

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 343568

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 30-025-51671
4. Property Code 334190	5. Property Name HOGAN BRIDGE 26 36 23 STATE COM	6. Well No. 123H

7. Surface Location

UL - Lot M	Section 23	Township 26S	Range 36E	Lot Idn M	Feet From 230	N/S Line S	Feet From 1349	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot C	Section 14	Township 26S	Range 36E	Lot Idn C	Feet From 50	N/S Line N	Feet From 1650	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 22612	18. Formation Wolfcamp	19. Contractor	20. Spud Date 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	1665	2050	0
Int1	9.875	7.625	29.7	10628	3165	0
Prod	6.75	5.5	23	22612	1760	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	TBD

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

Signature:

Printed Name: Electronically filed by Christie Hanna

Title: Regulatory

Email Address: channa@ameredev.com

Date: 6/26/2023

Phone: 737-300-4723

OIL CONSERVATION DIVISION

Approved By: Paul F Kautz

Title: Geologist

Approved Date: 6/29/2023

Expiration Date: 6/29/2025

Conditions of Approval Attached

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State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-51671	² Pool Code 98234	³ Pool Name WC-025 G-09 S263619C; WOLECAMP
⁴ Property Code 334190	⁵ Property Name HOGAN BRIDGE 26 36 23 STATE COM	⁶ Well Number 123H
⁷ GRID No. 372224	⁸ Operator Name AMEREDEV OPERATING, LLC.	⁹ Elevation 2910'

¹⁰Surface 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	1349'	WEST	LEA

¹¹Bottom 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
C	14	26-S	36-E	-	50'	NORTH	1650'	WEST	LEA

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code C	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	NEW MEXICO EAST NAD 1983 <u>SURFACE LOCATION (SHL)</u> 230' FSL - SEC. 23 1349' FWL - SEC. 23 X=880128 Y=373508 LAT.: N 32.0221428 LONG.: W 103.2401848 KICK OFF POINT (KOP) FIRST TAKE POINT (FTP) 100' FSL - SEC. 23 1650' FWL - SEC. 23 X=880430 Y=373381 LAT.: N 32.0217857 LONG.: W 103.2392135 <u>LAST TAKE POINT (LTP)</u> 100' FNL - SEC. 14 1650' FWL - SEC. 14 X=880335 Y=383742 LAT.: N 32.0502642 LONG.: W 103.2391835 <u>BOTTOM HOLE LOCATION (BHL)</u> 50' FNL - SEC. 14 1650' FWL - SEC. 14 X=880334 Y=383792 LAT.: N 32.0504016 LONG.: W 103.2391833	¹⁷OPERATOR 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 involved in 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. <i>Floyd Hammond</i> 6/18/2023 Signature Date Floyd Hammond Printed Name fhammond@ameredev.com E-mail Address ¹⁸SURVEYOR 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 PROFESSIONAL SURVEYOR 25118 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 343568

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: AMEREDEV OPERATING, LLC [372224] 2901 Via Fortuna Austin, TX 78746	API Number: 30-025-51671
	Well: HOGAN BRIDGE 26 36 23 STATE COM #123H

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



Ameredeve II, LLC

Wellbore Schematic

Well: Hogan Bridge 26 36 23 State Com 123H
SHL: Sec. 23 26S-36E 230' FSL & 1349' FWL
BHL: Sec. 14 26S-36E 50' FNL & 1650' 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: 11,887'
MD: 22,612'
Rig: TBD **KB 27'**
E-Mail: Wellsite2@ameredeve.com

Hole Size	Formation Tops	Logs	Cement	Mud Weight
17.5"	Rustler 1,925'	1,665 Sacks	TOC 0'	8.4-8.6 ppg WBM
	13.375" 68# J-55 BTC 2,050'			
12.25"	Salado 2,303'	798 Sacks	TOC 0'	7.5-9.4 Diesel Brine Emulsion
	DV Tool with ACP 3,141'		50% Excess	
	Tansill 3,141'			
	Capitan Reef 3,659'			
	Lamar 4,984'			
	No Casing 5,109'			
9.875"	Bell Canyon 5,288'			
	Brushy Canyon 6,612'			
	Bone Spring Lime 7,302'			
	First Bone Spring 9,235'			
	Second Bone Spring 9,722'	2,367 Sacks	TOC 0'	10.5-12.5 ppg OBM
	Third Bone Spring Upper 10,503'		50% Excess	
	7.625" 29.7# L-80HC BTC 10,628'			
6.75"	Third Bone Spring 11,180'			
12° Build @ 11,439' MD thru 12,189' MD	Wolfcamp A 11,331'			
	Wolfcamp B 11,719'			
	5.5" 23# P-110 USS-Eagle SFH 22,612'	1,760 Sacks	TOC 0'	
	Target Wolfcamp B 11887 TVD // 22612 MD		25% Excess	



Ameredev Operating

Lea County, NM (N83-NME)

HOGAN/NELSON BRIDGE PROJECT

HOGAN BRIDGE 26 36 23 STATE COM 123H

OWB

Plan: PWP

Standard Planning Report - Geographic

14 June, 2023



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well HOGAN BRIDGE ST COM 26 36 23 123H
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 123H	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 123H				
Well Position	+N/-S	0.0 usft	Northing:	373,508.22 usft	Latitude:	32.0221428
	+E/-W	0.0 usft	Easting:	880,128.10 usft	Longitude:	-103.2401848
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	2,910.0 usft
Grid Convergence:		0.58 °				

