Form C-101
August 1, 2011

Permit 347779

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

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

1. Operator Name and Address	2. OGRID Number
AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	372224

	3. API Number
	30-025-51896

4. Property Code	5. Property Name	6. Well No.
320645	MAGNOLIA 26 36 22 STATE COM	183H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	22	26S	36E	P	230	S	1035	E	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	15	26S	36E	B	50	N	1650	E	Lea

9. Pool Information

WC-025 G-08 S263620C;LWR BONE SPRIN	98150

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	2907

16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	20558	2nd Bone Spring Carbonate		1/1/2024

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	54.5	1988	1551	0
Int1	12.25	10.75	45.5	5144	1301	0
Prod	8.75	5.5	17	20558	6368	0

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	TBD

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

Printed Name:	Electronically filed by Christie Hanna	Approved By:	Paul F Kautz	
Title:	Regulatory	Title:	Geologist	
Email Address:	channa@ameredev.com	Approved Date:	8/25/2023	Expiration Date: 8/25/2025
Date:	8/18/2023	Phone: 737-300-4723	Conditions of Approval Attached	

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
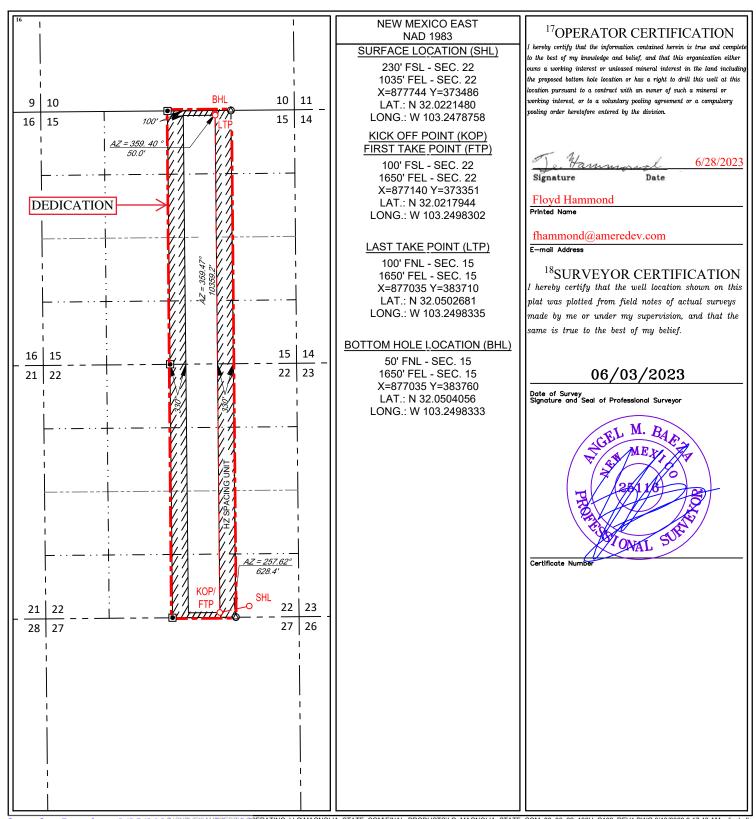**Submit one copy to appropriate**
District Office

☐ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹API Number	²Pool Code	³Pool Name
30-025-	98150	WC-025 G-08 S263620C; LWR BONE SPRING

⁴Property Code	⁵Property Name	⁶Well Number
320645	MAGNOLIA 26 36 22 STATE COM	183H

⁷OGRID No.	⁸Operator Name	⁹Elevation
372224	AMEREDEV OPERATING, LLC.	2907'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	22	26-S	36-E	–	230'	SOUTH	1035'	EAST	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
B	15	26-S	36-E	–	50'	NORTH	1650'	EAST	LEA

¹²Dedicated Acres	¹³Joint or Infill	¹⁴Consolidation Code	¹⁵Order No.
320		C	

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

NEW MEXICO EAST
NAD 1983

SURFACE LOCATION (SHL)
230' FSL - SEC. 22
1035' FEL - SEC. 22
X=877744 Y=373486
LAT.: N 32.0221480
LONG.: W 103.2478758

KICK OFF POINT (KOP)
FIRST TAKE POINT (FTP)
100' FSL - SEC. 22
1650' FEL - SEC. 22
X=877140 Y=373351
LAT.: N 32.0217944
LONG.: W 103.2498302

LAST TAKE POINT (LTP)
100' FNL - SEC. 15
1650' FEL - SEC. 15
X=877035 Y=383710
LAT.: N 32.0502681
LONG.: W 103.2498335

BOTTOM HOLE LOCATION (BHL)
50' FNL - SEC. 15
1650' FEL - SEC. 15
X=877035 Y=383760
LAT.: N 32.0504056
LONG.: W 103.2498333

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.

Signature _____ 6/28/2023
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

Certificate Number

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 347779

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
AMEREDEV OPERATING, LLC [372224] 2901 Via Fortuna Austin, TX 78746	30-025-51896
	Well: MAGNOLIA 26 36 22 STATE COM #183H

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
pkautz	IF ON ANY STRING CEMENT DOES NOT CIRCULATE, A RCBL MUST BE RUN ON THAT STRING OF CASING.

