

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

Form C-101

August 1, 2011

Permit 343643

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

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 30-025-51673
4. Property Code 334190	5. Property Name HOGAN BRIDGE 26 36 23 STATE COM	6. Well No. 127H

7. Surface Location

UL - Lot O	Section 23	Township 26S	Range 36E	Lot Idn O	Feet From 230	N/S Line S	Feet From 1640	E/W Line E	County Lea
---------------	---------------	-----------------	--------------	--------------	------------------	---------------	-------------------	---------------	---------------

8. Proposed Bottom Hole Location

UL - Lot A	Section 14	Township 26S	Range 36E	Lot Idn A	Feet From 50	N/S Line N	Feet From 994	E/W Line E	County Lea
---------------	---------------	-----------------	--------------	--------------	-----------------	---------------	------------------	---------------	---------------

9. Pool Information

WC-025 G-09 S263619C;WOLFCAMP	98234
-------------------------------	-------

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 2918
16. Multiple N	17. Proposed Depth 22518	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	1772	1445	0
Int1	9.875	7.625	29.7	10553	3138	0
Prod	6.75	5.5	23	22518	1753	0

Casing/Cement Program: Additional Comments

--

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	TBD

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Christie Hanna	Approved By: Paul F Kautz	
Title: Regulatory	Title: Geologist	
Email Address: channa@ameredev.com	Approved Date: 6/29/2023	Expiration Date: 6/29/2025
Date: 6/26/2023	Phone: 737-300-4723	Conditions of Approval Attached

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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 30-025-51673		² Pool Code 98234		³ Pool Name WC-025 G-09 S263619C;WOLECAMP	
⁴ Well Number 334190		⁵ Property Name HOGAN BRIDGE 26 36 23 STATE COM		⁶ Well Number 127H	
⁷ OGRID No. 372224		⁸ Operator Name AMEREDEV OPERATING, LLC.		⁹ Elevation 2918'	
¹⁰ Surface Location					
UL or lot no. 0	Section 23	Township 26-S	Range 36-E	Lot Idn -	Feet from the 230'
		North/South line SOUTH		Feet from the 1640'	
		East/West line EAST		County LEA	
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. A	Section 14	Township 26-S	Range 36-E	Lot Idn -	Feet from the 50'
		North/South line NORTH		Feet from the 994'	
		East/West line EAST		County LEA	
¹² Dedicated Acres 640		¹³ Joint or Infill		¹⁴ Consolidation Code C	
¹⁵ 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.

	NEW MEXICO EAST NAD 1983 <u>SURFACE LOCATION (SHL)</u> 230' FSL - SEC. 23 1640' FEL - SEC. 23 X=882432 Y=373532 LAT.: N 32.0221446 LONG.: W 103.2327527 <u>KICK OFF POINT (KOP)</u> <u>FIRST TAKE POINT (FTP)</u> 100' FSL - SEC. 23 1003' FEL - SEC. 23 X=883070 Y=373409 LAT.: N 32.0217877 LONG.: W 103.2306962 <u>LAST TAKE POINT (LTP)</u> 100' FNL - SEC. 14 994' FEL - SEC. 14 X=882975 Y=383768 LAT.: N 32.0502633 LONG.: W 103.2306635 <u>BOTTOM HOLE LOCATION (BHL)</u> 50' FNL - SEC. 14 994' FEL - SEC. 14 X=882974 Y=383818 LAT.: N 32.0504007 LONG.: W 103.2306633	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 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. <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 285116 PROFESSIONAL SURVEYOR Certificate Number	

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 APD Conditions

Permit 343643

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: AMEREDEV OPERATING, LLC [372224] 2901 Via Fortuna Austin, TX 78746	API Number: 30-025-51673
	Well: HOGAN BRIDGE 26 36 23 STATE COM #127H

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: Hogan Bridge 26 36 23 State Com 127H
SHL: Sec. 23 26S-36E 230' FSL & 1640' FEL
BHL: Sec. 14 26S-36E 50' FNL & 994' FEL
 Lea, NM
Wellhead: A - 13-5/8" 10M x 13-5/8" SOW
 B - 13-5/8" 10M x 13-5/8" 10M
 C - 13-5/8" 10M x 13-5/8" 10M
 Tubing Spool - 7-1/16" 15M x 13-3/8" 10M
Xmas Tree: 2-9/16" 10M
Tubing: 2-7/8" L-80 6.5# 8rd EUE

Co. Well ID: xxxxxx
AFE No.: xxxx-xxx
API No.: xxxxxxxxxxxx
GL: 2,918'
Field: Delaware
Objective: Wolfcamp B
TVD: 11,782'
MD: 22,518'
Rig: TBD **KB 27'**
E-Mail: Wellsite2@ameredev.com

Hole Size	Formation Tops	Logs	Cement	Mud Weight
17.5"	Rustler 1,647'	1,445 Sacks	TOC 0'	8.4-8.6 ppg WBM
	13.375" 68# J-55 BTC 1,772'			
12.25"	Salado 2,059'	788 Sacks	TOC 0'	7.5-9.4 Diesel Brine Emulsion
	DV Tool with ACP 3,095'		50% Excess	
	Tansill 3,095'			
	Capitan Reef 3,628'			
	Lamar 4,940'			
	No Casing 5,065'			
9.875"	Bell Canyon 5,306'			
	Brushy Canyon 6,524'			
	Bone Spring Lime 7,190'			
	First Bone Spring 9,164'			
	Second Bone Spring 9,671'			
	Third Bone Spring Upper 10,428'			
	7.625" 29.7# L-80HC BTC 10,553'	2,350 Sacks	TOC 0'	50% Excess
6.75"	Third Bone Spring 11,139'			10.5-12.5 ppg OBM
12° Build @ 11,358' MD thru 12,108' MD	Wolfcamp A 11,286'			
	Wolfcamp B 11,647'			
	5.5" 23# P-110 USS-Eagle SFH 22,518'			
	Target Wolfcamp B 11782 TVD // 22518 MD			
		1,753 Sacks	TOC 0'	25% Excess



