

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011

Permit 347802

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 30-025-51897
4. Property Code 320645	5. Property Name MAGNOLIA 26 36 22 STATE COM	6. Well No. 184H

7. Surface Location

UL - Lot A	Section 27	Township 26S	Range 36E	Lot Idn A	Feet From 200	N/S Line N	Feet From 290	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot A	Section 15	Township 26S	Range 36E	Lot Idn A	Feet From 50	N/S Line N	Feet From 332	E/W Line E	County Lea
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9. Pool Information

WC-025 G-08 S263620C;LWR BONE SPRIN	98150
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 2906
16. Multiple N	17. Proposed Depth 20491	18. Formation 2nd Bone Spring Carbonate	19. Contractor	20. Spud Date 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	2040	1589	0
Int1	12.25	10.75	45.5	5129	1271	0
Prod	8.75	5.5	17	20491	6354	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	TBD

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

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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-	² Pool Code 98150	³ Pool Name WC-025 G-08 S263620C; LWR BONE SPRING
⁴ Property Code 320645	⁵ Property Name MAGNOLIA 26 36 22 STATE COM	
⁷ OGRID No. 372224	⁸ Operator Name AMEREDEV OPERATING, LLC.	⁶ Well Number 184H
⁹ Elevation 2906'		

¹⁰Surface Location

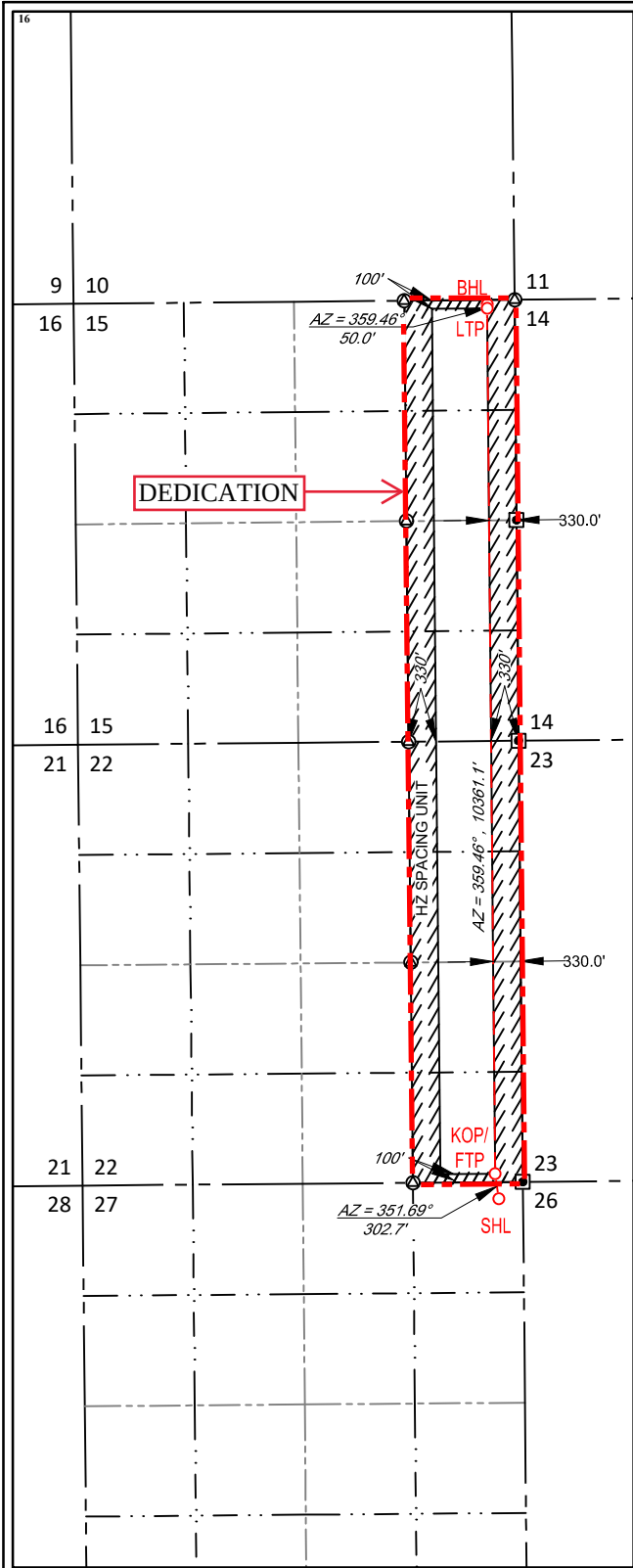
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	27	26-S	36-E	-	200'	NORTH	290'	EAST	LEA

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
A	15	26-S	36-E	-	50'	NORTH	332'	EAST	LEA

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code C	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



NEW MEXICO EAST
NAD 1983

SURFACE LOCATION (SHL)
200' FNL - SEC. 27
290' FEL - SEC. 27
X=878493 Y=373062
LAT.: N 32.0209614
LONG.: W 103.2454731

KICK OFF POINT (KOP)
FIRST TAKE POINT (FTP)
100' FNL - SEC. 22
331' FEL - SEC. 22
X=878450 Y=373361
LAT.: N 32.0217860
LONG.: W 103.2456046

LAST TAKE POINT (LTP)
100' FNL - SEC. 15
332' FEL - SEC. 15
X=878353 Y=383722
LAT.: N 32.0502648
LONG.: W 103.2455807

BOTTOM HOLE LOCATION (BHL)
50' FNL - SEC. 15
332' FEL - SEC. 15
X=878352 Y=383772
LAT.: N 32.0504023
LONG.: W 103.2455806

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
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.