Wellbore	OWB
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/12/2023	6.14	59.70	47,203.03623942

Design	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	359.47

Plan Survey Tool Program	Date	6/14/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	22,611.6 PWP (OWB)	MWD		
			OWSG MWD - Standard		



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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 123H	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	
1,250.0	5.00	153.42	1,249.7	-9.7	4.9	2.00	2.00	0.00	153.42	
8,898.8	5.00	153.42	8,869.4	-606.0	303.1	0.00	0.00	0.00	0.00	
9,148.8	0.00	0.00	9,119.1	-615.7	308.0	2.00	-2.00	0.00	180.00	
11,439.2	0.00	0.00	11,409.5	-615.7	308.0	0.00	0.00	0.00	0.00	
12,189.2	90.00	359.47	11,887.0	-138.3	303.5	12.00	12.00	-0.07	359.47	
22,611.6	90.00	359.47	11,887.0	10,283.7	206.3	0.00	0.00	0.00	0.00	BHL (HBSC 123H)



Planning Report - Geographic

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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 123H	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	373,508.22	880,128.10	32.0221428	-103.2401848
100.0	0.00	0.00	100.0	0.0	0.0	373,508.22	880,128.10	32.0221428	-103.2401848
200.0	0.00	0.00	200.0	0.0	0.0	373,508.22	880,128.10	32.0221428	-103.2401848
300.0	0.00	0.00	300.0	0.0	0.0	373,508.22	880,128.10	32.0221428	-103.2401848
400.0	0.00	0.00	400.0	0.0	0.0	373,508.22	880,128.10	32.0221428	-103.2401848
500.0	0.00	0.00	500.0	0.0	0.0	373,508.22	880,128.10	32.0221428	-103.2401848
600.0	0.00	0.00	600.0	0.0	0.0	373,508.22	880,128.10	32.0221428	-103.2401848
700.0	0.00	0.00	700.0	0.0	0.0	373,508.22	880,128.10	32.0221428	-103.2401848
800.0	0.00	0.00	800.0	0.0	0.0	373,508.22	880,128.10	32.0221428	-103.2401848
900.0	0.00	0.00	900.0	0.0	0.0	373,508.22	880,128.10	32.0221428	-103.2401848
1,000.0	0.00	0.00	1,000.0	0.0	0.0	373,508.22	880,128.10	32.0221428	-103.2401848
Start Build 2.00									
1,100.0	2.00	153.42	1,100.0	-1.6	0.8	373,506.66	880,128.88	32.0221385	-103.2401823
1,200.0	4.00	153.42	1,199.8	-6.2	3.1	373,501.98	880,131.23	32.0221256	-103.2401749
1,250.0	5.00	153.42	1,249.7	-9.7	4.9	373,498.47	880,132.98	32.0221159	-103.2401694
Start 7648.8 hold at 1250.0 MD									
1,300.0	5.00	153.42	1,299.5	-13.6	6.8	373,494.57	880,134.93	32.0221051	-103.2401632
1,400.0	5.00	153.42	1,399.1	-21.4	10.7	373,486.78	880,138.83	32.0220836	-103.2401509
1,500.0	5.00	153.42	1,498.7	-29.2	14.6	373,478.98	880,142.73	32.0220621	-103.2401386
1,600.0	5.00	153.42	1,598.4	-37.0	18.5	373,471.19	880,146.63	32.0220405	-103.2401262
1,700.0	5.00	153.42	1,698.0	-44.8	22.4	373,463.39	880,150.53	32.0220190	-103.2401139
1,800.0	5.00	153.42	1,797.6	-52.6	26.3	373,455.60	880,154.43	32.0219975	-103.2401016
1,900.0	5.00	153.42	1,897.2	-60.4	30.2	373,447.81	880,158.33	32.0219759	-103.2400893
1,927.9	5.00	153.42	1,925.0	-62.6	31.3	373,445.63	880,159.41	32.0219699	-103.2400858
Rustler									
2,000.0	5.00	153.42	1,996.8	-68.2	34.1	373,440.01	880,162.23	32.0219544	-103.2400769
2,100.0	5.00	153.42	2,096.4	-76.0	38.0	373,432.22	880,166.12	32.0219329	-103.2400646
2,200.0	5.00	153.42	2,196.1	-83.8	41.9	373,424.42	880,170.02	32.0219113	-103.2400523
2,300.0	5.00	153.42	2,295.7	-91.6	45.8	373,416.63	880,173.92	32.0218898	-103.2400400
2,307.3	5.00	153.42	2,303.0	-92.2	46.1	373,416.05	880,174.21	32.0218882	-103.2400391
Salado									
2,400.0	5.00	153.42	2,395.3	-99.4	49.7	373,408.83	880,177.82	32.0218683	-103.2400276
2,500.0	5.00	153.42	2,494.9	-107.2	53.6	373,401.04	880,181.72	32.0218467	-103.2400153
2,600.0	5.00	153.42	2,594.5	-115.0	57.5	373,393.24	880,185.62	32.0218252	-103.2400030
2,700.0	5.00	153.42	2,694.2	-122.8	61.4	373,385.45	880,189.52	32.0218037	-103.2399907
2,800.0	5.00	153.42	2,793.8	-130.6	65.3	373,377.65	880,193.42	32.0217821	-103.2399783
2,900.0	5.00	153.42	2,893.4	-138.4	69.2	373,369.86	880,197.32	32.0217606	-103.2399660
3,000.0	5.00	153.42	2,993.0	-146.2	73.1	373,362.06	880,201.22	32.0217391	-103.2399537
3,100.0	5.00	153.42	3,092.6	-154.0	77.0	373,354.27	880,205.12	32.0217176	-103.2399414
3,148.5	5.00	153.42	3,141.0	-157.7	78.9	373,350.49	880,207.01	32.0217071	-103.2399354
Tansill									
3,200.0	5.00	153.42	3,192.3	-161.7	80.9	373,346.47	880,209.02	32.0216960	-103.2399290
3,300.0	5.00	153.42	3,291.9	-169.5	84.8	373,338.68	880,212.92	32.0216745	-103.2399167
3,400.0	5.00	153.42	3,391.5	-177.3	88.7	373,330.89	880,216.81	32.0216530	-103.2399044
3,500.0	5.00	153.42	3,491.1	-185.1	92.6	373,323.09	880,220.71	32.0216314	-103.2398921
3,600.0	5.00	153.42	3,590.7	-192.9	96.5	373,315.30	880,224.61	32.0216099	-103.2398797
3,668.5	5.00	153.42	3,659.0	-198.3	99.2	373,309.95	880,227.28	32.0215951	-103.2398713
Capitan									
3,700.0	5.00	153.42	3,690.4	-200.7	100.4	373,307.50	880,228.51	32.0215884	-103.2398674
3,800.0	5.00	153.42	3,790.0	-208.5	104.3	373,299.71	880,232.41	32.0215668	-103.2398551
3,900.0	5.00	153.42	3,889.6	-216.3	108.2	373,291.91	880,236.31	32.0215453	-103.2398428
4,000.0	5.00	153.42	3,989.2	-224.1	112.1	373,284.12	880,240.21	32.0215238	-103.2398304
4,100.0	5.00	153.42	4,088.8	-231.9	116.0	373,276.32	880,244.11	32.0215022	-103.2398181