Ameredev Operating

Lea County, NM (N83-NME)
MAGNOLIA ST COM PROJECT
MAGNOLIA 26 36 22 ST COM #183H

OWB

Plan: PWP

Standard Planning Report - Geographic

14 June, 2023

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well MAGNOLIA ST COM 26 36 22 #183H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2934.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2934.0usft
Site:	MAGNOLIA ST COM PROJECT	**North Reference:**	Grid
Well:	MAGNOLIA ST COM 26 36 22 #183H	**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	MAGNOLIA ST COM PROJECT				
Site Position:		**Northing:**	373,452.69 usft	**Latitude:**	32.0221651
From:	Lat/Long	**Easting:**	873,778.76 usft	**Longitude:**	-103.2606704
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well	MAGNOLIA ST COM 26 36 22 #183H				
Well Position	**+N/-S**	0.0 usft	**Northing:**	373,486.08 usft	**Latitude:**	32.0221480
	+E/-W	0.0 usft	**Easting:**	877,744.35 usft	**Longitude:**	-103.2478758
Position Uncertainty	3.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	2,907.0 usft
Grid Convergence:	0.58 °				

Wellbore	OWB

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2020	6/13/2023	6.14	59.69	47,202.02801442

Design	PWP		
Audit Notes:			
Version:	**Phase:** PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.0	0.0	0.0	359.41

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

	Depth From (usft)	**Depth To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Remarks**
1	0.0	20,558.0	PWP (OWB)	MWD	
				OWSG MWD - Standard	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,900.0	8.00	224.43	1,898.7	-19.9	-19.5	2.00	2.00	0.00	224.43	
7,637.2	8.00	224.43	7,580.1	-590.1	-578.5	0.00	0.00	0.00	0.00	
8,037.2	0.00	0.00	7,978.8	-610.0	-598.0	2.00	-2.00	0.00	180.00	
9,400.9	0.00	0.00	9,342.5	-610.0	-598.0	0.00	0.00	0.00	0.00	
10,150.9	90.00	359.41	9,820.0	-132.6	-602.9	12.00	12.00	-0.08	359.41	
20,558.0	90.00	359.41	9,820.0	10,274.0	-710.8	0.00	0.00	0.00	0.00	BHL (MSC 183H)

AMEREDEV

Planning Report - Geographic

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Site:	MAGNOLIA ST COM PROJECT	**North Reference:**	Grid
Well:	MAGNOLIA ST COM 26 36 22 #183H	**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	373,486.08	877,744.35	32.0221480	-103.2478758
100.0	0.00	0.00	100.0	0.0	0.0	373,486.08	877,744.35	32.0221480	-103.2478758
200.0	0.00	0.00	200.0	0.0	0.0	373,486.08	877,744.35	32.0221480	-103.2478758
300.0	0.00	0.00	300.0	0.0	0.0	373,486.08	877,744.35	32.0221480	-103.2478758
400.0	0.00	0.00	400.0	0.0	0.0	373,486.08	877,744.35	32.0221480	-103.2478758
500.0	0.00	0.00	500.0	0.0	0.0	373,486.08	877,744.35	32.0221480	-103.2478758
600.0	0.00	0.00	600.0	0.0	0.0	373,486.08	877,744.35	32.0221480	-103.2478758
700.0	0.00	0.00	700.0	0.0	0.0	373,486.08	877,744.35	32.0221480	-103.2478758
800.0	0.00	0.00	800.0	0.0	0.0	373,486.08	877,744.35	32.0221480	-103.2478758
900.0	0.00	0.00	900.0	0.0	0.0	373,486.08	877,744.35	32.0221480	-103.2478758
1,000.0	0.00	0.00	1,000.0	0.0	0.0	373,486.08	877,744.35	32.0221480	-103.2478758
1,100.0	0.00	0.00	1,100.0	0.0	0.0	373,486.08	877,744.35	32.0221480	-103.2478758