12/11/2017
Date of Survey
Signature and Seal of Professional Surveyor

ANGEL M. BAEZA
NEW MEXICO
25116
PROFESSIONAL SURVEYOR

Certificate Number

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

Form APD Conditions

Permit 347802

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: AMEREDEV OPERATING, LLC [372224] 2901 Via Fortuna Austin, TX 78746	API Number: 30-025-51897
	Well: MAGNOLIA 26 36 22 STATE COM #184H

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	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 #184H**

OWB

Plan: PWP

Standard Planning Report - Geographic

14 June, 2023



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well MAGNOLIA ST COM 26 36 22 #184H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 2933.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 2933.0usft
Site:	MAGNOLIA ST COM PROJECT	North Reference:	Grid
Well:	MAGNOLIA ST COM 26 36 22 #184H	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 #184H					
Well Position	+N/-S	0.0 usft	Northing:	373,061.89 usft	Latitude:	32.0209614
	+E/-W	0.0 usft	Easting:	878,493.38 usft	Longitude:	-103.2454731
Position Uncertainty	3.0 usft		Wellhead Elevation:	usft	Ground Level:	2,906.0 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	47,201.56507570

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	359.46

Plan Survey Tool Program	Date 6/14/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,491.4 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	
1,750.0	5.00	192.05	1,749.7	-10.7	-2.3	2.00	2.00	0.00	192.05	
3,588.2	5.00	192.05	3,580.9	-167.3	-35.7	0.00	0.00	0.00	0.00	
3,838.2	0.00	0.00	3,830.6	-178.0	-38.0	2.00	-2.00	0.00	180.00	
9,330.1	0.00	0.00	9,322.5	-178.0	-38.0	0.00	0.00	0.00	0.00	
10,080.1	90.00	359.46	9,800.0	299.4	-42.5	12.00	12.00	-0.07	359.46	
20,491.4	90.00	359.46	9,800.0	10,710.2	-141.2	0.00	0.00	0.00	0.00	BHL (MSC 184H)