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well HOGAN BRIDGE ST COM 26 36 23 123H
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 123H	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	5.00	153.42	4,188.5	-239.7	119.9	373,268.53	880,248.01	32.0214807	-103.2398058
4,300.0	5.00	153.42	4,288.1	-247.5	123.8	373,260.73	880,251.91	32.0214592	-103.2397935
4,400.0	5.00	153.42	4,387.7	-255.3	127.7	373,252.94	880,255.81	32.0214376	-103.2397811
4,500.0	5.00	153.42	4,487.3	-263.1	131.6	373,245.14	880,259.71	32.0214161	-103.2397688
4,600.0	5.00	153.42	4,586.9	-270.9	135.5	373,237.35	880,263.61	32.0213946	-103.2397565
4,700.0	5.00	153.42	4,686.6	-278.7	139.4	373,229.55	880,267.50	32.0213730	-103.2397442
4,800.0	5.00	153.42	4,786.2	-286.5	143.3	373,221.76	880,271.40	32.0213515	-103.2397318
4,900.0	5.00	153.42	4,885.8	-294.3	147.2	373,213.96	880,275.30	32.0213300	-103.2397195
4,998.6	5.00	153.42	4,984.0	-301.9	151.0	373,206.28	880,279.15	32.0213087	-103.2397074
Lamar									
5,000.0	5.00	153.42	4,985.4	-302.1	151.1	373,206.17	880,279.20	32.0213084	-103.2397072
5,100.0	5.00	153.42	5,085.0	-309.8	155.0	373,198.38	880,283.10	32.0212869	-103.2396949
5,200.0	5.00	153.42	5,184.7	-317.6	158.9	373,190.58	880,287.00	32.0212654	-103.2396825
5,300.0	5.00	153.42	5,284.3	-325.4	162.8	373,182.79	880,290.90	32.0212438	-103.2396702
5,303.7	5.00	153.42	5,288.0	-325.7	162.9	373,182.49	880,291.05	32.0212430	-103.2396698
Bell Canyon									
5,400.0	5.00	153.42	5,383.9	-333.2	166.7	373,174.99	880,294.80	32.0212223	-103.2396579
5,500.0	5.00	153.42	5,483.5	-341.0	170.6	373,167.20	880,298.70	32.0212008	-103.2396456
5,600.0	5.00	153.42	5,583.1	-348.8	174.5	373,159.40	880,302.60	32.0211792	-103.2396332
5,700.0	5.00	153.42	5,682.7	-356.6	178.4	373,151.61	880,306.50	32.0211577	-103.2396209
5,800.0	5.00	153.42	5,782.4	-364.4	182.3	373,143.81	880,310.40	32.0211362	-103.2396086
5,900.0	5.00	153.42	5,882.0	-372.2	186.2	373,136.02	880,314.30	32.0211147	-103.2395963
6,000.0	5.00	153.42	5,981.6	-380.0	190.1	373,128.22	880,318.19	32.0210931	-103.2395839
6,100.0	5.00	153.42	6,081.2	-387.8	194.0	373,120.43	880,322.09	32.0210716	-103.2395716
6,200.0	5.00	153.42	6,180.8	-395.6	197.9	373,112.63	880,325.99	32.0210501	-103.2395593
6,300.0	5.00	153.42	6,280.5	-403.4	201.8	373,104.84	880,329.89	32.0210285	-103.2395470
6,400.0	5.00	153.42	6,380.1	-411.2	205.7	373,097.04	880,333.79	32.0210070	-103.2395346
6,500.0	5.00	153.42	6,479.7	-419.0	209.6	373,089.25	880,337.69	32.0209855	-103.2395223
6,600.0	5.00	153.42	6,579.3	-426.8	213.5	373,081.46	880,341.59	32.0209639	-103.2395100
6,632.8	5.00	153.42	6,612.0	-429.3	214.8	373,078.90	880,342.87	32.0209569	-103.2395060
Brushy Canyon									
6,700.0	5.00	153.42	6,678.9	-434.6	217.4	373,073.66	880,345.49	32.0209424	-103.2394977
6,800.0	5.00	153.42	6,778.6	-442.4	221.3	373,065.87	880,349.39	32.0209209	-103.2394854
6,900.0	5.00	153.42	6,878.2	-450.1	225.2	373,058.07	880,353.29	32.0208993	-103.2394730
7,000.0	5.00	153.42	6,977.8	-457.9	229.1	373,050.28	880,357.19	32.0208778	-103.2394607
7,100.0	5.00	153.42	7,077.4	-465.7	233.0	373,042.48	880,361.09	32.0208563	-103.2394484
7,200.0	5.00	153.42	7,177.0	-473.5	236.9	373,034.69	880,364.99	32.0208347	-103.2394361
7,300.0	5.00	153.42	7,276.7	-481.3	240.8	373,026.89	880,368.89	32.0208132	-103.2394237
7,325.4	5.00	153.42	7,302.0	-483.3	241.8	373,024.91	880,369.88	32.0208077	-103.2394206
Bone Spring Lime									
7,400.0	5.00	153.42	7,376.3	-489.1	244.7	373,019.10	880,372.78	32.0207917	-103.2394114
7,500.0	5.00	153.42	7,475.9	-496.9	248.6	373,011.30	880,376.68	32.0207701	-103.2393991
7,600.0	5.00	153.42	7,575.5	-504.7	252.5	373,003.51	880,380.58	32.0207486	-103.2393868
7,700.0	5.00	153.42	7,675.1	-512.5	256.4	372,995.71	880,384.48	32.0207271	-103.2393744
7,800.0	5.00	153.42	7,774.8	-520.3	260.3	372,987.92	880,388.38	32.0207055	-103.2393621
7,900.0	5.00	153.42	7,874.4	-528.1	264.2	372,980.12	880,392.28	32.0206840	-103.2393498
8,000.0	5.00	153.42	7,974.0	-535.9	268.1	372,972.33	880,396.18	32.0206625	-103.2393375
8,100.0	5.00	153.42	8,073.6	-543.7	272.0	372,964.53	880,400.08	32.0206409	-103.2393251
8,200.0	5.00	153.42	8,173.2	-551.5	275.9	372,956.74	880,403.98	32.0206194	-103.2393128
8,300.0	5.00	153.42	8,272.9	-559.3	279.8	372,948.95	880,407.88	32.0205979	-103.2393005
8,400.0	5.00	153.42	8,372.5	-567.1	283.7	372,941.15	880,411.78	32.0205763	-103.2392882
8,500.0	5.00	153.42	8,472.1	-574.9	287.6	372,933.36	880,415.68	32.0205548	-103.2392758
8,600.0	5.00	153.42	8,571.7	-582.7	291.5	372,925.56	880,419.58	32.0205333	-103.2392635



