879,108.79	32.0223582	-103.2434710
<b>Wolfcamp B</b>									
11,825.0	33.99	179.46	11,739.4	55.9	-999.2	373,563.89	879,108.91	32.0223241	-103.2434710
11,850.0	36.99	179.46	11,759.8	41.4	-999.1	373,549.38	879,109.05	32.0222842	-103.2434711
11,875.0	39.99	179.46	11,779.3	25.9	-999.0	373,533.82	879,109.19	32.0222415	-103.2434711
11,900.0	42.99	179.46	11,798.0	9.3	-998.8	373,517.26	879,109.35	32.0221960	-103.2434711
11,925.0	45.99	179.46	11,815.9	-8.2	-998.6	373,499.75	879,109.51	32.0221478	-103.2434712
11,950.0	48.99	179.46	11,832.8	-26.6	-998.5	373,481.32	879,109.69	32.0220972	-103.2434712
11,975.0	51.99	179.46	11,848.7	-45.9	-998.3	373,462.04	879,109.87	32.0220442	-103.2434712
12,000.0	54.99	179.46	11,863.5	-66.0	-998.1	373,441.95	879,110.06	32.0219889	-103.2434713
12,025.0	57.99	179.46	11,877.4	-86.8	-997.9	373,421.11	879,110.25	32.0219317	-103.2434713
12,050.0	60.99	179.46	11,890.0	-108.4	-997.7	373,399.57	879,110.45	32.0218725	-103.2434714
12,075.0	63.99	179.46	11,901.6	-130.5	-997.5	373,377.40	879,110.66	32.0218115	-103.2434714
12,100.0	66.99	179.46	11,912.0	-153.3	-997.3	373,354.66	879,110.88	32.0217490	-103.2434715
12,125.0	69.99	179.46	11,921.1	-176.5	-997.1	373,331.41	879,111.09	32.0216851	-103.2434715
12,150.0	72.99	179.46	11,929.1	-200.2	-996.8	373,307.70	879,111.32	32.0216199	-103.2434716
12,175.0	75.99	179.46	11,935.8	-224.3	-996.6	373,283.62	879,111.54	32.0215537	-103.2434717
12,200.0	78.99	179.46	11,941.2	-248.7	-996.4	373,259.22	879,111.77	32.0214867	-103.2434717
12,225.0	81.99	179.46	11,945.3	-273.4	-996.1	373,234.56	879,112.00	32.0214189	-103.2434718
12,250.0	84.99	179.46	11,948.1	-298.2	-995.9	373,209.73	879,112.24	32.0213506	-103.2434718
12,275.0	87.99	179.46	11,949.7	-323.2	-995.7	373,184.78	879,112.47	32.0212821	-103.2434719
12,291.8	90.00	179.46	11,950.0	-339.9	-995.5	373,168.00	879,112.63	32.0212359	-103.2434719
<b>LP-Start 7558.8 hold at 12291.8 MD</b>									
12,300.0	90.00	179.46	11,950.0	-348.2	-995.4	373,159.78	879,112.71	32.0212133	-103.2434719
12,400.0	90.00	179.46	11,950.0	-448.2	-994.5	373,059.79	879,113.64	32.0209385	-103.2434722
12,500.0	90.00	179.46	11,950.0	-548.2	-993.6	372,959.79	879,114.58	32.0206636	-103.2434724
12,600.0	90.00	179.46	11,950.0	-648.1	-992.6	372,859.80	879,115.52	32.0203888	-103.2434726
12,700.0	90.00	179.46	11,950.0	-748.1	-991.7	372,759.80	879,116.46	32.0201139	-103.2434728
12,800.0	90.00	179.46	11,950.0	-848.1	-990.7	372,659.81	879,117.40	32.0198390	-103.2434730
12,900.0	90.00	179.46	11,950.0	-948.1	-989.8	372,559.81	879,118.34	32.0195642	-103.2434733
13,000.0	90.00	179.46	11,950.0	-1,048.1	-988.9	372,459.82	879,119.28	32.0192893	-103.2434735
13,100.0	90.00	179.46	11,950.0	-1,148.1	-987.9	372,359.82	879,120.22	32.0190144	-103.2434737
13,200.0	90.00	179.46	11,950.0	-1,248.1	-987.0	372,259.82	879,121.16	32.0187396	-103.2434739
13,300.0	90.00	179.46	11,950.0	-1,348.1	-986.0	372,159.83	879,122.10	32.0184647	-103.2434742
13,400.0	90.00	179.46	11,950.0	-1,448.1	-985.1	372,059.83	879,123.04	32.0181898	-103.2434744
13,500.0	90.00	179.46	11,950.0	-1,548.1	-984.2	371,959.84	879,123.98	32.0179150	-103.2434746
13,600.0	90.00	179.46	11,950.0	-1,648.1	-983.2	371,859.84	879,124.91	32.0176401	-103.2434748
13,700.0	90.00	179.46	11,950.0	-1,748.1	-982.3	371,759.85	879,125.85	32.0173653	-103.2434751
13,800.0	90.00	179.46	11,950.0	-1,848.1	-981.4	371,659.85	879,126.79	32.0170904	-103.2434753
13,900.0	90.00	179.46	11,950.0	-1,948.1	-980.4	371,559.86	879,127.73	32.0168155	-103.2434755
14,000.0	90.00	179.46	11,950.0	-2,048.1	-979.5	371,459.86	879,128.67	32.0165407	-103.2434757
14,100.0	90.00	179.46	11,950.0	-2,148.1	-978.5	371,359.86	879,129.61	32.0162658	-103.2434760
14,200.0	90.00	179.46	11,950.0	-2,248.1	-977.6	371,259.87	879,130.55	32.0159909	-103.2434762
14,300.0	90.00	179.46	11,950.0	-2,348.1	-976.7	371,159.87	879,131.49	32.0157161	-103.2434764
14,400.0	90.00	179.46	11,950.0	-2,448.1	-975.7	371,059.88	879,132.43	32.0154412	-103.2434766
14,500.0	90.00	179.46	11,950.0	-2,548.1	-974.8	370,959.88	879,133.37	32.0151663	-103.2434769
14,600.0	90.00	179.46	11,950.0	-2,648.1	-973.8	370,859.89	879,134.31	32.0148915	-103.2434771
14,700.0	90.00	179.46	11,950.0	-2,748.1	-972.9	370,759.89	879,135.24	32.0146166	-103.2434773
14,800.0	90.00	179.46	11,950.0	-2,848.1	-972.0	370,659.90	879,136.18	32.0143418	-103.2434775
14,900.0	90.00	179.46	11,950.0	-2,948.0	-971.0	370,559.90	879,137.12	32.0140669	-103.2434778
15,000.0	90.00	179.46	11,950.0	-3,048.0	-970.1	370,459.90	879,138.06	32.0137920	-103.2434780



