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 343881

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 30-025-51680

4. Property Code	5. Property Name	6. Well No.
320645	MAGNOLIA 26 36 22 STATE COM	072H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	22	26S	36E	N	650	S	1788	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	15	26S	36E	C	50	N	2310	W	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	2903
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	19705	1st Bone Spring Sand		10/1/2024
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	1818	1426	0
Int1	12.25	10.75	45.5	5120	1357	0
Prod	8.75	5.5	17	19705	6190	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:	7/3/2023	Expiration Date: 7/3/2025
Date:	6/28/2023 Phone: 737-300-4723	Conditions of Approval Attached		

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

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

☐ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[3]Pool Name
30-025- 51680	98150	WC-025 G-08 S263620C; LWR BONE SPRING

[4]Property Code	[5]Property Name	[6]Well Number
320645	MAGNOLIA 26 36 22 STATE COM	072H

[7]OGRID No.	[8]Operator Name	[9]Elevation
372224	AMEREDEV OPERATING, LLC.	2903'

[10]Surface Location

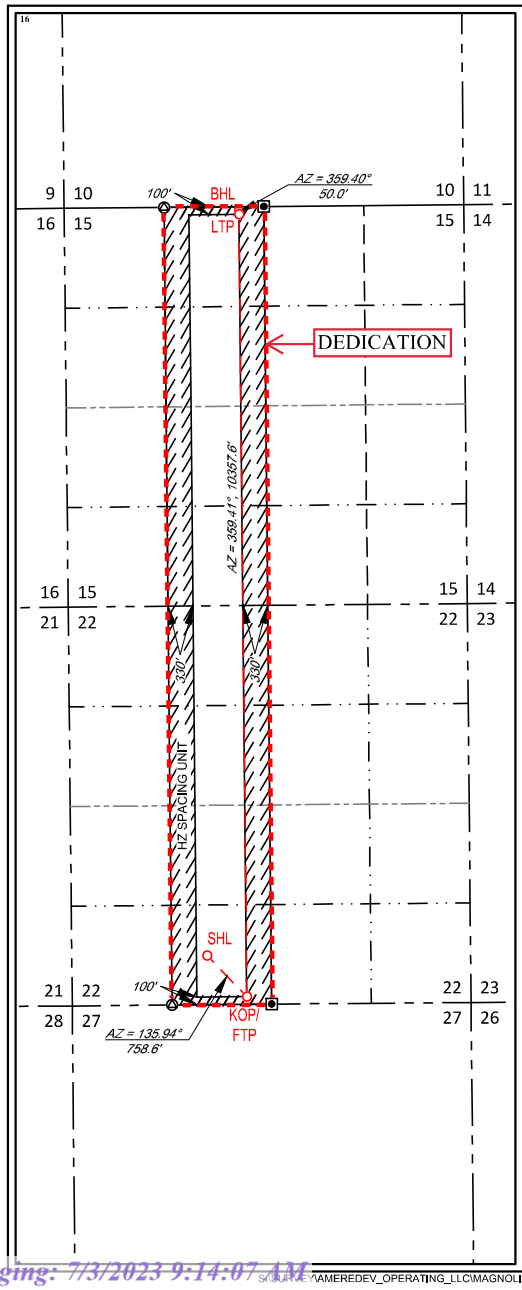
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	22	26-S	36-E	–	650'	SOUTH	1788'	WEST	LEA

[11]Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	15	26-S	36-E	–	50'	NORTH	2310'	WEST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order 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)
650' FSL - SEC. 22
1788' FWL - SEC. 22
X=875292 Y=373886
LAT.: N 32.0233142
LONG.: W 103.2557734

KICK OFF POINT (KOP)
FIRST TAKE POINT (FTP)
100' FSL - SEC. 22
2310' FWL - SEC. 22
X=875820 Y=373341
LAT.: N 32.0218016
LONG.: W 103.2540889

LAST TAKE POINT (LTP)
100' FNL - SEC. 15
2310' FWL - SEC. 15
X=875714 Y=383698
LAT.: N 32.0502710
LONG.: W 103.2540965

BOTTOM HOLE LOCATION (BHL)
50' FNL - SEC. 15
2310' FWL - SEC. 15
X=875714 Y=383748
LAT.: N 32.0504084
LONG.: W 103.2540965

[17]OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date: 6/21/2023

Floyd Hammond
Printed Name

fhammond@ameredev.com
E-mail Address

[18]SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

05/11/2019
Date of Survey
Signature and Seal of Professional Surveyor

ANGEL M. BAEZA
NEW MEXICO
25115
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 343881

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
AMEREDEV OPERATING, LLC [372224] 2901 Via Fortuna Austin, TX 78746	30-025-51680
	Well: MAGNOLIA 26 36 22 STATE COM #072H

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

Magnolia 26 36 22 State Com 072H

First Bone Spring Sand | 2 Mile Lateral

County, St: Lea, NM
SHL: Section 22 , T26S , R36E
650' FSL, 1788' FWL
BHL: Section 15 , T26S , R36E
50' FNL, 2310' FWL
Wellhead: A - 13-5/8" 5M x 13-5/8" SOW
B - 13-5/8" 5M x 13-5/8" 5M
C - 13-5/8" 5M x 13-5/8" 5M
Tubing Spool: 7-1/16" 10M x 13-3/8" 5M
Xmas Tree: 2-9/16" 10M
Tubing: 3-1/2" L-80 6.5# 8rd EUE

Co. Well ID: XXXXXX
AFE #: 2023-XXX
API #: 30-025-XXXXX
Permit: NMOCD
GL: 2,903'
Field: Delaware
Rig: H&P 642
KB: 27.0'
Elevation: 2,930'
E-Mail: drillingengineering@ameredev.com
Offsets:

