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 352324

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
	30-025-52110

4. Property Code	5. Property Name	6. Well No.
331807	AZALEA 26 36 28 STATE COM	182H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	28	26S	36E	C	230	N	2111	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
F	33	26S	36E	3	50	S	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	2914

16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	18139	2nd Bone Spring Carbonate		12/1/2024

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	1798	1412	0
Int1	12.25	10.75	45.5	5072	1296	0
Prod	8.75	5.5	17	18139	5861	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: 10/18/2023	Expiration Date: 10/18/2025
Date: 10/13/2023	Phone: 737-300-4723	Conditions of Approval Attached

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

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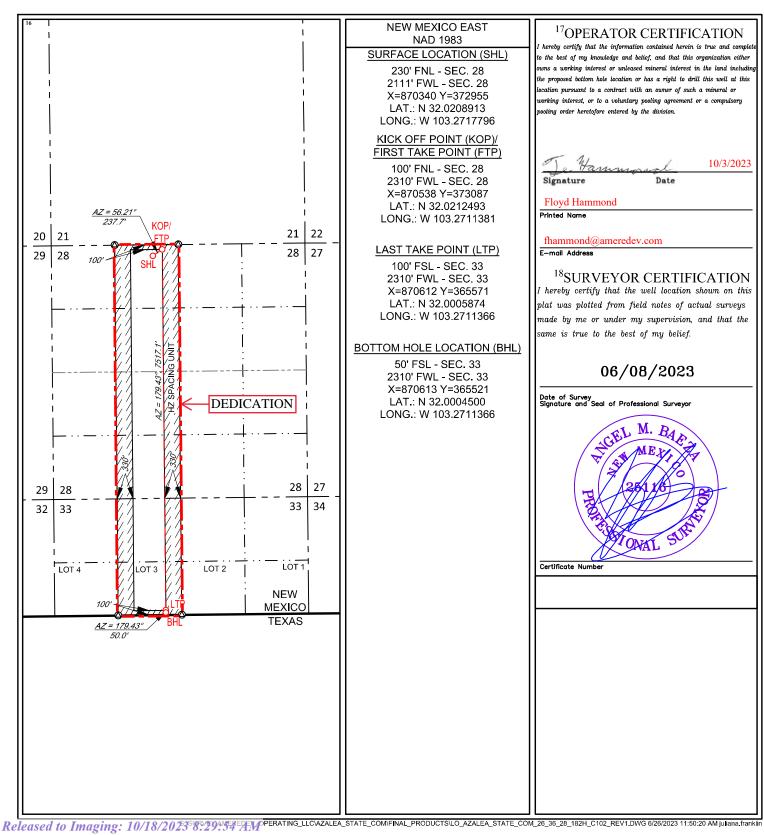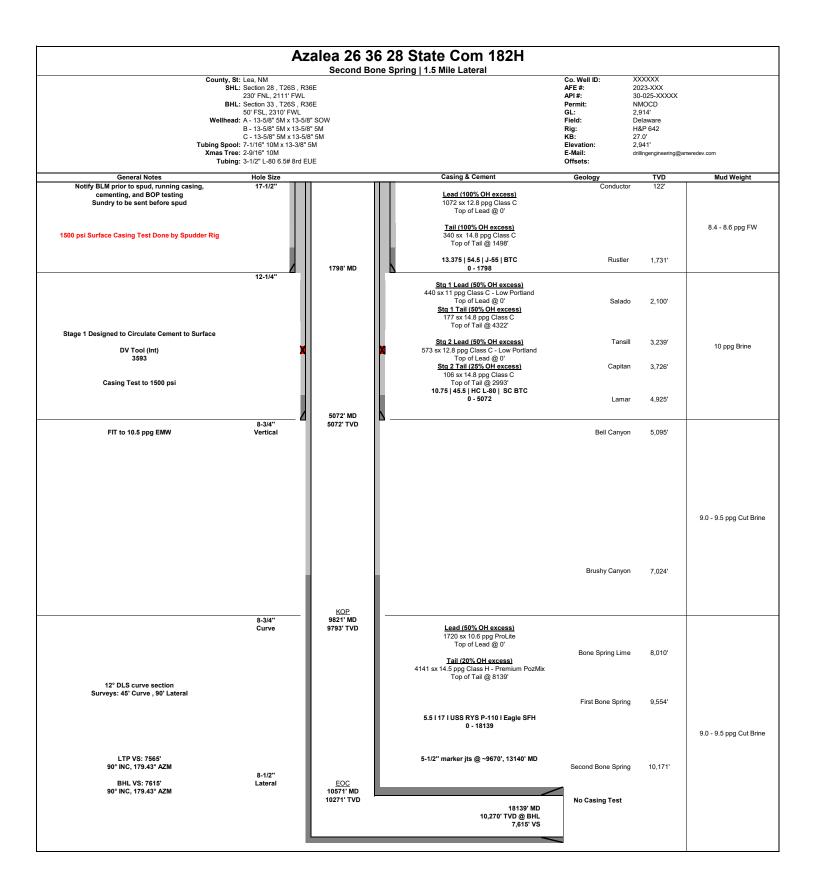**Submit one copy to appropriate District Office**

☐ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

⁴Property Code	⁵Property Name	⁶Well Number
331807	AZALEA 26 36 28 STATE COM	182H

⁷OGRID No.	⁸Operator Name	⁹Elevation
372224	AMEREDEV OPERATING, LLC.	2914'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	28	26-S	36-E	—	230'	NORTH	2111'	WEST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	33	26-S	36-E	—	50'	SOUTH	2310'	WEST	LEA

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

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

NEW MEXICO EAST
NAD 1983

SURFACE LOCATION (SHL)
230' FNL - SEC. 28
2111' FWL - SEC. 28
X=870340 Y=372955
LAT.: N 32.0208913
LONG.: W 103.2717796

KICK OFF POINT (KOP)/
FIRST TAKE POINT (FTP)
100' FNL - SEC. 28
2310' FWL - SEC. 28
X=870538 Y=373087
LAT.: N 32.0212493
LONG.: W 103.2711381

LAST TAKE POINT (LTP)
100' FSL - SEC. 33
2310' FWL - SEC. 33
X=870612 Y=365571
LAT.: N 32.0005874
LONG.: W 103.2711366

BOTTOM HOLE LOCATION (BHL)
50' FSL - SEC. 33
2310' FWL - SEC. 33
X=870613 Y=365521
LAT.: N 32.0004500
LONG.: W 103.2711366

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 _____ Date 10/3/2023

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.