1,200.0	0.00	0.00	1,200.0	0.0	0.0	373,486.08	877,744.35	32.0221480	-103.2478758
1,300.0	0.00	0.00	1,300.0	0.0	0.0	373,486.08	877,744.35	32.0221480	-103.2478758
1,400.0	0.00	0.00	1,400.0	0.0	0.0	373,486.08	877,744.35	32.0221480	-103.2478758
1,500.0	0.00	0.00	1,500.0	0.0	0.0	373,486.08	877,744.35	32.0221480	-103.2478758
Start Build 2.00									
1,600.0	2.00	224.43	1,600.0	-1.2	-1.2	373,484.83	877,743.13	32.0221446	-103.2478798
1,700.0	4.00	224.43	1,699.8	-5.0	-4.9	373,481.10	877,739.46	32.0221345	-103.2478917
1,800.0	6.00	224.43	1,799.5	-11.2	-11.0	373,474.87	877,733.36	32.0221175	-103.2479116
1,900.0	8.00	224.43	1,898.7	-19.9	-19.5	373,466.17	877,724.83	32.0220938	-103.2479394
Start 5737.2 hold at 1900.0 MD									
1,964.9	8.00	224.43	1,963.0	-26.4	-25.8	373,459.72	877,718.51	32.0220763	-103.2479600
Rustler									
2,000.0	8.00	224.43	1,997.7	-29.8	-29.3	373,456.23	877,715.09	32.0220668	-103.2479712
2,100.0	8.00	224.43	2,096.8	-39.8	-39.0	373,446.29	877,705.35	32.0220398	-103.2480029
2,200.0	8.00	224.43	2,195.8	-49.7	-48.7	373,436.36	877,695.60	32.0220127	-103.2480347
2,300.0	8.00	224.43	2,294.8	-59.7	-58.5	373,426.42	877,685.86	32.0219857	-103.2480664
2,347.7	8.00	224.43	2,342.0	-64.4	-63.1	373,421.68	877,681.22	32.0219728	-103.2480815
Salado									
2,400.0	8.00	224.43	2,393.8	-69.6	-68.2	373,416.48	877,676.12	32.0219586	-103.2480982
2,500.0	8.00	224.43	2,492.9	-79.5	-78.0	373,406.54	877,666.38	32.0219316	-103.2481299
2,600.0	8.00	224.43	2,591.9	-89.5	-87.7	373,396.60	877,656.63	32.0219045	-103.2481617
2,700.0	8.00	224.43	2,690.9	-99.4	-97.5	373,386.66	877,646.89	32.0218775	-103.2481934
2,800.0	8.00	224.43	2,789.9	-109.4	-107.2	373,376.73	877,637.15	32.0218504	-103.2482252
2,900.0	8.00	224.43	2,889.0	-119.3	-116.9	373,366.79	877,627.40	32.0218234	-103.2482569
2,945.5	8.00	224.43	2,934.0	-123.8	-121.4	373,362.27	877,622.97	32.0218111	-103.2482714
Dewey Lake									
3,000.0	8.00	224.43	2,988.0	-129.2	-126.7	373,356.85	877,617.66	32.0217963	-103.2482887
3,100.0	8.00	224.43	3,087.0	-139.2	-136.4	373,346.91	877,607.92	32.0217693	-103.2483204
3,200.0	8.00	224.43	3,186.1	-149.1	-146.2	373,336.97	877,598.18	32.0217422	-103.2483522
3,209.0	8.00	224.43	3,195.0	-150.0	-147.1	373,336.07	877,597.30	32.0217398	-103.2483551
Tansill									
3,300.0	8.00	224.43	3,285.1	-159.0	-155.9	373,327.03	877,588.43	32.0217152	-103.2483840
3,400.0	8.00	224.43	3,384.1	-169.0	-165.7	373,317.10	877,578.69	32.0216881	-103.2484157
3,500.0	8.00	224.43	3,483.1	-178.9	-175.4	373,307.16	877,568.95	32.0216611	-103.2484475
3,600.0	8.00	224.43	3,582.2	-188.9	-185.1	373,297.22	877,559.21	32.0216341	-103.2484792
3,700.0	8.00	224.43	3,681.2	-198.8	-194.9	373,287.28	877,549.46	32.0216070	-103.2485110
3,800.0	8.00	224.43	3,780.2	-208.7	-204.6	373,277.34	877,539.72	32.0215800	-103.2485427
3,832.1	8.00	224.43	3,812.0	-211.9	-207.8	373,274.15	877,536.59	32.0215713	-103.2485529
Capitan									
3,900.0	8.00	224.43	3,879.2	-218.7	-214.4	373,267.40	877,529.98	32.0215529	-103.2485745
4,000.0	8.00	224.43	3,978.3	-228.6	-224.1	373,257.47	877,520.23	32.0215259	-103.2486062
4,100.0	8.00	224.43	4,077.3	-238.6	-233.9	373,247.53	877,510.49	32.0214988	-103.2486380