Ameredev Operating

Lea County, NM (N83-NME)

HOGAN/NELSON BRIDGE PROJECT

HOGAN BRIDGE 26 36 23 STATE COM 127H

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 127H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 2945.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 2945.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	North Reference:	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 127H	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 127H				
Well Position	+N/-S	0.0 usft	Northing:	373,532.26 usft	Latitude:	32.0221446
	+E/-W	0.0 usft	Easting:	882,431.59 usft	Longitude:	-103.2327527
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	2,918.0 usft
Grid Convergence:		0.58 °				

Wellbore	OWB
-----------------	-----

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/12/2023	6.14	59.70	47,203.70040277

Design	PWP
---------------	-----

Audit Notes:					
Version:		Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	3.02	

Plan Survey Tool Program	Date	6/14/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	22,517.6 PWP (OWB)	MWD		
			OWSG MWD - Standard		



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well HOGAN BRIDGE ST COM 26 36 23 127H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 2945.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 2945.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	North Reference:	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 127H	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	
1,350.0	7.00	133.07	1,349.1	-14.6	15.6	2.00	2.00	0.00	133.07	
8,221.6	7.00	133.07	8,169.5	-586.4	627.4	0.00	0.00	0.00	0.00	
8,571.6	0.00	0.00	8,518.6	-601.0	643.0	2.00	-2.00	0.00	180.00	
11,357.5	0.00	0.00	11,304.5	-601.0	643.0	0.00	0.00	0.00	0.00	
12,107.5	90.00	359.47	11,782.0	-123.6	638.6	12.00	12.00	-0.07	359.47	
22,517.6	90.00	359.47	11,782.0	10,286.2	542.6	0.00	0.00	0.00	0.00	BHL (HBSC 127H)



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well HOGAN BRIDGE ST COM 26 36 23 127H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 2945.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 2945.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	North Reference:	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 127H	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	373,532.26	882,431.59	32.0221446	-103.2327527
100.0	0.00	0.00	100.0	0.0	0.0	373,532.26	882,431.59	32.0221446	-103.2327527
200.0	0.00	0.00	200.0	0.0	0.0	373,532.26	882,431.59	32.0221446	-103.2327527
300.0	0.00	0.00	300.0	0.0	0.0	373,532.26	882,431.59	32.0221446	-103.2327527
400.0	0.00	0.00	400.0	0.0	0.0	373,532.26	882,431.59	32.0221446	-103.2327527
500.0	0.00	0.00	500.0	0.0	0.0	373,532.26	882,431.59	32.0221446	-103.2327527
600.0	0.00	0.00	600.0	0.0	0.0	373,532.26	882,431.59	32.0221446	-103.2327527
700.0	0.00	0.00	700.0	0.0	0.0	373,532.26	882,431.59	32.0221446	-103.2327527
800.0	0.00	0.00	800.0	0.0	0.0	373,532.26	882,431.59	32.0221446	-103.2327527
900.0	0.00	0.00	900.0	0.0	0.0	373,532.26	882,431.59	32.0221446	-103.2327527
1,000.0	0.00	0.00	1,000.0	0.0	0.0	373,532.26	882,431.59	32.0221446	-103.2327527
Start Build 2.00									
1,100.0	2.00	133.07	1,100.0	-1.2	1.3	373,531.07	882,432.87	32.0221413	-103.2327486
1,200.0	4.00	133.07	1,199.8	-4.8	5.1	373,527.50	882,436.69	32.0221314	-103.2327364
1,300.0	6.00	133.07	1,299.5	-10.7	11.5	373,521.54	882,443.06	32.0221149	-103.2327161
1,350.0	7.00	133.07	1,349.1	-14.6	15.6	373,517.68	882,447.19	32.0221041	-103.2327028
Start 6871.6 hold at 1350.0 MD									
1,400.0	7.00	133.07	1,398.8	-18.7	20.1	373,513.52	882,451.64	32.0220926	-103.2326886
1,500.0	7.00	133.07	1,498.0	-27.1	29.0	373,505.20	882,460.55	32.0220694	-103.2326602
1,600.0	7.00	133.07	1,597.3	-35.4	37.9	373,496.88	882,469.45	32.0220463	-103.2326317
1,650.1	7.00	133.07	1,647.0	-39.6	42.3	373,492.71	882,473.91	32.0220347	-103.2326175
Rustler									
1,700.0	7.00	133.07	1,696.5	-43.7	46.8	373,488.55	882,478.35	32.0220232	-103.2326033
1,800.0	7.00	133.07	1,795.8	-52.0	55.7	373,480.23	882,487.26	32.0220001	-103.2325748
1,900.0	7.00	133.07	1,895.0	-60.4	64.6	373,471.91	882,496.16	32.0219769	-103.2325464
2,000.0	7.00	133.07	1,994.3	-68.7	73.5	373,463.59	882,505.06	32.0219538	-103.2325179
2,065.2	7.00	133.07	2,059.0	-74.1	79.3	373,458.16	882,510.87	32.0219387	-103.2324994
Salado									
2,100.0	7.00	133.07	2,093.5	-77.0	82.4	373,455.27	882,513.97	32.0219307	-103.2324895
2,200.0	7.00	133.07	2,192.8	-85.3	91.3	373,446.94	882,522.87	32.0219076	-103.2324610
2,300.0	7.00	133.07	2,292.0	-93.6	100.2	373,438.62	882,531.77	32.0218845	-103.2324326
2,400.0	7.00	133.07	2,391.3	-102.0	109.1	373,430.30	882,540.68	32.0218613	-103.2324041
2,500.0	7.00	133.07	2,490.6	-110.3	118.0	373,421.98	882,549.58	32.0218382	-103.2323757
2,600.0	7.00	133.07	2,589.8	-118.6	126.9	373,413.66	882,558.48	32.0218151	-103.2323472
2,700.0	7.00	133.07	2,689.1	-126.9	135.8	373,405.34	882,567.39	32.0217920	-103.2323188
2,800.0	7.00	133.07	2,788.3	-135.2	144.7	373,397.01	882,576.29	32.0217688	-103.2322903
2,900.0	7.00	133.07	2,887.6	-143.6	153.6	373,388.69	882,585.19	32.0217457	-103.2322619
3,000.0	7.00	133.07	2,986.8	-151.9	162.5	373,380.37	882,594.10	32.0217226	-103.2322334
3,100.0	7.00	133.07	3,086.1	-160.2	171.4	373,372.05	882,603.00	32.0216995	-103.2322050
3,109.0	7.00	133.07	3,095.0	-161.0	172.2	373,371.30	882,603.80	32.0216974	-103.2322024
Tansill									
3,200.0	7.00	133.07	3,185.3	-168.5	180.3	373,363.73	882,611.90	32.0216764	-103.2321765
3,300.0	7.00	133.07	3,284.6	-176.9	189.2	373,355.41	882,620.81	32.0216532	-103.2321481
3,400.0	7.00	133.07	3,383.8	-185.2	198.1	373,347.08	882,629.71	32.0216301	-103.2321196
3,500.0	7.00	133.07	3,483.1	-193.5	207.0	373,338.76	882,638.61	32.0216070	-103.2320912
3,600.0	7.00	133.07	3,582.4	-201.8	215.9	373,330.44	882,647.52	32.0215839	-103.2320627
3,646.0	7.00	133.07	3,628.0	-205.6	220.0	373,326.61	882,651.61	32.0215732	-103.2320496
Capitan									
3,700.0	7.00	133.07	3,681.6	-210.1	224.8	373,322.12	882,656.42	32.0215608	-103.2320343
3,800.0	7.00	133.07	3,780.9	-218.5	233.7	373,313.80	882,665.32	32.0215376	-103.2320058
3,900.0	7.00	133.07	3,880.1	-226.8	242.6	373,305.47	882,674.23	32.0215145	-103.2319774
4,000.0	7.00	133.07	3,979.4	-235.1	251.5	373,297.15	882,683.13	32.0214914	-103.2319489
4,100.0	7.00	133.07	4,078.6	-243.4	260.4	373,288.83	882,692.03	32.0214683	-103.2319205