06/08/2023

Date of Survey
Signature and Seal of Professional Surveyor

Certificate Number

P:\SURVEY\AMEREDEV_OPERATING_LLC\AZALEA_STATE_COM\FINAL_PRODUCTS\LO_AZALEA_STATE_COM_26_36_28_182H_C102_REV1.DWG 6/26/2023 11:50:20 AM juliana.franklin

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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 352324

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
AMEREDEV OPERATING, LLC [372224] 2901 Via Fortuna Austin, TX 78746	30-025-52110
	Well: AZALEA 26 36 28 STATE COM #182H

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 cement does not circulate on any string , a CBL is required for that string of casing.
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

Azalea 26 36 28 State Com 182H
Second Bone Spring | 1.5 Mile Lateral

County, St:	Lea, NM		Co. Well ID:	XXXXXX
SHL:	Section 28 , T26S , R36E		AFE #:	2023-XXX
	230' FNL, 2111' FWL		API #:	30-025-XXXXX
BHL:	Section 33 , T26S , R36E		Permit:	NMOCD
	50' FSL, 2310' FWL		GL:	2,914'
Wellhead:	A - 13-5/8" 5M x 13-5/8" SOW		Field:	Delaware
	B - 13-5/8" 5M x 13-5/8" 5M		Rig:	H&P 642
	C - 13-5/8" 5M x 13-5/8" 5M		KB:	27.0'
Tubing Spool:	7-1/16" 10M x 13-3/8" 5M		Elevation:	2,941'
Xmas Tree:	2-9/16" 10M		E-Mail:	drillingengineering@ameredev.com
Tubing:	3-1/2" L-80 6.5# 8rd EUE		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**	17-1/2"	**Lead (100% OH excess)** 1072 sx 12.8 ppg Class C Top of Lead @ 0'	Conductor	122'	
		Tail (100% OH excess) 340 sx 14.8 ppg Class C Top of Tail @ 1498'			8.4 - 8.6 ppg FW
1500 psi Surface Casing Test Done by Spudder Rig	1798' MD	**13.375 | 54.5 | J-55 | BTC** **0 - 1798**	Rustler	1,731'	
	12-1/4"	**Stg 1 Lead (50% OH excess)** 440 sx 11 ppg Class C - Low Portland Top of Lead @ 0'	Salado	2,100'	
		Stg 1 Tail (50% OH excess) 177 sx 14.8 ppg Class C Top of Tail @ 4322'			
Stage 1 Designed to Circulate Cement to Surface **DV Tool (Int)** **3593**		**Stg 2 Lead (50% OH excess)** 573 sx 12.8 ppg Class C - Low Portland Top of Lead @ 0'	Tansill	3,239'	10 ppg Brine
Casing Test to 1500 psi		**Stg 2 Tail (25% OH excess)** 106 sx 14.8 ppg Class C Top of Tail @ 2993' **10.75 | 45.5 | HC L-80 | SC BTC** **0 - 5072**	Capitan	3,726'	
	5072' MD 5072' TVD		Lamar	4,925'	
FIT to 10.5 ppg EMW	8-3/4" Vertical		Bell Canyon	5,095'	
			Brushy Canyon	7,024'	9.0 - 9.5 ppg Cut Brine
	8-3/4" Curve	KOP 9821' MD 9793' TVD			
		Lead (50% OH excess) 1720 sx 10.6 ppg ProLite Top of Lead @ 0'	Bone Spring Lime	8,010'	
12° DLS curve section **Surveys: 45' Curve , 90' Lateral**		**Tail (20% OH excess)** 4141 sx 14.5 ppg Class H - Premium PozMix Top of Tail @ 8139'	First Bone Spring	9,554'	
		5.5 I 17 I USS RYS P-110 I Eagle SFH **0 - 18139**			9.0 - 9.5 ppg Cut Brine
LTP VS: 7565' **90° INC, 179.43° AZM**	8-1/2" Lateral	**5-1/2" marker jts @ ~9670', 13140' MD**	Second Bone Spring	10,171'	
BHL VS: 7615' **90° INC, 179.43° AZM**		EOC 10571' MD 10271' TVD			
		No Casing Test			
		18139' MD **10,270' TVD @ BHL** **7,615' VS**			

Ameredev Operating

Lea County, NM (N83-NME)
Camelia_Azalea
AZALEA STATE COM 26-36-28 182H

OWB

Plan: PWP

Standard Planning Report - Geographic

19 June, 2023

AMEREDEV　　　　　Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well AZALEA STATE COM26-36-28 182H
Company:	Ameredev Operating	**TVD Reference:**	KB=25' @ 2939.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=25' @ 2939.0usft
Site:	Camelia_Azalea	**North Reference:**	Grid
Well:	AZALEA STATE COM 26-36-28 182H	**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	Camelia_Azalea				
Site Position:		**Northing:**	372,956.73 usft	**Latitude:**	32.0208919
From:	Lat/Long	**Easting:**	870,464.84 usft	**Longitude:**	-103.2713773
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well	AZALEA STATE COM 26-36-28 182H				
Well Position	**+N/-S** 0.0 usft	**Northing:**	372,955.28 usft	**Latitude:**	32.0208913
	+E/-W 0.0 usft	**Easting:**	870,340.16 usft	**Longitude:**	-103.2717796
Position Uncertainty	3.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	2,914.0 usft
Grid Convergence:	0.56 °				

Wellbore	OWB

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2020	6/19/2023	6.15	59.69	47,197.20615187

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	179.43

Plan Survey Tool Program　　　**Date** 6/19/2023

	Depth From (usft)	**Depth To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Remarks**
1	0.0	18,139.1	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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,250.0	5.00	17.53	1,249.7	10.4	3.3	2.00	2.00	0.00	17.53	
8,351.7	5.00	17.53	8,324.4	600.6	189.7	0.00	0.00	0.00	0.00	
8,601.7	0.00	0.00	8,574.0	611.0	193.0	2.00	-2.00	0.00	180.00	
9,820.7	0.00	0.00	9,793.0	611.0	193.0	0.00	0.00	0.00	0.00	
10,570.7	90.00	179.43	10,270.5	133.5	197.7	12.00	12.00	23.92	179.43	
18,139.1	90.00	179.43	10,270.0	-7,434.5	272.4	0.00	0.00	0.00	0.00	BHL (ASC 182H)