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well MAGNOLIA ST COM 26 36 22 #183H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2934.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2934.0usft
Site:	MAGNOLIA ST COM PROJECT	**North Reference:**	Grid
Well:	MAGNOLIA ST COM 26 36 22 #183H	**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	8.00	224.43	4,176.3	-248.5	-243.6	373,237.59	877,500.75	32.0214718	-103.2486697
4,300.0	8.00	224.43	4,275.3	-258.4	-253.3	373,227.65	877,491.01	32.0214447	-103.2487015
4,400.0	8.00	224.43	4,374.4	-268.4	-263.1	373,217.71	877,481.26	32.0214177	-103.2487332
4,500.0	8.00	224.43	4,473.4	-278.3	-272.8	373,207.77	877,471.52	32.0213906	-103.2487650
4,600.0	8.00	224.43	4,572.4	-288.2	-282.6	373,197.84	877,461.78	32.0213636	-103.2487967
4,700.0	8.00	224.43	4,671.5	-298.2	-292.3	373,187.90	877,452.03	32.0213365	-103.2488285
4,800.0	8.00	224.43	4,770.5	-308.1	-302.1	373,177.96	877,442.29	32.0213095	-103.2488602
4,900.0	8.00	224.43	4,869.5	-318.1	-311.8	373,168.02	877,432.55	32.0212824	-103.2488920
5,000.0	8.00	224.43	4,968.5	-328.0	-321.5	373,158.08	877,422.81	32.0212554	-103.2489238
5,051.0	8.00	224.43	5,019.0	-333.1	-326.5	373,153.02	877,417.84	32.0212416	-103.2489399
Lamar									
5,100.0	8.00	224.43	5,067.6	-337.9	-331.3	373,148.14	877,413.06	32.0212284	-103.2489555
5,200.0	8.00	224.43	5,166.6	-347.9	-341.0	373,138.21	877,403.32	32.0212013	-103.2489873
5,298.4	8.00	224.43	5,264.0	-357.6	-350.6	373,128.43	877,393.74	32.0211747	-103.2490185
Bell Canyon									
5,300.0	8.00	224.43	5,265.6	-357.8	-350.8	373,128.27	877,393.58	32.0211743	-103.2490190
5,400.0	8.00	224.43	5,364.6	-367.7	-360.5	373,118.33	877,383.83	32.0211472	-103.2490508
5,500.0	8.00	224.43	5,463.7	-377.7	-370.3	373,108.39	877,374.09	32.0211202	-103.2490825
5,600.0	8.00	224.43	5,562.7	-387.6	-380.0	373,098.45	877,364.35	32.0210931	-103.2491143
5,700.0	8.00	224.43	5,661.7	-397.6	-389.7	373,088.51	877,354.61	32.0210661	-103.2491460
5,800.0	8.00	224.43	5,760.7	-407.5	-399.5	373,078.58	877,344.86	32.0210390	-103.2491778
5,900.0	8.00	224.43	5,859.8	-417.4	-409.2	373,068.64	877,335.12	32.0210120	-103.2492095
6,000.0	8.00	224.43	5,958.8	-427.4	-419.0	373,058.70	877,325.38	32.0209849	-103.2492413
6,100.0	8.00	224.43	6,057.8	-437.3	-428.7	373,048.76	877,315.64	32.0209579	-103.2492730
6,200.0	8.00	224.43	6,156.9	-447.3	-438.5	373,038.82	877,305.89	32.0209308	-103.2493048
6,300.0	8.00	224.43	6,255.9	-457.2	-448.2	373,028.89	877,296.15	32.0209038	-103.2493365
6,400.0	8.00	224.43	6,354.9	-467.1	-457.9	373,018.95	877,286.41	32.0208767	-103.2493683
6,500.0	8.00	224.43	6,453.9	-477.1	-467.7	373,009.01	877,276.66	32.0208497	-103.2494000
6,600.0	8.00	224.43	6,553.0	-487.0	-477.4	372,999.07	877,266.92	32.0208227	-103.2494318
6,700.0	8.00	224.43	6,652.0	-496.9	-487.2	372,989.13	877,257.18	32.0207956	-103.2494636
6,738.4	8.00	224.43	6,690.0	-500.8	-490.9	372,985.32	877,253.44	32.0207852	-103.2494757
Brushy Canyon									
6,800.0	8.00	224.43	6,751.0	-506.9	-496.9	372,979.19	877,247.44	32.0207686	-103.2494953
6,900.0	8.00	224.43	6,850.0	-516.8	-506.7	372,969.26	877,237.69	32.0207415	-103.2495271
7,000.0	8.00	224.43	6,949.1	-526.8	-516.4	372,959.32	877,227.95	32.0207145	-103.2495588
7,100.0	8.00	224.43	7,048.1	-536.7	-526.1	372,949.38	877,218.21	32.0206874	-103.2495906
7,200.0	8.00	224.43	7,147.1	-546.6	-535.9	372,939.44	877,208.46	32.0206604	-103.2496223
7,300.0	8.00	224.43	7,246.1	-556.6	-545.6	372,929.50	877,198.72	32.0206333	-103.2496541
7,400.0	8.00	224.43	7,345.2	-566.5	-555.4	372,919.56	877,188.98	32.0206063	-103.2496858
7,500.0	8.00	224.43	7,444.2	-576.5	-565.1	372,909.63	877,179.24	32.0205792	-103.2497176
7,573.5	8.00	224.43	7,517.0	-583.8	-572.3	372,902.32	877,172.07	32.0205594	-103.2497409
Bone Spring Lime									
7,600.0	8.00	224.43	7,543.2	-586.4	-574.9	372,899.69	877,169.49	32.0205522	-103.2497493
7,637.2	8.00	224.43	7,580.1	-590.1	-578.5	372,895.99	877,165.87	32.0205421	-103.2497611
Start Drop -2.00									
7,700.0	6.74	224.43	7,642.3	-595.8	-584.1	372,890.24	877,160.23	32.0205265	-103.2497795
7,800.0	4.74	224.43	7,741.8	-603.0	-591.1	372,883.09	877,153.22	32.0205070	-103.2498024
7,900.0	2.74	224.43	7,841.6	-607.7	-595.7	372,878.43	877,148.65	32.0204943	-103.2498173
8,000.0	0.74	224.43	7,941.6	-609.8	-597.8	372,876.25	877,146.52	32.0204884	-103.2498242
8,037.2	0.00	0.00	7,978.8	-610.0	-598.0	372,876.08	877,146.35	32.0204879	-103.2498248
Start 1363.7 hold at 8037.2 MD									
8,100.0	0.00	0.00	8,041.6	-610.0	-598.0	372,876.08	877,146.35	32.0204879	-103.2498248
8,200.0	0.00	0.00	8,141.6	-610.0	-598.0	372,876.08	877,146.35	32.0204879	-103.2498248
8,300.0	0.00	0.00	8,241.6	-610.0	-598.0	372,876.08	877,146.35	32.0204879	-103.2498248