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well NELSON BRIDGE ST COM 26 36 26 121H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=27' @ 2937.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=27' @ 2937.0usft
<b>Site:</b>	HOGAN/NELSON BRIDGE PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	NELSON BRIDGE ST COM 26 36 26 121H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<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
15,100.0	90.00	179.46	11,950.0	-3,148.0	-969.1	370,359.91	879,139.00	32.0135172	-103.2434782
15,200.0	90.00	179.46	11,950.0	-3,248.0	-968.2	370,259.91	879,139.94	32.0132423	-103.2434784
15,300.0	90.00	179.46	11,950.0	-3,348.0	-967.3	370,159.92	879,140.88	32.0129674	-103.2434786
15,400.0	90.00	179.46	11,950.0	-3,448.0	-966.3	370,059.92	879,141.82	32.0126926	-103.2434789
15,500.0	90.00	179.46	11,950.0	-3,548.0	-965.4	369,959.93	879,142.76	32.0124177	-103.2434791
15,600.0	90.00	179.46	11,950.0	-3,648.0	-964.4	369,859.93	879,143.70	32.0121428	-103.2434793
15,700.0	90.00	179.46	11,950.0	-3,748.0	-963.5	369,759.93	879,144.64	32.0118680	-103.2434795
15,800.0	90.00	179.46	11,950.0	-3,848.0	-962.6	369,659.94	879,145.58	32.0115931	-103.2434798
15,900.0	90.00	179.46	11,950.0	-3,948.0	-961.6	369,559.94	879,146.51	32.0113183	-103.2434800
16,000.0	90.00	179.46	11,950.0	-4,048.0	-960.7	369,459.95	879,147.45	32.0110434	-103.2434802
16,100.0	90.00	179.46	11,950.0	-4,148.0	-959.8	369,359.95	879,148.39	32.0107685	-103.2434804
16,200.0	90.00	179.46	11,950.0	-4,248.0	-958.8	369,259.96	879,149.33	32.0104937	-103.2434807
16,300.0	90.00	179.46	11,950.0	-4,348.0	-957.9	369,159.96	879,150.27	32.0102188	-103.2434809
16,400.0	90.00	179.46	11,950.0	-4,448.0	-956.9	369,059.97	879,151.21	32.0099439	-103.2434811
16,500.0	90.00	179.46	11,950.0	-4,548.0	-956.0	368,959.97	879,152.15	32.0096691	-103.2434813
16,600.0	90.00	179.46	11,950.0	-4,648.0	-955.1	368,859.97	879,153.09	32.0093942	-103.2434816
16,700.0	90.00	179.46	11,950.0	-4,748.0	-954.1	368,759.98	879,154.03	32.0091193	-103.2434818
16,800.0	90.00	179.46	11,950.0	-4,848.0	-953.2	368,659.98	879,154.97	32.0088445	-103.2434820
16,900.0	90.00	179.46	11,950.0	-4,948.0	-952.2	368,559.99	879,155.91	32.0085696	-103.2434822
17,000.0	90.00	179.46	11,950.0	-5,048.0	-951.3	368,459.99	879,156.84	32.0082947	-103.2434824
17,100.0	90.00	179.46	11,950.0	-5,147.9	-950.4	368,360.00	879,157.78	32.0080199	-103.2434827
17,200.0	90.00	179.46	11,950.0	-5,247.9	-949.4	368,260.00	879,158.72	32.0077450	-103.2434829