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well AZALEA STATE COM26-36-28 182H
Company:	Ameredev Operating	**TVD Reference:**	KB=25' @ 2939.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=25' @ 2939.0usft
Site:	Camelia_Azalea	**North Reference:**	Grid
Well:	AZALEA STATE COM 26-36-28 182H	**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	372,955.28	870,340.16	32.0208913	-103.2717796
100.0	0.00	0.00	100.0	0.0	0.0	372,955.28	870,340.16	32.0208913	-103.2717796
200.0	0.00	0.00	200.0	0.0	0.0	372,955.28	870,340.16	32.0208913	-103.2717796
300.0	0.00	0.00	300.0	0.0	0.0	372,955.28	870,340.16	32.0208913	-103.2717796
400.0	0.00	0.00	400.0	0.0	0.0	372,955.28	870,340.16	32.0208913	-103.2717796
500.0	0.00	0.00	500.0	0.0	0.0	372,955.28	870,340.16	32.0208913	-103.2717796
600.0	0.00	0.00	600.0	0.0	0.0	372,955.28	870,340.16	32.0208913	-103.2717796
700.0	0.00	0.00	700.0	0.0	0.0	372,955.28	870,340.16	32.0208913	-103.2717796
800.0	0.00	0.00	800.0	0.0	0.0	372,955.28	870,340.16	32.0208913	-103.2717796
900.0	0.00	0.00	900.0	0.0	0.0	372,955.28	870,340.16	32.0208913	-103.2717796
1,000.0	0.00	0.00	1,000.0	0.0	0.0	372,955.28	870,340.16	32.0208913	-103.2717796
Start Build 2.00									
1,100.0	2.00	17.53	1,100.0	1.7	0.5	372,956.95	870,340.68	32.0208959	-103.2717778
1,200.0	4.00	17.53	1,199.8	6.7	2.1	372,961.94	870,342.26	32.0209096	-103.2717726
1,250.0	5.00	17.53	1,249.7	10.4	3.3	372,965.68	870,343.44	32.0209198	-103.2717687
Start 7101.7 hold at 1250.0 MD									
1,300.0	5.00	17.53	1,299.5	14.6	4.6	372,969.83	870,344.75	32.0209312	-103.2717643
1,400.0	5.00	17.53	1,399.1	22.9	7.2	372,978.14	870,347.38	32.0209540	-103.2717556
1,500.0	5.00	17.53	1,498.7	31.2	9.8	372,986.45	870,350.00	32.0209767	-103.2717468
1,600.0	5.00	17.53	1,598.4	39.5	12.5	372,994.77	870,352.63	32.0209995	-103.2717381
1,700.0	5.00	17.53	1,698.0	47.8	15.1	373,003.08	870,355.25	32.0210223	-103.2717294
1,800.0	5.00	17.53	1,797.6	56.1	17.7	373,011.39	870,357.88	32.0210451	-103.2717206
1,900.0	5.00	17.53	1,897.2	64.4	20.3	373,019.70	870,360.50	32.0210678	-103.2717119
2,000.0	5.00	17.53	1,996.8	72.7	23.0	373,028.01	870,363.13	32.0210906	-103.2717032
2,100.0	5.00	17.53	2,096.4	81.0	25.6	373,036.32	870,365.75	32.0211134	-103.2716944
2,200.0	5.00	17.53	2,196.1	89.3	28.2	373,044.63	870,368.38	32.0211361	-103.2716857
2,300.0	5.00	17.53	2,295.7	97.7	30.8	373,052.94	870,371.00	32.0211589	-103.2716770
2,400.0	5.00	17.53	2,395.3	106.0	33.5	373,061.25	870,373.63	32.0211817	-103.2716682
2,500.0	5.00	17.53	2,494.9	114.3	36.1	373,069.56	870,376.26	32.0212045	-103.2716595
2,600.0	5.00	17.53	2,594.5	122.6	38.7	373,077.87	870,378.88	32.0212272	-103.2716508
2,700.0	5.00	17.53	2,694.2	130.9	41.3	373,086.18	870,381.51	32.0212500	-103.2716420
2,800.0	5.00	17.53	2,793.8	139.2	44.0	373,094.50	870,384.13	32.0212728	-103.2716333
2,900.0	5.00	17.53	2,893.4	147.5	46.6	373,102.81	870,386.76	32.0212955	-103.2716246
2,945.8	5.00	17.53	2,939.0	151.3	47.8	373,106.61	870,387.96	32.0213060	-103.2716206
Dewey Lake									
3,000.0	5.00	17.53	2,993.0	155.8	49.2	373,111.12	870,389.38	32.0213183	-103.2716159
3,100.0	5.00	17.53	3,092.6	164.1	51.8	373,119.43	870,392.01	32.0213411	-103.2716071
3,200.0	5.00	17.53	3,192.3	172.5	54.5	373,127.74	870,394.63	32.0213639	-103.2715984
3,300.0	5.00	17.53	3,291.9	180.8	57.1	373,136.05	870,397.26	32.0213866	-103.2715897
3,400.0	5.00	17.53	3,391.5	189.1	59.7	373,144.36	870,399.88	32.0214094	-103.2715809
3,500.0	5.00	17.53	3,491.1	197.4	62.4	373,152.67	870,402.51	32.0214322	-103.2715722
3,600.0	5.00	17.53	3,590.7	205.7	65.0	373,160.98	870,405.13	32.0214549	-103.2715635
3,700.0	5.00	17.53	3,690.4	214.0	67.6	373,169.29	870,407.76	32.0214777	-103.2715547
3,800.0	5.00	17.53	3,790.0	222.3	70.2	373,177.60	870,410.38	32.0215005	-103.2715460
3,900.0	5.00	17.53	3,889.6	230.6	72.9	373,185.91	870,413.01	32.0215233	-103.2715373
4,000.0	5.00	17.53	3,989.2	238.9	75.5	373,194.23	870,415.63	32.0215460	-103.2715285
4,100.0	5.00	17.53	4,088.8	247.3	78.1	373,202.54	870,418.26	32.0215688	-103.2715198
4,200.0	5.00	17.53	4,188.5	255.6	80.7	373,210.85	870,420.88	32.0215916	-103.2715111
4,300.0	5.00	17.53	4,288.1	263.9	83.4	373,219.16	870,423.51	32.0216143	-103.2715023
4,400.0	5.00	17.53	4,387.7	272.2	86.0	373,227.47	870,426.13	32.0216371	-103.2714936
4,500.0	5.00	17.53	4,487.3	280.5	88.6	373,235.78	870,428.76	32.0216599	-103.2714849
4,600.0	5.00	17.53	4,586.9	288.8	91.2	373,244.09	870,431.38	32.0216827	-103.2714761
4,700.0	5.00	17.53	4,686.6	297.1	93.9	373,252.40	870,434.01	32.0217054	-103.2714674