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well MAGNOLIA ST COM 26 36 22 #183H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2934.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2934.0usft
Site:	MAGNOLIA ST COM PROJECT	**North Reference:**	Grid
Well:	MAGNOLIA ST COM 26 36 22 #183H	**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
8,400.0	0.00	0.00	8,341.6	-610.0	-598.0	372,876.08	877,146.35	32.0204879	-103.2498248
8,500.0	0.00	0.00	8,441.6	-610.0	-598.0	372,876.08	877,146.35	32.0204879	-103.2498248
8,600.0	0.00	0.00	8,541.6	-610.0	-598.0	372,876.08	877,146.35	32.0204879	-103.2498248
8,700.0	0.00	0.00	8,641.6	-610.0	-598.0	372,876.08	877,146.35	32.0204879	-103.2498248
8,800.0	0.00	0.00	8,741.6	-610.0	-598.0	372,876.08	877,146.35	32.0204879	-103.2498248
8,900.0	0.00	0.00	8,841.6	-610.0	-598.0	372,876.08	877,146.35	32.0204879	-103.2498248
9,000.0	0.00	0.00	8,941.6	-610.0	-598.0	372,876.08	877,146.35	32.0204879	-103.2498248
9,100.0	0.00	0.00	9,041.6	-610.0	-598.0	372,876.08	877,146.35	32.0204879	-103.2498248
9,200.0	0.00	0.00	9,141.6	-610.0	-598.0	372,876.08	877,146.35	32.0204879	-103.2498248
9,300.0	0.00	0.00	9,241.6	-610.0	-598.0	372,876.08	877,146.35	32.0204879	-103.2498248
9,378.4	0.00	0.00	9,320.0	-610.0	-598.0	372,876.08	877,146.35	32.0204879	-103.2498248
First Bone Spring									
9,400.9	0.00	0.00	9,342.5	-610.0	-598.0	372,876.08	877,146.35	32.0204879	-103.2498248
KOP-Start DLS 12.00 TFO 359.41									
9,425.0	2.89	359.41	9,366.6	-609.4	-598.0	372,876.69	877,146.34	32.0204896	-103.2498248
9,450.0	5.89	359.41	9,391.5	-607.5	-598.0	372,878.60	877,146.32	32.0204949	-103.2498248
9,475.0	8.89	359.41	9,416.3	-604.3	-598.1	372,881.81	877,146.29	32.0205037	-103.2498248
9,500.0	11.89	359.41	9,440.9	-599.8	-598.1	372,886.32	877,146.24	32.0205161	-103.2498248
9,525.0	14.89	359.41	9,465.2	-594.0	-598.2	372,892.11	877,146.18	32.0205320	-103.2498248
9,550.0	17.89	359.41	9,489.2	-586.9	-598.2	372,899.16	877,146.11	32.0205514	-103.2498248
9,575.0	20.89	359.41	9,512.7	-578.6	-598.3	372,907.46	877,146.02	32.0205742	-103.2498248
9,600.0	23.89	359.41	9,535.9	-569.1	-598.4	372,916.98	877,145.93	32.0206004	-103.2498248
9,625.0	26.89	359.41	9,558.4	-558.4	-598.5	372,927.69	877,145.81	32.0206298	-103.2498248
9,650.0	29.89	359.41	9,580.4	-546.5	-598.7	372,939.58	877,145.69	32.0206625	-103.2498249
9,675.0	32.89	359.41	9,601.8	-533.5	-598.8	372,952.60	877,145.56	32.0206983	-103.2498249
9,700.0	35.89	359.41	9,622.4	-519.4	-598.9	372,966.72	877,145.41	32.0207371	-103.2498249
9,725.0	38.89	359.41	9,642.3	-504.2	-599.1	372,981.89	877,145.25	32.0207788	-103.2498249
9,750.0	41.89	359.41	9,661.3	-488.0	-599.3	372,998.09	877,145.08	32.0208233	-103.2498249
9,775.0	44.89	359.41	9,679.5	-470.8	-599.4	373,015.26	877,144.91	32.0208705	-103.2498249
9,800.0	47.89	359.41	9,696.7	-452.7	-599.6	373,033.36	877,144.72	32.0209203	-103.2498249
9,825.0	50.89	359.41	9,713.0	-433.7	-599.8	373,052.33	877,144.52	32.0209724	-103.2498249
9,850.0	53.89	359.41	9,728.2	-413.9	-600.0	373,072.13	877,144.32	32.0210269	-103.2498250
9,875.0	56.89	359.41	9,742.4	-393.4	-600.2	373,092.71	877,144.10	32.0210834	-103.2498250
9,900.0	59.89	359.41	9,755.5	-372.1	-600.5	373,113.99	877,143.88	32.0211419	-103.2498250
9,925.0	62.89	359.41	9,767.5	-350.1	-600.7	373,135.94	877,143.66	32.0212022	-103.2498250
9,950.0	65.89	359.41	9,778.3	-327.6	-600.9	373,158.48	877,143.42	32.0212642	-103.2498251
9,975.0	68.89	359.41	9,787.9	-304.5	-601.2	373,181.55	877,143.18	32.0213276	-103.2498251
10,000.0	71.89	359.41	9,796.3	-281.0	-601.4	373,205.10	877,142.94	32.0213923	-103.2498251
10,005.5	72.55	359.41	9,798.0	-275.7	-601.5	373,210.37	877,142.88	32.0214068	-103.2498251
Second Bone Spring									
10,025.0	74.89	359.41	9,803.5	-257.0	-601.7	373,229.05	877,142.69	32.0214582	-103.2498251
10,050.0	77.89	359.41	9,809.3	-232.7	-601.9	373,253.34	877,142.44	32.0215250	-103.2498252
10,075.0	80.89	359.41	9,813.9	-208.2	-602.2	373,277.91	877,142.18	32.0215925	-103.2498252
10,100.0	83.89	359.41	9,817.3	-183.4	-602.4	373,302.69	877,141.93	32.0216606	-103.2498252
10,125.0	86.89	359.41	9,819.3	-158.5	-602.7	373,327.60	877,141.67	32.0217291	-103.2498252
10,150.9	90.00	359.41	9,820.0	-132.6	-602.9	373,353.52	877,141.40	32.0218003	-103.2498253
LP-Start 10407.1 hold at 10150.9 MD									
10,200.0	90.00	359.41	9,820.0	-83.5	-603.5	373,402.58	877,140.89	32.0219352	-103.2498253
10,300.0	90.00	359.41	9,820.0	16.5	-604.5	373,502.58	877,139.85	32.0222101	-103.2498254
10,400.0	90.00	359.41	9,820.0	116.5	-605.5	373,602.57	877,138.82	32.0224849	-103.2498255
10,500.0	90.00	359.41	9,820.0	216.5	-606.6	373,702.57	877,137.78	32.0227598	-103.2498257
10,600.0	90.00	359.41	9,820.0	316.5	-607.6	373,802.56	877,136.75	32.0230346	-103.2498258
10,700.0	90.00	359.41	9,820.0	416.5	-608.6	373,902.56	877,135.71	32.0233095	-103.2498259
10,800.0	90.00	359.41	9,820.0	516.5	-609.7	374,002.55	877,134.67	32.0235844	-103.2498260