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well HOGAN BRIDGE ST COM 26 36 23 123H
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 123H	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
8,700.0	5.00	153.42	8,671.3	-590.5	295.4	372,917.77	880,423.47	32.0205118	-103.2392512
8,800.0	5.00	153.42	8,771.0	-598.2	299.3	372,909.97	880,427.37	32.0204902	-103.2392389
8,898.8	5.00	153.42	8,869.4	-606.0	303.1	372,902.27	880,431.23	32.0204689	-103.2392267
Start Drop -2.00									
8,900.0	4.98	153.42	8,870.6	-606.0	303.2	372,902.18	880,431.27	32.0204687	-103.2392265
9,000.0	2.98	153.42	8,970.3	-612.2	306.3	372,895.98	880,434.38	32.0204516	-103.2392167
9,100.0	0.98	153.42	9,070.3	-615.3	307.8	372,892.89	880,435.92	32.0204430	-103.2392119
9,148.8	0.00	0.00	9,119.1	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
Start 2290.4 hold at 9148.8 MD									
9,200.0	0.00	0.00	9,170.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
9,264.7	0.00	0.00	9,235.0	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
First Bone Spring									
9,300.0	0.00	0.00	9,270.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
9,400.0	0.00	0.00	9,370.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
9,500.0	0.00	0.00	9,470.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
9,600.0	0.00	0.00	9,570.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
9,700.0	0.00	0.00	9,670.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
9,751.7	0.00	0.00	9,722.0	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
Second Bone Spring									
9,800.0	0.00	0.00	9,770.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
9,900.0	0.00	0.00	9,870.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
10,000.0	0.00	0.00	9,970.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
10,100.0	0.00	0.00	10,070.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
10,200.0	0.00	0.00	10,170.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
10,300.0	0.00	0.00	10,270.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
10,400.0	0.00	0.00	10,370.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
10,500.0	0.00	0.00	10,470.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
10,532.7	0.00	0.00	10,503.0	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
Third Bone Spring Lime									
10,600.0	0.00	0.00	10,570.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
10,700.0	0.00	0.00	10,670.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
10,800.0	0.00	0.00	10,770.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
10,900.0	0.00	0.00	10,870.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
11,000.0	0.00	0.00	10,970.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
11,100.0	0.00	0.00	11,070.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
11,200.0	0.00	0.00	11,170.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
11,209.7	0.00	0.00	11,180.0	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
Third Bone Spring									
11,300.0	0.00	0.00	11,270.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
11,360.7	0.00	0.00	11,331.0	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
Wolfcamp									
11,400.0	0.00	0.00	11,370.3	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
11,439.2	0.00	0.00	11,409.5	-615.7	308.0	372,892.52	880,436.10	32.0204420	-103.2392113
KOP-Start DLS 12.00 TFO 359.47									
11,450.0	1.29	359.47	11,420.3	-615.6	308.0	372,892.64	880,436.10	32.0204423	-103.2392113
11,475.0	4.29	359.47	11,445.2	-614.4	308.0	372,893.86	880,436.09	32.0204457	-103.2392113
11,500.0	7.29	359.47	11,470.1	-611.8	308.0	372,896.38	880,436.07	32.0204526	-103.2392113
11,525.0	10.29	359.47	11,494.8	-608.0	307.9	372,900.20	880,436.03	32.0204631	-103.2392112
11,550.0	13.29	359.47	11,519.3	-602.9	307.9	372,905.31	880,435.98	32.0204772	-103.2392112
11,575.0	16.29	359.47	11,543.4	-596.5	307.8	372,911.69	880,435.92	32.0204947	-103.2392112
11,600.0	19.29	359.47	11,567.2	-588.9	307.7	372,919.33	880,435.85	32.0205157	-103.2392112
11,625.0	22.29	359.47	11,590.6	-580.0	307.7	372,928.20	880,435.77	32.0205401	-103.2392112
11,650.0	25.29	359.47	11,613.5	-569.9	307.6	372,938.28	880,435.68	32.0205678	-103.2392111