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well AZALEA STATE COM26-36-28 182H
Company:	Ameredev Operating	**TVD Reference:**	KB=25' @ 2939.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=25' @ 2939.0usft
Site:	Camelia_Azalea	**North Reference:**	Grid
Well:	AZALEA STATE COM 26-36-28 182H	**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
4,725.5	5.00	17.53	4,712.0	299.2	94.5	373,254.52	870,434.68	32.0217112	-103.2714652
Rustler									
4,800.0	5.00	17.53	4,786.2	305.4	96.5	373,260.71	870,436.63	32.0217282	-103.2714587
4,900.0	5.00	17.53	4,885.8	313.7	99.1	373,269.02	870,439.26	32.0217510	-103.2714499
5,000.0	5.00	17.53	4,985.4	322.1	101.7	373,277.33	870,441.88	32.0217737	-103.2714412
5,100.0	5.00	17.53	5,085.0	330.4	104.4	373,285.64	870,444.51	32.0217965	-103.2714325
5,151.2	5.00	17.53	5,136.0	334.6	105.7	373,289.90	870,445.85	32.0218082	-103.2714280
Salado									
5,200.0	5.00	17.53	5,184.7	338.7	107.0	373,293.96	870,447.14	32.0218193	-103.2714237
5,300.0	5.00	17.53	5,284.3	347.0	109.6	373,302.27	870,449.76	32.0218421	-103.2714150
5,400.0	5.00	17.53	5,383.9	355.3	112.2	373,310.58	870,452.39	32.0218648	-103.2714063
5,500.0	5.00	17.53	5,483.5	363.6	114.9	373,318.89	870,455.01	32.0218876	-103.2713975
5,600.0	5.00	17.53	5,583.1	371.9	117.5	373,327.20	870,457.64	32.0219104	-103.2713888
5,700.0	5.00	17.53	5,682.7	380.2	120.1	373,335.51	870,460.26	32.0219331	-103.2713801
5,800.0	5.00	17.53	5,782.4	388.5	122.7	373,343.82	870,462.89	32.0219559	-103.2713713
5,900.0	5.00	17.53	5,882.0	396.8	125.4	373,352.13	870,465.51	32.0219787	-103.2713626
6,000.0	5.00	17.53	5,981.6	405.2	128.0	373,360.44	870,468.14	32.0220015	-103.2713539
6,100.0	5.00	17.53	6,081.2	413.5	130.6	373,368.75	870,470.76	32.0220242	-103.2713451
6,200.0	5.00	17.53	6,180.8	421.8	133.2	373,377.06	870,473.39	32.0220470	-103.2713364
6,208.2	5.00	17.53	6,189.0	422.5	133.4	373,377.74	870,473.60	32.0220489	-103.2713357
Tansill									
6,300.0	5.00	17.53	6,280.5	430.1	135.9	373,385.37	870,476.01	32.0220698	-103.2713277
6,400.0	5.00	17.53	6,380.1	438.4	138.5	373,393.68	870,478.64	32.0220925	-103.2713189
6,500.0	5.00	17.53	6,479.7	446.7	141.1	373,402.00	870,481.26	32.0221153	-103.2713102
6,600.0	5.00	17.53	6,579.3	455.0	143.7	373,410.31	870,483.89	32.0221381	-103.2713015
6,652.9	5.00	17.53	6,632.0	459.4	145.1	373,414.70	870,485.28	32.0221501	-103.2712969
Capitan									
6,700.0	5.00	17.53	6,678.9	463.3	146.4	373,418.62	870,486.51	32.0221609	-103.2712927
6,800.0	5.00	17.53	6,778.6	471.6	149.0	373,426.93	870,489.14	32.0221836	-103.2712840
6,900.0	5.00	17.53	6,878.2	480.0	151.6	373,435.24	870,491.76	32.0222064	-103.2712753
7,000.0	5.00	17.53	6,977.8	488.3	154.2	373,443.55	870,494.39	32.0222292	-103.2712665
7,100.0	5.00	17.53	7,077.4	496.6	156.9	373,451.86	870,497.01	32.0222519	-103.2712578
7,200.0	5.00	17.53	7,177.0	504.9	159.5	373,460.17	870,499.64	32.0222747	-103.2712491
7,300.0	5.00	17.53	7,276.7	513.2	162.1	373,468.48	870,502.26	32.0222975	-103.2712403
7,400.0	5.00	17.53	7,376.3	521.5	164.7	373,476.79	870,504.89	32.0223203	-103.2712316
7,500.0	5.00	17.53	7,475.9	529.8	167.4	373,485.10	870,507.51	32.0223430	-103.2712229
7,600.0	5.00	17.53	7,575.5	538.1	170.0	373,493.41	870,510.14	32.0223658	-103.2712141
7,700.0	5.00	17.53	7,675.1	546.4	172.6	373,501.73	870,512.76	32.0223886	-103.2712054
7,800.0	5.00	17.53	7,774.8	554.8	175.2	373,510.04	870,515.39	32.0224113	-103.2711967
7,900.0	5.00	17.53	7,874.4	563.1	177.9	373,518.35	870,518.02	32.0224341	-103.2711879
7,911.7	5.00	17.53	7,886.0	564.0	178.2	373,519.32	870,518.32	32.0224368	-103.2711869
Lamar									
8,000.0	5.00	17.53	7,974.0	571.4	180.5	373,526.66	870,520.64	32.0224569	-103.2711792
8,065.3	5.00	17.53	8,039.0	576.8	182.2	373,532.08	870,522.35	32.0224717	-103.2711735
Bell Canyon									
8,100.0	5.00	17.53	8,073.6	579.7	183.1	373,534.97	870,523.27	32.0224797	-103.2711705
8,200.0	5.00	17.53	8,173.2	588.0	185.7	373,543.28	870,525.89	32.0225024	-103.2711617
8,300.0	5.00	17.53	8,272.9	596.3	188.4	373,551.59	870,528.52	32.0225252	-103.2711530
8,351.7	5.00	17.53	8,324.4	600.6	189.7	373,555.89	870,529.87	32.0225370	-103.2711485
Start Drop -2.00									
8,400.0	4.03	17.53	8,372.5	604.2	190.9	373,559.51	870,531.02	32.0225469	-103.2711447
8,500.0	2.03	17.53	8,472.4	609.3	192.5	373,564.56	870,532.61	32.0225607	-103.2711394
8,601.7	0.00	0.00	8,574.0	611.0	193.0	373,566.28	870,533.16	32.0225655	-103.2711376
Start 1219.0 hold at 8601.7 MD									

