Form C-101 August 1, 2011

Permit 352331

<u>District I</u> 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**

		APPLICA	ATION F	FOR PERMIT TO	DRILL, RE-I	ENTER, DEEPEN	N, PLUGBACK	K, OR ADD	A ZONI	E		
1. Operator Nam	e and Address								2. OGRIE	Number		
AME	REDEV OPERATIN	IG, LLC								372224		
2901	Via Fortuna								3. API Nu	ımber		
Aust	n, TX 78746									30-025-52109		
4. Property Code	e		5. Propert	ty Name					6. Well No.			
3318	307			AZALEA 26 36 28	STATE COM				181H			
					7. Surfa	ace Location						
UL - Lot	Section	Township	F	Range	Lot Idn	Feet From	N/S Line	Feet From		E/W Line	County	
С	28	26	SS	36E	С	230	N	14	06	W		Lea
					8. Proposed B	ottom Hole Location	n					
UL - Lot	Section	Township		Range	Lot Idn	Feet From	N/S Line	Feet From		E/W Line	County	

990

5.1 con 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	2913
16. Multiple 17. Proposed Depth		18. Formation	19. Contractor	20. Spud Date
N	18208	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

26S

36E

21. Proposed Casing and Cement Program

Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5 13.375 54.5		54.5	1798	1412	0
Int1	12.25	10.75	45.5	5072	1296	0
Prod	8.75	5.5	17	18208	5876	0

Casing/Cement Program: Additional Comments

•		
	22 Proposed Playant Provention Program	

22. Froposed Biowodt Frevention Frogram									
Туре	Working Pressure	Test Pressure Manufacturer							
Double Ram	5000	5000	TBD						

knowledge and be	elief.	true and complete to the best of my IMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATION	ON DIVISION	
Printed Name:	Electronically filed by Christie Har	nna	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			

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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

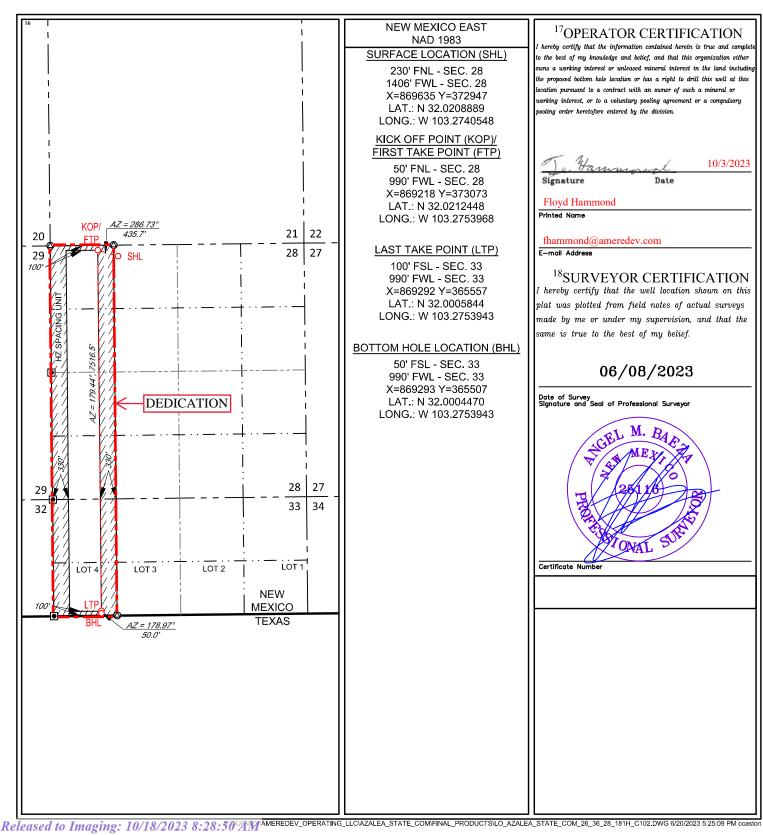
WELL LOCATION AND ACREAGE DEDICATION PLAT

While he control with the meaning has been also been als									
¹ API Number		² Pool Code	³ Pool Name						
30-025-		98150	WC-025 G-08 S263620C; LWR BONE SPRING						
⁴ Property Code		⁵ Pr	operty Name	⁶ Well Number					
331807		AZALEA 26	36 28 STATE COM	181H					
⁷ OGRID No.		⁸ О _Г	perator Name	⁹ Elevation					
372224		AMEREDEV	OPERATING, LLC.	2913'					

¹⁰Surface Location

UL or lot no.	Section 28	Township 26-S	36-E	Lot Idn —	Feet from the 230'	North/South line NORTH	Feet from the 1406'	East/West line WEST	County 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				
4	33	26-S	36-E	-	50'	SOUTH	990'	WEST	LEA				
¹² Dedicated Acres 233.71	¹³ Joint or	Infill 14Co	onsolidation Cod	de ¹⁵ Ord	er No.	•							

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



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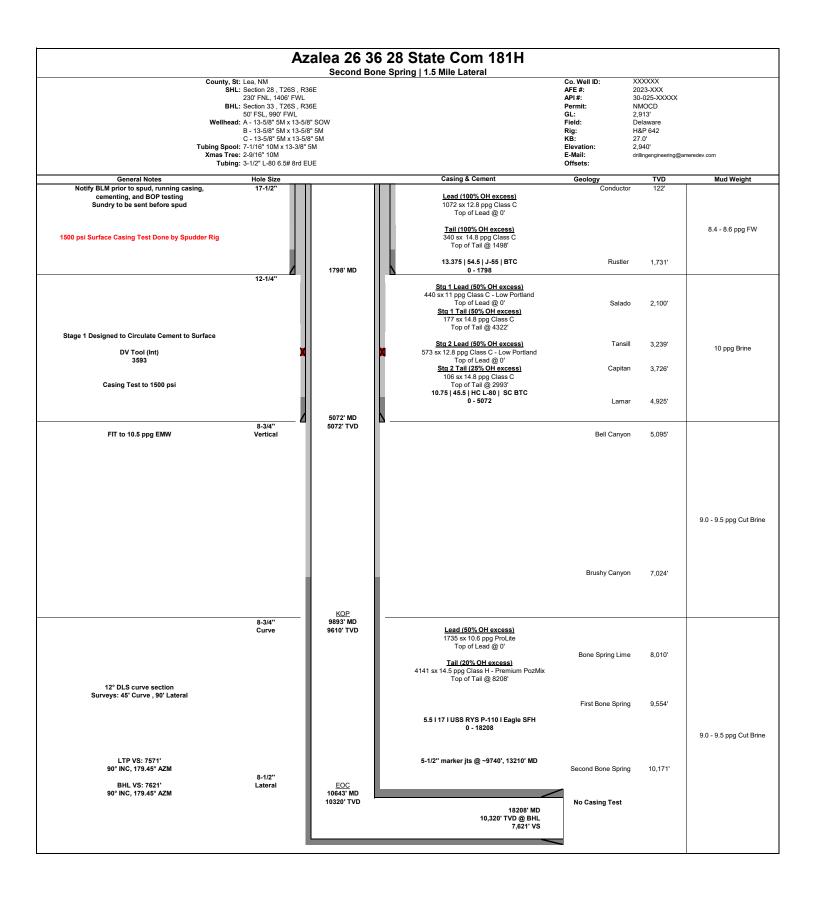
Form APD Conditions

Permit 352331

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:		
AMEREDEV OPERATING, LLC [372224]	30-025-52109		
2901 Via Fortuna	Well:		
Austin, TX 78746	AZALEA 26 36 28 STATE COM #181H		