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well HOGAN BRIDGE ST COM 26 36 23 123H
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 123H	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
11,675.0	28.29	359.47	11,635.8	-558.7	307.5	372,949.55	880,435.57	32.0205988	-103.2392111
11,700.0	31.29	359.47	11,657.5	-546.3	307.4	372,961.97	880,435.46	32.0206329	-103.2392111
11,725.0	34.29	359.47	11,678.5	-532.7	307.2	372,975.51	880,435.33	32.0206701	-103.2392111
11,750.0	37.29	359.47	11,698.8	-518.1	307.1	372,990.13	880,435.19	32.0207103	-103.2392110
11,775.0	40.29	359.47	11,718.3	-502.4	306.9	373,005.79	880,435.05	32.0207533	-103.2392110
11,776.0	40.41	359.47	11,719.0	-501.8	306.9	373,006.41	880,435.04	32.0207551	-103.2392110
Wolfcamp B									
11,800.0	43.29	359.47	11,736.9	-485.8	306.8	373,022.44	880,434.89	32.0207991	-103.2392109
11,825.0	46.29	359.47	11,754.6	-468.2	306.6	373,040.05	880,434.73	32.0208475	-103.2392109
11,850.0	49.29	359.47	11,771.4	-449.7	306.4	373,058.57	880,434.55	32.0208984	-103.2392108
11,875.0	52.29	359.47	11,787.2	-430.3	306.3	373,077.94	880,434.37	32.0209517	-103.2392108
11,900.0	55.29	359.47	11,802.0	-410.1	306.1	373,098.10	880,434.18	32.0210071	-103.2392107
11,925.0	58.29	359.47	11,815.7	-389.2	305.9	373,119.02	880,433.99	32.0210646	-103.2392107
11,950.0	61.29	359.47	11,828.3	-367.6	305.7	373,140.62	880,433.79	32.0211240	-103.2392106
11,975.0	64.29	359.47	11,839.7	-345.4	305.5	373,162.85	880,433.58	32.0211851	-103.2392106
12,000.0	67.29	359.47	11,850.0	-322.6	305.3	373,185.65	880,433.37	32.0212477	-103.2392105
12,025.0	70.29	359.47	11,859.0	-299.3	305.0	373,208.95	880,433.15	32.0213118	-103.2392105
12,050.0	73.29	359.47	11,866.8	-275.5	304.8	373,232.70	880,432.93	32.0213771	-103.2392104
12,075.0	76.29	359.47	11,873.4	-251.4	304.6	373,256.82	880,432.70	32.0214434	-103.2392103
12,100.0	79.29	359.47	11,878.6	-227.0	304.4	373,281.25	880,432.47	32.0215105	-103.2392103
12,125.0	82.29	359.47	11,882.6	-202.3	304.1	373,305.92	880,432.24	32.0215783	-103.2392102
12,150.0	85.29	359.47	11,885.4	-177.5	303.9	373,330.77	880,432.01	32.0216466	-103.2392101
12,175.0	88.29	359.47	11,886.8	-152.5	303.7	373,355.73	880,431.78	32.0217152	-103.2392101
12,189.2	90.00	359.47	11,887.0	-138.3	303.5	373,369.96	880,431.65	32.0217544	-103.2392100
LP-Start 10422.4 hold at 12189.2 MD									
12,200.0	90.00	359.47	11,887.0	-127.5	303.4	373,380.72	880,431.55	32.0217840	-103.2392100
12,300.0	90.00	359.47	11,887.0	-27.5	302.5	373,480.72	880,430.61	32.0220588	-103.2392098
12,400.0	90.00	359.47	11,887.0	72.5	301.6	373,580.71	880,429.68	32.0223337	-103.2392095
12,500.0	90.00	359.47	11,887.0	172.5	300.6	373,680.71	880,428.75	32.0226085	-103.2392093
12,600.0	90.00	359.47	11,887.0	272.5	299.7	373,780.71	880,427.81	32.0228834	-103.2392090
12,700.0	90.00	359.47	11,887.0	372.5	298.8	373,880.70	880,426.88	32.0231583	-103.2392087
12,800.0	90.00	359.47	11,887.0	472.5	297.8	373,980.70	880,425.95	32.0234331	-103.2392085
12,900.0	90.00	359.47	11,887.0	572.5	296.9	374,080.69	880,425.01	32.0237080	-103.2392082
13,000.0	90.00	359.47	11,887.0	672.5	296.0	374,180.69	880,424.08	32.0239829	-103.2392080
13,100.0	90.00	359.47	11,887.0	772.5	295.0	374,280.68	880,423.14	32.0242577	-103.2392077
13,200.0	90.00	359.47	11,887.0	872.5	294.1	374,380.68	880,422.21	32.0245326	-103.2392075
13,300.0	90.00	359.47	11,887.0	972.5	293.2	374,480.68	880,421.28	32.0248075	-103.2392072
13,400.0	90.00	359.47	11,887.0	1,072.5	292.2	374,580.67	880,420.34	32.0250823	-103.2392070
13,500.0	90.00	359.47	11,887.0	1,172.4	291.3	374,680.67	880,419.41	32.0253572	-103.2392067
13,600.0	90.00	359.47	11,887.0	1,272.4	290.4	374,780.66	880,418.48	32.0256320	-103.2392064
13,700.0	90.00	359.47	11,887.0	1,372.4	289.4	374,880.66	880,417.54	32.0259069	-103.2392062
13,800.0	90.00	359.47	11,887.0	1,472.4	288.5	374,980.65	880,416.61	32.0261818	-103.2392059
13,900.0	90.00	359.47	11,887.0	1,572.4	287.6	375,080.65	880,415.68	32.0264566	-103.2392057
14,000.0	90.00	359.47	11,887.0	1,672.4	286.6	375,180.65	880,414.74	32.0267315	-103.2392054
14,100.0	90.00	359.47	11,887.0	1,772.4	285.7	375,280.64	880,413.81	32.0270064	-103.2392052
14,200.0	90.00	359.47	11,887.0	1,872.4	284.8	375,380.64	880,412.88	32.0272812	-103.2392049
14,300.0	90.00	359.47	11,887.0	1,972.4	283.8	375,480.63	880,411.94	32.0275561	-103.2392047
14,400.0	90.00	359.47	11,887.0	2,072.4	282.9	375,580.63	880,411.01	32.0278309	-103.2392044
14,500.0	90.00	359.47	11,887.0	2,172.4	282.0	375,680.62	880,410.08	32.0281058	-103.2392041
14,600.0	90.00	359.47	11,887.0	2,272.4	281.0	375,780.62	880,409.14	32.0283807	-103.2392039
14,700.0	90.00	359.47	11,887.0	2,372.4	280.1	375,880.61	880,408.21	32.0286555	-103.2392036
14,800.0	90.00	359.47	11,887.0	2,472.4	279.2	375,980.61	880,407.28	32.0289304	-103.2392034
14,900.0	90.00	359.47	11,887.0	2,572.4	278.2	376,080.61	880,406.34	32.0292053	-103.2392031