General Notes	Hole Size		Casing & Cement	Geology	TVD	Mud Weight
Notify BLM prior to spud, running casing, cementing, and BOP testing **Sundry to be sent before spud** **1500 psi Surface Casing Test Done by Spudder Rig**	**17-1/2"**	**1818' MD**	**Lead (100% OH excess)** 1086 sx 12.8 ppg Class C Top of Lead @ 0' **Tail (100% OH excess)** 340 sx 14.8 ppg Class C Top of Tail @ 1518' **13.375 | 54.5 | J-55 | BTC** **0 - 1818**	Conductor Rustler	122' 1,793'	8.4 - 8.6 ppg FW
Stage 1 Designed to Circulate Cement to Surface **DV Tool (Int)** **3801** **Casing Test to 1500 psi**	**12-1/4"**	**5120' MD** **5120' TVD**	**Stg 1 Lead (50% OH excess)** 445 sx 11 ppg Class C - Low Portland Top of Lead @ 0' **Stg 1 Tail (50% OH excess)** 177 sx 14.8 ppg Class C Top of Tail @ 4370' **Stg 2 Lead (50% OH excess)** 629 sx 12.8 ppg Class C - Low Portland Top of Lead @ 0' **Stg 2 Tail (25% OH excess)** 106 sx 14.8 ppg Class C Top of Tail @ 3201' **10.75 | 45.5 | HC L-80 | SC BTC** **0 - 5120**	Salado Tansill Capitan Lamar	2,256' 3,231' 3,901' 4,995'	10 ppg Brine
FIT to 10.5 ppg EMW	**8-3/4"** **Vertical**			Bell Canyon Brushy Canyon Bone Spring Lime	5,196' 6,793' 7,727'	9.0 - 9.5 ppg Cut Brine
12° DLS curve section **Surveys: 45' Curve , 90' Lateral** **LTP VS: 10307'** **90° INC, 359.41° AZM** **BHL VS: 10357'** **90° INC, 359.41° AZM**	**8-3/4"** **Curve** **8-1/2"** **Lateral**	KOP **9024' MD** **8973' TVD** EOC **9774' MD** **9450' TVD** **19705' MD** **9,450' TVD @ BHL** **10,357' VS**	**Lead (50% OH excess)** 2049 sx 10.6 ppg ProLite Top of Lead @ 0' **Tail (20% OH excess)** 4141 sx 14.5 ppg Class H - Premium PozMix Top of Tail @ 9705' **5.5 I 17 I USS RYS P-110 I Eagle SFH** **0 - 19705** **5-1/2" marker jts @ ~8870', 14710' MD**	First Bone Spring **No Casing Test**	9,417'	9.0 - 9.5 ppg Cut Brine

Ameredev Operating

Lea County, NM (N83-NME)

MAGNOLIA ST COM PROJECT

MAGNOLIA 26 36 22 STATE COM #072H

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 #072H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2930.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2930.0usft
Site:	MAGNOLIA ST COM PROJECT	**North Reference:**	Grid
Well:	MAGNOLIA ST COM 26 36 22 #072H	**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 #072H

Well Position	**+N/-S**	0.0 usft	**Northing:**	373,885.84 usft	**Latitude:**	32.0233142
	+E/-W	0.0 usft	**Easting:**	875,292.35 usft	**Longitude:**	-103.2557734
Position Uncertainty		3.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	2,903.0 usft
Grid Convergence:		0.57 °				

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/13/2023	6.15	59.69	47,201.98132762

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	19,704.5	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	135.85	1,898.7	-20.0	19.4	2.00	2.00	0.00	135.85	
6,956.7	8.00	135.85	6,906.2	-525.0	509.6	0.00	0.00	0.00	0.00	
7,356.7	0.00	0.00	7,304.9	-545.0	529.0	2.00	-2.00	0.00	180.00	
9,024.4	0.00	0.00	8,972.6	-545.0	529.0	0.00	0.00	0.00	0.00	
9,774.4	90.00	359.41	9,450.1	-67.6	524.1	12.00	12.00	-0.08	359.41	
19,704.5	90.00	359.41	9,450.0	9,862.0	421.2	0.00	0.00	0.00	0.00	BHL (MSC 072H)