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





Ameredev Operating

Lea County, NM (N83-NME)
Camelia_Azalea
AZALEA 26 36 28 STATE COM 181H

OWB

Plan: PWP0

Standard Planning Report - Geographic

22 June, 2023



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating
Project: Lea County, NM (N83-NME)

Site: Camelia_Azalea

Well: AZALEA STATE COM 26-36-28 181H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well AZALEA STATE COM26-36-28 181H

KB=25' @ 2938.0usft KB=25' @ 2938.0usft

Grid

Minimum Curvature

Project Lea County, NM (N83-NME)

Map System: US State Plane 1983 Geo Datum: North American Datum 1983

Map Zone: North American Datum 196

New Mexico Eastern Zone

System Datum: Mean Sea Level

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 181H

 Well Position
 +N/-S
 0.0 usft
 Northing:
 372,947.49 usft
 Latitude:
 32.0208889

 +E/-W
 0.0 usft
 Easting:
 869,634.99 usft
 Longitude:
 -103.2740548

 Position Uncertainty
 3.0 usft
 Wellhead Elevation:
 usft
 Ground Level:
 2,913.0 usft

Grid Convergence: 0.56 °

Wellbore OWB

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2020
 6/22/2023
 6.15
 59.69
 47.196.13090916

Design PWP0

Audit Notes:

Version: PROTOTYPE Tie On Depth: 0.0

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

 0.0
 0.0
 0.0
 179.44

Plan Survey Tool Program Date 6/22/2023

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.0 18,208.2 PWP0 (OWB) MWD

OWSG MWD - Standard

Plan Sections Measured Vertical Dogleg Build Turn Depth Inclination Depth +N/-S +E/-W **Azimuth** Rate Rate Rate **TFO** (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (usft) (usft) (°) (°) **Target** (°) 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00 0.00 0.00 0.0 0.00 0.00 0.00 0.00 1,000.0 1,000.0 0.0 1,400.0 8.00 325.10 1,398.7 22.9 -16.02.00 2.00 0.00 325.10 6,273.6 8.00 325.10 6,224.9 579.1 -404.0 0.00 0.00 0.00 0.00 6.623.6 602.0 -420.0 2.00 -2.00 0.00 180.00 6.673.6 0.00 0.00 0.00 0.00 9,842.5 602.0 -420.0 0.00 0.00 0.00 0.00 9,892.5 10,320.0 124.6 -415.4 12.00 12.00 23.93 10,642.5 90.00 179.45 179.45 -7,440.8 -342.40.00 0.00 0.00 0.00 BHL (ASC 181H) 18,208.2 90.00 179.45 10,320.0



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Company: Ameredev Operating
Project: Lea County, NM (N83-NME)

Site: Camelia_Azalea

Well: AZALEA STATE COM 26-36-28 181H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well AZALEA STATE COM26-36-28 181H

KB=25' @ 2938.0usft KB=25' @ 2938.0usft

Grid

Planned Surv	ey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0 100.0 200.0 300.0	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.0 100.0 200.0 300.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	372,947.49 372,947.49 372,947.49 372,947.49	869,634.99 869,634.99 869,634.99 869,634.99	32.0208889 32.0208889 32.0208889 32.0208889	-103.2740548 -103.2740548 -103.2740548 -103.2740548
400.0 500.0 600.0 700.0	0.00 0.00	0.00 0.00 0.00 0.00	400.0 500.0 600.0 700.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	372,947.49 372,947.49 372,947.49 372,947.49	869,634.99 869,634.99 869,634.99 869,634.99	32.0208889 32.0208889 32.0208889 32.0208889	-103.2740548 -103.2740548 -103.2740548 -103.2740548
800.0 900.0 1,000.0	0.00 0.00	0.00 0.00 0.00	800.0 900.0 1,000.0	0.0 0.0 0.0	0.0 0.0 0.0	372,947.49 372,947.49 372,947.49	869,634.99 869,634.99 869,634.99	32.0208889 32.0208889 32.0208889	-103.2740548 -103.2740548 -103.2740548
1,100.0	uild 2.00 2.00	325.10	1,100.0	1.4	-1.0	372,948.92	869,633.99	32.0208929	-103.2740580
1,200.0 1,300.0	4.00 6.00	325.10 325.10 325.10 325.10	1,199.8 1,299.5	5.7 12.9	-4.0 -9.0	372,953.21 372,960.36	869,630.99 869,626.01	32.0209048 32.0209245	-103.2740360 -103.2740675 -103.2740834 -103.2741055
1,400.0			1,398.7	22.9	-16.0	372,970.35	869,619.03	32.0209522	-103.2741000
1,500.0 1,600.0		325.10 325.10 325.10	1,497.7 1,596.8	34.3 45.7	-23.9 -31.9	372,981.77 372,993.18	869,611.07 869,603.11	32.0209838 32.0210154	-103.2741309 -103.2741562
1,700.0 1,800.0 1,813.3	8.00 8.00 8.00	325.10 325.10 325.10	1,695.8 1,794.8 1,808.0	57.1 68.5 70.0	-39.8 -47.8 -48.9	373,004.60 373,016.01 373,017.53	869,595.15 869,587.18 869,586.12	32.0210470 32.0210785 32.0210828	-103.2741815 -103.2742069 -103.2742102
Rustler									
1,900.0 2,000.0 2,100.0 2,200.0 2,200.1	8.00 8.00 8.00	325.10 325.10 325.10 325.10 325.10	1,893.8 1,992.9 2,091.9 2,190.9 2,191.0	79.9 91.3 102.8 114.2 114.2	-55.8 -63.7 -71.7 -79.7 -79.7	373,027.42 373,038.84 373,050.25 373,061.67 373,061.68	869,579.22 869,571.26 869,563.29 869,555.33 869,555.32	32.0211101 32.0211417 32.0211733 32.0212049 32.0212049	-103.2742322 -103.2742575 -103.2742828 -103.2743082 -103.2743082
Salado		323.10	2,191.0	114.2	-19.1	373,001.00	009,333.32	32.0212049	-103.2743002
2,300.0 2,400.0 2,500.0 2,600.0 2,700.0 2,800.0 2,900.0 2,954.4	8.00 8.00 8.00 8.00 8.00 8.00	325.10 325.10 325.10 325.10 325.10 325.10	2,289.9 2,389.0 2,488.0 2,587.0 2,686.1 2,785.1 2,884.1	125.6 137.0 148.4 159.8 171.2 182.7 194.1	-87.6 -95.6 -103.5 -111.5 -119.5 -127.4 -135.4	373,073.08 373,084.49 373,095.91 373,107.32 373,118.74 373,130.15 373,141.56	869,547.37 869,539.40 869,531.44 869,523.48 869,515.51 869,507.55 869,499.59	32.0212365 32.0212681 32.0212996 32.0213312 32.0213628 32.0213944 32.0214260	-103.2743335 -103.2743588 -103.2743842 -103.2744095 -103.2744348 -103.2744601 -103.2744855
,		325.10	2,938.0	200.3	-139.7	373,147.78	869,495.25	32.0214432	-103.2744993
3,000.0 3,100.0 3,200.0 3,232.1	8.00 8.00 8.00	325.10 325.10 325.10 325.10	2,983.1 3,082.2 3,181.2 3,213.0	205.5 216.9 228.3 232.0	-143.4 -151.3 -159.3 -161.8	373,152.98 373,164.39 373,175.81 373,179.47	869,491.62 869,483.66 869,475.70 869,473.14	32.0214576 32.0214892 32.0215208 32.0215309	-103.2745108 -103.2745361 -103.2745615 -103.2745696
Tansill	0.00	005.40	0.000.0	000.7	407.0	070 407 00	000 407 70	00 0045500	400.0745000
3,300.0 3,400.0 3,500.0 3,600.0 3,665.3	8.00 8.00 8.00 8.00	325.10 325.10 325.10 325.10 325.10	3,280.2 3,379.2 3,478.3 3,577.3 3,642.0	239.7 251.1 262.6 274.0 281.4	-167.3 -175.2 -183.2 -191.1 -196.3	373,187.22 373,198.63 373,210.05 373,221.46 373,228.92	869,467.73 869,459.77 869,451.81 869,443.84 869,438.64	32.0215523 32.0215839 32.0216155 32.0216471 32.0216677	-103.2745868 -103.2746121 -103.2746375 -103.2746628 -103.2746793
3,700.0 3,800.0 3,900.0 4,000.0 4,100.0	8.00 8.00 8.00 8.00	325.10 325.10 325.10 325.10 325.10	3,676.3 3,775.3 3,874.4 3,973.4 4,072.4	285.4 296.8 308.2 319.6 331.0	-199.1 -207.1 -215.0 -223.0 -231.0	373,232.87 373,244.29 373,255.70 373,267.12 373,278.53	869,435.88 869,427.92 869,419.95 869,411.99 869,404.03	32.0216787 32.0217103 32.0217419 32.0217734 32.0218050	-103.2746881 -103.2747134 -103.2747388 -103.2747641 -103.2747894