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well HOGAN BRIDGE ST COM 26 36 23 127H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 2945.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 2945.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	North Reference:	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 127H	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	7.00	133.07	4,177.9	-251.8	269.3	373,280.51	882,700.94	32.0214451	-103.2318920
4,300.0	7.00	133.07	4,277.1	-260.1	278.2	373,272.19	882,709.84	32.0214220	-103.2318636
4,400.0	7.00	133.07	4,376.4	-268.4	287.2	373,263.87	882,718.74	32.0213989	-103.2318351
4,500.0	7.00	133.07	4,475.7	-276.7	296.1	373,255.54	882,727.65	32.0213758	-103.2318067
4,600.0	7.00	133.07	4,574.9	-285.0	305.0	373,247.22	882,736.55	32.0213527	-103.2317782
4,700.0	7.00	133.07	4,674.2	-293.4	313.9	373,238.90	882,745.45	32.0213295	-103.2317498
4,800.0	7.00	133.07	4,773.4	-301.7	322.8	373,230.58	882,754.36	32.0213064	-103.2317213
4,900.0	7.00	133.07	4,872.7	-310.0	331.7	373,222.26	882,763.26	32.0212833	-103.2316929
4,967.8	7.00	133.07	4,940.0	-315.6	337.7	373,216.61	882,769.30	32.0212676	-103.2316736
Lamar									
5,000.0	7.00	133.07	4,971.9	-318.3	340.6	373,213.93	882,772.16	32.0212602	-103.2316644
5,100.0	7.00	133.07	5,071.2	-326.6	349.5	373,205.61	882,781.07	32.0212370	-103.2316360
5,200.0	7.00	133.07	5,170.4	-335.0	358.4	373,197.29	882,789.97	32.0212139	-103.2316075
5,300.0	7.00	133.07	5,269.7	-343.3	367.3	373,188.97	882,798.87	32.0211908	-103.2315791
5,336.6	7.00	133.07	5,306.0	-346.3	370.5	373,185.92	882,802.13	32.0211823	-103.2315687
Bell Canyon									
5,400.0	7.00	133.07	5,368.9	-351.6	376.2	373,180.65	882,807.78	32.0211677	-103.2315506
5,500.0	7.00	133.07	5,468.2	-359.9	385.1	373,172.33	882,816.68	32.0211446	-103.2315222
5,600.0	7.00	133.07	5,567.5	-368.3	394.0	373,164.00	882,825.58	32.0211214	-103.2314937
5,700.0	7.00	133.07	5,666.7	-376.6	402.9	373,155.68	882,834.49	32.0210983	-103.2314653
5,800.0	7.00	133.07	5,766.0	-384.9	411.8	373,147.36	882,843.39	32.0210752	-103.2314369
5,900.0	7.00	133.07	5,865.2	-393.2	420.7	373,139.04	882,852.29	32.0210521	-103.2314084
6,000.0	7.00	133.07	5,964.5	-401.5	429.6	373,130.72	882,861.20	32.0210290	-103.2313800
6,100.0	7.00	133.07	6,063.7	-409.9	438.5	373,122.40	882,870.10	32.0210058	-103.2313515
6,200.0	7.00	133.07	6,163.0	-418.2	447.4	373,114.07	882,879.00	32.0209827	-103.2313231
6,300.0	7.00	133.07	6,262.2	-426.5	456.3	373,105.75	882,887.91	32.0209596	-103.2312946
6,400.0	7.00	133.07	6,361.5	-434.8	465.2	373,097.43	882,896.81	32.0209365	-103.2312662
6,500.0	7.00	133.07	6,460.7	-443.2	474.1	373,089.11	882,905.71	32.0209133	-103.2312377
6,563.7	7.00	133.07	6,524.0	-448.5	479.8	373,083.80	882,911.39	32.0208986	-103.2312196
Brushy Canyon									
6,600.0	7.00	133.07	6,560.0	-451.5	483.0	373,080.79	882,914.62	32.0208902	-103.2312093
6,700.0	7.00	133.07	6,659.3	-459.8	491.9	373,072.46	882,923.52	32.0208671	-103.2311808
6,800.0	7.00	133.07	6,758.5	-468.1	500.8	373,064.14	882,932.42	32.0208440	-103.2311524
6,900.0	7.00	133.07	6,857.8	-476.4	509.7	373,055.82	882,941.33	32.0208209	-103.2311239
7,000.0	7.00	133.07	6,957.0	-484.8	518.6	373,047.50	882,950.23	32.0207977	-103.2310955
7,100.0	7.00	133.07	7,056.3	-493.1	527.5	373,039.18	882,959.13	32.0207746	-103.2310670
7,200.0	7.00	133.07	7,155.5	-501.4	536.4	373,030.86	882,968.04	32.0207515	-103.2310386
7,234.7	7.00	133.07	7,190.0	-504.3	539.5	373,027.97	882,971.13	32.0207435	-103.2310287
Bone Spring Lime									
7,300.0	7.00	133.07	7,254.8	-509.7	545.3	373,022.53	882,976.94	32.0207284	-103.2310101
7,400.0	7.00	133.07	7,354.0	-518.0	554.3	373,014.21	882,985.84	32.0207052	-103.2309817
7,500.0	7.00	133.07	7,453.3	-526.4	563.2	373,005.89	882,994.75	32.0206821	-103.2309532
7,600.0	7.00	133.07	7,552.5	-534.7	572.1	372,997.57	883,003.65	32.0206590	-103.2309248
7,700.0	7.00	133.07	7,651.8	-543.0	581.0	372,989.25	883,012.55	32.0206359	-103.2308963
7,800.0	7.00	133.07	7,751.1	-551.3	589.9	372,980.93	883,021.46	32.0206128	-103.2308679
7,900.0	7.00	133.07	7,850.3	-559.7	598.8	372,972.60	883,030.36	32.0205896	-103.2308394
8,000.0	7.00	133.07	7,949.6	-568.0	607.7	372,964.28	883,039.26	32.0205665	-103.2308110
8,100.0	7.00	133.07	8,048.8	-576.3	616.6	372,955.96	883,048.17	32.0205434	-103.2307825
8,200.0	7.00	133.07	8,148.1	-584.6	625.5	372,947.64	883,057.07	32.0205203	-103.2307541
8,221.6	7.00	133.07	8,169.5	-586.4	627.4	372,945.84	883,058.99	32.0205153	-103.2307479
Start Drop -2.00									
8,300.0	5.43	133.07	8,247.4	-592.2	633.6	372,940.04	883,065.19	32.0204992	-103.2307281
8,400.0	3.43	133.07	8,347.1	-597.5	639.2	372,934.77	883,070.84	32.0204845	-103.2307101