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well MAGNOLIA ST COM 26 36 22 #072H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2930.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2930.0usft
Site:	MAGNOLIA ST COM PROJECT	**North Reference:**	Grid
Well:	MAGNOLIA ST COM 26 36 22 #072H	**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	373,885.84	875,292.35	32.0233142	-103.2557734
100.0	0.00	0.00	100.0	0.0	0.0	373,885.84	875,292.35	32.0233142	-103.2557734
200.0	0.00	0.00	200.0	0.0	0.0	373,885.84	875,292.35	32.0233142	-103.2557734
300.0	0.00	0.00	300.0	0.0	0.0	373,885.84	875,292.35	32.0233142	-103.2557734
400.0	0.00	0.00	400.0	0.0	0.0	373,885.84	875,292.35	32.0233142	-103.2557734
500.0	0.00	0.00	500.0	0.0	0.0	373,885.84	875,292.35	32.0233142	-103.2557734
600.0	0.00	0.00	600.0	0.0	0.0	373,885.84	875,292.35	32.0233142	-103.2557734
700.0	0.00	0.00	700.0	0.0	0.0	373,885.84	875,292.35	32.0233142	-103.2557734
800.0	0.00	0.00	800.0	0.0	0.0	373,885.84	875,292.35	32.0233142	-103.2557734
900.0	0.00	0.00	900.0	0.0	0.0	373,885.84	875,292.35	32.0233142	-103.2557734
1,000.0	0.00	0.00	1,000.0	0.0	0.0	373,885.84	875,292.35	32.0233142	-103.2557734
1,100.0	0.00	0.00	1,100.0	0.0	0.0	373,885.84	875,292.35	32.0233142	-103.2557734
1,200.0	0.00	0.00	1,200.0	0.0	0.0	373,885.84	875,292.35	32.0233142	-103.2557734
1,300.0	0.00	0.00	1,300.0	0.0	0.0	373,885.84	875,292.35	32.0233142	-103.2557734
1,400.0	0.00	0.00	1,400.0	0.0	0.0	373,885.84	875,292.35	32.0233142	-103.2557734
1,500.0	0.00	0.00	1,500.0	0.0	0.0	373,885.84	875,292.35	32.0233142	-103.2557734
Start Build 2.00									
1,600.0	2.00	135.85	1,600.0	-1.3	1.2	373,884.59	875,293.57	32.0233108	-103.2557695
1,700.0	4.00	135.85	1,699.8	-5.0	4.9	373,880.83	875,297.21	32.0233003	-103.2557579
1,793.5	5.87	135.85	1,793.0	-10.8	10.5	373,875.06	875,302.82	32.0232843	-103.2557400
Rustler									
1,800.0	6.00	135.85	1,799.5	-11.3	10.9	373,874.58	875,303.28	32.0232830	-103.2557385
1,900.0	8.00	135.85	1,898.7	-20.0	19.4	373,865.83	875,311.77	32.0232587	-103.2557114
Start 5056.7 hold at 1900.0 MD									
2,000.0	8.00	135.85	1,997.7	-30.0	29.1	373,855.85	875,321.46	32.0232310	-103.2556804
2,100.0	8.00	135.85	2,096.8	-40.0	38.8	373,845.86	875,331.16	32.0232033	-103.2556495
2,200.0	8.00	135.85	2,195.8	-50.0	48.5	373,835.87	875,340.85	32.0231756	-103.2556185
2,260.8	8.00	135.85	2,256.0	-56.0	54.4	373,829.80	875,346.75	32.0231587	-103.2555997
Salado									
2,300.0	8.00	135.85	2,294.8	-60.0	58.2	373,825.89	875,350.54	32.0231479	-103.2555876
2,400.0	8.00	135.85	2,393.8	-69.9	67.9	373,815.90	875,360.24	32.0231201	-103.2555566
2,500.0	8.00	135.85	2,492.9	-79.9	77.6	373,805.91	875,369.93	32.0230924	-103.2555257
2,600.0	8.00	135.85	2,591.9	-89.9	87.3	373,795.93	875,379.62	32.0230647	-103.2554947
2,700.0	8.00	135.85	2,690.9	-99.9	97.0	373,785.94	875,389.32	32.0230370	-103.2554638
2,800.0	8.00	135.85	2,789.9	-109.9	106.7	373,775.95	875,399.01	32.0230093	-103.2554328
2,900.0	8.00	135.85	2,889.0	-119.9	116.4	373,765.97	875,408.70	32.0229816	-103.2554019
2,941.4	8.00	135.85	2,930.0	-124.0	120.4	373,761.83	875,412.72	32.0229701	-103.2553891
Dewey Lake									
3,000.0	8.00	135.85	2,988.0	-129.9	126.0	373,755.98	875,418.40	32.0229539	-103.2553709
3,100.0	8.00	135.85	3,087.0	-139.8	135.7	373,745.99	875,428.09	32.0229261	-103.2553400
3,200.0	8.00	135.85	3,186.1	-149.8	145.4	373,736.01	875,437.78	32.0228984	-103.2553090
3,245.4	8.00	135.85	3,231.0	-154.4	149.8	373,731.47	875,442.18	32.0228858	-103.2552950
Tansill									
3,300.0	8.00	135.85	3,285.1	-159.8	155.1	373,726.02	875,447.48	32.0228707	-103.2552781
3,400.0	8.00	135.85	3,384.1	-169.8	164.8	373,716.03	875,457.17	32.0228430	-103.2552471
3,500.0	8.00	135.85	3,483.1	-179.8	174.5	373,706.05	875,466.86	32.0228153	-103.2552162
3,600.0	8.00	135.85	3,582.2	-189.8	184.2	373,696.06	875,476.56	32.0227876	-103.2551852
3,700.0	8.00	135.85	3,681.2	-199.8	193.9	373,686.07	875,486.25	32.0227599	-103.2551543
3,800.0	8.00	135.85	3,780.2	-209.7	203.6	373,676.09	875,495.94	32.0227321	-103.2551233
3,900.0	8.00	135.85	3,879.2	-219.7	213.3	373,666.10	875,505.64	32.0227044	-103.2550924
3,922.0	8.00	135.85	3,901.0	-221.9	215.4	373,663.91	875,507.77	32.0226983	-103.2550856
Capitan									
4,000.0	8.00	135.85	3,978.3	-229.7	223.0	373,656.11	875,515.33	32.0226767	-103.2550614
4,100.0	8.00	135.85	4,077.3	-239.7	232.7	373,646.13	875,525.02	32.0226490	-103.2550305