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well MAGNOLIA ST COM 26 36 22 #183H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2934.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2934.0usft
Site:	MAGNOLIA ST COM PROJECT	**North Reference:**	Grid
Well:	MAGNOLIA ST COM 26 36 22 #183H	**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
10,900.0	90.00	359.41	9,820.0	616.5	-610.7	374,102.55	877,133.64	32.0238592	-103.2498261
11,000.0	90.00	359.41	9,820.0	716.5	-611.8	374,202.54	877,132.60	32.0241341	-103.2498262
11,100.0	90.00	359.41	9,820.0	816.5	-612.8	374,302.54	877,131.56	32.0244090	-103.2498263
11,200.0	90.00	359.41	9,820.0	916.5	-613.8	374,402.53	877,130.53	32.0246838	-103.2498264
11,300.0	90.00	359.41	9,820.0	1,016.4	-614.9	374,502.53	877,129.49	32.0249587	-103.2498265
11,400.0	90.00	359.41	9,820.0	1,116.4	-615.9	374,602.52	877,128.45	32.0252336	-103.2498266
11,500.0	90.00	359.41	9,820.0	1,216.4	-616.9	374,702.51	877,127.42	32.0255084	-103.2498267
11,600.0	90.00	359.41	9,820.0	1,316.4	-618.0	374,802.51	877,126.38	32.0257833	-103.2498269
11,700.0	90.00	359.41	9,820.0	1,416.4	-619.0	374,902.50	877,125.34	32.0260581	-103.2498270
11,800.0	90.00	359.41	9,820.0	1,516.4	-620.0	375,002.50	877,124.31	32.0263330	-103.2498271
11,900.0	90.00	359.41	9,820.0	1,616.4	-621.1	375,102.49	877,123.27	32.0266079	-103.2498272
12,000.0	90.00	359.41	9,820.0	1,716.4	-622.1	375,202.49	877,122.23	32.0268827	-103.2498273
12,100.0	90.00	359.41	9,820.0	1,816.4	-623.2	375,302.48	877,121.20	32.0271576	-103.2498274
12,200.0	90.00	359.41	9,820.0	1,916.4	-624.2	375,402.48	877,120.16	32.0274325	-103.2498275
12,300.0	90.00	359.41	9,820.0	2,016.4	-625.2	375,502.47	877,119.12	32.0277073	-103.2498276
12,400.0	90.00	359.41	9,820.0	2,116.4	-626.3	375,602.47	877,118.09	32.0279822	-103.2498277
12,500.0	90.00	359.41	9,820.0	2,216.4	-627.3	375,702.46	877,117.05	32.0282571	-103.2498278
12,600.0	90.00	359.41	9,820.0	2,316.4	-628.3	375,802.46	877,116.01	32.0285319	-103.2498279
12,700.0	90.00	359.41	9,820.0	2,416.4	-629.4	375,902.45	877,114.98	32.0288068	-103.2498280
12,800.0	90.00	359.41	9,820.0	2,516.4	-630.4	376,002.44	877,113.94	32.0290816	-103.2498282
12,900.0	90.00	359.41	9,820.0	2,616.4	-631.4	376,102.44	877,112.90	32.0293565	-103.2498283
13,000.0	90.00	359.41	9,820.0	2,716.4	-632.5	376,202.43	877,111.87	32.0296314	-103.2498284
13,100.0	90.00	359.41	9,820.0	2,816.3	-633.5	376,302.43	877,110.83	32.0299062	-103.2498285
13,200.0	90.00	359.41	9,820.0	2,916.3	-634.6	376,402.42	877,109.79	32.0301811	-103.2498286
13,300.0	90.00	359.41	9,820.0	3,016.3	-635.6	376,502.42	877,108.76	32.0304560	-103.2498287
13,400.0	90.00	359.41	9,820.0	3,116.3	-636.6	376,602.41	877,107.72	32.0307308	-103.2498288
13,500.0	90.00	359.41	9,820.0	3,216.3	-637.7	376,702.41	877,106.68	32.0310057	-103.2498289
13,600.0	90.00	359.41	9,820.0	3,316.3	-638.7	376,802.40	877,105.65	32.0312806	-103.2498290
13,700.0	90.00	359.41	9,820.0	3,416.3	-639.7	376,902.40	877,104.61	32.0315554	-103.2498291
13,800.0	90.00	359.41	9,820.0	3,516.3	-640.8	377,002.39	877,103.57	32.0318303	-103.2498292
13,900.0	90.00	359.41	9,820.0	3,616.3	-641.8	377,102.39	877,102.54	32.0321051	-103.2498293
14,000.0	90.00	359.41	9,820.0	3,716.3	-642.8	377,202.38	877,101.50	32.0323800	-103.2498295
14,100.0	90.00	359.41	9,820.0	3,816.3	-643.9	377,302.37	877,100.46	32.0326549	-103.2498296
14,200.0	90.00	359.41	9,820.0	3,916.3	-644.9	377,402.37	877,099.43	32.0329297	-103.2498297
14,300.0	90.00	359.41	9,820.0	4,016.3	-646.0	377,502.36	877,098.39	32.0332046	-103.2498298
14,400.0	90.00	359.41	9,820.0	4,116.3	-647.0	377,602.36	877,097.35	32.0334795	-103.2498299
14,500.0	90.00	359.41	9,820.0	4,216.3	-648.0	377,702.35	877,096.32	32.0337543	-103.2498300
14,600.0	90.00	359.41	9,820.0	4,316.3	-649.1	377,802.35	877,095.28	32.0340292	-103.2498301
14,700.0	90.00	359.41	9,820.0	4,416.3	-650.1	377,902.34	877,094.24	32.0343041	-103.2498302
14,800.0	90.00	359.41	9,820.0	4,516.3	-651.1	378,002.34	877,093.21	32.0345789	-103.2498303
14,900.0	90.00	359.41	9,820.0	4,616.3	-652.2	378,102.33	877,092.17	32.0348538	-103.2498304
15,000.0	90.00	359.41	9,820.0	4,716.2	-653.2	378,202.33	877,091.13	32.0351286	-103.2498305
15,100.0	90.00	359.41	9,820.0	4,816.2	-654.3	378,302.32	877,090.10	32.0354035	-103.2498306
15,200.0	90.00	359.41	9,820.0	4,916.2	-655.3	378,402.32	877,089.06	32.0356784	-103.2498307
15,300.0	90.00	359.41	9,820.0	5,016.2	-656.3	378,502.31	877,088.02	32.0359532	-103.2498309
15,400.0	90.00	359.41	9,820.0	5,116.2	-657.4	378,602.31	877,086.99	32.0362281	-103.2498310
15,500.0	90.00	359.41	9,820.0	5,216.2	-658.4	378,702.30	877,085.95	32.0365030	-103.2498311
15,600.0	90.00	359.41	9,820.0	5,316.2	-659.4	378,802.29	877,084.91	32.0367778	-103.2498312
15,700.0	90.00	359.41	9,820.0	5,416.2	-660.5	378,902.29	877,083.88	32.0370527	-103.2498313
15,800.0	90.00	359.41	9,820.0	5,516.2	-661.5	379,002.28	877,082.84	32.0373276	-103.2498314
15,900.0	90.00	359.41	9,820.0	5,616.2	-662.5	379,102.28	877,081.81	32.0376024	-103.2498315
16,000.0	90.00	359.41	9,820.0	5,716.2	-663.6	379,202.27	877,080.77	32.0378773	-103.2498316
16,100.0	90.00	359.41	9,820.0	5,816.2	-664.6	379,302.27	877,079.73	32.0381521	-103.2498317
16,200.0	90.00	359.41	9,820.0	5,916.2	-665.7	379,402.26	877,078.70	32.0384270	-103.2498318
16,300.0	90.00	359.41	9,820.0	6,016.2	-666.7	379,502.26	877,077.66	32.0387019	-103.2498319