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Company:	Ameredev Operating	TVD Reference:	KB=27' @ 2933.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 2933.0usft
Site:	MAGNOLIA ST COM PROJECT	North Reference:	Grid
Well:	MAGNOLIA ST COM 26 36 22 #184H	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	373,061.89	878,493.38	32.0209614	-103.2454731
100.0	0.00	0.00	100.0	0.0	0.0	373,061.89	878,493.38	32.0209614	-103.2454731
200.0	0.00	0.00	200.0	0.0	0.0	373,061.89	878,493.38	32.0209614	-103.2454731
300.0	0.00	0.00	300.0	0.0	0.0	373,061.89	878,493.38	32.0209614	-103.2454731
400.0	0.00	0.00	400.0	0.0	0.0	373,061.89	878,493.38	32.0209614	-103.2454731
500.0	0.00	0.00	500.0	0.0	0.0	373,061.89	878,493.38	32.0209614	-103.2454731
600.0	0.00	0.00	600.0	0.0	0.0	373,061.89	878,493.38	32.0209614	-103.2454731
700.0	0.00	0.00	700.0	0.0	0.0	373,061.89	878,493.38	32.0209614	-103.2454731
800.0	0.00	0.00	800.0	0.0	0.0	373,061.89	878,493.38	32.0209614	-103.2454731
900.0	0.00	0.00	900.0	0.0	0.0	373,061.89	878,493.38	32.0209614	-103.2454731
1,000.0	0.00	0.00	1,000.0	0.0	0.0	373,061.89	878,493.38	32.0209614	-103.2454731
1,100.0	0.00	0.00	1,100.0	0.0	0.0	373,061.89	878,493.38	32.0209614	-103.2454731
1,200.0	0.00	0.00	1,200.0	0.0	0.0	373,061.89	878,493.38	32.0209614	-103.2454731
1,300.0	0.00	0.00	1,300.0	0.0	0.0	373,061.89	878,493.38	32.0209614	-103.2454731
1,400.0	0.00	0.00	1,400.0	0.0	0.0	373,061.89	878,493.38	32.0209614	-103.2454731
1,500.0	0.00	0.00	1,500.0	0.0	0.0	373,061.89	878,493.38	32.0209614	-103.2454731
Start Build 2.00									
1,600.0	2.00	192.05	1,600.0	-1.7	-0.4	373,060.18	878,493.02	32.0209567	-103.2454743
1,700.0	4.00	192.05	1,699.8	-6.8	-1.5	373,055.06	878,491.93	32.0209427	-103.2454780
1,750.0	5.00	192.05	1,749.7	-10.7	-2.3	373,051.22	878,491.11	32.0209322	-103.2454808
Start 1838.2 hold at 1750.0 MD									
1,800.0	5.00	192.05	1,799.5	-14.9	-3.2	373,046.96	878,490.20	32.0209205	-103.2454839
1,900.0	5.00	192.05	1,899.1	-23.4	-5.0	373,038.44	878,488.38	32.0208971	-103.2454900
2,000.0	5.00	192.05	1,998.7	-32.0	-6.8	373,029.92	878,486.56	32.0208737	-103.2454962
2,016.3	5.00	192.05	2,015.0	-33.4	-7.1	373,028.52	878,486.26	32.0208699	-103.2454972
Rustler									
2,100.0	5.00	192.05	2,098.4	-40.5	-8.6	373,021.39	878,484.74	32.0208504	-103.2455023
2,200.0	5.00	192.05	2,198.0	-49.0	-10.5	373,012.87	878,482.92	32.0208270	-103.2455084
2,300.0	5.00	192.05	2,297.6	-57.5	-12.3	373,004.35	878,481.10	32.0208036	-103.2455146
2,353.6	5.00	192.05	2,351.0	-62.1	-13.3	372,999.78	878,480.12	32.0207911	-103.2455179
Salado									
2,400.0	5.00	192.05	2,397.2	-66.1	-14.1	372,995.82	878,479.28	32.0207802	-103.2455207
2,500.0	5.00	192.05	2,496.8	-74.6	-15.9	372,987.30	878,477.46	32.0207569	-103.2455269
2,600.0	5.00	192.05	2,596.4	-83.1	-17.7	372,978.77	878,475.64	32.0207335	-103.2455330
2,700.0	5.00	192.05	2,696.1	-91.6	-19.6	372,970.25	878,473.82	32.0207101	-103.2455392
2,800.0	5.00	192.05	2,795.7	-100.2	-21.4	372,961.73	878,472.00	32.0206867	-103.2455453
2,900.0	5.00	192.05	2,895.3	-108.7	-23.2	372,953.20	878,470.18	32.0206634	-103.2455515
2,937.8	5.00	192.05	2,933.0	-111.9	-23.9	372,949.98	878,469.49	32.0206545	-103.2455538
Dewey Lake									
3,000.0	5.00	192.05	2,994.9	-117.2	-25.0	372,944.68	878,468.36	32.0206400	-103.2455576
3,100.0	5.00	192.05	3,094.5	-125.7	-26.8	372,936.16	878,466.54	32.0206166	-103.2455638
3,178.8	5.00	192.05	3,173.0	-132.4	-28.3	372,929.44	878,465.11	32.0205982	-103.2455686
Tansill									
3,200.0	5.00	192.05	3,194.2	-134.3	-28.7	372,927.63	878,464.72	32.0205932	-103.2455699
3,300.0	5.00	192.05	3,293.8	-142.8	-30.5	372,919.11	878,462.90	32.0205699	-103.2455761
3,400.0	5.00	192.05	3,393.4	-151.3	-32.3	372,910.59	878,461.08	32.0205465	-103.2455822
3,500.0	5.00	192.05	3,493.0	-159.8	-34.1	372,902.06	878,459.27	32.0205231	-103.2455884
3,588.2	5.00	192.05	3,580.9	-167.3	-35.7	372,894.55	878,457.66	32.0205025	-103.2455938
Start Drop -2.00									
3,600.0	4.76	192.05	3,592.6	-168.3	-35.9	372,893.56	878,457.45	32.0204998	-103.2455945
3,700.0	2.76	192.05	3,692.4	-174.7	-37.3	372,887.14	878,456.08	32.0204822	-103.2455991
3,757.6	1.61	192.05	3,750.0	-176.9	-37.8	372,884.99	878,455.62	32.0204763	-103.2456007
Capitan									
3,800.0	0.76	192.05	3,792.4	-177.8	-37.9	372,884.13	878,455.44	32.0204739	-103.2456013