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well HOGAN BRIDGE ST COM 26 36 23 127H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 2945.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 2945.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	North Reference:	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 127H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
8,500.0	1.43	133.07	8,447.0	-600.4	642.3	372,931.87	883,073.94	32.0204765	-103.2307002	
8,571.6	0.00	0.00	8,518.6	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
Start 2785.9 hold at 8571.6 MD										
8,600.0	0.00	0.00	8,547.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
8,700.0	0.00	0.00	8,647.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
8,800.0	0.00	0.00	8,747.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
8,900.0	0.00	0.00	8,847.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
9,000.0	0.00	0.00	8,947.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
9,100.0	0.00	0.00	9,047.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
9,200.0	0.00	0.00	9,147.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
9,217.0	0.00	0.00	9,164.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
First Bone Spring										
9,300.0	0.00	0.00	9,247.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
9,400.0	0.00	0.00	9,347.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
9,500.0	0.00	0.00	9,447.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
9,600.0	0.00	0.00	9,547.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
9,700.0	0.00	0.00	9,647.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
9,724.0	0.00	0.00	9,671.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
Second Bone Spring										
9,800.0	0.00	0.00	9,747.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
9,900.0	0.00	0.00	9,847.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
10,000.0	0.00	0.00	9,947.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
10,100.0	0.00	0.00	10,047.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
10,200.0	0.00	0.00	10,147.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
10,300.0	0.00	0.00	10,247.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
10,400.0	0.00	0.00	10,347.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
10,481.0	0.00	0.00	10,428.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
Third Bone Spring Lime										
10,500.0	0.00	0.00	10,447.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
10,600.0	0.00	0.00	10,547.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
10,700.0	0.00	0.00	10,647.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
10,800.0	0.00	0.00	10,747.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
10,900.0	0.00	0.00	10,847.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
11,000.0	0.00	0.00	10,947.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
11,100.0	0.00	0.00	11,047.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
11,192.0	0.00	0.00	11,139.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
Third Bone Spring										
11,200.0	0.00	0.00	11,147.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
11,300.0	0.00	0.00	11,247.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
11,339.0	0.00	0.00	11,286.0	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
Wolfcamp										
11,357.5	0.00	0.00	11,304.5	-601.0	643.0	372,931.26	883,074.59	32.0204748	-103.2306981	
KOP-Start DLS 12.00 TFO 359.47										
11,375.0	2.10	359.47	11,322.0	-600.7	643.0	372,931.58	883,074.59	32.0204757	-103.2306981	
11,400.0	5.10	359.47	11,347.0	-599.1	643.0	372,933.15	883,074.57	32.0204800	-103.2306981	
11,425.0	8.10	359.47	11,371.8	-596.2	643.0	372,936.03	883,074.55	32.0204879	-103.2306981	
11,450.0	11.10	359.47	11,396.5	-592.1	642.9	372,940.20	883,074.51	32.0204993	-103.2306981	
11,475.0	14.10	359.47	11,420.9	-586.6	642.9	372,945.66	883,074.46	32.0205143	-103.2306980	
11,500.0	17.10	359.47	11,444.9	-579.9	642.8	372,952.38	883,074.40	32.0205328	-103.2306980	
11,525.0	20.10	359.47	11,468.6	-571.9	642.7	372,960.35	883,074.32	32.0205547	-103.2306980	
11,550.0	23.10	359.47	11,491.9	-562.7	642.6	372,969.56	883,074.24	32.0205800	-103.2306980	
11,575.0	26.10	359.47	11,514.6	-552.3	642.6	372,979.96	883,074.14	32.0206086	-103.2306979	
11,600.0	29.10	359.47	11,536.7	-540.7	642.4	372,991.55	883,074.04	32.0206405	-103.2306979	