AMEREDEV　　　　　　Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well MAGNOLIA ST COM 26 36 22 #183H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2934.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2934.0usft
Site:	MAGNOLIA ST COM PROJECT	**North Reference:**	Grid
Well:	MAGNOLIA ST COM 26 36 22 #183H	**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
16,400.0	90.00	359.41	9,820.0	6,116.2	-667.7	379,602.25	877,076.62	32.0389767	-103.2498320
16,500.0	90.00	359.41	9,820.0	6,216.2	-668.8	379,702.25	877,075.59	32.0392516	-103.2498321
16,600.0	90.00	359.41	9,820.0	6,316.2	-669.8	379,802.24	877,074.55	32.0395265	-103.2498323
16,700.0	90.00	359.41	9,820.0	6,416.2	-670.8	379,902.24	877,073.51	32.0398013	-103.2498324
16,800.0	90.00	359.41	9,820.0	6,516.2	-671.9	380,002.23	877,072.48	32.0400762	-103.2498325
16,900.0	90.00	359.41	9,820.0	6,616.1	-672.9	380,102.22	877,071.44	32.0403510	-103.2498326
17,000.0	90.00	359.41	9,820.0	6,716.1	-673.9	380,202.22	877,070.40	32.0406259	-103.2498327
17,100.0	90.00	359.41	9,820.0	6,816.1	-675.0	380,302.21	877,069.37	32.0409008	-103.2498328
17,200.0	90.00	359.41	9,820.0	6,916.1	-676.0	380,402.21	877,068.33	32.0411756	-103.2498329
17,300.0	90.00	359.41	9,820.0	7,016.1	-677.1	380,502.20	877,067.29	32.0414505	-103.2498330
17,400.0	90.00	359.41	9,820.0	7,116.1	-678.1	380,602.20	877,066.26	32.0417254	-103.2498331
17,500.0	90.00	359.41	9,820.0	7,216.1	-679.1	380,702.19	877,065.22	32.0420002	-103.2498332
17,600.0	90.00	359.41	9,820.0	7,316.1	-680.2	380,802.19	877,064.18	32.0422751	-103.2498333
17,700.0	90.00	359.41	9,820.0	7,416.1	-681.2	380,902.18	877,063.15	32.0425500	-103.2498334
17,800.0	90.00	359.41	9,820.0	7,516.1	-682.2	381,002.18	877,062.11	32.0428248	-103.2498335
17,900.0	90.00	359.41	9,820.0	7,616.1	-683.3	381,102.17	877,061.07	32.0430997	-103.2498337
18,000.0	90.00	359.41	9,820.0	7,716.1	-684.3	381,202.17	877,060.04	32.0433745	-103.2498338
18,100.0	90.00	359.41	9,820.0	7,816.1	-685.3	381,302.16	877,059.00	32.0436494	-103.2498339
18,200.0	90.00	359.41	9,820.0	7,916.1	-686.4	381,402.15	877,057.96	32.0439243	-103.2498340
18,300.0	90.00	359.41	9,820.0	8,016.1	-687.4	381,502.15	877,056.93	32.0441991	-103.2498341
18,400.0	90.00	359.41	9,820.0	8,116.1	-688.5	381,602.14	877,055.89	32.0444740	-103.2498342
18,500.0	90.00	359.41	9,820.0	8,216.1	-689.5	381,702.14	877,054.85	32.0447489	-103.2498343
18,600.0	90.00	359.41	9,820.0	8,316.1	-690.5	381,802.13	877,053.82	32.0450237	-103.2498344
18,700.0	90.00	359.41	9,820.0	8,416.0	-691.6	381,902.13	877,052.78	32.0452986	-103.2498345
18,800.0	90.00	359.41	9,820.0	8,516.0	-692.6	382,002.12	877,051.74	32.0455734	-103.2498346
18,900.0	90.00	359.41	9,820.0	8,616.0	-693.6	382,102.12	877,050.71	32.0458483	-103.2498347
19,000.0	90.00	359.41	9,820.0	8,716.0	-694.7	382,202.11	877,049.67	32.0461232	-103.2498348
19,100.0	90.00	359.41	9,820.0	8,816.0	-695.7	382,302.11	877,048.63	32.0463980	-103.2498349
19,200.0	90.00	359.41	9,820.0	8,916.0	-696.8	382,402.10	877,047.60	32.0466729	-103.2498350
19,300.0	90.00	359.41	9,820.0	9,016.0	-697.8	382,502.10	877,046.56	32.0469478	-103.2498352
19,400.0	90.00	359.41	9,820.0	9,116.0	-698.8	382,602.09	877,045.52	32.0472226	-103.2498353
19,500.0	90.00	359.41	9,820.0	9,216.0	-699.9	382,702.08	877,044.49	32.0474975	-103.2498354
19,600.0	90.00	359.41	9,820.0	9,316.0	-700.9	382,802.08	877,043.45	32.0477723	-103.2498355
19,700.0	90.00	359.41	9,820.0	9,416.0	-701.9	382,902.07	877,042.41	32.0480472	-103.2498356
19,800.0	90.00	359.41	9,820.0	9,516.0	-703.0	383,002.07	877,041.38	32.0483221	-103.2498357
19,900.0	90.00	359.41	9,820.0	9,616.0	-704.0	383,102.06	877,040.34	32.0485969	-103.2498358
20,000.0	90.00	359.41	9,820.0	9,716.0	-705.0	383,202.06	877,039.30	32.0488718	-103.2498359
20,100.0	90.00	359.41	9,820.0	9,816.0	-706.1	383,302.05	877,038.27	32.0491467	-103.2498360
20,200.0	90.00	359.41	9,820.0	9,916.0	-707.1	383,402.05	877,037.23	32.0494215	-103.2498361
20,300.0	90.00	359.41	9,820.0	10,016.0	-708.2	383,502.04	877,036.19	32.0496964	-103.2498362
20,400.0	90.00	359.41	9,820.0	10,116.0	-709.2	383,602.04	877,035.16	32.0499713	-103.2498363
20,500.0	90.00	359.41	9,820.0	10,216.0	-710.2	383,702.03	877,034.12	32.0502461	-103.2498364
20,558.0	90.00	359.41	9,820.0	10,274.0	-710.8	383,760.06	877,033.52	32.0504056	-103.2498365
TD at 20558.0									