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well MAGNOLIA ST COM 26 36 22 #072H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2930.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2930.0usft
Site:	MAGNOLIA ST COM PROJECT	**North Reference:**	Grid
Well:	MAGNOLIA ST COM 26 36 22 #072H	**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	135.85	4,176.3	-249.7	242.4	373,636.14	875,534.72	32.0226213	-103.2549995
4,300.0	8.00	135.85	4,275.3	-259.7	252.1	373,626.16	875,544.41	32.0225936	-103.2549686
4,400.0	8.00	135.85	4,374.4	-269.7	261.8	373,616.17	875,554.10	32.0225659	-103.2549376
4,500.0	8.00	135.85	4,473.4	-279.7	271.4	373,606.18	875,563.80	32.0225381	-103.2549067
4,600.0	8.00	135.85	4,572.4	-289.6	281.1	373,596.20	875,573.49	32.0225104	-103.2548757
4,700.0	8.00	135.85	4,671.5	-299.6	290.8	373,586.21	875,583.18	32.0224827	-103.2548448
4,800.0	8.00	135.85	4,770.5	-309.6	300.5	373,576.22	875,592.88	32.0224550	-103.2548138
4,900.0	8.00	135.85	4,869.5	-319.6	310.2	373,566.24	875,602.57	32.0224273	-103.2547829
5,000.0	8.00	135.85	4,968.5	-329.6	319.9	373,556.25	875,612.26	32.0223996	-103.2547519
5,026.7	8.00	135.85	4,995.0	-332.3	322.5	373,553.58	875,614.86	32.0223922	-103.2547436
Lamar									
5,100.0	8.00	135.85	5,067.6	-339.6	329.6	373,546.26	875,621.96	32.0223719	-103.2547210
5,200.0	8.00	135.85	5,166.6	-349.6	339.3	373,536.28	875,631.65	32.0223441	-103.2546900
5,229.7	8.00	135.85	5,196.0	-352.5	342.2	373,533.31	875,634.53	32.0223359	-103.2546808
Bell Canyon									
5,300.0	8.00	135.85	5,265.6	-359.5	349.0	373,526.29	875,641.34	32.0223164	-103.2546591
5,400.0	8.00	135.85	5,364.6	-369.5	358.7	373,516.30	875,651.04	32.0222887	-103.2546281
5,500.0	8.00	135.85	5,463.7	-379.5	368.4	373,506.32	875,660.73	32.0222610	-103.2545972
5,600.0	8.00	135.85	5,562.7	-389.5	378.1	373,496.33	875,670.42	32.0222333	-103.2545662
5,700.0	8.00	135.85	5,661.7	-399.5	387.8	373,486.34	875,680.12	32.0222056	-103.2545353
5,800.0	8.00	135.85	5,760.7	-409.5	397.5	373,476.36	875,689.81	32.0221779	-103.2545043
5,900.0	8.00	135.85	5,859.8	-419.5	407.2	373,466.37	875,699.50	32.0221502	-103.2544734
6,000.0	8.00	135.85	5,958.8	-429.5	416.8	373,456.38	875,709.20	32.0221224	-103.2544424
6,100.0	8.00	135.85	6,057.8	-439.4	426.5	373,446.40	875,718.89	32.0220947	-103.2544115
6,200.0	8.00	135.85	6,156.9	-449.4	436.2	373,436.41	875,728.58	32.0220670	-103.2543805
6,300.0	8.00	135.85	6,255.9	-459.4	445.9	373,426.42	875,738.28	32.0220393	-103.2543496
6,400.0	8.00	135.85	6,354.9	-469.4	455.6	373,416.44	875,747.97	32.0220116	-103.2543186
6,500.0	8.00	135.85	6,453.9	-479.4	465.3	373,406.45	875,757.66	32.0219839	-103.2542877
6,600.0	8.00	135.85	6,553.0	-489.4	475.0	373,396.47	875,767.36	32.0219562	-103.2542567
6,700.0	8.00	135.85	6,652.0	-499.4	484.7	373,386.48	875,777.05	32.0219284	-103.2542258
6,800.0	8.00	135.85	6,751.0	-509.3	494.4	373,376.49	875,786.74	32.0219007	-103.2541948
6,842.4	8.00	135.85	6,793.0	-513.6	498.5	373,372.26	875,790.85	32.0218890	-103.2541817
Brushy Canyon									
6,900.0	8.00	135.85	6,850.0	-519.3	504.1	373,366.51	875,796.44	32.0218730	-103.2541639
6,956.7	8.00	135.85	6,906.2	-525.0	509.6	373,360.84	875,801.93	32.0218573	-103.2541463
Start Drop -2.00									
7,000.0	7.13	135.85	6,949.1	-529.1	513.6	373,356.75	875,805.91	32.0218459	-103.2541336
7,100.0	5.13	135.85	7,048.5	-536.8	521.0	373,349.08	875,813.35	32.0218247	-103.2541099
7,200.0	3.13	135.85	7,148.3	-541.9	526.0	373,343.91	875,818.37	32.0218103	-103.2540938
7,300.0	1.13	135.85	7,248.2	-544.6	528.6	373,341.24	875,820.96	32.0218029	-103.2540856
7,356.7	0.00	0.00	7,304.9	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
Start 1667.7 hold at 7356.7 MD									
7,400.0	0.00	0.00	7,348.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
7,500.0	0.00	0.00	7,448.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
7,600.0	0.00	0.00	7,548.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
7,700.0	0.00	0.00	7,648.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
7,778.8	0.00	0.00	7,727.0	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
Bone Spring Lime									
7,800.0	0.00	0.00	7,748.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
7,900.0	0.00	0.00	7,848.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
8,000.0	0.00	0.00	7,948.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
8,100.0	0.00	0.00	8,048.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
8,200.0	0.00	0.00	8,148.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
8,300.0	0.00	0.00	8,248.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well MAGNOLIA ST COM 26 36 22 #072H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2930.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2930.0usft
Site:	MAGNOLIA ST COM PROJECT	**North Reference:**	Grid
Well:	MAGNOLIA ST COM 26 36 22 #072H	**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	8,348.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
8,500.0	0.00	0.00	8,448.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
8,600.0	0.00	0.00	8,548.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
8,700.0	0.00	0.00	8,648.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
8,800.0	0.00	0.00	8,748.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
8,900.0	0.00	0.00	8,848.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
9,000.0	0.00	0.00	8,948.2	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
9,024.4	0.00	0.00	8,972.6	-545.0	529.0	373,340.84	875,821.35	32.0218018	-103.2540843
KOP-Start DLS 12.00 TFO 359.41									
9,050.0	3.07	359.41	8,998.2	-544.3	529.0	373,341.52	875,821.35	32.0218037	-103.2540843
9,075.0	6.07	359.41	9,023.1	-542.3	529.0	373,343.52	875,821.33	32.0218091	-103.2540843
9,100.0	9.07	359.41	9,047.9	-539.0	528.9	373,346.81	875,821.29	32.0218182	-103.2540843
9,125.0	12.07	359.41	9,072.4	-534.4	528.9	373,351.39	875,821.24	32.0218308	-103.2540843
9,150.0	15.07	359.41	9,096.7	-528.6	528.8	373,357.26	875,821.18	32.0218469	-103.2540843
9,175.0	18.07	359.41	9,120.7	-521.4	528.8	373,364.39	875,821.11	32.0218665	-103.2540843
9,200.0	21.07	359.41	9,144.3	-513.1	528.7	373,372.76	875,821.02	32.0218895	-103.2540843
9,225.0	24.07	359.41	9,167.3	-503.5	528.6	373,382.36	875,820.92	32.0219159	-103.2540844
9,250.0	27.07	359.41	9,189.9	-492.7	528.5	373,393.14	875,820.81	32.0219456	-103.2540844
9,275.0	30.07	359.41	9,211.8	-480.7	528.3	373,405.10	875,820.69	32.0219784	-103.2540844
9,300.0	33.07	359.41	9,233.1	-467.7	528.2	373,418.19	875,820.55	32.0220144	-103.2540844
9,325.0	36.07	359.41	9,253.7	-453.5	528.1	373,432.37	875,820.40	32.0220534	-103.2540844
9,350.0	39.07	359.41	9,273.5	-438.2	527.9	373,447.61	875,820.25	32.0220953	-103.2540844
9,375.0	42.07	359.41	9,292.5	-422.0	527.7	373,463.87	875,820.08	32.0221400	-103.2540845
9,400.0	45.07	359.41	9,310.6	-404.7	527.5	373,481.09	875,819.90	32.0221873	-103.2540845
9,425.0	48.07	359.41	9,327.8	-386.6	527.4	373,499.25	875,819.71	32.0222372	-103.2540845
9,450.0	51.07	359.41	9,344.0	-367.6	527.2	373,518.27	875,819.52	32.0222895	-103.2540845
9,475.0	54.07	359.41	9,359.2	-347.7	527.0	373,538.12	875,819.31	32.0223441	-103.2540845
9,500.0	57.07	359.41	9,373.4	-327.1	526.7	373,558.74	875,819.10	32.0224007	-103.2540846
9,525.0	60.07	359.41	9,386.4	-305.8	526.5	373,580.07	875,818.88	32.0224594	-103.2540846
9,550.0	63.07	359.41	9,398.3	-283.8	526.3	373,602.05	875,818.65	32.0225198	-103.2540846
9,575.0	66.07	359.41	9,409.0	-261.2	526.1	373,624.63	875,818.41	32.0225819	-103.2540846
9,595.7	68.55	359.41	9,417.0	-242.1	525.9	373,643.70	875,818.22	32.0226343	-103.2540847
First Bone Spring									
9,600.0	69.07	359.41	9,418.6	-238.1	525.8	373,647.73	875,818.17	32.0226454	-103.2540847
9,625.0	72.07	359.41	9,426.9	-214.5	525.6	373,671.30	875,817.93	32.0227102	-103.2540847
9,650.0	75.07	359.41	9,433.9	-190.6	525.3	373,695.28	875,817.68	32.0227761	-103.2540847
9,675.0	78.07	359.41	9,439.8	-166.2	525.1	373,719.59	875,817.43	32.0228429	-103.2540848
9,700.0	81.07	359.41	9,444.3	-141.7	524.8	373,744.17	875,817.18	32.0229105	-103.2540848
9,725.0	84.07	359.41	9,447.5	-116.9	524.6	373,768.96	875,816.92	32.0229786	-103.2540848
9,750.0	87.07	359.41	9,449.4	-92.0	524.3	373,793.88	875,816.66	32.0230471	-103.2540848
9,774.4	90.00	359.41	9,450.1	-67.6	524.1	373,818.28	875,816.41	32.0231142	-103.2540849
LP-Start 9930.1 hold at 9774.4 MD									
9,800.0	90.00	359.41	9,450.1	-42.0	523.8	373,843.87	875,816.14	32.0231845	-103.2540849
9,900.0	90.00	359.41	9,450.1	58.0	522.8	373,943.86	875,815.11	32.0234594	-103.2540850
10,000.0	90.00	359.41	9,450.1	158.0	521.7	374,043.86	875,814.07	32.0237342	-103.2540851
10,100.0	90.00	359.41	9,450.1	258.0	520.7	374,143.85	875,813.04	32.0240091	-103.2540853
10,200.0	90.00	359.41	9,450.1	358.0	519.6	374,243.85	875,812.00	32.0242840	-103.2540854
10,300.0	90.00	359.41	9,450.1	458.0	518.6	374,343.84	875,810.97	32.0245588	-103.2540855
10,400.0	90.00	359.41	9,450.1	558.0	517.6	374,443.83	875,809.93	32.0248337	-103.2540856
10,500.0	90.00	359.41	9,450.1	658.0	516.5	374,543.83	875,808.89	32.0251085	-103.2540857
10,600.0	90.00	359.41	9,450.1	758.0	515.5	374,643.82	875,807.86	32.0253834	-103.2540859
10,700.0	90.00	359.41	9,450.1	858.0	514.5	374,743.82	875,806.82	32.0256583	-103.2540860
10,800.0	90.00	359.41	9,450.1	958.0	513.4	374,843.81	875,805.79	32.0259331	-103.2540861
10,900.0	90.00	359.41	9,450.1	1,058.0	512.4	374,943.81	875,804.75	32.0262080	-103.2540862