Planning Report - Geographic

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Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 2933.0usft
Site:	MAGNOLIA ST COM PROJECT	North Reference:	Grid
Well:	MAGNOLIA ST COM 26 36 22 #184H	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
3,838.2	0.00	0.00	3,830.6	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
Start 5491.9 hold at 3838.2 MD									
3,900.0	0.00	0.00	3,892.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
4,000.0	0.00	0.00	3,992.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
4,100.0	0.00	0.00	4,092.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
4,200.0	0.00	0.00	4,192.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
4,300.0	0.00	0.00	4,292.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
4,400.0	0.00	0.00	4,392.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
4,500.0	0.00	0.00	4,492.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
4,600.0	0.00	0.00	4,592.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
4,700.0	0.00	0.00	4,692.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
4,800.0	0.00	0.00	4,792.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
4,900.0	0.00	0.00	4,892.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
5,000.0	0.00	0.00	4,992.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
5,011.6	0.00	0.00	5,004.0	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
Lamar									
5,100.0	0.00	0.00	5,092.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
5,200.0	0.00	0.00	5,192.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
5,282.6	0.00	0.00	5,275.0	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
Bell Canyon									
5,300.0	0.00	0.00	5,292.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
5,400.0	0.00	0.00	5,392.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
5,500.0	0.00	0.00	5,492.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
5,600.0	0.00	0.00	5,592.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
5,700.0	0.00	0.00	5,692.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
5,800.0	0.00	0.00	5,792.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
5,900.0	0.00	0.00	5,892.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
6,000.0	0.00	0.00	5,992.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
6,100.0	0.00	0.00	6,092.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
6,200.0	0.00	0.00	6,192.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
6,300.0	0.00	0.00	6,292.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
6,400.0	0.00	0.00	6,392.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
6,500.0	0.00	0.00	6,492.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
6,600.0	0.00	0.00	6,592.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
6,684.6	0.00	0.00	6,677.0	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
Brushy Canyon									
6,700.0	0.00	0.00	6,692.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
6,800.0	0.00	0.00	6,792.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
6,900.0	0.00	0.00	6,892.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
7,000.0	0.00	0.00	6,992.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
7,100.0	0.00	0.00	7,092.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
7,200.0	0.00	0.00	7,192.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
7,300.0	0.00	0.00	7,292.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
7,400.0	0.00	0.00	7,392.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
7,464.6	0.00	0.00	7,457.0	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
Bone Spring Lime									
7,500.0	0.00	0.00	7,492.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
7,600.0	0.00	0.00	7,592.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
7,700.0	0.00	0.00	7,692.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
7,800.0	0.00	0.00	7,792.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
7,900.0	0.00	0.00	7,892.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
8,000.0	0.00	0.00	7,992.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
8,100.0	0.00	0.00	8,092.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
8,200.0	0.00	0.00	8,192.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well MAGNOLIA ST COM 26 36 22 #184H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 2933.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 2933.0usft
Site:	MAGNOLIA ST COM PROJECT	North Reference:	Grid