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Grid

Planned Surv	/ev								
i idiliiod odi	,								
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	325.10	4,171.5	342.5	-238.9	373,289.94	869,396.06	32.0218366	-103.2748148
4,300.0		325.10	4,270.5	353.9	-246.9	373,301.36	869,388.10	32.0218682	-103.2748401
4,400.0		325.10	4,369.5	365.3	-254.8	373,312.77	869,380.14	32.0218998	-103.2748654
4,500.0 4,600.0		325.10 325.10	4,468.5	376.7 388.1	-262.8 -270.8	373,324.19 373,335.60	869,372.17 869,364.21	32.0219314 32.0219630	-103.2748907 -103.2749161
4,700.0		325.10	4,567.6 4,666.6	399.5	-270.6 -278.7	373,335.60 373,347.01	869,356.25	32.0219945	-103.2749414
4,800.0		325.10	4,765.6	410.9	-286.7	373,358.43	869,348.29	32.0220261	-103.2749667
4,900.0		325.10	4,864.6	422.4	-294.7	373,369.84	869,340.32	32.0220577	-103.2749921
4,973.1		325.10	4,937.0	430.7	-300.5	373,378.18	869,334.50	32.0220808	-103.2750106
Lamar									
5,000.0		325.10	4,963.7	433.8	-302.6	373,381.26	869,332.36	32.0220893	-103.2750174
5,100.0		325.10	5,062.7	445.2	-310.6	373,392.67	869,324.40	32.0221209	-103.2750427
5,154.8		325.10	5,117.0	451.4	-315.0	373,398.93	869,320.03	32.0221382	-103.2750566
Bell Ca 5,200.0		325.10	5,161.7	456.6	-318.6	373,404.08	869,316.43	32.0221525	-103.2750681
5,300.0		325.10	5,260.7	468.0	-326.5	373,415.50	869,308.47	32.0221841	-103.2750934
5,400.0		325.10	5,359.8	479.4	-334.5	373,426.91	869,300.51	32.0222156	-103.2751187
5,500.0	8.00	325.10	5,458.8	490.8	-342.4	373,438.33	869,292.54	32.0222472	-103.2751440
5,600.0		325.10	5,557.8	502.3	-350.4	373,449.74	869,284.58	32.0222788	-103.2751694
5,700.0		325.10	5,656.9	513.7	-358.4	373,461.15	869,276.62	32.0223104	-103.2751947
5,800.0 5,900.0		325.10 325.10	5,755.9 5,854.9	525.1 536.5	-366.3 -374.3	373,472.57 373,483.98	869,268.65 869,260.69	32.0223420 32.0223736	-103.2752200 -103.2752454
6,000.0		325.10	5,953.9	547.9	-374.3 -382.3	373,465.96	869,252.73	32.0224052	-103.2752454
6,100.0		325.10	6,053.0	559.3	-390.2	373,506.81	869,244.76	32.0224367	-103.2752960
6,200.0		325.10	6,152.0	570.7	-398.2	373,518.22	869,236.80	32.0224683	-103.2753214
6,273.6	8.00	325.10	6,224.9	579.1	-404.0	373,526.62	869,230.94	32.0224916	-103.2753400
	rop -2.00								
6,300.0		325.10	6,251.0	582.1	-406.1	373,529.54	869,228.91	32.0224996 32.0225252	-103.2753465
6,400.0 6,500.0		325.10 325.10	6,350.4 6,450.1	591.3 597.7	-412.5 -417.0	373,538.78 373,545.18	869,222.46 869,218.00	32.0225429	-103.2753670 -103.2753812
6,600.0		325.10	6,550.0	601.2	-419.5	373,548.71	869,215.53	32.0225527	-103.2753890
6,673.6		0.00	6,623.6	602.0	-420.0	373,549.49	869,214.99	32.0225548	-103.2753907
Start 3	218.9 hold a	t 6673.6 MD)						
6,700.0		0.00	6,650.0	602.0	-420.0	373,549.49	869,214.99	32.0225548	-103.2753907
6,800.0		0.00	6,750.0	602.0	-420.0	373,549.49	869,214.99	32.0225548	-103.2753907
6,900.0 7,000.0		0.00 0.00	6,850.0 6,950.0	602.0 602.0	-420.0 -420.0	373,549.49 373,549.49	869,214.99 869,214.99	32.0225548 32.0225548	-103.2753907 -103.2753907
7,000.0		0.00	7,050.0	602.0	-420.0 -420.0	373,549.49	869,214.99	32.0225548	-103.2753907
7,143.0		0.00	7,093.0	602.0	-420.0	373,549.49	869,214.99	32.0225548	-103.2753907
· ·	y Canyon		,			,	,		
7,200.0		0.00	7,150.0	602.0	-420.0	373,549.49	869,214.99	32.0225548	-103.2753907
7,300.0		0.00	7,250.0	602.0	-420.0	373,549.49	869,214.99	32.0225548	-103.2753907
7,400.0		0.00	7,350.0	602.0	-420.0	373,549.49	869,214.99	32.0225548	-103.2753907
7,500.0 7,600.0		0.00 0.00	7,450.0 7,550.0	602.0 602.0	-420.0 -420.0	373,549.49 373,549.49	869,214.99 869,214.99	32.0225548 32.0225548	-103.2753907 -103.2753907
7,700.0		0.00	7,650.0	602.0	-420.0 -420.0	373,549.49	869,214.99	32.0225548	-103.2753907
7,800.0		0.00	7,750.0	602.0	-420.0	373,549.49	869,214.99	32.0225548	-103.2753907
7,900.0	0.00	0.00	7,850.0	602.0	-420.0	373,549.49	869,214.99	32.0225548	-103.2753907
8,000.0		0.00	7,950.0	602.0	-420.0	373,549.49	869,214.99	32.0225548	-103.2753907
8,100.0		0.00	8,050.0	602.0	-420.0	373,549.49	869,214.99	32.0225548	-103.2753907
8,200.0		0.00 0.00	8,150.0 8 151.0	602.0 602.0	-420.0 -420.0	373,549.49 373,549.49	869,214.99 869,214.99	32.0225548	-103.2753907
8,201.0	Spring Lime	0.00	8,151.0	002.0	-4 ∠U.U	313,349.49	009,214.99	32.0225548	-103.2753907
8,300.0		0.00	8,250.0	602.0	-420.0	373,549.49	869,214.99	32.0225548	-103.2753907
	2.70		-,			,	,		