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well MAGNOLIA ST COM 26 36 22 #072H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2930.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2930.0usft
Site:	MAGNOLIA ST COM PROJECT	**North Reference:**	Grid
Well:	MAGNOLIA ST COM 26 36 22 #072H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,000.0	90.00	359.41	9,450.1	1,158.0	511.4	375,043.80	875,803.72	32.0264829	-103.2540863
11,100.0	90.00	359.41	9,450.1	1,258.0	510.3	375,143.80	875,802.68	32.0267577	-103.2540864
11,200.0	90.00	359.41	9,450.1	1,358.0	509.3	375,243.79	875,801.65	32.0270326	-103.2540866
11,300.0	90.00	359.41	9,450.1	1,457.9	508.3	375,343.79	875,800.61	32.0273075	-103.2540867
11,400.0	90.00	359.41	9,450.1	1,557.9	507.2	375,443.78	875,799.58	32.0275823	-103.2540868
11,500.0	90.00	359.41	9,450.1	1,657.9	506.2	375,543.78	875,798.54	32.0278572	-103.2540869
11,600.0	90.00	359.41	9,450.1	1,757.9	505.2	375,643.77	875,797.50	32.0281321	-103.2540870
11,700.0	90.00	359.41	9,450.1	1,857.9	504.1	375,743.77	875,796.47	32.0284069	-103.2540871
11,800.0	90.00	359.41	9,450.1	1,957.9	503.1	375,843.76	875,795.43	32.0286818	-103.2540873
11,900.0	90.00	359.41	9,450.1	2,057.9	502.0	375,943.75	875,794.40	32.0289566	-103.2540874
12,000.0	90.00	359.41	9,450.1	2,157.9	501.0	376,043.75	875,793.36	32.0292315	-103.2540875
12,100.0	90.00	359.41	9,450.0	2,257.9	500.0	376,143.74	875,792.33	32.0295064	-103.2540876
12,200.0	90.00	359.41	9,450.0	2,357.9	498.9	376,243.74	875,791.29	32.0297812	-103.2540877
12,300.0	90.00	359.41	9,450.0	2,457.9	497.9	376,343.73	875,790.26	32.0300561	-103.2540879
12,400.0	90.00	359.41	9,450.0	2,557.9	496.9	376,443.73	875,789.22	32.0303310	-103.2540880
12,500.0	90.00	359.41	9,450.0	2,657.9	495.8	376,543.72	875,788.18	32.0306058	-103.2540881
12,600.0	90.00	359.41	9,450.0	2,757.9	494.8	376,643.72	875,787.15	32.0308807	-103.2540882
12,700.0	90.00	359.41	9,450.0	2,857.9	493.8	376,743.71	875,786.11	32.0311556	-103.2540883
12,800.0	90.00	359.41	9,450.0	2,957.9	492.7	376,843.71	875,785.08	32.0314304	-103.2540884
12,900.0	90.00	359.41	9,450.0	3,057.9	491.7	376,943.70	875,784.04	32.0317053	-103.2540886
13,000.0	90.00	359.41	9,450.0	3,157.9	490.7	377,043.70	875,783.01	32.0319801	-103.2540887
13,100.0	90.00	359.41	9,450.0	3,257.9	489.6	377,143.69	875,781.97	32.0322550	-103.2540888
13,200.0	90.00	359.41	9,450.0	3,357.8	488.6	377,243.68	875,780.94	32.0325299	-103.2540889
13,300.0	90.00	359.41	9,450.0	3,457.8	487.5	377,343.68	875,779.90	32.0328047	-103.2540890
13,400.0	90.00	359.41	9,450.0	3,557.8	486.5	377,443.67	875,778.86	32.0330796	-103.2540891
13,500.0	90.00	359.41	9,450.0	3,657.8	485.5	377,543.67	875,777.83	32.0333545	-103.2540893
13,600.0	90.00	359.41	9,450.0	3,757.8	484.4	377,643.66	875,776.79	32.0336293	-103.2540894
13,700.0	90.00	359.41	9,450.0	3,857.8	483.4	377,743.66	875,775.76	32.0339042	-103.2540895
13,800.0	90.00	359.41	9,450.0	3,957.8	482.4	377,843.65	875,774.72	32.0341791	-103.2540896
13,900.0	90.00	359.41	9,450.0	4,057.8	481.3	377,943.65	875,773.69	32.0344539	-103.2540897
14,000.0	90.00	359.41	9,450.0	4,157.8	480.3	378,043.64	875,772.65	32.0347288	-103.2540898
14,100.0	90.00	359.41	9,450.0	4,257.8	479.3	378,143.64	875,771.62	32.0350036	-103.2540900
14,200.0	90.00	359.41	9,450.0	4,357.8	478.2	378,243.63	875,770.58	32.0352785	-103.2540901
14,300.0	90.00	359.41	9,450.0	4,457.8	477.2	378,343.63	875,769.54	32.0355534	-103.2540902
14,400.0	90.00	359.41	9,450.0	4,557.8	476.2	378,443.62	875,768.51	32.0358282	-103.2540903
14,500.0	90.00	359.41	9,450.0	4,657.8	475.1	378,543.62	875,767.47	32.0361031	-103.2540904
14,600.0	90.00	359.41	9,450.0	4,757.8	474.1	378,643.61	875,766.44	32.0363780	-103.2540906
14,700.0	90.00	359.41	9,450.0	4,857.8	473.1	378,743.60	875,765.40	32.0366528	-103.2540907
14,800.0	90.00	359.41	9,450.0	4,957.8	472.0	378,843.60	875,764.37	32.0369277	-103.2540908
14,900.0	90.00	359.41	9,450.0	5,057.8	471.0	378,943.59	875,763.33	32.0372026	-103.2540909
15,000.0	90.00	359.41	9,450.0	5,157.8	469.9	379,043.59	875,762.30	32.0374774	-103.2540910
15,100.0	90.00	359.41	9,450.0	5,257.7	468.9	379,143.58	875,761.26	32.0377523	-103.2540911
15,200.0	90.00	359.41	9,450.0	5,357.7	467.9	379,243.58	875,760.23	32.0380271	-103.2540913
15,300.0	90.00	359.41	9,450.0	5,457.7	466.8	379,343.57	875,759.19	32.0383020	-103.2540914
15,400.0	90.00	359.41	9,450.0	5,557.7	465.8	379,443.57	875,758.15	32.0385769	-103.2540915
15,500.0	90.00	359.41	9,450.0	5,657.7	464.8	379,543.56	875,757.12	32.0388517	-103.2540916
15,600.0	90.00	359.41	9,450.0	5,757.7	463.7	379,643.56	875,756.08	32.0391266	-103.2540917
15,700.0	90.00	359.41	9,450.0	5,857.7	462.7	379,743.55	875,755.05	32.0394015	-103.2540918
15,800.0	90.00	359.41	9,450.0	5,957.7	461.7	379,843.55	875,754.01	32.0396763	-103.2540920
15,900.0	90.00	359.41	9,450.0	6,057.7	460.6	379,943.54	875,752.98	32.0399512	-103.2540921
16,000.0	90.00	359.41	9,450.0	6,157.7	459.6	380,043.53	875,751.94	32.0402261	-103.2540922
16,100.0	90.00	359.41	9,450.0	6,257.7	458.6	380,143.53	875,750.91	32.0405009	-103.2540923
16,200.0	90.00	359.41	9,450.0	6,357.7	457.5	380,243.52	875,749.87	32.0407758	-103.2540924
16,300.0	90.00	359.41	9,450.0	6,457.7	456.5	380,343.52	875,748.83	32.0410506	-103.2540925
16,400.0	90.00	359.41	9,450.0	6,557.7	455.4	380,443.51	875,747.80	32.0413255	-103.2540927