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Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well AZALEA STATE COM26-36-28 182H
Company:	Ameredev Operating	**TVD Reference:**	KB=25' @ 2939.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=25' @ 2939.0usft
Site:	Camelia_Azalea	**North Reference:**	Grid
Well:	AZALEA STATE COM 26-36-28 182H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,700.0	0.00	0.00	8,672.3	611.0	193.0	373,566.28	870,533.16	32.0225655	-103.2711376
8,800.0	0.00	0.00	8,772.3	611.0	193.0	373,566.28	870,533.16	32.0225655	-103.2711376
8,900.0	0.00	0.00	8,872.3	611.0	193.0	373,566.28	870,533.16	32.0225655	-103.2711376
9,000.0	0.00	0.00	8,972.3	611.0	193.0	373,566.28	870,533.16	32.0225655	-103.2711376
9,100.0	0.00	0.00	9,072.3	611.0	193.0	373,566.28	870,533.16	32.0225655	-103.2711376
9,200.0	0.00	0.00	9,172.3	611.0	193.0	373,566.28	870,533.16	32.0225655	-103.2711376
9,300.0	0.00	0.00	9,272.3	611.0	193.0	373,566.28	870,533.16	32.0225655	-103.2711376
9,400.0	0.00	0.00	9,372.3	611.0	193.0	373,566.28	870,533.16	32.0225655	-103.2711376
9,500.0	0.00	0.00	9,472.3	611.0	193.0	373,566.28	870,533.16	32.0225655	-103.2711376
9,600.0	0.00	0.00	9,572.3	611.0	193.0	373,566.28	870,533.16	32.0225655	-103.2711376
9,700.0	0.00	0.00	9,672.3	611.0	193.0	373,566.28	870,533.16	32.0225655	-103.2711376
9,800.0	0.00	0.00	9,772.3	611.0	193.0	373,566.28	870,533.16	32.0225655	-103.2711376
9,820.7	0.00	0.00	9,793.0	611.0	193.0	373,566.28	870,533.16	32.0225655	-103.2711376
KOP-Start DLS 12.00 TFO 179.43									
9,825.0	0.52	179.43	9,797.3	611.0	193.0	373,566.26	870,533.16	32.0225654	-103.2711376
9,850.0	3.52	179.43	9,822.3	610.1	193.0	373,565.38	870,533.17	32.0225630	-103.2711376
9,875.0	6.52	179.43	9,847.2	607.9	193.0	373,563.19	870,533.19	32.0225570	-103.2711376
9,900.0	9.52	179.43	9,872.0	604.4	193.1	373,559.71	870,533.22	32.0225474	-103.2711376
9,925.0	12.52	179.43	9,896.5	599.6	193.1	373,554.93	870,533.27	32.0225342	-103.2711376
9,950.0	15.52	179.43	9,920.8	593.6	193.2	373,548.87	870,533.33	32.0225176	-103.2711376
9,975.0	18.52	179.43	9,944.7	586.3	193.2	373,541.55	870,533.40	32.0224975	-103.2711376
10,000.0	21.52	179.43	9,968.2	577.7	193.3	373,533.00	870,533.49	32.0224740	-103.2711376
10,025.0	24.52	179.43	9,991.2	567.9	193.4	373,523.22	870,533.58	32.0224471	-103.2711376
10,050.0	27.52	179.43	10,013.6	557.0	193.5	373,512.26	870,533.69	32.0224170	-103.2711376
10,050.4	27.57	179.43	10,014.0	556.8	193.5	373,512.06	870,533.69	32.0224164	-103.2711376
Brushy Canyon									
10,075.0	30.52	179.43	10,035.5	544.8	193.7	373,500.13	870,533.81	32.0223836	-103.2711376
10,100.0	33.52	179.43	10,056.7	531.6	193.8	373,486.88	870,533.94	32.0223472	-103.2711376
10,125.0	36.52	179.43	10,077.1	517.2	193.9	373,472.53	870,534.08	32.0223078	-103.2711376
10,150.0	39.52	179.43	10,096.8	501.9	194.1	373,457.14	870,534.23	32.0222654	-103.2711376
10,175.0	42.52	179.43	10,115.7	485.4	194.2	373,440.73	870,534.40	32.0222203	-103.2711376
10,200.0	45.52	179.43	10,133.7	468.1	194.4	373,423.36	870,534.57	32.0221726	-103.2711376
10,225.0	48.52	179.43	10,150.7	449.8	194.6	373,405.07	870,534.75	32.0221223	-103.2711376
10,250.0	51.52	179.43	10,166.8	430.6	194.8	373,385.92	870,534.94	32.0220697	-103.2711376
10,275.0	54.52	179.43	10,181.8	410.7	195.0	373,365.95	870,535.13	32.0220148	-103.2711376
10,300.0	57.52	179.43	10,195.8	389.9	195.2	373,345.22	870,535.34	32.0219578	-103.2711376
10,325.0	60.52	179.43	10,208.7	368.5	195.4	373,323.79	870,535.55	32.0218989	-103.2711375
10,350.0	63.52	179.43	10,220.4	346.4	195.6	373,301.72	870,535.77	32.0218382	-103.2711375
10,375.0	66.52	179.43	10,230.9	323.8	195.8	373,279.06	870,535.99	32.0217759	-103.2711375
10,400.0	69.52	179.43	10,240.3	300.6	196.1	373,255.88	870,536.22	32.0217122	-103.2711375
10,425.0	72.52	179.43	10,248.4	277.0	196.3	373,232.24	870,536.45	32.0216473	-103.2711375
10,450.0	75.52	179.43	10,255.3	252.9	196.5	373,208.21	870,536.69	32.0215812	-103.2711375
10,475.0	78.52	179.43	10,260.9	228.6	196.8	373,183.86	870,536.93	32.0215143	-103.2711375
10,500.0	81.52	179.43	10,265.2	204.0	197.0	373,159.24	870,537.17	32.0214466	-103.2711375
10,525.0	84.52	179.43	10,268.3	179.1	197.3	373,134.43	870,537.42	32.0213784	-103.2711375
10,550.0	87.52	179.43	10,270.0	154.2	197.5	373,109.49	870,537.66	32.0213098	-103.2711375
10,570.7	90.00	179.43	10,270.5	133.5	197.7	373,088.81	870,537.87	32.0212530	-103.2711375
LP-Start 7568.4 hold at 10570.7 MD									
10,600.0	90.00	179.43	10,270.5	104.2	198.0	373,059.50	870,538.16	32.0211724	-103.2711375
10,700.0	90.00	179.43	10,270.5	4.2	199.0	372,959.51	870,539.14	32.0208976	-103.2711375
10,800.0	90.00	179.43	10,270.5	-95.8	200.0	372,859.51	870,540.13	32.0206227	-103.2711375
10,900.0	90.00	179.43	10,270.4	-195.8	201.0	372,759.52	870,541.12	32.0203478	-103.2711375
11,000.0	90.00	179.43	10,270.4	-295.8	201.9	372,659.52	870,542.10	32.0200730	-103.2711375
11,100.0	90.00	179.43	10,270.4	-395.8	202.9	372,559.53	870,543.09	32.0197981	-103.2711375