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well HOGAN BRIDGE ST COM 26 36 23 127H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 2945.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 2945.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	North Reference:	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 127H	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
11,625.0	32.10	359.47	11,558.3	-528.0	642.3	373,004.27	883,073.92	32.0206755	-103.2306979
11,650.0	35.10	359.47	11,579.1	-514.2	642.2	373,018.11	883,073.79	32.0207135	-103.2306978
11,675.0	38.10	359.47	11,599.1	-499.2	642.1	373,033.01	883,073.65	32.0207545	-103.2306978
11,700.0	41.10	359.47	11,618.4	-483.3	641.9	373,048.95	883,073.51	32.0207983	-103.2306977
11,725.0	44.10	359.47	11,636.8	-466.4	641.8	373,065.87	883,073.35	32.0208448	-103.2306977
11,739.4	45.83	359.47	11,647.0	-456.2	641.7	373,076.05	883,073.26	32.0208728	-103.2306976
Wolfcamp B									
11,750.0	47.10	359.47	11,654.3	-448.5	641.6	373,083.73	883,073.19	32.0208939	-103.2306976
11,775.0	50.10	359.47	11,670.8	-429.8	641.4	373,102.48	883,073.01	32.0209454	-103.2306975
11,800.0	53.10	359.47	11,686.3	-410.2	641.2	373,122.07	883,072.83	32.0209993	-103.2306975
11,825.0	56.10	359.47	11,700.8	-389.8	641.1	373,142.45	883,072.64	32.0210553	-103.2306974
11,850.0	59.10	359.47	11,714.2	-368.7	640.9	373,163.55	883,072.45	32.0211133	-103.2306974
11,875.0	62.10	359.47	11,726.5	-346.9	640.7	373,185.33	883,072.25	32.0211731	-103.2306973
11,900.0	65.10	359.47	11,737.6	-324.5	640.5	373,207.72	883,072.04	32.0212347	-103.2306972
11,925.0	68.10	359.47	11,747.5	-301.6	640.2	373,230.66	883,071.83	32.0212977	-103.2306971
11,950.0	71.10	359.47	11,756.2	-278.2	640.0	373,254.09	883,071.62	32.0213621	-103.2306971
11,975.0	74.10	359.47	11,763.7	-254.3	639.8	373,277.94	883,071.40	32.0214277	-103.2306970
12,000.0	77.10	359.47	11,769.9	-230.1	639.6	373,302.16	883,071.17	32.0214943	-103.2306969
12,025.0	80.10	359.47	11,774.9	-205.6	639.4	373,326.66	883,070.95	32.0215616	-103.2306968
12,050.0	83.10	359.47	11,778.5	-180.9	639.1	373,351.39	883,070.72	32.0216296	-103.2306968
12,075.0	86.10	359.47	11,780.9	-156.0	638.9	373,376.27	883,070.49	32.0216980	-103.2306967
12,100.0	89.10	359.47	11,781.9	-131.0	638.7	373,401.25	883,070.26	32.0217666	-103.2306966
12,107.5	90.00	359.47	11,782.0	-123.6	638.6	373,408.70	883,070.19	32.0217871	-103.2306966
LP-Start 10410.2 hold at 12107.5 MD									
12,200.0	90.00	359.47	11,782.0	-31.0	637.7	373,501.24	883,069.34	32.0220415	-103.2306963
12,300.0	90.00	359.47	11,782.0	69.0	636.8	373,601.24	883,068.42	32.0223164	-103.2306960
12,400.0	90.00	359.47	11,782.0	169.0	635.9	373,701.23	883,067.49	32.0225912	-103.2306956
12,500.0	90.00	359.47	11,782.0	269.0	635.0	373,801.23	883,066.57	32.0228661	-103.2306953
12,600.0	90.00	359.47	11,782.0	369.0	634.1	373,901.22	883,065.65	32.0231409	-103.2306950
12,700.0	90.00	359.47	11,782.0	469.0	633.1	374,001.22	883,064.73	32.0234158	-103.2306947
12,800.0	90.00	359.47	11,782.0	569.0	632.2	374,101.22	883,063.81	32.0236907	-103.2306944
12,900.0	90.00	359.47	11,782.0	669.0	631.3	374,201.21	883,062.88	32.0239655	-103.2306941
13,000.0	90.00	359.47	11,782.0	768.9	630.4	374,301.21	883,061.96	32.0242404	-103.2306937
13,100.0	90.00	359.47	11,782.0	868.9	629.4	374,401.20	883,061.04	32.0245153	-103.2306934
13,200.0	90.00	359.47	11,782.0	968.9	628.5	374,501.20	883,060.12	32.0247901	-103.2306931
13,300.0	90.00	359.47	11,782.0	1,068.9	627.6	374,601.20	883,059.20	32.0250650	-103.2306928
13,400.0	90.00	359.47	11,782.0	1,168.9	626.7	374,701.19	883,058.27	32.0253398	-103.2306925
13,500.0	90.00	359.47	11,782.0	1,268.9	625.8	374,801.19	883,057.35	32.0256147	-103.2306921
13,600.0	90.00	359.47	11,782.0	1,368.9	624.8	374,901.18	883,056.43	32.0258896	-103.2306918
13,700.0	90.00	359.47	11,782.0	1,468.9	623.9	375,001.18	883,055.51	32.0261644	-103.2306915
13,800.0	90.00	359.47	11,782.0	1,568.9	623.0	375,101.17	883,054.59	32.0264393	-103.2306912
13,900.0	90.00	359.47	11,782.0	1,668.9	622.1	375,201.17	883,053.67	32.0267142	-103.2306909
14,000.0	90.00	359.47	11,782.0	1,768.9	621.2	375,301.17	883,052.74	32.0269890	-103.2306905
14,100.0	90.00	359.47	11,782.0	1,868.9	620.2	375,401.16	883,051.82	32.0272639	-103.2306902
14,200.0	90.00	359.47	11,782.0	1,968.9	619.3	375,501.16	883,050.90	32.0275387	-103.2306899
14,300.0	90.00	359.47	11,782.0	2,068.9	618.4	375,601.15	883,049.98	32.0278136	-103.2306896
14,400.0	90.00	359.47	11,782.0	2,168.9	617.5	375,701.15	883,049.06	32.0280885	-103.2306893
14,500.0	90.00	359.47	11,782.0	2,268.9	616.5	375,801.14	883,048.13	32.0283633	-103.2306890
14,600.0	90.00	359.47	11,782.0	2,368.9	615.6	375,901.14	883,047.21	32.0286382	-103.2306886
14,700.0	90.00	359.47	11,782.0	2,468.9	614.7	376,001.14	883,046.29	32.0289131	-103.2306883
14,800.0	90.00	359.47	11,782.0	2,568.9	613.8	376,101.13	883,045.37	32.0291879	-103.2306880
14,900.0	90.00	359.47	11,782.0	2,668.9	612.9	376,201.13	883,044.45	32.0294628	-103.2306877
15,000.0	90.00	359.47	11,782.0	2,768.9	611.9	376,301.12	883,043.53	32.0297376	-103.2306874