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well HOGAN BRIDGE ST COM 26 36 23 123H
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 123H	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
15,000.0	90.00	359.47	11,887.0	2,672.4	277.3	376,180.60	880,405.41	32.0294801	-103.2392029
15,100.0	90.00	359.47	11,887.0	2,772.4	276.4	376,280.60	880,404.47	32.0297550	-103.2392026
15,200.0	90.00	359.47	11,887.0	2,872.4	275.4	376,380.59	880,403.54	32.0300299	-103.2392023
15,300.0	90.00	359.47	11,887.0	2,972.4	274.5	376,480.59	880,402.61	32.0303047	-103.2392021
15,400.0	90.00	359.47	11,887.0	3,072.4	273.6	376,580.58	880,401.67	32.0305796	-103.2392018
15,500.0	90.00	359.47	11,887.0	3,172.4	272.6	376,680.58	880,400.74	32.0308544	-103.2392016
15,600.0	90.00	359.47	11,887.0	3,272.4	271.7	376,780.58	880,399.81	32.0311293	-103.2392013
15,700.0	90.00	359.47	11,887.0	3,372.4	270.8	376,880.57	880,398.87	32.0314042	-103.2392011
15,800.0	90.00	359.47	11,887.0	3,472.3	269.8	376,980.57	880,397.94	32.0316790	-103.2392008
15,900.0	90.00	359.47	11,887.0	3,572.3	268.9	377,080.56	880,397.01	32.0319539	-103.2392006
16,000.0	90.00	359.47	11,887.0	3,672.3	268.0	377,180.56	880,396.07	32.0322288	-103.2392003
16,100.0	90.00	359.47	11,887.0	3,772.3	267.0	377,280.55	880,395.14	32.0325036	-103.2392000
16,200.0	90.00	359.47	11,887.0	3,872.3	266.1	377,380.55	880,394.21	32.0327785	-103.2391998
16,300.0	90.00	359.47	11,887.0	3,972.3	265.2	377,480.55	880,393.27	32.0330533	-103.2391995
16,400.0	90.00	359.47	11,887.0	4,072.3	264.2	377,580.54	880,392.34	32.0333282	-103.2391993
16,500.0	90.00	359.47	11,887.0	4,172.3	263.3	377,680.54	880,391.41	32.0336031	-103.2391990
16,600.0	90.00	359.47	11,887.0	4,272.3	262.4	377,780.53	880,390.47	32.0338779	-103.2391988
16,700.0	90.00	359.47	11,887.0	4,372.3	261.4	377,880.53	880,389.54	32.0341528	-103.2391985
16,800.0	90.00	359.47	11,887.0	4,472.3	260.5	377,980.52	880,388.61	32.0344277	-103.2391982
16,900.0	90.00	359.47	11,887.0	4,572.3	259.6	378,080.52	880,387.67	32.0347025	-103.2391980
17,000.0	90.00	359.47	11,887.0	4,672.3	258.6	378,180.51	880,386.74	32.0349774	-103.2391977
17,100.0	90.00	359.47	11,887.0	4,772.3	257.7	378,280.51	880,385.80	32.0352522	-103.2391975
17,200.0	90.00	359.47	11,887.0	4,872.3	256.8	378,380.51	880,384.87	32.0355271	-103.2391972
17,300.0	90.00	359.47	11,887.0	4,972.3	255.8	378,480.50	880,383.94	32.0358020	-103.2391970
17,400.0	90.00	359.47	11,887.0	5,072.3	254.9	378,580.50	880,383.00	32.0360768	-103.2391967
17,500.0	90.00	359.47	11,887.0	5,172.3	254.0	378,680.49	880,382.07	32.0363517	-103.2391965
17,600.0	90.00	359.47	11,887.0	5,272.3	253.0	378,780.49	880,381.14	32.0366266	-103.2391962
17,700.0	90.00	359.47	11,887.0	5,372.3	252.1	378,880.48	880,380.20	32.0369014	-103.2391959
17,800.0	90.00	359.47	11,887.0	5,472.3	251.2	378,980.48	880,379.27	32.0371763	-103.2391957
17,900.0	90.00	359.47	11,887.0	5,572.3	250.2	379,080.48	880,378.34	32.0374511	-103.2391954
18,000.0	90.00	359.47	11,887.0	5,672.3	249.3	379,180.47	880,377.40	32.0377260	-103.2391952
18,100.0	90.00	359.47	11,887.0	5,772.2	248.4	379,280.47	880,376.47	32.0380009	-103.2391949
18,200.0	90.00	359.47	11,887.0	5,872.2	247.4	379,380.46	880,375.54	32.0382757	-103.2391947
18,300.0	90.00	359.47	11,887.0	5,972.2	246.5	379,480.46	880,374.60	32.0385506	-103.2391944
18,400.0	90.00	359.47	11,887.0	6,072.2	245.6	379,580.45	880,373.67	32.0388255	-103.2391941
18,500.0	90.00	359.47	11,887.0	6,172.2	244.6	379,680.45	880,372.74	32.0391003	-103.2391939
18,600.0	90.00	359.47	11,887.0	6,272.2	243.7	379,780.44	880,371.80	32.0393752	-103.2391936
18,700.0	90.00	359.47	11,887.0	6,372.2	242.8	379,880.44	880,370.87	32.0396500	-103.2391934
18,800.0	90.00	359.47	11,887.0	6,472.2	241.8	379,980.44	880,369.94	32.0399249	-103.2391931
18,900.0	90.00	359.47	11,887.0	6,572.2	240.9	380,080.43	880,369.00	32.0401998	-103.2391929
19,000.0	90.00	359.47	11,887.0	6,672.2	240.0	380,180.43	880,368.07	32.0404746	-103.2391926
19,100.0	90.00	359.47	11,887.0	6,772.2	239.0	380,280.42	880,367.13	32.0407495	-103.2391923
19,200.0	90.00	359.47	11,887.0	6,872.2	238.1	380,380.42	880,366.20	32.0410244	-103.2391921
19,300.0	90.00	359.47	11,887.0	6,972.2	237.2	380,480.41	880,365.27	32.0412992	-103.2391918
19,400.0	90.00	359.47	11,887.0	7,072.2	236.2	380,580.41	880,364.33	32.0415741	-103.2391916
19,500.0	90.00	359.47	11,887.0	7,172.2	235.3	380,680.41	880,363.40	32.0418489	-103.2391913
19,600.0	90.00	359.47	11,887.0	7,272.2	234.4	380,780.40	880,362.47	32.0421238	-103.2391911
19,700.0	90.00	359.47	11,887.0	7,372.2	233.4	380,880.40	880,361.53	32.0423987	-103.2391908
19,800.0	90.00	359.47	11,887.0	7,472.2	232.5	380,980.39	880,360.60	32.0426735	-103.2391905
19,900.0	90.00	359.47	11,887.0	7,572.2	231.6	381,080.39	880,359.67	32.0429484	-103.2391903
20,000.0	90.00	359.47	11,887.0	7,672.2	230.6	381,180.38	880,358.73	32.0432233	-103.2391900
20,100.0	90.00	359.47	11,887.0	7,772.2	229.7	381,280.38	880,357.80	32.0434981	-103.2391898
20,200.0	90.00	359.47	11,887.0	7,872.2	228.8	381,380.38	880,356.87	32.0437730	-103.2391895
20,300.0	90.00	359.47	11,887.0	7,972.2	227.8	381,480.37	880,355.93	32.0440478	-103.2391893