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well AZALEA STATE COM26-36-28 182H
Company:	Ameredev Operating	**TVD Reference:**	KB=25' @ 2939.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=25' @ 2939.0usft
Site:	Camelia_Azalea	**North Reference:**	Grid
Well:	AZALEA STATE COM 26-36-28 182H	**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
11,200.0	90.00	179.43	10,270.4	-495.8	203.9	372,459.53	870,544.08	32.0195232	-103.2711375
11,300.0	90.00	179.43	10,270.4	-595.7	204.9	372,359.54	870,545.06	32.0192484	-103.2711374
11,400.0	90.00	179.43	10,270.4	-695.7	205.9	372,259.54	870,546.05	32.0189735	-103.2711374
11,500.0	90.00	179.43	10,270.4	-795.7	206.9	372,159.54	870,547.04	32.0186986	-103.2711374
11,600.0	90.00	179.43	10,270.4	-895.7	207.9	372,059.55	870,548.02	32.0184238	-103.2711374
11,700.0	90.00	179.43	10,270.4	-995.7	208.9	371,959.55	870,549.01	32.0181489	-103.2711374
11,800.0	90.00	179.43	10,270.4	-1,095.7	209.8	371,859.56	870,550.00	32.0178740	-103.2711374
11,900.0	90.00	179.43	10,270.4	-1,195.7	210.8	371,759.56	870,550.98	32.0175992	-103.2711374
12,000.0	90.00	179.43	10,270.4	-1,295.7	211.8	371,659.57	870,551.97	32.0173243	-103.2711374
12,100.0	90.00	179.43	10,270.4	-1,395.7	212.8	371,559.57	870,552.96	32.0170494	-103.2711373
12,200.0	90.00	179.43	10,270.4	-1,495.7	213.8	371,459.58	870,553.94	32.0167746	-103.2711373
12,300.0	90.00	179.43	10,270.4	-1,595.7	214.8	371,359.58	870,554.93	32.0164997	-103.2711373
12,400.0	90.00	179.43	10,270.4	-1,695.7	215.8	371,259.59	870,555.92	32.0162248	-103.2711373
12,500.0	90.00	179.43	10,270.3	-1,795.7	216.7	371,159.59	870,556.90	32.0159500	-103.2711373
12,600.0	90.00	179.43	10,270.3	-1,895.7	217.7	371,059.60	870,557.89	32.0156751	-103.2711373
12,700.0	90.00	179.43	10,270.3	-1,995.7	218.7	370,959.60	870,558.87	32.0154002	-103.2711373
12,800.0	90.00	179.43	10,270.3	-2,095.7	219.7	370,859.61	870,559.86	32.0151254	-103.2711373
12,900.0	90.00	179.43	10,270.3	-2,195.7	220.7	370,759.61	870,560.85	32.0148505	-103.2711373
13,000.0	90.00	179.43	10,270.3	-2,295.7	221.7	370,659.62	870,561.83	32.0145757	-103.2711372
13,100.0	90.00	179.43	10,270.3	-2,395.7	222.7	370,559.62	870,562.82	32.0143008	-103.2711372
13,200.0	90.00	179.43	10,270.3	-2,495.7	223.7	370,459.63	870,563.81	32.0140259	-103.2711372
13,300.0	90.00	179.43	10,270.3	-2,595.7	224.6	370,359.63	870,564.79	32.0137511	-103.2711372
13,400.0	90.00	179.43	10,270.3	-2,695.6	225.6	370,259.64	870,565.78	32.0134762	-103.2711372
13,500.0	90.00	179.43	10,270.3	-2,795.6	226.6	370,159.64	870,566.77	32.0132013	-103.2711372
13,600.0	90.00	179.43	10,270.3	-2,895.6	227.6	370,059.65	870,567.75	32.0129265	-103.2711372
13,700.0	90.00	179.43	10,270.3	-2,995.6	228.6	369,959.65	870,568.74	32.0126516	-103.2711372
13,800.0	90.00	179.43	10,270.3	-3,095.6	229.6	369,859.66	870,569.73	32.0123767	-103.2711371
13,900.0	90.00	179.43	10,270.3	-3,195.6	230.6	369,759.66	870,570.71	32.0121019	-103.2711371
14,000.0	90.00	179.43	10,270.3	-3,295.6	231.5	369,659.67	870,571.70	32.0118270	-103.2711371
14,100.0	90.00	179.43	10,270.2	-3,395.6	232.5	369,559.67	870,572.69	32.0115521	-103.2711371
14,200.0	90.00	179.43	10,270.2	-3,495.6	233.5	369,459.68	870,573.67	32.0112773	-103.2711371
14,300.0	90.00	179.43	10,270.2	-3,595.6	234.5	369,359.68	870,574.66	32.0110024	-103.2711371
14,400.0	90.00	179.43	10,270.2	-3,695.6	235.5	369,259.69	870,575.65	32.0107275	-103.2711371
14,500.0	90.00	179.43	10,270.2	-3,795.6	236.5	369,159.69	870,576.63	32.0104527	-103.2711371
14,600.0	90.00	179.43	10,270.2	-3,895.6	237.5	369,059.70	870,577.62	32.0101778	-103.2711370
14,700.0	90.00	179.43	10,270.2	-3,995.6	238.4	368,959.70	870,578.61	32.0099029	-103.2711370
14,800.0	90.00	179.43	10,270.2	-4,095.6	239.4	368,859.71	870,579.59	32.0096281	-103.2711370
14,900.0	90.00	179.43	10,270.2	-4,195.6	240.4	368,759.71	870,580.58	32.0093532	-103.2711370
15,000.0	90.00	179.43	10,270.2	-4,295.6	241.4	368,659.72	870,581.57	32.0090783	-103.2711370
15,100.0	90.00	179.43	10,270.2	-4,395.6	242.4	368,559.72	870,582.55	32.0088035	-103.2711370
15,200.0	90.00	179.43	10,270.2	-4,495.6	243.4	368,459.72	870,583.54	32.0085286	-103.2711370
15,300.0	90.00	179.43	10,270.2	-4,595.6	244.4	368,359.73	870,584.53	32.0082537	-103.2711370
15,400.0	90.00	179.43	10,270.2	-4,695.5	245.4	368,259.73	870,585.51	32.0079789	-103.2711369
15,500.0	90.00	179.43	10,270.2	-4,795.5	246.3	368,159.74	870,586.50	32.0077040	-103.2711369
15,600.0	90.00	179.43	10,270.2	-4,895.5	247.3	368,059.74	870,587.49	32.0074291	-103.2711369
15,700.0	90.00	179.43	10,270.1	-4,995.5	248.3	367,959.75	870,588.47	32.0071543	-103.2711369
15,800.0	90.00	179.43	10,270.1	-5,095.5	249.3	367,859.75	870,589.46	32.0068794	-103.2711369
15,900.0	90.00	179.43	10,270.1	-5,195.5	250.3	367,759.76	870,590.45	32.0066045	-103.2711369
16,000.0	90.00	179.43	10,270.1	-5,295.5	251.3	367,659.76	870,591.43	32.0063297	-103.2711369
16,100.0	90.00	179.43	10,270.1	-5,395.5	252.3	367,559.77	870,592.42	32.0060548	-103.2711369
16,200.0	90.00	179.43	10,270.1	-5,495.5	253.2	367,459.77	870,593.41	32.0057799	-103.2711368
16,300.0	90.00	179.43	10,270.1	-5,595.5	254.2	367,359.78	870,594.39	32.0055051	-103.2711368
16,400.0	90.00	179.43	10,270.1	-5,695.5	255.2	367,259.78	870,595.38	32.0052302	-103.2711368
16,500.0	90.00	179.43	10,270.1	-5,795.5	256.2	367,159.79	870,596.36	32.0049553	-103.2711368
16,600.0	90.00	179.43	10,270.1	-5,895.5	257.2	367,059.79	870,597.35	32.0046805	-103.2711368