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well MAGNOLIA ST COM 26 36 22 #183H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2934.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2934.0usft
Site:	MAGNOLIA ST COM PROJECT	**North Reference:**	Grid
Well:	MAGNOLIA ST COM 26 36 22 #183H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude

BHL (MSC 183H)
  - plan hits target center
  - Point
	0.00	0.01	9,820.0	10,274.0	-710.8	383,760.06	877,033.52	32.0504056	-103.2498365

FTP (MSC 183H)
  - plan misses target center by 1.5usft at 10148.8usft MD (9820.0 TVD, -134.7 N, -602.9 E)
  - Point
	0.00	0.01	9,820.0	-134.7	-604.5	373,351.36	877,139.90	32.0217944	-103.2498302

LTP (MSC 183H)
  - plan misses target center by 8.0usft at 20500.0usft MD (9820.0 TVD, 10216.0 N, -710.2 E)
  - Point
	0.00	0.00	9,820.0	10,224.0	-710.3	383,710.04	877,034.02	32.0502681	-103.2498365

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,964.9	1,963.0	Rustler			
2,347.7	2,342.0	Salado			
2,945.5	2,934.0	Dewey Lake			
3,209.0	3,195.0	Tansill			
3,832.1	3,812.0	Capitan			
5,051.0	5,019.0	Lamar			
5,298.4	5,264.0	Bell Canyon			
6,738.4	6,690.0	Brushy Canyon			
7,573.5	7,517.0	Bone Spring Lime			
9,378.4	9,320.0	First Bone Spring			
10,005.5	9,798.0	Second Bone Spring			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
1,900.0	1,898.7	-19.9	-19.5	Start 5737.2 hold at 1900.0 MD
7,637.2	7,580.1	-590.1	-578.5	Start Drop -2.00
8,037.2	7,978.8	-610.0	-598.0	Start 1363.7 hold at 8037.2 MD
9,400.9	9,342.5	-610.0	-598.0	KOP-Start DLS 12.00 TFO 359.41
10,150.9	9,820.0	-132.6	-602.9	LP-Start 10407.1 hold at 10150.9 MD
20,558.0	9,820.0	10,274.0	-710.8	TD at 20558.0

State of New Mexico
Energy, Minerals and Natural Resources Department

<div style="text-align:right">Submit Electronically
Via E-permitting</div>

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: _____ Ameredev II, LLC _____ **OGRID:** _____ 372224 _____ **Date:** 06/21/2023

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Magnolia 26 36 22 State Com 073H	30025-		230' FSL & 1015' FEL	1,000	5,018	3,838
Magnolia 26 36 22 State Com 074H	30025-		200' FNL & 310' FEL	115	576	203
Magnolia 26 36 22 State Com 181H	30025-		230' FSL & 1060' FWL	115	576	203
Magnolia 26 36 22 State Com 182H	30025-		650' FSL & 1808' FWL	115	576	203
Magnolia 26 36 22 State Com 183H	30025-		230' FSL & 1035' FEL	115	576	203
Magnolia 26 36 22 State Com 184H	30025-		200' FNL & 290' FEL	115	576	203

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

<div style="text-align:right">Page 1 of 5</div>

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
Magnolia 26 36 22 State Com 073H	30025-	10/01/2024	11/15/2024	12/15/2024	01/01/2025	01/04/2025
Magnolia 26 36 22 State Com 074H	30025-	10/01/2024	11/15/2024	12/15/2024	01/01/2025	01/04/2025
Magnolia 26 36 22 State Com 181H	30025-	10/01/2024	11/15/2024	12/15/2024	01/01/2025	01/04/2025
Magnolia 26 36 22 State Com 182H	30025-	10/01/2024	11/15/2024	12/15/2024	01/01/2025	01/04/2025
Magnolia 26 36 22 State Com 183H	30025-	10/01/2024	11/15/2024	12/15/2024	01/01/2025	01/04/2025
Magnolia 26 36 22 State Com 184H	30025-	10/01/2024	11/15/2024	12/15/2024	01/01/2025	01/04/2025

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.

Page **4** of **5**

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: *Cesca Yu*
Printed Name: Cesca Yu
Title: Engineer
E-mail Address: cyu@ameredev.com
Date: 06/21/2023
Phone: 512-775-1417

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

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

Natural Gas Management
Plan

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

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

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

19.15.27.8 (A)

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

19.15.27.8 (B) Venting and Flaring during drilling operations

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

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

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

19.15.27.8 (D) Venting and Flaring during production operations.

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

loop system that will recover any residual gas from the tanks and route such gas to a sales outlet, minimizing tank emissions.
• Flares are equipped with auto-ignition systems and continuous pilot operations.
• Automatic gauging equipment is installed on all tanks.

19.15.27.8 (E) Performance Standards

• Production equipment will be designed to handle maximum anticipated rates and pressure.
• Automatic gauging equipment is installed on all tanks to minimize venting
• All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
•Flares are equipped with continuous pilots and auto-ignitors along with remote monitoring of the pilot status
• Weekly AVOs and monthly LDAR inspections will be performed on all wells and facilities that produce more than 60 Mcfd.
• Gas/H2S detectors will be installed throughout the facilities and wellheads to detect leaks and enable timely repairs.

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

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

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

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