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Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well MAGNOLIA ST COM 26 36 22 #072H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2930.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2930.0usft
Site:	MAGNOLIA ST COM PROJECT	**North Reference:**	Grid
Well:	MAGNOLIA ST COM 26 36 22 #072H	**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
16,500.0	90.00	359.41	9,450.0	6,657.7	454.4	380,543.51	875,746.76	32.0416004	-103.2540928
16,600.0	90.00	359.41	9,450.0	6,757.7	453.4	380,643.50	875,745.73	32.0418752	-103.2540929
16,700.0	90.00	359.41	9,450.0	6,857.7	452.3	380,743.50	875,744.69	32.0421501	-103.2540930
16,800.0	90.00	359.41	9,450.0	6,957.7	451.3	380,843.49	875,743.66	32.0424250	-103.2540931
16,900.0	90.00	359.41	9,450.0	7,057.6	450.3	380,943.49	875,742.62	32.0426998	-103.2540932
17,000.0	90.00	359.41	9,450.0	7,157.6	449.2	381,043.48	875,741.59	32.0429747	-103.2540934
17,100.0	90.00	359.41	9,450.0	7,257.6	448.2	381,143.48	875,740.55	32.0432496	-103.2540935
17,200.0	90.00	359.41	9,450.0	7,357.6	447.2	381,243.47	875,739.51	32.0435244	-103.2540936
17,300.0	90.00	359.41	9,450.0	7,457.6	446.1	381,343.47	875,738.48	32.0437993	-103.2540937
17,400.0	90.00	359.41	9,450.0	7,557.6	445.1	381,443.46	875,737.44	32.0440741	-103.2540938
17,500.0	90.00	359.41	9,450.0	7,657.6	444.1	381,543.45	875,736.41	32.0443490	-103.2540939
17,600.0	90.00	359.41	9,450.0	7,757.6	443.0	381,643.45	875,735.37	32.0446239	-103.2540941
17,700.0	90.00	359.41	9,450.0	7,857.6	442.0	381,743.44	875,734.34	32.0448987	-103.2540942
17,800.0	90.00	359.41	9,450.0	7,957.6	440.9	381,843.44	875,733.30	32.0451736	-103.2540943
17,900.0	90.00	359.41	9,450.0	8,057.6	439.9	381,943.43	875,732.27	32.0454485	-103.2540944
18,000.0	90.00	359.41	9,450.0	8,157.6	438.9	382,043.43	875,731.23	32.0457233	-103.2540945
18,100.0	90.00	359.41	9,450.0	8,257.6	437.8	382,143.42	875,730.20	32.0459982	-103.2540946
18,200.0	90.00	359.41	9,450.0	8,357.6	436.8	382,243.42	875,729.16	32.0462730	-103.2540947
18,300.0	90.00	359.41	9,450.0	8,457.6	435.8	382,343.41	875,728.12	32.0465479	-103.2540949
18,400.0	90.00	359.41	9,450.0	8,557.6	434.7	382,443.41	875,727.09	32.0468228	-103.2540950
18,500.0	90.00	359.41	9,450.0	8,657.6	433.7	382,543.40	875,726.05	32.0470976	-103.2540951
18,600.0	90.00	359.41	9,450.0	8,757.6	432.7	382,643.40	875,725.02	32.0473725	-103.2540952
18,700.0	90.00	359.41	9,450.0	8,857.6	431.6	382,743.39	875,723.98	32.0476474	-103.2540953
18,800.0	90.00	359.41	9,450.0	8,957.5	430.6	382,843.38	875,722.95	32.0479222	-103.2540954
18,900.0	90.00	359.41	9,450.0	9,057.5	429.6	382,943.38	875,721.91	32.0481971	-103.2540956
19,000.0	90.00	359.41	9,450.0	9,157.5	428.5	383,043.37	875,720.88	32.0484720	-103.2540957
19,100.0	90.00	359.41	9,450.0	9,257.5	427.5	383,143.37	875,719.84	32.0487468	-103.2540958
19,200.0	90.00	359.41	9,450.0	9,357.5	426.5	383,243.36	875,718.80	32.0490217	-103.2540959
19,300.0	90.00	359.41	9,450.0	9,457.5	425.4	383,343.36	875,717.77	32.0492965	-103.2540960
19,400.0	90.00	359.41	9,450.0	9,557.5	424.4	383,443.35	875,716.73	32.0495714	-103.2540961
19,500.0	90.00	359.41	9,450.0	9,657.5	423.3	383,543.35	875,715.70	32.0498463	-103.2540963
19,600.0	90.00	359.41	9,450.0	9,757.5	422.3	383,643.34	875,714.66	32.0501211	-103.2540964
19,704.5	90.00	359.41	9,450.0	9,862.0	421.2	383,747.86	875,713.58	32.0504084	-103.2540965
TD at 19704.5									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (MSC 072H) - plan hits target center - Point	0.00	0.00	9,450.0	9,812.0	421.7	383,697.87	875,714.08	32.0502710	-103.2540965
FTP (MSC 072H) - plan misses target center by 197.8usft at 9400.0usft MD (9310.6 TVD, -404.7 N, 527.5 E) - Point	0.00	0.00	9,450.0	-545.1	527.6	373,340.77	875,819.93	32.0218016	-103.2540889
BHL (MSC 072H) - plan hits target center - Point	0.00	0.00	9,450.0	9,862.0	421.2	383,747.86	875,713.58	32.0504084	-103.2540965