17,300.0	90.00	179.46	11,950.0	-5,347.9	-948.5	368,160.01	879,159.66	32.0074702	-103.2434831
17,400.0	90.00	179.46	11,950.0	-5,447.9	-947.5	368,060.01	879,160.60	32.0071953	-103.2434833
17,500.0	90.00	179.46	11,950.0	-5,547.9	-946.6	367,960.01	879,161.54	32.0069204	-103.2434836
17,600.0	90.00	179.46	11,950.0	-5,647.9	-945.7	367,860.02	879,162.48	32.0066456	-103.2434838
17,700.0	90.00	179.46	11,950.0	-5,747.9	-944.7	367,760.02	879,163.42	32.0063707	-103.2434840
17,800.0	90.00	179.46	11,950.0	-5,847.9	-943.8	367,660.03	879,164.36	32.0060958	-103.2434842
17,900.0	90.00	179.46	11,950.0	-5,947.9	-942.8	367,560.03	879,165.30	32.0058210	-103.2434845
18,000.0	90.00	179.46	11,950.0	-6,047.9	-941.9	367,460.04	879,166.24	32.0055461	-103.2434847
18,100.0	90.00	179.46	11,950.0	-6,147.9	-941.0	367,360.04	879,167.17	32.0052712	-103.2434849
18,200.0	90.00	179.46	11,950.0	-6,247.9	-940.0	367,260.04	879,168.11	32.0049964	-103.2434851
18,300.0	90.00	179.46	11,950.0	-6,347.9	-939.1	367,160.05	879,169.05	32.0047215	-103.2434853
18,400.0	90.00	179.46	11,950.0	-6,447.9	-938.2	367,060.05	879,169.99	32.0044466	-103.2434856
18,500.0	90.00	179.46	11,950.0	-6,547.9	-937.2	366,960.06	879,170.93	32.0041718	-103.2434858
18,600.0	90.00	179.46	11,950.0	-6,647.9	-936.3	366,860.06	879,171.87	32.0038969	-103.2434860
18,700.0	90.00	179.46	11,950.0	-6,747.9	-935.3	366,760.07	879,172.81	32.0036221	-103.2434862
18,800.0	90.00	179.46	11,950.0	-6,847.9	-934.4	366,660.07	879,173.75	32.0033472	-103.2434865
18,900.0	90.00	179.46	11,950.0	-6,947.9	-933.5	366,560.08	879,174.69	32.0030723	-103.2434867
19,000.0	90.00	179.46	11,950.0	-7,047.9	-932.5	366,460.08	879,175.63	32.0027975	-103.2434869
19,100.0	90.00	179.46	11,950.0	-7,147.9	-931.6	366,360.08	879,176.57	32.0025226	-103.2434871
19,200.0	90.00	179.46	11,950.0	-7,247.9	-930.6	366,260.09	879,177.51	32.0022477	-103.2434873
19,300.0	90.00	179.46	11,950.0	-7,347.9	-929.7	366,160.09	879,178.44	32.0019729	-103.2434876
19,400.0	90.00	179.46	11,950.0	-7,447.8	-928.8	366,060.10	879,179.38	32.0016980	-103.2434878
19,500.0	90.00	179.46	11,950.0	-7,547.8	-927.8	365,960.10	879,180.32	32.0014231	-103.2434880
19,600.0	90.00	179.46	11,950.0	-7,647.8	-926.9	365,860.11	879,181.26	32.0011483	-103.2434882
19,700.0	90.00	179.46	11,950.0	-7,747.8	-925.9	365,760.11	879,182.20	32.0008734	-103.2434885
19,800.0	90.00	179.46	11,950.0	-7,847.8	-925.0	365,660.12	879,183.14	32.0005985	-103.2434887
19,850.6	90.00	179.46	11,950.0	-7,898.4	-924.5	365,609.54	879,183.62	32.0004595	-103.2434888
TD at 19850.6									