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating
Project: Lea County, NM (N83-NME)

Site: Camelia_Azalea

Well: AZALEA STATE COM 26-36-28 181H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well AZALEA STATE COM26-36-28 181H

KB=25' @ 2938.0usft KB=25' @ 2938.0usft

Grid

Measured Depth Inclination Azimuth Depth Inclination Azimuth Depth (usft)
8,500 0 0.00 0.00 8,450 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 8,700 0 0.00 0.00 8,550 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 8,800 0 0.00 0.00 8,750 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,900 0 0.00 0.00 8,850 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,000 0 0.00 0.00 8,850 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,100 0 0.00 0.00 0,00 9,950 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,200 0 0.00 0.00 0,00 9,150 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,200 0 0.00 0.00 0,00 9,250 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,400 0 0.00 0.00 9,350 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,500 0 0.00 0.00 0,00 9,450 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,600 0 0.00 0.00 9,550 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,600 0 0.00 0.00 9,550 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,600 0 0.00 0.00 9,550 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,600 0 0.00 0.00 9,550 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,600 0 0.00 0.00 9,550 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,800 0 0.00 0.00 9,842 5 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,800 0 0.00 0.00 9,842 5 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,900 0 0.00 179,45 9,850 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,900 0 0.00 179,45 9,850 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,900 0 0.00 179,45 9,850 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,900 0 179,45 9,850 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,900 0 179,45 9,850 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,900 0 179,45 9,850 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,900 0 179,45 9,850 0 602 0 420 0 373,549,49 889,214.99 32.0225548 -103.275300; 9,900 0 179,45 9
8,600.0 0.00 0.00 8,550.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 8,800.0 0.00 0.00 8,850.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,000.0 0.00 0.00 8,850.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,000.0 0.00 0.00 0.00 9,550.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,100.0 0.00 0.00 0.00 9,150.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,300.0 0.00 0.00 0.00 9,150.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,300.0 0.00 0.00 0.00 9,250.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,500.0 0.00 0.00 9,350.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,500.0 0.00 0.00 9,550.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,660.0 0.00 0.00 9,550.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,660.0 0.00 0.00 9,550.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,660.0 0.00 0.00 9,650.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,700.0 0.00 0.00 9,650.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,700.0 0.00 0.00 9,850.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,700.0 0.00 0.00 9,850.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,700.0 0.00 0.00 9,850.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,700.0 0.00 0.00 9,842.5 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,700.0 0.00 0.00 9,842.5 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,800.0 0.00 0.00 9,842.5 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,800.0 0.00 0.00 9,842.5 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,975.0 9,90 179,45 9,874.9 809.9 409.9 373,549.49 869,214.99 32.0225548 -103.275390; 10,000.0 179,45 9,874.9 809.9 41.9 9 373,549.49 869,214.99 32.0225548 -103.275390; 10,000.0 179,45 9,874.9 809.9 41.9 9 373,549.49 809.2 4.9 32.0225548 -103.275390; 10,000.0 179,45 10,000.0 9,860.0 9 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 10,000.0
8,700.0 0.00 0.00 8,650.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 8,900.0 0.00 0.00 0.00 8,750.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,000.0 0.00 0.00 0.00 8,950.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,000.0 0.00 0.00 0.00 9,050.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,200.0 0.00 0.00 0,00 9,150.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,300.0 0.00 0.00 0,00 9,250.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,400.0 0.00 0.00 9,350.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,500.0 0.00 0.00 0,00 9,550.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,600.0 0.00 0.00 9,550.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,600.0 0.00 0.00 9,550.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,600.0 0.00 0.00 9,650.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,600.0 0.00 0.00 9,650.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,600.0 0.00 0.00 9,650.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,800.0 0.00 0.00 9,650.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,800.0 0.00 0.00 9,650.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,800.0 0.00 0.00 9,842.5 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,800.0 0.00 0.00 9,842.5 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,800.0 0.00 0.00 9,842.5 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,800.0 0.00 0.00 9,842.5 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,800.0 0.00 0.00 9,842.5 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,800.0 0.00 0.00 9,842.5 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,800.0 0.00 0.00 9,842.5 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,800.0 0.00 0.00 9,842.5 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.2753900 9,900.0 0.00 0.00 9,842.5 602.0 420.0 373,549.39 869,215.00 32.0225548 -103.2753900
8,800.0 0.00 0.00 8,750.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,000.0 0.00 0.00 8,950.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,100.0 0.00 0.00 9,050.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,200.0 0.00 0.00 0.00 9,150.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,300.0 0.00 0.00 0.00 9,250.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,300.0 0.00 0.00 0.00 9,250.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,500.0 0.00 0.00 0.00 9,350.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,500.0 0.00 0.00 9,450.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,600.0 0.00 0.00 9,550.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,600.0 0.00 0.00 9,610.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,700.0 0.00 0.00 9,610.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,700.0 0.00 0.00 9,650.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,700.0 0.00 0.00 9,842.5 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,800.0 0.00 0.00 9,842.5 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,800.0 0.00 0.00 9,842.5 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,800.0 0.00 179.45 9,850.0 601.9 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,900.0 0.90 179.45 9,850.0 601.9 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,950.0 6.90 179.45 9,850.0 601.9 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 9,950.0 6.90 179.45 9,850.0 601.9 420.0 373,549.49 869,214.99 32.0225548 -103.275390.9 10,050.0 16.90 179.45 9,850.0 601.9 420.0 373,549.49 869,214.99 32.0225547 -103.275390.9 10,050.0 16.90 179.45 9,850.0 601.9 420.0 373,549.49 869,215.00 32.0225333 -103.275390.9 10,050.0 16.90 179.45 9,850.0 601.9 420.0 373,549.49 869,215.00 32.0225333 -103.275390.9 10,050.0 16.90 179.45 9,850.0 601.9 420.0 373,549.49 869,215.00 32.0225444 -103.275390.9 10,050.0 16.90 179.45 10,045.5 556.6 419.9 373,