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Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well MAGNOLIA ST COM 26 36 22 #072H
Company:	Ameredev Operating	**TVD Reference:**	KB=27' @ 2930.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=27' @ 2930.0usft
Site:	MAGNOLIA ST COM PROJECT	**North Reference:**	Grid
Well:	MAGNOLIA ST COM 26 36 22 #072H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,793.5	1,793.0	Rustler			
2,260.8	2,256.0	Salado			
2,941.4	2,930.0	Dewey Lake			
3,245.4	3,231.0	Tansill			
3,922.0	3,901.0	Capitan			
5,026.7	4,995.0	Lamar			
5,229.7	5,196.0	Bell Canyon			
6,842.4	6,793.0	Brushy Canyon			
7,778.8	7,727.0	Bone Spring Lime			
9,595.7	9,417.0	First Bone Spring			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
1,900.0	1,898.7	-20.0	19.4	Start 5056.7 hold at 1900.0 MD
6,956.7	6,906.2	-525.0	509.6	Start Drop -2.00
7,356.7	7,304.9	-545.0	529.0	Start 1667.7 hold at 7356.7 MD
9,024.4	8,972.6	-545.0	529.0	KOP-Start DLS 12.00 TFO 359.41
9,774.4	9,450.1	-67.6	524.1	LP-Start 9930.1 hold at 9774.4 MD
19,704.5	9,450.0	9,862.0	421.2	TD at 19704.5