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well HOGAN BRIDGE ST COM 26 36 23 127H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 2945.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 2945.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	North Reference:	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 127H	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	
15,100.0	90.00	359.47	11,782.0	2,868.9	611.0	376,401.12	883,042.60	32.0300125	-103.2306870	
15,200.0	90.00	359.47	11,782.0	2,968.9	610.1	376,501.11	883,041.68	32.0302874	-103.2306867	
15,300.0	90.00	359.47	11,782.0	3,068.8	609.2	376,601.11	883,040.76	32.0305622	-103.2306864	
15,400.0	90.00	359.47	11,782.0	3,168.8	608.2	376,701.11	883,039.84	32.0308371	-103.2306861	
15,500.0	90.00	359.47	11,782.0	3,268.8	607.3	376,801.10	883,038.92	32.0311120	-103.2306858	
15,600.0	90.00	359.47	11,782.0	3,368.8	606.4	376,901.10	883,037.99	32.0313868	-103.2306854	
15,700.0	90.00	359.47	11,782.0	3,468.8	605.5	377,001.09	883,037.07	32.0316617	-103.2306851	
15,800.0	90.00	359.47	11,782.0	3,568.8	604.6	377,101.09	883,036.15	32.0319365	-103.2306848	
15,900.0	90.00	359.47	11,782.0	3,668.8	603.6	377,201.08	883,035.23	32.0322114	-103.2306845	
16,000.0	90.00	359.47	11,782.0	3,768.8	602.7	377,301.08	883,034.31	32.0324863	-103.2306842	
16,100.0	90.00	359.47	11,782.0	3,868.8	601.8	377,401.08	883,033.38	32.0327611	-103.2306838	
16,200.0	90.00	359.47	11,782.0	3,968.8	600.9	377,501.07	883,032.46	32.0330360	-103.2306835	
16,300.0	90.00	359.47	11,782.0	4,068.8	599.9	377,601.07	883,031.54	32.0333109	-103.2306832	
16,400.0	90.00	359.47	11,782.0	4,168.8	599.0	377,701.06	883,030.62	32.0335857	-103.2306829	
16,500.0	90.00	359.47	11,782.0	4,268.8	598.1	377,801.06	883,029.70	32.0338606	-103.2306826	
16,600.0	90.00	359.47	11,782.0	4,368.8	597.2	377,901.06	883,028.78	32.0341354	-103.2306822	
16,700.0	90.00	359.47	11,782.0	4,468.8	596.3	378,001.05	883,027.85	32.0344103	-103.2306819	
16,800.0	90.00	359.47	11,782.0	4,568.8	595.3	378,101.05	883,026.93	32.0346852	-103.2306816	
16,900.0	90.00	359.47	11,782.0	4,668.8	594.4	378,201.04	883,026.01	32.0349600	-103.2306813	
17,000.0	90.00	359.47	11,782.0	4,768.8	593.5	378,301.04	883,025.09	32.0352349	-103.2306810	
17,100.0	90.00	359.47	11,782.0	4,868.8	592.6	378,401.03	883,024.17	32.0355097	-103.2306807	
17,200.0	90.00	359.47	11,782.0	4,968.8	591.7	378,501.03	883,023.24	32.0357846	-103.2306803	
17,300.0	90.00	359.47	11,782.0	5,068.8	590.7	378,601.03	883,022.32	32.0360595	-103.2306800	
17,400.0	90.00	359.47	11,782.0	5,168.8	589.8	378,701.02	883,021.40	32.0363343	-103.2306797	
17,500.0	90.00	359.47	11,782.0	5,268.8	588.9	378,801.02	883,020.48	32.0366092	-103.2306794	
17,600.0	90.00	359.47	11,782.0	5,368.8	588.0	378,901.01	883,019.56	32.0368841	-103.2306791	
17,700.0	90.00	359.47	11,782.0	5,468.7	587.0	379,001.01	883,018.64	32.0371589	-103.2306787	
17,800.0	90.00	359.47	11,782.0	5,568.7	586.1	379,101.00	883,017.71	32.0374338	-103.2306784	
17,900.0	90.00	359.47	11,782.0	5,668.7	585.2	379,201.00	883,016.79	32.0377086	-103.2306781	
18,000.0	90.00	359.47	11,782.0	5,768.7	584.3	379,301.00	883,015.87	32.0379835	-103.2306778	
18,100.0	90.00	359.47	11,782.0	5,868.7	583.4	379,400.99	883,014.95	32.0382584	-103.2306775	
18,200.0	90.00	359.47	11,782.0	5,968.7	582.4	379,500.99	883,014.03	32.0385332	-103.2306771	
18,300.0	90.00	359.47	11,782.0	6,068.7	581.5	379,600.98	883,013.10	32.0388081	-103.2306768	
18,400.0	90.00	359.47	11,782.0	6,168.7	580.6	379,700.98	883,012.18	32.0390830	-103.2306765	
18,500.0	90.00	359.47	11,782.0	6,268.7	579.7	379,800.97	883,011.26	32.0393578	-103.2306762	
18,600.0	90.00	359.47	11,782.0	6,368.7	578.7	379,900.97	883,010.34	32.0396327	-103.2306759	
18,700.0	90.00	359.47	11,782.0	6,468.7	577.8	380,000.97	883,009.42	32.0399075	-103.2306755	
18,800.0	90.00	359.47	11,782.0	6,568.7	576.9	380,100.96	883,008.49	32.0401824	-103.2306752	
18,900.0	90.00	359.47	11,782.0	6,668.7	576.0	380,200.96	883,007.57	32.0404573	-103.2306749	
19,000.0	90.00	359.47	11,782.0	6,768.7	575.1	380,300.95	883,006.65	32.0407321	-103.2306746	
19,100.0	90.00	359.47	11,782.0	6,868.7	574.1	380,400.95	883,005.73	32.0410070	-103.2306743	
19,200.0	90.00	359.47	11,782.0	6,968.7	573.2	380,500.94	883,004.81	32.0412818	-103.2306739	
19,300.0	90.00	359.47	11,782.0	7,068.7	572.3	380,600.94	883,003.89	32.0415567	-103.2306736	
19,400.0	90.00	359.47	11,782.0	7,168.7	571.4	380,700.94	883,002.96	32.0418316	-103.2306733	
19,500.0	90.00	359.47	11,782.0	7,268.7	570.4	380,800.93	883,002.04	32.0421064	-103.2306730	
19,600.0	90.00	359.47	11,782.0	7,368.7	569.5	380,900.93	883,001.12	32.0423813	-103.2306727	
19,700.0	90.00	359.47	11,782.0	7,468.7	568.6	381,000.92	883,000.20	32.0426562	-103.2306723	
19,800.0	90.00	359.47	11,782.0	7,568.7	567.7	381,100.92	882,999.28	32.0429310	-103.2306720	
19,900.0	90.00	359.47	11,782.0	7,668.7	566.8	381,200.91	882,998.35	32.0432059	-103.2306717	
20,000.0	90.00	359.47	11,782.0	7,768.6	565.8	381,300.91	882,997.43	32.0434807	-103.2306714	
20,100.0	90.00	359.47	11,782.0	7,868.6	564.9	381,400.91	882,996.51	32.0437556	-103.2306710	
20,200.0	90.00	359.47	11,782.0	7,968.6	564.0	381,500.90	882,995.59	32.0440305	-103.2306707	
20,300.0	90.00	359.47	11,782.0	8,068.6	563.1	381,600.90	882,994.67	32.0443053	-103.2306704	
20,400.0	90.00	359.47	11,782.0	8,168.6	562.2	381,700.89	882,993.74	32.0445802	-103.2306701	