Well:	MAGNOLIA ST COM 26 36 22 #184H	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
8,300.0	0.00	0.00	8,292.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
8,400.0	0.00	0.00	8,392.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
8,500.0	0.00	0.00	8,492.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
8,600.0	0.00	0.00	8,592.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
8,700.0	0.00	0.00	8,692.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
8,800.0	0.00	0.00	8,792.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
8,900.0	0.00	0.00	8,892.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
9,000.0	0.00	0.00	8,992.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
9,100.0	0.00	0.00	9,092.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
9,200.0	0.00	0.00	9,192.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
9,300.0	0.00	0.00	9,292.4	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
9,307.6	0.00	0.00	9,300.0	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
First Bone Spring									
9,330.1	0.00	0.00	9,322.5	-178.0	-38.0	372,883.89	878,455.38	32.0204732	-103.2456015
KOP-Start DLS 12.00 TFO 359.46									
9,350.0	2.38	359.46	9,342.4	-177.6	-38.0	372,884.30	878,455.38	32.0204744	-103.2456015
9,375.0	5.38	359.46	9,367.3	-175.9	-38.0	372,885.99	878,455.36	32.0204790	-103.2456015
9,400.0	8.38	359.46	9,392.1	-172.9	-38.0	372,888.99	878,455.34	32.0204873	-103.2456015
9,425.0	11.38	359.46	9,416.7	-168.6	-38.1	372,893.28	878,455.30	32.0204991	-103.2456014
9,450.0	14.38	359.46	9,441.1	-163.0	-38.1	372,898.85	878,455.24	32.0205144	-103.2456014
9,475.0	17.38	359.46	9,465.2	-156.2	-38.2	372,905.69	878,455.18	32.0205332	-103.2456014
9,500.0	20.38	359.46	9,488.8	-148.1	-38.3	372,913.79	878,455.10	32.0205554	-103.2456014
9,525.0	23.38	359.46	9,512.0	-138.8	-38.4	372,923.10	878,455.01	32.0205810	-103.2456014
9,550.0	26.38	359.46	9,534.7	-128.3	-38.5	372,933.62	878,454.91	32.0206100	-103.2456014
9,575.0	29.38	359.46	9,556.8	-116.6	-38.6	372,945.31	878,454.80	32.0206421	-103.2456013
9,600.0	32.38	359.46	9,578.2	-103.7	-38.7	372,958.14	878,454.68	32.0206774	-103.2456013
9,625.0	35.38	359.46	9,599.0	-89.8	-38.8	372,972.08	878,454.55	32.0207157	-103.2456013
9,650.0	38.38	359.46	9,619.0	-74.8	-39.0	372,987.08	878,454.41	32.0207569	-103.2456013
9,675.0	41.38	359.46	9,638.2	-58.8	-39.1	373,003.11	878,454.25	32.0208010	-103.2456012
9,700.0	44.38	359.46	9,656.5	-41.8	-39.3	373,020.12	878,454.09	32.0208477	-103.2456012
9,725.0	47.38	359.46	9,673.9	-23.8	-39.5	373,038.06	878,453.92	32.0208970	-103.2456012
9,750.0	50.38	359.46	9,690.3	-5.0	-39.6	373,056.90	878,453.74	32.0209488	-103.2456011
9,775.0	53.38	359.46	9,705.7	14.7	-39.8	373,076.56	878,453.56	32.0210029	-103.2456011
9,800.0	56.38	359.46	9,720.1	35.1	-40.0	373,097.01	878,453.36	32.0210591	-103.2456011
9,825.0	59.38	359.46	9,733.4	56.3	-40.2	373,118.18	878,453.16	32.0211173	-103.2456010
9,850.0	62.38	359.46	9,745.6	78.1	-40.4	373,140.02	878,452.96	32.0211773	-103.2456010
9,875.0	65.38	359.46	9,756.6	100.6	-40.6	373,162.46	878,452.74	32.0212390	-103.2456009
9,900.0	68.38	359.46	9,766.4	123.6	-40.9	373,185.45	878,452.53	32.0213022	-103.2456009
9,925.0	71.38	359.46	9,775.0	147.0	-41.1	373,208.92	878,452.30	32.0213667	-103.2456008
9,950.0	74.38	359.46	9,782.3	170.9	-41.3	373,232.81	878,452.08	32.0214324	-103.2456008
9,952.5	74.68	359.46	9,783.0	173.3	-41.3	373,235.19	878,452.06	32.0214389	-103.2456008
Second Bone Spring									
9,975.0	77.38	359.46	9,788.4	195.2	-41.5	373,257.05	878,451.85	32.0214990	-103.2456008
10,000.0	80.38	359.46	9,793.3	219.7	-41.8	373,281.58	878,451.62	32.0215664	-103.2456007
10,025.0	83.38	359.46	9,796.8	244.4	-42.0	373,306.32	878,451.38	32.0216344	-103.2456007
10,050.0	86.38	359.46	9,799.0	269.3	-42.2	373,331.22	878,451.14	32.0217029	-103.2456006
10,075.0	89.38	359.46	9,799.9	294.3	-42.5	373,356.20	878,450.91	32.0217715	-103.2456006
10,080.1	90.00	359.46	9,800.0	299.4	-42.5	373,361.33	878,450.86	32.0217856	-103.2456006
LP-Start 10411.3 hold at 10080.1 MD									
10,100.0	90.00	359.46	9,800.0	319.3	-42.7	373,381.20	878,450.67	32.0218402	-103.2456005
10,200.0	90.00	359.46	9,800.0	419.3	-43.7	373,481.19	878,449.72	32.0221151	-103.2456003
10,300.0	90.00	359.46	9,800.0	519.3	-44.6	373,581.19	878,448.78	32.0223900	-103.2456001
10,400.0	90.00	359.46	9,800.0	619.3	-45.6	373,681.19	878,447.83	32.0226648	-103.2455999
10,500.0	90.00	359.46	9,800.0	719.3	-46.5	373,781.18	878,446.88	32.0229397	-103.2455998