8,900,0 0,00 0,00 8,850,0 602,0 420,0 373,549,49 869,214,99 32,0225548 -103,275390; 9,100,0 0,00 0,00 9,050,0 602,0 420,0 373,549,49 869,214,99 32,0225548 -103,275390; 9,200,0 0,00 0,00 9,150,0 602,0 420,0 373,549,49 869,214,99 32,0225548 -103,275390; 9,300,0 0,00 0,00 9,250,0 602,0 420,0 373,549,49 869,214,99 32,0225548 -103,275390; 9,400,0 0,00 0,00 9,350,0 602,0 420,0 373,549,49 869,214,99 32,0225548 -103,275390; 9,500,0 0,00 0,00 9,450,0 602,0 420,0 373,549,49 869,214,99 32,0225548 -103,275390; 9,600,0 0,00 0,00 9,450,0 602,0 420,0 373,549,49 869,214,99 32,0225548 -103,275390; 9,600,0 0,00 0,00 9,650,0 602,0 420,0 373,549,49 869,214,99 32,0225548 -103,275390; 9,660,0 0,00 0,00 9,650,0 602,0 420,0 373,549,49 869,214,99 32,0225548 -103,275390; First Bone Spring 9,700,0 0,00 0,00 9,650,0 602,0 420,0 373,549,49 869,214,99 32,0225548 -103,275390; 9,800,0 0,00 0,00 9,650,0 602,0 420,0 373,549,49 869,214,99 32,0225548 -103,275390; 9,800,0 0,00 0,00 9,650,0 602,0 420,0 373,549,49 869,214,99 32,0225548 -103,275390; 9,800,0 0,00 0,00 9,842,5 602,0 420,0 373,549,49 869,214,99 32,0225548 -103,275390; 9,802,5 0,00 0,00 9,842,5 602,0 420,0 373,549,49 869,214,99 32,0225548 -103,275390; 9,802,5 0,00 0,00 9,842,5 602,0 420,0 373,549,49 869,214,99 32,0225548 -103,275390; 9,950,0 3,90 179,45 9,874,9 600,9 420,0 373,549,48 869,214,99 32,0225548 -103,275390; 9,950,0 6,90 179,45 9,874,9 600,9 420,0 373,549,48 869,214,99 32,0225541 -103,275390; 9,950,0 6,90 179,45 9,874,9 600,9 420,0 373,549,38 869,215,00 32,0225518 -103,275390; 10,000,0 12,90 179,45 9,971,0 576,3 419,8 373,542,38 869,215,00 32,0225518 -103,275390; 10,000,0 12,90 179,45 9,971,0 576,3 419,8 373,542,38 869,215,00 32,0225518 -103,275390; 10,050,0 18,90 179,45 9,971,0 576,3 419,8 373,542,38 869,215,00 32,0225547 -103,275390; 10,050,0 18,90 179,45 10,043,5 557,6 419,9 373,542,38 869,215,00 32,0225549 -103,275390; 10,050,0 18,90 179,45 10,085,5 57,6 419,9 373,542,38 869,215,00 32,0225549 -103,275390; 10,050,0 18,90 179,45 10,085,5 57,6 419,9 373,542,38 869,215,00 32,0
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9,200.0 0.00 0.00 9,150.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,400.0 0.00 0.00 9,250.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,500.0 0.00 0.00 0.00 9,450.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,600.0 0.00 0.00 0,00 9,550.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,660.0 0.00 0.00 0,00 9,550.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,660.0 0.00 0.00 0,00 9,610.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; First Bone Spring 9,700.0 0.00 0.00 9,650.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,800.0 0.00 0.00 9,750.0 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,802.5 0.00 0.00 9,842.5 602.0 420.0 373,549.49 869,214.99 32.0225548 -103.275390; KOP-Start DLS 12.00 TFO 179.45 9,902.0 0.90 179.45 9,874.9 600.9 420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,950.0 6.90 179.45 9,874.9 600.9 420.0 373,549.43 869,214.99 32.0225547 -103.275390; 9,950.0 6.90 179.45 9,899.8 598.5 420.0 373,549.43 869,214.99 32.0225548 -103.275390; 9,950.0 6.90 179.45 9,949.1 590.0 420.0 373,549.43 869,215.00 32.0225518 -103.275390; 9,975.0 9.90 179.45 9,949.1 590.0 420.0 373,549.3 869,215.00 32.0225518 -103.275390; 10,000.0 12.90 179.45 9,949.1 590.0 419.9 373,542.3 869,215.00 32.0225518 -103.275390; 10,005.0 15.90 179.45 9,949.1 590.0 419.9 373,543.3 869,215.00 32.0225517 -103.275390; 10,055.0 15.90 179.45 9,9973.3 583.7 4419.9 373,543.2 869,215.0 32.022544 103.275390; 10,055.0 15.90 179.45 9,973.3 583.7 4419.9 373,542.3 869,215.0 32.022544 103.275390; 10,055.0 15.90 179.45 10,065.9 546.5 419.5 373,494.01 869,215.52 32.0224401 -103.275390; 10,150.0 30.90 179.45 10,085.9 546.5 419.5 373,494.01 869,215.52 32.0224402 -103.275390; 10,150.0 30.90 179.45 10,085.9 546.5 419.5 373,494.01 869,215.52 32.0224023 -103.275390; 10,150.0 42.90 179.45 10,085.9 546.5 419.5 373,494.01 869,215.52 32.0224023 -103.275390; 10,150.0 42.90 179.45 10,085.9 546.5 419.5 373,494.01 869,215.51 32.0229309 -103.275390;
9,300.0 0.00 0.00 9,250.0 602.0 -420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,500.0 0.00 0.00 0,00 9,450.0 602.0 -420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,600.0 0.00 0.00 9,550.0 602.0 -420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,600.0 0.00 0.00 0,00 9,610.0 602.0 -420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,600.0 0.00 0.00 9,610.0 602.0 -420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,700.0 0.00 0.00 9,650.0 602.0 -420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,800.0 0.00 0.00 9,750.0 602.0 -420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,802.5 0.00 0.00 9,842.5 602.0 -420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,802.5 0.00 0.00 9,842.5 602.0 -420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,925.0 3,90 179.45 9,850.0 601.9 -420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,925.0 3,90 179.45 9,874.9 600.9 -420.0 373,549.49 869,214.99 32.0225548 -103.275390; 9,950.0 6.90 179.45 9,899.8 598.5 -420.0 373,549.38 869,215.00 32.0225547 -103.275390; 9,975.0 9,90 179.45 9,949.1 590.0 419.9 373,542.38 869,215.00 32.0225544 -103.275390; 10,000.0 12.90 179.45 9,973.3 583.7 -419.8 373,537.44 869,215.10 32.0225517 -103.275390; 10,000.0 12.90 179.45 9,973.3 583.7 -419.8 373,537.44 869,215.10 32.0225217 -103.275390; 10,000.0 12.90 179.45 10,000.0 567.6 419.9 373,542.38 869,215.00 32.0225513 -103.275390; 10,000.0 12.90 179.45 10,000.0 567.6 419.8 373,5315.0 869,215.0 32.0225217 -103.275390; 10,000.0 12.90 179.45 10,000.0 567.6 419.8 373,5315.0 869,215.0 32.0224841 -103.275390; 10,105.0 18.90 179.45 10,000.0 567.6 419.8 373,542.38 869,215.0 32.0224841 -103.275390; 10,105.0 18.90 179.45 10,000.0 567.6 419.8 373,542.38 869,215.0 32.0224841 -103.275390; 10,105.0 30.90 179.45 10,000.0 567.6 419.8 373,541.8 869,215.0 869,215.2 32.0224841 -103.275390; 10,100.0 34.90 179.45 10,066.9 546.5 419.5 373,468.34 869,215.0 869,215.2 32.0224829 -103.275390; 10,105.0 30.90 179.45 10,066.9 546.5 419.5 373,468.34 869,215.5 32.0224829 -103.275390; 10,105.0 30.90 179.45
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KOP-Start DLS 12.00 TFO 179.45 9,900.0 0.90 179.45 9,850.0 601.9 -420.0 373,549.43 869,214.99 32.0225547 -103.2753907 9,925.0 3.90 179.45 9,874.9 600.9 -420.0 373,548.38 869,215.00 32.0225518 -103.2753907 9,950.0 6.90 179.45 9,899.8 598.5 -420.0 373,546.03 869,215.00 32.0225454 -103.2753907 9,975.0 9.90 179.45 9,949.1 590.0 -419.9 373,537.44 869,215.06 32.0225353 -103.2753907 10,005.0 15.90 179.45 9,949.1 590.0 -419.9 373,537.44 869,215.10 32.0225047 -103.2753907 10,025.0 15.90 179.45 9,997.1 576.3 -419.8 373,537.44 869,215.16 32.0225447 -103.2753907 10,050.0 18.90 179.45 10,921.6 567.6 -419.7 373,515.04 869,215.32 32.0224602 -103.2753908 10,10