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well HOGAN BRIDGE ST COM 26 36 23 127H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 2945.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 2945.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	North Reference:	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 127H	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
20,500.0	90.00	359.47	11,782.0	8,268.6	561.2	381,800.89	882,992.82	32.0448551	-103.2306698
20,600.0	90.00	359.47	11,782.0	8,368.6	560.3	381,900.89	882,991.90	32.0451299	-103.2306694
20,700.0	90.00	359.47	11,782.0	8,468.6	559.4	382,000.88	882,990.98	32.0454048	-103.2306691
20,800.0	90.00	359.47	11,782.0	8,568.6	558.5	382,100.88	882,990.06	32.0456796	-103.2306688
20,900.0	90.00	359.47	11,782.0	8,668.6	557.5	382,200.87	882,989.14	32.0459545	-103.2306685
21,000.0	90.00	359.47	11,782.0	8,768.6	556.6	382,300.87	882,988.21	32.0462294	-103.2306682
21,100.0	90.00	359.47	11,782.0	8,868.6	555.7	382,400.86	882,987.29	32.0465042	-103.2306678
21,200.0	90.00	359.47	11,782.0	8,968.6	554.8	382,500.86	882,986.37	32.0467791	-103.2306675
21,300.0	90.00	359.47	11,782.0	9,068.6	553.9	382,600.86	882,985.45	32.0470539	-103.2306672
21,400.0	90.00	359.47	11,782.0	9,168.6	552.9	382,700.85	882,984.53	32.0473288	-103.2306669
21,500.0	90.00	359.47	11,782.0	9,268.6	552.0	382,800.85	882,983.60	32.0476037	-103.2306666
21,600.0	90.00	359.47	11,782.0	9,368.6	551.1	382,900.84	882,982.68	32.0478785	-103.2306662
21,700.0	90.00	359.47	11,782.0	9,468.6	550.2	383,000.84	882,981.76	32.0481534	-103.2306659
21,800.0	90.00	359.47	11,782.0	9,568.6	549.2	383,100.83	882,980.84	32.0484283	-103.2306656
21,900.0	90.00	359.47	11,782.0	9,668.6	548.3	383,200.83	882,979.92	32.0487031	-103.2306653
22,000.0	90.00	359.47	11,782.0	9,768.6	547.4	383,300.83	882,979.00	32.0489780	-103.2306650
22,100.0	90.00	359.47	11,782.0	9,868.6	546.5	383,400.82	882,978.07	32.0492528	-103.2306646
22,200.0	90.00	359.47	11,782.0	9,968.6	545.6	383,500.82	882,977.15	32.0495277	-103.2306643
22,300.0	90.00	359.47	11,782.0	10,068.6	544.6	383,600.81	882,976.23	32.0498026	-103.2306640
22,400.0	90.00	359.47	11,782.0	10,168.5	543.7	383,700.81	882,975.31	32.0500774	-103.2306637
22,500.0	90.00	359.47	11,782.0	10,268.5	542.8	383,800.80	882,974.39	32.0503523	-103.2306634
22,517.6	90.00	359.47	11,782.0	10,286.2	542.6	383,818.43	882,974.22	32.0504007	-103.2306633
TD at 22517.6									