AMEREDEV　　　　　Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well AZALEA STATE COM26-36-28 182H
Company:	Ameredev Operating	**TVD Reference:**	KB=25' @ 2939.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=25' @ 2939.0usft
Site:	Camelia_Azalea	**North Reference:**	Grid
Well:	AZALEA STATE COM 26-36-28 182H	**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
16,700.0	90.00	179.43	10,270.1	-5,995.5	258.2	366,959.80	870,598.34	32.0044056	-103.2711368
16,800.0	90.00	179.43	10,270.1	-6,095.5	259.2	366,859.80	870,599.32	32.0041307	-103.2711368
16,900.0	90.00	179.43	10,270.1	-6,195.5	260.2	366,759.81	870,600.31	32.0038559	-103.2711368
17,000.0	90.00	179.43	10,270.1	-6,295.5	261.1	366,659.81	870,601.30	32.0035810	-103.2711367
17,100.0	90.00	179.43	10,270.1	-6,395.5	262.1	366,559.82	870,602.28	32.0033061	-103.2711367
17,200.0	90.00	179.43	10,270.1	-6,495.5	263.1	366,459.82	870,603.27	32.0030313	-103.2711367
17,300.0	90.00	179.43	10,270.1	-6,595.5	264.1	366,359.83	870,604.26	32.0027564	-103.2711367
17,400.0	90.00	179.43	10,270.0	-6,695.5	265.1	366,259.83	870,605.24	32.0024816	-103.2711367
17,500.0	90.00	179.43	10,270.0	-6,795.4	266.1	366,159.84	870,606.23	32.0022067	-103.2711367
17,600.0	90.00	179.43	10,270.0	-6,895.4	267.1	366,059.84	870,607.22	32.0019318	-103.2711367
17,700.0	90.00	179.43	10,270.0	-6,995.4	268.0	365,959.85	870,608.20	32.0016570	-103.2711367
17,800.0	90.00	179.43	10,270.0	-7,095.4	269.0	365,859.85	870,609.19	32.0013821	-103.2711366
17,900.0	90.00	179.43	10,270.0	-7,195.4	270.0	365,759.86	870,610.18	32.0011072	-103.2711366
18,000.0	90.00	179.43	10,270.0	-7,295.4	271.0	365,659.86	870,611.16	32.0008324	-103.2711366
18,100.0	90.00	179.43	10,270.0	-7,395.4	272.0	365,559.87	870,612.15	32.0005575	-103.2711366
18,139.1	90.00	179.43	10,270.0	-7,434.5	272.4	365,520.77	870,612.54	32.0004500	-103.2711366

　　　TD at 18139.1

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (ASC 182H) 　- plan misses target center by 0.5usft at 10572.0usft MD (10270.5 TVD, 132.2 N, 197.7 E) 　- Point	0.00	0.00	10,270.0	132.2	197.5	373,087.48	870,537.67	32.0212493	-103.2711382
LTP (ASC 182H) 　- plan hits target center 　- Point	0.00	0.00	10,270.0	-7,384.5	271.9	365,570.76	870,612.04	32.0005874	-103.2711366
BHL (ASC 182H) 　- plan hits target center 　- Point	0.00	0.00	10,270.0	-7,434.5	272.4	365,520.77	870,612.54	32.0004500	-103.2711366

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,945.8	2,939.0	Dewey Lake			
4,725.5	4,712.0	Rustler			
5,151.2	5,136.0	Salado			
6,208.2	6,189.0	Tansill			
6,652.9	6,632.0	Capitan			
7,911.7	7,886.0	Lamar			
8,065.3	8,039.0	Bell Canyon			
10,050.4	10,014.0	Brushy Canyon			

AMEREDEV

Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	**Local Co-ordinate Reference:**	Well AZALEA STATE COM26-36-28 182H
Company:	Ameredev Operating	**TVD Reference:**	KB=25' @ 2939.0usft
Project:	Lea County, NM (N83-NME)	**MD Reference:**	KB=25' @ 2939.0usft
Site:	Camelia_Azalea	**North Reference:**	Grid
Well:	AZALEA STATE COM 26-36-28 182H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
1,000.0	1,000.0	0.0	0.0	Start Build 2.00
1,250.0	1,249.7	10.4	3.3	Start 7101.7 hold at 1250.0 MD
8,351.7	8,324.4	600.6	189.7	Start Drop -2.00
8,601.7	8,574.0	611.0	193.0	Start 1219.0 hold at 8601.7 MD
9,820.7	9,793.0	611.0	193.0	KOP-Start DLS 12.00 TFO 179.43
10,570.7	10,270.5	133.5	197.7	LP-Start 7568.4 hold at 10570.7 MD
18,139.1	10,270.0	-7,434.5	272.4	TD at 18139.1

H₂S Drilling Operation Plan

1. **All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:**
   a. Characteristics of H₂S
   b. Physical effects and hazards
   c. Principal and operation of H₂s detectors, warning system and briefing areas
   d. Evacuation procedure, routes and first aid
   e. Proper use of safety equipment and life support systems
   f. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

2. **Briefing Area:**
   a. Two perpendicular areas will be designated by signs and readily accessible.
   b. Upon location entry there will be a designated area to establish all safety compliance criteria (1.) has been met.