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well MAGNOLIA ST COM 26 36 22 #184H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 2933.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 2933.0usft
Site:	MAGNOLIA ST COM PROJECT	North Reference:	Grid
Well:	MAGNOLIA ST COM 26 36 22 #184H	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	
10,600.0	90.00	359.46	9,800.0	819.3	-47.5	373,881.18	878,445.93	32.0232146	-103.2455996	
10,700.0	90.00	359.46	9,800.0	919.3	-48.4	373,981.17	878,444.99	32.0234894	-103.2455994	
10,800.0	90.00	359.46	9,800.0	1,019.3	-49.3	374,081.17	878,444.04	32.0237643	-103.2455992	
10,900.0	90.00	359.46	9,800.0	1,119.3	-50.3	374,181.16	878,443.09	32.0240391	-103.2455990	
11,000.0	90.00	359.46	9,800.0	1,219.3	-51.2	374,281.16	878,442.14	32.0243140	-103.2455988	
11,100.0	90.00	359.46	9,800.0	1,319.3	-52.2	374,381.15	878,441.19	32.0245889	-103.2455986	
11,200.0	90.00	359.46	9,800.0	1,419.3	-53.1	374,481.15	878,440.25	32.0248637	-103.2455984	
11,300.0	90.00	359.46	9,800.0	1,519.3	-54.1	374,581.15	878,439.30	32.0251386	-103.2455982	
11,400.0	90.00	359.46	9,800.0	1,619.3	-55.0	374,681.14	878,438.35	32.0254135	-103.2455980	
11,500.0	90.00	359.46	9,800.0	1,719.3	-56.0	374,781.14	878,437.40	32.0256883	-103.2455979	
11,600.0	90.00	359.46	9,800.0	1,819.2	-56.9	374,881.13	878,436.46	32.0259632	-103.2455977	
11,700.0	90.00	359.46	9,800.0	1,919.2	-57.9	374,981.13	878,435.51	32.0262381	-103.2455975	
11,800.0	90.00	359.46	9,800.0	2,019.2	-58.8	375,081.12	878,434.56	32.0265129	-103.2455973	
11,900.0	90.00	359.46	9,800.0	2,119.2	-59.8	375,181.12	878,433.61	32.0267878	-103.2455971	
12,000.0	90.00	359.46	9,800.0	2,219.2	-60.7	375,281.11	878,432.66	32.0270626	-103.2455969	
12,100.0	90.00	359.46	9,800.0	2,319.2	-61.7	375,381.11	878,431.72	32.0273375	-103.2455967	
12,200.0	90.00	359.46	9,800.0	2,419.2	-62.6	375,481.10	878,430.77	32.0276124	-103.2455965	
12,300.0	90.00	359.46	9,800.0	2,519.2	-63.6	375,581.10	878,429.82	32.0278872	-103.2455963	
12,400.0	90.00	359.46	9,800.0	2,619.2	-64.5	375,681.10	878,428.87	32.0281621	-103.2455961	
12,500.0	90.00	359.46	9,800.0	2,719.2	-65.5	375,781.09	878,427.93	32.0284370	-103.2455959	
12,600.0	90.00	359.46	9,800.0	2,819.2	-66.4	375,881.09	878,426.98	32.0287118	-103.2455958	
12,700.0	90.00	359.46	9,800.0	2,919.2	-67.4	375,981.08	878,426.03	32.0289867	-103.2455956	
12,800.0	90.00	359.46	9,800.0	3,019.2	-68.3	376,081.08	878,425.08	32.0292616	-103.2455954	
12,900.0	90.00	359.46	9,800.0	3,119.2	-69.2	376,181.07	878,424.14	32.0295364	-103.2455952	
13,000.0	90.00	359.46	9,800.0	3,219.2	-70.2	376,281.07	878,423.19	32.0298113	-103.2455950	
13,100.0	90.00	359.46	9,800.0	3,319.2	-71.1	376,381.06	878,422.24	32.0300861	-103.2455948	
13,200.0	90.00	359.46	9,800.0	3,419.2	-72.1	376,481.06	878,421.29	32.0303610	-103.2455946	
13,300.0	90.00	359.46	9,800.0	3,519.2	-73.0	376,581.06	878,420.34	32.0306359	-103.2455944	
13,400.0	90.00	359.46	9,800.0	3,619.2	-74.0	376,681.05	878,419.40	32.0309107	-103.2455942	
13,500.0	90.00	359.46	9,800.0	3,719.2	-74.9	376,781.05	878,418.45	32.0311856	-103.2455940	
13,600.0	90.00	359.46	9,800.0	3,819.2	-75.9	376,881.04	878,417.50	32.0314605	-103.2455938	
13,700.0	90.00	359.46	9,800.0	3,919.2	-76.8	376,981.04	878,416.55	32.0317353	-103.2455936	
13,800.0	90.00	359.46	9,800.0	4,019.1	-77.8	377,081.03	878,415.61	32.0320102	-103.2455935	
13,900.0	90.00	359.46	9,800.0	4,119.1	-78.7	377,181.03	878,414.66	32.0322851	-103.2455933	
14,000.0	90.00	359.46	9,800.0	4,219.1	-79.7	377,281.02	878,413.71	32.0325599	-103.2455931	
14,100.0	90.00	359.46	9,800.0	4,319.1	-80.6	377,381.02	878,412.76	32.0328348	-103.2455929	
14,200.0	90.00	359.46	9,800.0	4,419.1	-81.6	377,481.02	878,411.82	32.0331096	-103.2455927	
14,300.0	90.00	359.46	9,800.0	4,519.1	-82.5	377,581.01	878,410.87	32.0333845	-103.2455925	
14,400.0	90.00	359.46	9,800.0	4,619.1	-83.5	377,681.01	878,409.92	32.0336594	-103.2455923	
14,500.0	90.00	359.46	9,800.0	4,719.1	-84.4	377,781.00	878,408.97	32.0339342	-103.2455921	
14,600.0	90.00	359.46	9,800.0	4,819.1	-85.4	377,881.00	878,408.02	32.0342091	-103.2455919	
14,700.0	90.00	359.46	9,800.0	4,919.1	-86.3	377,980.99	878,407.08	32.0344840	-103.2455917	
14,800.0	90.00	359.46	9,800.0	5,019.1	-87.3	378,080.99	878,406.13	32.0347588	-103.2455915	
14,900.0	90.00	359.46	9,800.0	5,119.1	-88.2	378,180.98	878,405.18	32.0350337	-103.2455913	
15,000.0	90.00	359.46	9,800.0	5,219.1	-89.2	378,280.98	878,404.23	32.0353085	-103.2455912	
15,100.0	90.00	359.46	9,800.0	5,319.1	-90.1	378,380.97	878,403.29	32.0355834	-103.2455910	
15,200.0	90.00	359.46	9,800.0	5,419.1	-91.0	378,480.97	878,402.34	32.0358583	-103.2455908	
15,300.0	90.00	359.46	9,800.0	5,519.1	-92.0	378,580.97	878,401.39	32.0361331	-103.2455906	
15,400.0	90.00	359.46	9,800.0	5,619.1	-92.9	378,680.96	878,400.44	32.0364080	-103.2455904	
15,500.0	90.00	359.46	9,800.0	5,719.1	-93.9	378,780.96	878,399.50	32.0366829	-103.2455902	
15,600.0	90.00	359.46	9,800.0	5,819.1	-94.8	378,880.95	878,398.55	32.0369577	-103.2455900	
15,700.0	90.00	359.46	9,800.0	5,919.1	-95.8	378,980.95	878,397.60	32.0372326	-103.2455898	
15,800.0	90.00	359.46	9,800.0	6,019.1	-96.7	379,080.94	878,396.65	32.0375074	-103.2455896	
15,900.0	90.00	359.46	9,800.0	6,119.1	-97.7	379,180.94	878,395.70	32.0377823	-103.2455894	
16,000.0	90.00	359.46	9,800.0	6,219.0	-98.6	379,280.93	878,394.76	32.0380572	-103.2455892	