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10,100.0 24.90 179.45 10,043.5 557.6 -419.6 373,505.12 869,215.42 32.0224329 -103.2753908 10,125.0 27.90 179.45 10,065.9 546.5 -419.5 373,494.01 869,215.52 32.0224023 -103.2753908 10,150.0 30.90 179.45 10,087.7 534.2 -419.3 373,468.34 869,215.64 32.0223686 -103.2753908 10,175.0 33.90 179.45 10,108.8 520.9 -419.2 373,468.34 869,215.77 32.0223318 -103.2753908 10,200.0 36.90 179.45 10,129.2 506.4 -419.1 373,453.87 869,215.91 32.0222920 -103.2753908 10,225.0 39.90 179.45 10,148.7 490.9 -418.9 373,438.34 869,216.06 32.0222493 -103.2753908 10,250.0 42.90 179.45 10,167.5 474.3 -418.8 373,404.32 869,216.22 32.0222039 -103.2753908 10,300.0 48.90 179.45 10,202.3 438.4 -418.6 373,304.32 869,216.57 32.0221052
10,125.0 27.90 179.45 10,065.9 546.5 -419.5 373,494.01 869,215.52 32.0224023 -103.2753908 10,150.0 30.90 179.45 10,087.7 534.2 -419.3 373,481.74 869,215.64 32.0223686 -103.2753908 10,175.0 33.90 179.45 10,108.8 520.9 -419.2 373,468.34 869,215.77 32.0223318 -103.2753908 10,200.0 36.90 179.45 10,129.2 506.4 -419.1 373,453.87 869,215.91 32.0222920 -103.2753908 10,225.0 39.90 179.45 10,148.7 490.9 -418.9 373,438.34 869,216.06 32.0222493 -103.2753908 10,250.0 42.90 179.45 10,167.5 474.3 -418.8 373,421.81 869,216.22 32.0222039 -103.2753908 10,275.0 45.90 179.45 10,185.4 456.8 -418.6 373,404.32 869,216.39 32.0221558 -103.2753908 10,300.0 48.90 179.45 10,202.3 438.4 -418.4 373,366.67 869,216.57 32.0221052
10,150.0 30.90 179.45 10,087.7 534.2 -419.3 373,481.74 869,215.64 32.0223686 -103.2753908 10,175.0 33.90 179.45 10,108.8 520.9 -419.2 373,468.34 869,215.77 32.0223318 -103.2753908 10,200.0 36.90 179.45 10,129.2 506.4 -419.1 373,453.87 869,215.91 32.0222920 -103.2753908 10,225.0 39.90 179.45 10,148.7 490.9 -418.9 373,438.34 869,216.06 32.0222493 -103.2753908 10,250.0 42.90 179.45 10,167.5 474.3 -418.8 373,421.81 869,216.22 32.0222039 -103.2753908 10,275.0 45.90 179.45 10,185.4 456.8 -418.6 373,404.32 869,216.39 32.0221558 -103.2753908 10,300.0 48.90 179.45 10,202.3 438.4 -418.4 373,385.92 869,216.57 32.0221052 -103.2753908 10,350.0 51.90 179.45 10,218.2 419.2 -418.2 373,366.67 869,216.75 32.0221952
10,175.0 33.90 179.45 10,108.8 520.9 -419.2 373,468.34 869,215.77 32.0223318 -103.2753908 10,200.0 36.90 179.45 10,129.2 506.4 -419.1 373,453.87 869,215.91 32.0222920 -103.2753908 10,225.0 39.90 179.45 10,148.7 490.9 -418.9 373,438.34 869,216.06 32.0222493 -103.2753908 10,250.0 42.90 179.45 10,167.5 474.3 -418.8 373,421.81 869,216.22 32.0222039 -103.2753908 10,275.0 45.90 179.45 10,185.4 456.8 -418.6 373,404.32 869,216.39 32.0221558 -103.2753908 10,300.0 48.90 179.45 10,202.3 438.4 -418.4 373,385.92 869,216.57 32.0221052 -103.2753908 10,325.0 51.90 179.45 10,218.2 419.2 -418.2 373,366.67 869,216.75 32.0220523 -103.2753908 10,350.0 54.90 179.45 10,233.1 399.1 -418.0 373,346.60 869,216.95 32.0219971
10,225.0 39.90 179.45 10,148.7 490.9 -418.9 373,438.34 869,216.06 32.0222493 -103.2753908 10,250.0 42.90 179.45 10,167.5 474.3 -418.8 373,421.81 869,216.22 32.0222039 -103.2753908 10,275.0 45.90 179.45 10,185.4 456.8 -418.6 373,404.32 869,216.39 32.0221558 -103.2753908 10,300.0 48.90 179.45 10,202.3 438.4 -418.4 373,385.92 869,216.57 32.0221052 -103.2753908 10,325.0 51.90 179.45 10,218.2 419.2 -418.2 373,366.67 869,216.75 32.0220523 -103.2753908 10,350.0 54.90 179.45 10,233.1 399.1 -418.0 373,346.60 869,216.95 32.0219971 -103.2753908 10,375.0 57.90 179.45 10,247.0 378.3 -417.8 373,304.27 869,217.15 32.0219399 -103.2753908 10,400.0 60.90 179.45 10,259.7 356.8 -417.6 373,304.27 869,217.35 32.0218808
10,250.0 42.90 179.45 10,167.5 474.3 -418.8 373,421.81 869,216.22 32.0222039 -103.2753908 10,275.0 45.90 179.45 10,185.4 456.8 -418.6 373,404.32 869,216.39 32.0221558 -103.2753908 10,300.0 48.90 179.45 10,202.3 438.4 -418.4 373,385.92 869,216.57 32.0221052 -103.2753908 10,325.0 51.90 179.45 10,218.2 419.2 -418.2 373,366.67 869,216.75 32.0220523 -103.2753908 10,350.0 54.90 179.45 10,233.1 399.1 -418.0 373,346.60 869,216.95 32.0219971 -103.2753908 10,375.0 57.90 179.45 10,247.0 378.3 -417.8 373,304.27 869,217.15 32.0219399 -103.2753908 10,400.0 60.90 179.45 10,259.7 356.8 -417.6 373,304.27 869,217.35 32.0218808 -103.2753908 10,425.0 63.90 179.45 10,271.3 334.6 -417.4 373,282.12 869,217.57 32.0218199
10,275.0 45.90 179.45 10,185.4 456.8 -418.6 373,404.32 869,216.39 32.0221558 -103.2753908 10,300.0 48.90 179.45 10,202.3 438.4 -418.4 373,385.92 869,216.57 32.0221052 -103.2753908 10,325.0 51.90 179.45 10,218.2 419.2 -418.2 373,366.67 869,216.75 32.0220523 -103.2753908 10,350.0 54.90 179.45 10,233.1 399.1 -418.0 373,346.60 869,216.95 32.0219971 -103.2753908 10,375.0 57.90 179.45 10,247.0 378.3 -417.8 373,325.78 869,217.15 32.0219399 -103.2753908 10,400.0 60.90 179.45 10,259.7 356.8 -417.6 373,304.27 869,217.35 32.0218808 -103.2753908 10,425.0 63.90 179.45 10,271.3 334.6 -417.4 373,282.12 869,217.57 32.0218199 -103.2753908
10,300.0 48.90 179.45 10,202.3 438.4 -418.4 373,385.92 869,216.57 32.0221052 -103.2753908 10,325.0 51.90 179.45 10,218.2 419.2 -418.2 373,366.67 869,216.75 32.0220523 -103.2753908 10,350.0 54.90 179.45 10,233.1 399.1 -418.0 373,346.60 869,216.95 32.0219971 -103.2753908 10,375.0 57.90 179.45 10,247.0 378.3 -417.8 373,325.78 869,217.15 32.0219399 -103.2753908 10,400.0 60.90 179.45 10,259.7 356.8 -417.6 373,304.27 869,217.35 32.0218808 -103.2753908 10,425.0 63.90 179.45 10,271.3 334.6 -417.4 373,282.12 869,217.57 32.0218199 -103.2753908
10,325.0 51.90 179.45 10,218.2 419.2 -418.2 373,366.67 869,216.75 32.0220523 -103.2753908 10,350.0 54.90 179.45 10,233.1 399.1 -418.0 373,346.60 869,216.95 32.0219971 -103.2753908 10,375.0 57.90 179.45 10,247.0 378.3 -417.8 373,325.78 869,217.15 32.0219399 -103.2753908 10,400.0 60.90 179.45 10,259.7 356.8 -417.6 373,304.27 869,217.35 32.0218808 -103.2753908 10,425.0 63.90 179.45 10,271.3 334.6 -417.4 373,282.12 869,217.57 32.0218199 -103.2753908
10,350.0 54.90 179.45 10,233.1 399.1 -418.0 373,346.60 869,216.95 32.0219971 -103.2753908 10,375.0 57.90 179.45 10,247.0 378.3 -417.8 373,325.78 869,217.15 32.0219399 -103.2753908 10,400.0 60.90 179.45 10,259.7 356.8 -417.6 373,304.27 869,217.35 32.0218808 -103.2753908 10,425.0 63.90 179.45 10,271.3 334.6 -417.4 373,282.12 869,217.57 32.0218199 -103.2753908
10,375.0 57.90 179.45 10,247.0 378.3 -417.8 373,325.78 869,217.15 32.0219399 -103.2753908 10,400.0 60.90 179.45 10,259.7 356.8 -417.6 373,304.27 869,217.35 32.0218808 -103.2753908 10,425.0 63.90 179.45 10,271.3 334.6 -417.4 373,282.12 869,217.57 32.0218199 -103.2753908
10,400.0 60.90 179.45 10,259.7 356.8 -417.6 373,304.27 869,217.35 32.0218808 -103.2753909 10,425.0 63.90 179.45 10,271.3 334.6 -417.4 373,282.12 869,217.57 32.0218199 -103.2753909
10,425.0 63.90 179.45 10,271.3 334.6 -417.4 373,282.12 869,217.57 32.0218199 -103.2753909
10,450.0 66.90 179.45 10,281.7 311.9 -417.2 373,259.39 869,217.79 32.0217574 -103.2753909
10,475.0 69.90 179.45 10,290.9 288.7 -417.0 373,236.15 869,218.01 32.0216935 -103.2753908
10,484.3 71.02 179.45 10,294.0 279.9 -416.9 373,227.35 869,218.10 32.0216693 -103.2753908
Second Bone Spring
10,500.0 72.90 179.45 10,298.8 265.0 -416.7 373,212.46 869,218.24 32.0216284 -103.2753909
10,525.0 75.90 179.45 10,305.6 240.9 -416.5 373,188.38 869,218.47 32.0215622 -103.2753909
10,550.0 78.90 179.45 10,311.0 216.5 -416.3 373,163.99 869,218.71 32.0214952 -103.2753909
10,575.0 81.90 179.45 10,315.2 191.9 -416.0 373,139.34 869,218.95 32.0214274 -103.2753909
10,600.0 84.90 179.45 10,318.1 167.0 -415.8 373,114.51 869,219.19 32.0213592 -103.2753909
10,625.0 87.90 179.45 10,319.6 142.1 -415.6 373,089.57 869,219.43 32.0212906 -103.2753908
10,642.5 90.00 179.45 10,320.0 124.6 -415.4 373,072.05 869,219.60 32.0212425 -103.2753910
LP-Start 7565.7 hold at 10642.5 MD
10,700.0 90.00 179.45 10,320.0 67.1 -414.8 373,014.58 869,220.15 32.0210845 -103.2753910