3. **H₂S Detection and Alarm Systems:**
   a. H₂S sensors/detectors shall be located on the drilling rig floor, in the base of the sub structure/cellar area, and on the mud pits in the shale shaker area. Additional H₂S detectors may be placed as deemed necessary. All detectors will be set to initiate visual alarm at 10 ppm and visual with audible at 14 ppm and all equipment will be calibrated every 30 days or as needed.
   b. An audio alarm will be installed on the derrick floor and in the top doghouse.

4. **Protective Equipment for Essential Personnel:**
   a. **Breathing Apparatus:**
      i. Rescue Packs (SCBA) - 1 Unit shall be placed at each briefing area.
      ii. Two (SCBA) Units will be stored in safety trailer on location.
      iii. Work/Escape packs - 1 Unit will be available on rig floor in doghouse for emergency evacuation for driller.
   b. **Auxiliary Rescue Equipment:**
      i. Stretcher
      ii. 2 - OSHA full body harnesses
      iii. 100 ft. 5/8" OSHA approved rope
      iv. 1 - 20# class ABC fire extinguisher

5. **Windsock and/or Wind Streamers:**
   a. Windsock at mud pit area should be high enough to be visible.
   b. Windsock on the rig floor should be high enough to be visible.

6. **Communication:**
   a. While working under mask scripting boards will be used for communication where applicable.
   b. Hand signals will be used when script boards are not applicable.

H₂S Drilling Operation Plan

    c.   Two way radios will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at Drilling Foreman's Office.

7. **Drill Stem Testing:** - No Planned DST at this time.

8. **Mud program:**

    a.   If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

9. **Metallurgy:**

    a.   All drill strings, casing, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H_2S service.

    b.   Drilling Contractor supervisor will be required to be familiar with the effect H_2S has on tubular goods and other mechanical equipment provided through contractor.

H₂S Contingency Plan

Emergency Procedures

In the event of a release of H₂S, the first responder(s) must:

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response.
- Take precautions to avoid personal injury during this operation.
- Contact Operator and/or local officials the aid in operation. See list of phone numbers attached.
- Have received training in the:
    - Detection of H₂S and
    - Measures for protection against the gas,
    - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H₂S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO₂	2.21 Air=1	2 ppm	N/A	1000 ppm

Contacting Authorities

Ameredev Operating LLC personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including direction to site. The following call list of essential and potential responders has been prepared for use during a release. Ameredev Operating LLC's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER)

H₂S Contingency Plan

Ameredev Operating LLC – Emergency Phone 737-300-4799

Key Personnel:

Name	Title	Office	Mobile
Floyd Hammond	Chief Operating officer	737-300-4724	512-783-6810
Shane McNeely	Operations Engineer	737-300-4729	432-413-8593
Dayeed Khan	Construction Manager	737-300-4733	281-928-4692

Artesia	
Ambulance	911
State Police	575-748-9718
City Police	575-746-5000
Sheriff's Office	575-887-7551
Fire Department	575-746-5051
Artesia General Hospital	575-748-3333
New Mexico Oil Conservation Division	575-626-0830
Carlsbad	
Ambulance	911
State Police	575-885-3138
City Police	575-885-2111
Sheriff's Office	575-887-7551
Fire Department	575-885-3125
Carlsbad Medical Center	575-887-4100
Hobbs Hospital	575-492-5000
BLM Hobbs Field Office	575-689-5981
BLM Carlsbad Field Office	575-361-2822
New Mexico Oil Conservation Division	575-626-0830
Santa Fe	
Department of Homeland Security and Emergency Management (Santa Fe)	505-476-9600
New Mexico State Emergency Operations Center	505-476-9635
National	
National Emergency Response Center (Washington, D.C.)	800-424-8802
Medical	
Aerocare - R3, Box 49F; Lubbock, TX	800-627-2376
Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM	505-842-4433
Lifeguard Air Emergency Services- 2505 Clark Carr Loop S.E.; Albuquerque, NM	505-243-2343

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
Azalea 26 36 28 State Com 181H	30025-		230' FNL & 1406' FWL	153	729	356
Azalea 26 36 28 State Com 182H	30025-		230' FNL & 2111' FWL	153	729	356
Azalea 26 36 28 State Com 184H	30025-		230' FNL & 755' FEL	153	729	356
Azalea 26 36 28 State Com 261H	30025-		230' FNL & 385' FWL	679	3,238	2,992
Azalea 26 36 28 State Com 262H	30025-		230' FNL & 1706' FWL	153	729	356
Azalea 26 36 28 State Com 264H	30025-		230' FNL & 815' FEL	28	133	65

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

Page **1** of **5**

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
Azalea 26 36 28 State Com 181H	30025-	12/01/2024	01/15/2025	02/15/2025	03/01/2025	03/04/2025
Azalea 26 36 28 State Com 182H	30025-	12/01/2024	01/15/2025	02/15/2025	03/01/2025	03/04/2025
Azalea 26 36 28 State Com 184H	30025-	12/01/2024	01/15/2025	02/15/2025	03/01/2025	03/04/2025
Azalea 26 36 28 State Com 261H	30025-	12/01/2024	01/15/2025	02/15/2025	03/01/2025	03/04/2025
Azalea 26 36 28 State Com 262H	30025-	12/01/2024	01/15/2025	02/15/2025	03/01/2025	03/04/2025
Azalea 26 36 28 State Com 264H	30025-	12/01/2024	01/15/2025	02/15/2025	03/01/2025	03/04/2025

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:

<u>Natural Gas Management</u>
<u>Plan</u>

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. <u>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.</u>

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.

<u>19.15.27.8 (B) Venting and Flaring during drilling operations</u>

• 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.

<u>19.15.27.8 (C) Venting and Flaring during completions or recompletions operations.</u>

• 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.

<u>19.15.27.8 (D) Venting and Flaring during production operations.</u>

• 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