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well MAGNOLIA ST COM 26 36 22 #184H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 2933.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 2933.0usft
Site:	MAGNOLIA ST COM PROJECT	North Reference:	Grid
Well:	MAGNOLIA ST COM 26 36 22 #184H	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
16,100.0	90.00	359.46	9,800.0	6,319.0	-99.6	379,380.93	878,393.81	32.0383320	-103.2455890
16,200.0	90.00	359.46	9,800.0	6,419.0	-100.5	379,480.93	878,392.86	32.0386069	-103.2455889
16,300.0	90.00	359.46	9,800.0	6,519.0	-101.5	379,580.92	878,391.91	32.0388818	-103.2455887
16,400.0	90.00	359.46	9,800.0	6,619.0	-102.4	379,680.92	878,390.97	32.0391566	-103.2455885
16,500.0	90.00	359.46	9,800.0	6,719.0	-103.4	379,780.91	878,390.02	32.0394315	-103.2455883
16,600.0	90.00	359.46	9,800.0	6,819.0	-104.3	379,880.91	878,389.07	32.0397064	-103.2455881
16,700.0	90.00	359.46	9,800.0	6,919.0	-105.3	379,980.90	878,388.12	32.0399812	-103.2455879
16,800.0	90.00	359.46	9,800.0	7,019.0	-106.2	380,080.90	878,387.18	32.0402561	-103.2455877
16,900.0	90.00	359.46	9,800.0	7,119.0	-107.2	380,180.89	878,386.23	32.0405309	-103.2455875
17,000.0	90.00	359.46	9,800.0	7,219.0	-108.1	380,280.89	878,385.28	32.0408058	-103.2455873
17,100.0	90.00	359.46	9,800.0	7,319.0	-109.1	380,380.88	878,384.33	32.0410807	-103.2455871
17,200.0	90.00	359.46	9,800.0	7,419.0	-110.0	380,480.88	878,383.38	32.0413555	-103.2455869
17,300.0	90.00	359.46	9,800.0	7,519.0	-110.9	380,580.88	878,382.44	32.0416304	-103.2455867
17,400.0	90.00	359.46	9,800.0	7,619.0	-111.9	380,680.87	878,381.49	32.0419053	-103.2455866
17,500.0	90.00	359.46	9,800.0	7,719.0	-112.8	380,780.87	878,380.54	32.0421801	-103.2455864
17,600.0	90.00	359.46	9,800.0	7,819.0	-113.8	380,880.86	878,379.59	32.0424550	-103.2455862
17,700.0	90.00	359.46	9,800.0	7,919.0	-114.7	380,980.86	878,378.65	32.0427298	-103.2455860
17,800.0	90.00	359.46	9,800.0	8,019.0	-115.7	381,080.85	878,377.70	32.0430047	-103.2455858
17,900.0	90.00	359.46	9,800.0	8,119.0	-116.6	381,180.85	878,376.75	32.0432796	-103.2455856
18,000.0	90.00	359.46	9,800.0	8,219.0	-117.6	381,280.84	878,375.80	32.0435544	-103.2455854
18,100.0	90.00	359.46	9,800.0	8,319.0	-118.5	381,380.84	878,374.86	32.0438293	-103.2455852
18,200.0	90.00	359.46	9,800.0	8,418.9	-119.5	381,480.84	878,373.91	32.0441042	-103.2455850
18,300.0	90.00	359.46	9,800.0	8,518.9	-120.4	381,580.83	878,372.96	32.0443790	-103.2455848
18,400.0	90.00	359.46	9,800.0	8,618.9	-121.4	381,680.83	878,372.01	32.0446539	-103.2455846
18,500.0	90.00	359.46	9,800.0	8,718.9	-122.3	381,780.82	878,371.06	32.0449287	-103.2455844
18,600.0	90.00	359.46	9,800.0	8,818.9	-123.3	381,880.82	878,370.12	32.0452036	-103.2455842
18,700.0	90.00	359.46	9,800.0	8,918.9	-124.2	381,980.81	878,369.17	32.0454785	-103.2455840
18,800.0	90.00	359.46	9,800.0	9,018.9	-125.2	382,080.81	878,368.22	32.0457533	-103.2455839
18,900.0	90.00	359.46	9,800.0	9,118.9	-126.1	382,180.80	878,367.27	32.0460282	-103.2455837
19,000.0	90.00	359.46	9,800.0	9,218.9	-127.1	382,280.80	878,366.33	32.0463031	-103.2455835
19,100.0	90.00	359.46	9,800.0	9,318.9	-128.0	382,380.80	878,365.38	32.0465779	-103.2455833
19,200.0	90.00	359.46	9,800.0	9,418.9	-129.0	382,480.79	878,364.43	32.0468528	-103.2455831
19,300.0	90.00	359.46	9,800.0	9,518.9	-129.9	382,580.79	878,363.48	32.0471276	-103.2455829
19,400.0	90.00	359.46	9,800.0	9,618.9	-130.8	382,680.78	878,362.54	32.0474025	-103.2455827
19,500.0	90.00	359.46	9,800.0	9,718.9	-131.8	382,780.78	878,361.59	32.0476774	-103.2455825
19,600.0	90.00	359.46	9,800.0	9,818.9	-132.7	382,880.77	878,360.64	32.0479522	-103.2455823
19,700.0	90.00	359.46	9,800.0	9,918.9	-133.7	382,980.77	878,359.69	32.0482271	-103.2455821
19,800.0	90.00	359.46	9,800.0	10,018.9	-134.6	383,080.76	878,358.74	32.0485020	-103.2455819
19,900.0	90.00	359.46	9,800.0	10,118.9	-135.6	383,180.76	878,357.80	32.0487768	-103.2455817
20,000.0	90.00	359.46	9,800.0	10,218.9	-136.5	383,280.75	878,356.85	32.0490517	-103.2455815
20,100.0	90.00	359.46	9,800.0	10,318.9	-137.5	383,380.75	878,355.90	32.0493265	-103.2455813
20,200.0	90.00	359.46	9,800.0	10,418.9	-138.4	383,480.75	878,354.95	32.0496014	-103.2455812
20,300.0	90.00	359.46	9,800.0	10,518.9	-139.4	383,580.74	878,354.01	32.0498763	-103.2455810
20,400.0	90.00	359.46	9,800.0	10,618.9	-140.3	383,680.74	878,353.06	32.0501511	-103.2455808
20,491.4	90.00	359.46	9,800.0	10,710.2	-141.2	383,772.12	878,352.19	32.0504023	-103.2455806
TD at 20491.4									