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well HOGAN BRIDGE ST COM 26 36 23 123H
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 123H	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
20,400.0	90.00	359.47	11,887.0	8,072.1	226.9	381,580.37	880,355.00	32.0443227	-103.2391890
20,500.0	90.00	359.47	11,887.0	8,172.1	226.0	381,680.36	880,354.07	32.0445976	-103.2391887
20,600.0	90.00	359.47	11,887.0	8,272.1	225.0	381,780.36	880,353.13	32.0448724	-103.2391885
20,700.0	90.00	359.47	11,887.0	8,372.1	224.1	381,880.35	880,352.20	32.0451473	-103.2391882
20,800.0	90.00	359.47	11,887.0	8,472.1	223.2	381,980.35	880,351.27	32.0454222	-103.2391880
20,900.0	90.00	359.47	11,887.0	8,572.1	222.2	382,080.34	880,350.33	32.0456970	-103.2391877
21,000.0	90.00	359.47	11,887.0	8,672.1	221.3	382,180.34	880,349.40	32.0459719	-103.2391874
21,100.0	90.00	359.47	11,887.0	8,772.1	220.4	382,280.34	880,348.46	32.0462467	-103.2391872
21,200.0	90.00	359.47	11,887.0	8,872.1	219.4	382,380.33	880,347.53	32.0465216	-103.2391869
21,300.0	90.00	359.47	11,887.0	8,972.1	218.5	382,480.33	880,346.60	32.0467965	-103.2391867
21,400.0	90.00	359.47	11,887.0	9,072.1	217.6	382,580.32	880,345.66	32.0470713	-103.2391864
21,500.0	90.00	359.47	11,887.0	9,172.1	216.6	382,680.32	880,344.73	32.0473462	-103.2391862
21,600.0	90.00	359.47	11,887.0	9,272.1	215.7	382,780.31	880,343.80	32.0476210	-103.2391859
21,700.0	90.00	359.47	11,887.0	9,372.1	214.8	382,880.31	880,342.86	32.0478959	-103.2391856
21,800.0	90.00	359.47	11,887.0	9,472.1	213.8	382,980.31	880,341.93	32.0481708	-103.2391854
21,900.0	90.00	359.47	11,887.0	9,572.1	212.9	383,080.30	880,341.00	32.0484456	-103.2391851
22,000.0	90.00	359.47	11,887.0	9,672.1	212.0	383,180.30	880,340.06	32.0487205	-103.2391849
22,100.0	90.00	359.47	11,887.0	9,772.1	211.0	383,280.29	880,339.13	32.0489954	-103.2391846
22,200.0	90.00	359.47	11,887.0	9,872.1	210.1	383,380.29	880,338.20	32.0492702	-103.2391844
22,300.0	90.00	359.47	11,887.0	9,972.1	209.2	383,480.28	880,337.26	32.0495451	-103.2391841
22,400.0	90.00	359.47	11,887.0	10,072.1	208.2	383,580.28	880,336.33	32.0498199	-103.2391838
22,500.0	90.00	359.47	11,887.0	10,172.1	207.3	383,680.28	880,335.40	32.0500948	-103.2391836
22,600.0	90.00	359.47	11,887.0	10,272.0	206.4	383,780.27	880,334.46	32.0503697	-103.2391833
22,611.6	90.00	359.47	11,887.0	10,283.7	206.3	383,791.90	880,334.35	32.0504016	-103.2391833
TD at 22611.6									