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
LTP (HBSC 127H) - plan hits target center - Point	0.00	0.00	11,782.0	10,236.2	543.1	383,768.44	882,974.67	32.0502633	-103.2306635
FTP (HBSC 127H) - plan misses target center by 0.1usft at 12107.7usft MD (11782.0 TVD, -123.3 N, 638.6 E) - Point	0.00	0.00	11,782.0	-123.3	638.7	373,408.92	883,070.31	32.0217877	-103.2306962
BHL (HBSC 127H) - plan hits target center - Point	0.00	0.00	11,782.0	10,286.2	542.6	383,818.43	882,974.22	32.0504007	-103.2306633



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well HOGAN BRIDGE ST COM 26 36 23 127H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 2945.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 2945.0usft
Site:	HOGAN/NELSON BRIDGE PROJECT	North Reference:	Grid
Well:	HOGAN BRIDGE ST COM 26 36 23 127H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,650.1	1,647.0	Rustler			
2,065.2	2,059.0	Salado			
3,109.0	3,095.0	Tansill			
3,646.0	3,628.0	Capitan			
4,967.8	4,940.0	Lamar			
5,336.6	5,306.0	Bell Canyon			
6,563.7	6,524.0	Brushy Canyon			
7,234.7	7,190.0	Bone Spring Lime			
9,217.0	9,164.0	First Bone Spring			
9,724.0	9,671.0	Second Bone Spring			
10,481.0	10,428.0	Third Bone Spring Lime			
11,192.0	11,139.0	Third Bone Spring			
11,339.0	11,286.0	Wolfcamp			
11,739.4	11,647.0	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
1,350.0	1,349.1	-14.6	15.6	Start 6871.6 hold at 1350.0 MD
8,221.6	8,169.5	-586.4	627.4	Start Drop -2.00
8,571.6	8,518.6	-601.0	643.0	Start 2785.9 hold at 8571.6 MD
11,357.5	11,304.5	-601.0	643.0	KOP-Start DLS 12.00 TFO 359.47
12,107.5	11,782.0	-123.6	638.6	LP-Start 10410.2 hold at 12107.5 MD
22,517.6	11,782.0	10,286.2	542.6	TD at 22517.6

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