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well MAGNOLIA ST COM 26 36 22 #184H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 2933.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 2933.0usft
Site:	MAGNOLIA ST COM PROJECT	North Reference:	Grid
Well:	MAGNOLIA ST COM 26 36 22 #184H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
BHL (MSC 184H)	0.00	0.00	9,800.0	10,710.2	-141.2	383,772.12	878,352.19	32.0504023	-103.2455806
- plan hits target center									
- Point									
LTP (MSC 184H)	0.00	0.00	9,800.0	10,660.2	-140.7	383,722.10	878,352.67	32.0502648	-103.2455807
- plan misses target center by 41.4usft at 20400.0usft MD (9800.0 TVD, 10618.9 N, -140.3 E)									
- Point									
FTP (MSC 184H)	0.00	0.00	9,800.0	299.6	-43.8	373,361.46	878,449.61	32.0217860	-103.2456046
- plan misses target center by 1.3usft at 10080.3usft MD (9800.0 TVD, 299.6 N, -42.5 E)									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
2,016.3	2,015.0	Rustler				
2,353.6	2,351.0	Salado				
2,937.8	2,933.0	Dewey Lake				
3,178.8	3,173.0	Tansill				
3,757.6	3,750.0	Capitan				
5,011.6	5,004.0	Lamar				
5,282.6	5,275.0	Bell Canyon				
6,684.6	6,677.0	Brushy Canyon				
7,464.6	7,457.0	Bone Spring Lime				
9,307.6	9,300.0	First Bone Spring				
9,952.5	9,783.0	Second Bone Spring				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
1,750.0	1,749.7	-10.7	-2.3	Start 1838.2 hold at 1750.0 MD
3,588.2	3,580.9	-167.3	-35.7	Start Drop -2.00
3,838.2	3,830.6	-178.0	-38.0	Start 5491.9 hold at 3838.2 MD
9,330.1	9,322.5	-178.0	-38.0	KOP-Start DLS 12.00 TFO 359.46
10,080.1	9,800.0	299.4	-42.5	LP-Start 10411.3 hold at 10080.1 MD
20,491.4	9,800.0	10,710.2	-141.2	TD at 20491.4

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
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]

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.

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