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating
Project: Lea County, NM (N83-NME)

Site: Camelia_Azalea

Well: AZALEA STATE COM 26-36-28 181H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well AZALEA STATE COM26-36-28 181H

KB=25' @ 2938.0usft KB=25' @ 2938.0usft

Grid

Planned Surv	ey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,800.0		179.45	10,320.0	-32.9	-413.9	372,914.58	869,221.12	32.0208096	-103.2753910
10,900.0		179.45	10,320.0	-132.9	-412.9	372,814.58	869,222.08	32.0205348	-103.2753911
11,000.0		179.45	10,320.0	-232.9	-411.9	372,714.59	869,223.05	32.0202599	-103.2753911
11,100.0		179.45	10,320.0	-332.9	-411.0	372,614.59	869,224.01	32.0199850	-103.2753912
11,200.0		179.45	10,320.0	-432.9	-410.0	372,514.60	869,224.98	32.0197102	-103.2753912
11,300.0		179.45	10,320.0	-532.9	-409.0	372,414.60	869,225.94	32.0194353	-103.2753913
11,400.0 11,500.0		179.45 179.45	10,320.0 10,320.0	-632.9 -732.9	-408.1 -407.1	372,314.61 372,214.61	869,226.91 869,227.87	32.0191604 32.0188856	-103.2753913 -103.2753913
11,600.0		179.45	10,320.0	-732.9 -832.9	-407.1	372,114.62	869,228.84	32.0186107	-103.2753914
11,700.0		179.45	10,320.0	-932.9	-405.2	372,014.62	869,229.80	32.0183358	-103.2753914
11,800.0		179.45	10,320.0	-1,032.9	-404.2	371,914.63	869,230.77	32.0180610	-103.2753915
11,900.0		179.45	10,320.0	-1,132.9	-403.3	371,814.63	869,231.73	32.0177861	-103.2753915
12,000.0		179.45	10,320.0	-1,232.9	-402.3	371,714.64	869,232.70	32.0175112	-103.2753916
12,100.0	90.00	179.45	10,320.0	-1,332.8	-401.3	371,614.64	869,233.66	32.0172364	-103.2753916
12,200.0	90.00	179.45	10,320.0	-1,432.8	-400.4	371,514.64	869,234.63	32.0169615	-103.2753917
12,300.0		179.45	10,320.0	-1,532.8	-399.4	371,414.65	869,235.59	32.0166866	-103.2753917
12,400.0		179.45	10,320.0	-1,632.8	-398.4	371,314.65	869,236.56	32.0164118	-103.2753917
12,500.0		179.45	10,320.0	-1,732.8	-397.5	371,214.66	869,237.52	32.0161369	-103.2753918
12,600.0		179.45	10,320.0	-1,832.8	-396.5	371,114.66	869,238.49	32.0158620	-103.2753918
12,700.0		179.45	10,320.0	-1,932.8	-395.5	371,014.67	869,239.45	32.0155872	-103.2753919
12,800.0		179.45	10,320.0	-2,032.8	-394.6	370,914.67	869,240.42	32.0153123	-103.2753919
12,900.0		179.45	10,320.0	-2,132.8	-393.6	370,814.68	869,241.38	32.0150374	-103.2753920
13,000.0 13,100.0		179.45 179.45	10,320.0 10,320.0	-2,232.8 -2,332.8	-392.6 -391.7	370,714.68 370,614.69	869,242.35 869,243.31	32.0147626 32.0144877	-103.2753920 -103.2753921
13,200.0		179.45	10,320.0	-2,332.8 -2,432.8	-391.7	370,514.69	869,244.28	32.0142128	-103.2753921
13,300.0		179.45	10,320.0	-2,532.8	-389.7	370,414.70	869,245.24	32.0139380	-103.2753921
13,400.0		179.45	10,320.0	-2,632.8	-388.8	370,314.70	869,246.21	32.0136631	-103.2753922
13,500.0		179.45	10,320.0	-2,732.8	-387.8	370,214.71	869,247.17	32.0133882	-103.2753922
13,600.0		179.45	10,320.0	-2,832.8	-386.8	370,114.71	869,248.14	32.0131134	-103.2753923
13,700.0	90.00	179.45	10,320.0	-2,932.8	-385.9	370,014.71	869,249.11	32.0128385	-103.2753923
13,800.0	90.00	179.45	10,320.0	-3,032.8	-384.9	369,914.72	869,250.07	32.0125636	-103.2753924
13,900.0		179.45	10,320.0	-3,132.8	-384.0	369,814.72	869,251.04	32.0122888	-103.2753924
14,000.0		179.45	10,320.0	-3,232.8	-383.0	369,714.73	869,252.00	32.0120139	-103.2753925
14,100.0		179.45	10,320.0	-3,332.8	-382.0	369,614.73	869,252.97	32.0117390	-103.2753925
14,200.0		179.45	10,320.0	-3,432.8	-381.1	369,514.74	869,253.93	32.0114642	-103.2753925
14,300.0		179.45	10,320.0	-3,532.7	-380.1	369,414.74	869,254.90	32.0111893	-103.2753926
14,400.0 14,500.0		179.45 179.45	10,320.0 10,320.0	-3,632.7 -3,732.7	-379.1 -378.2	369,314.75 369,214.75	869,255.86 869,256.83	32.0109144 32.0106396	-103.2753926 -103.2753927
14,600.0		179.45	10,320.0	-3,732.7	-377.2	369,114.76	869,257.79	32.0100390	-103.2753927
14,700.0		179.45	10,320.0	-3,932.7	-376.2	369,014.76	869,258.76	32.0100898	-103.2753928
14,800.0		179.45	10,320.0	-4,032.7	-375.3	368,914.77	869,259.72	32.0098150	-103.2753928
14,900.0		179.45	10,320.0	-4,132.7	-374.3	368,814.77	869,260.69	32.0095401	-103.2753929
15,000.0		179.45	10,320.0	-4,232.7	-373.3	368,714.78	869,261.65	32.0092653	-103.2753929
15,100.0	90.00	179.45	10,320.0	-4,332.7	-372.4	368,614.78	869,262.62	32.0089904	-103.2753929
15,200.0	90.00	179.45	10,320.0	-4,432.7	-371.4	368,514.78	869,263.58	32.0087155	-103.2753930
15,300.0		179.45	10,320.0	-4,532.7	-370.4	368,414.79	869,264.55	32.0084407	-103.2753930
15,400.0		179.45	10,320.0	-4,632.7	-369.5	368,314.79	869,265.51	32.0081658	-103.2753931
15,500.0		179.45	10,320.0	-4,732.7	-368.5	368,214.80	869,266.48	32.0078909	-103.2753931
15,600.0		179.45	10,320.0	-4,832.7	-367.5	368,114.80	869,267.44	32.0076161	-103.2753932
15,700.0		179.45	10,320.0	-4,932.7	-366.6	368,014.81	869,268.41	32.0073412	-103.2753932
15,800.0		179.45	10,320.0	-5,032.7 5 132 7	-365.6	367,914.81	869,269.37	32.0070663	-103.2753932
15,900.0 16,000.0		179.45 179.45	10,320.0 10,320.0	-5,132.7 -5,232.7	-364.6 -363.7	367,814.82 367,714.82	869,270.34 869,271.30	32.0067915 32.0065166	-103.2753933 -103.2753933
16,000.0		179.45	10,320.0	-5,232.7 -5,332.7	-363.7 -362.7	367,714.82 367,614.83	869,271.30	32.0062417	-103.2753934
16,200.0		179.45	10,320.0	-5,332.7 -5,432.7	-361.8	367,514.83	869,273.23	32.0059669	-103.2753934
10,200.0	55.50	170.40	10,020.0	3, 102.7	301.0	337,317.00	000,270.20	32.300000	100.2700004