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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 061H	30025-		230' FSL & 270' FWL	28	131	64
Magnolia 26 36 22 State Com 062H	30025-		230' FSL & 1600' FWL	998	4,762	4,399
Magnolia 26 36 22 State Com 063H	30025-		399' FSL & 2225' FEL	22	103	50
Magnolia 26 36 22 State Com 064H	30025-		230' FSL & 995' FEL	998	4,762	4,399
Magnolia 26 36 22 State Com 071H	30025-		230' FSL & 1040' FWL	388	1,945	685
Magnolia 26 36 22 State Com 072H	30025-		650' FSL & 1788' FWL	1,000	5,018	3,838

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 061H	30025-	10/01/2024	11/15/2024	12/15/2024	01/01/2025	01/04/2025
Magnolia 26 36 22 State Com 062H	30025-	10/01/2024	11/15/2024	12/15/2024	01/01/2025	01/04/2025
Magnolia 26 36 22 State Com 063H	30025-	10/01/2024	11/15/2024	12/15/2024	01/01/2025	01/04/2025
Magnolia 26 36 22 State Com 064H	30025-	10/01/2024	11/15/2024	12/15/2024	01/01/2025	01/04/2025
Magnolia 26 36 22 State Com 071H	30025-	10/01/2024	11/15/2024	12/15/2024	01/01/2025	01/04/2025
Magnolia 26 36 22 State Com 072H	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: 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