## Planning Report - Geographic

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

## 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
LTP (NBSC 121H) - plan misses target center by 0.4usft at 19800.0usft MD (11950.0 TVD, -7847.8 N, -925.0 E) - Point	0.00	0.00	11,950.0	-7,848.3	-925.0	365,659.67	879,183.17	32.0005973	-103.2434886
BHL (NBSC 121H) - plan hits target center - Point	0.00	0.00	11,950.0	-7,898.4	-924.5	365,609.54	879,183.62	32.0004595	-103.2434888
FTP (NBSC 121H) - plan misses target center by 0.2usft at 12292.2usft MD (11950.0 TVD, -340.4 N, -995.5 E) - Point	0.00	0.00	11,950.0	-340.4	-995.7	373,167.56	879,112.45	32.0212347	-103.2434725

## Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,933.5	1,927.0	Rustler			
2,314.2	2,304.0	Salado			
3,160.4	3,142.0	Tansill			
3,683.5	3,660.0	Capitan			
5,020.5	4,984.0	Lamar			
5,327.5	5,288.0	Bell Canyon			
6,665.5	6,613.0	Brushy Canyon			
7,363.3	7,304.0	Bone Spring Lime			
9,304.3	9,235.0	First Bone Spring			
9,792.3	9,723.0	Second Bone Spring			
10,616.3	10,547.0	Third Bone Spring Lime			
11,268.3	11,199.0	Third Bone Spring			
11,400.3	11,331.0	Wolfcamp			
11,802.0	11,720.0	Wolfcamp B			

## Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,000.0	1,000.0	0.0	0.0	Start Build 2.00
1,400.0	1,398.7	3.8	-27.6	Start 6852.3 hold at 1400.0 MD
8,252.3	8,184.3	133.7	-972.4	Start Drop -2.00
8,652.3	8,583.0	137.5	-1,000.0	Start 2889.5 hold at 8652.3 MD
11,541.8	11,472.5	137.5	-1,000.0	KOP-Start DLS 12.00 TFO 179.46
12,291.8	11,950.0	-339.9	-995.5	LP-Start 7558.8 hold at 12291.8 MD
19,850.6	11,950.0	-7,898.4	-924.5	TD at 19850.6

State of New Mexico  
Energy, Minerals and Natural Resources DepartmentSubmit Electronically  
Via E-permittingOil 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
Nelson Bridge 26 36 26 State Com 121H	30025-		230' FSL & 1329' FWL	101	1,664	241
Nelson Bridge 26 36 26 State Com 123H	30025-		230' FSL & 1369' FWL	101	1,664	241
Nelson Bridge 26 36 26 State Com 125H	30025-		230' FSL & 1660' FEL	101	1,664	241
Nelson Bridge 26 36 26 State Com 127H	30025-		230' FSL & 1620' 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
Nelson Bridge 26 36 26 State Com 121H	30025-	09/15/2024	11/01/2024	12/01/2024	12/15/2024	12/18/2024
Nelson Bridge 26 36 26 State Com 123H	30025-	09/15/2024	11/01/2024	12/01/2024	12/15/2024	12/18/2024
Nelson Bridge 26 36 26 State Com 125H	30025-	09/15/2024	11/01/2024	12/01/2024	12/15/2024	12/18/2024
Nelson Bridge 26 36 26 State Com 127H	30025-	09/15/2024	11/01/2024	12/01/2024	12/15/2024	12/18/2024

**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: 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/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