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
FTP (HBSC 123H) - plan misses target center by 1.1usft at 12200.6usft MD (11887.0 TVD, -126.9 N, 303.4 E) - Point	0.00	0.00	11,887.0	-126.9	302.4	373,381.36	880,430.46	32.0217857	-103.2392135
BHL (HBSC 123H) - plan hits target center - Point	0.00	0.00	11,887.0	10,283.7	206.3	383,791.90	880,334.35	32.0504016	-103.2391833
LTP (HBSC 123H) - plan hits target center - Point	0.00	0.00	11,887.0	10,233.7	206.7	383,741.91	880,334.80	32.0502642	-103.2391835



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well HOGAN BRIDGE ST COM 26 36 23 123H
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 123H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,927.9	1,925.0	Rustler			
2,307.3	2,303.0	Salado			
3,148.5	3,141.0	Tansill			
3,668.5	3,659.0	Capitan			
4,998.6	4,984.0	Lamar			
5,303.7	5,288.0	Bell Canyon			
6,632.8	6,612.0	Brushy Canyon			
7,325.4	7,302.0	Bone Spring Lime			
9,264.7	9,235.0	First Bone Spring			
9,751.7	9,722.0	Second Bone Spring			
10,532.7	10,503.0	Third Bone Spring Lime			
11,209.7	11,180.0	Third Bone Spring			
11,360.7	11,331.0	Wolfcamp			
11,776.0	11,719.0	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
1,250.0	1,249.7	-9.7	4.9	Start 7648.8 hold at 1250.0 MD
8,898.8	8,869.4	-606.0	303.1	Start Drop -2.00
9,148.8	9,119.1	-615.7	308.0	Start 2290.4 hold at 9148.8 MD
11,439.2	11,409.5	-615.7	308.0	KOP-Start DLS 12.00 TFO 359.47
12,189.2	11,887.0	-138.3	303.5	LP-Start 10422.4 hold at 12189.2 MD
22,611.6	11,887.0	10,283.7	206.3	TD at 22611.6

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
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: <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/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