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating
Project: Lea County, NM (N83-NME)

Site: Camelia_Azalea

Well: AZALEA STATE COM 26-36-28 181H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well AZALEA STATE COM26-36-28 181H

KB=25' @ 2938.0usft KB=25' @ 2938.0usft

Grid

Planned Surv	еу								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,300.0	90.00	179.45	10,320.0	-5,532.7	-360.8	367,414.84	869,274.20	32.0056920	-103.2753935
16,400.0	90.00	179.45	10,320.0	-5,632.6	-359.8	367,314.84	869,275.16	32.0054171	-103.2753935
16,500.0	90.00	179.45	10,320.0	-5,732.6	-358.9	367,214.85	869,276.13	32.0051423	-103.2753936
16,600.0	90.00	179.45	10,320.0	-5,832.6	-357.9	367,114.85	869,277.10	32.0048674	-103.2753936
16,700.0	90.00	179.45	10,320.0	-5,932.6	-356.9	367,014.85	869,278.06	32.0045925	-103.2753936
16,800.0	90.00	179.45	10,320.0	-6,032.6	-356.0	366,914.86	869,279.03	32.0043177	-103.2753937
16,900.0	90.00	179.45	10,320.0	-6,132.6	-355.0	366,814.86	869,279.99	32.0040428	-103.2753937
17,000.0	90.00	179.45	10,320.0	-6,232.6	-354.0	366,714.87	869,280.96	32.0037679	-103.2753938
17,100.0	90.00	179.45	10,320.0	-6,332.6	-353.1	366,614.87	869,281.92	32.0034931	-103.2753938
17,200.0	90.00	179.45	10,320.0	-6,432.6	-352.1	366,514.88	869,282.89	32.0032182	-103.2753939
17,300.0	90.00	179.45	10,320.0	-6,532.6	-351.1	366,414.88	869,283.85	32.0029433	-103.2753939
17,400.0	90.00	179.45	10,320.0	-6,632.6	-350.2	366,314.89	869,284.82	32.0026685	-103.2753939
17,500.0	90.00	179.45	10,320.0	-6,732.6	-349.2	366,214.89	869,285.78	32.0023936	-103.2753940
17,600.0		179.45	10,320.0	-6,832.6	-348.2	366,114.90	869,286.75	32.0021187	-103.2753940
17,700.0		179.45	10,320.0	-6,932.6	-347.3	366,014.90	869,287.71	32.0018439	-103.2753941
17,800.0	90.00	179.45	10,320.0	-7,032.6	-346.3	365,914.91	869,288.68	32.0015690	-103.2753941
17,900.0		179.45	10,320.0	-7,132.6	-345.3	365,814.91	869,289.64	32.0012941	-103.2753942
18,000.0		179.45	10,320.0	-7,232.6	-344.4	365,714.91	869,290.61	32.0010193	-103.2753942
18,100.0		179.45	10,320.0	-7,332.6	-343.4	365,614.92	869,291.57	32.0007444	-103.2753942
18,208.2	90.00	179.45	10,320.0	-7,440.8	-342.4	365,506.74	869,292.62	32.0004470	-103.2753943
TD at 1	8208.2								

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL (ASC 181H) - plan hits target co - Point	0.00 enter	0.00	10,320.0	-7,440.8	-342.4	365,506.74	869,292.62	32.0004470	-103.2753943
FTP (ASC 181H) - plan misses targe - Point	0.00 et center by	0.00 1.8usft at 1	10,320.0 10641.7usft	125.4 MD (10320.0	-417.2 0 TVD, 125.4	373,072.89 4 N, -415.4 E)	869,217.78	32.0212448	-103.2753968
LTP (ASC 181H) - plan hits target co - Point	0.00 enter	0.00	10,320.0	-7,390.8	-342.9	365,556.72	869,292.13	32.0005844	-103.2753943



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating
Project: Lea County, NM (N83-NME)

Site: Camelia_Azalea

Well: AZALEA STATE COM 26-36-28 181H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well AZALEA STATE COM26-36-28 181H

KB=25' @ 2938.0usft KB=25' @ 2938.0usft

Grid

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,813.3	1,808.0	Rustler			
	2,200.1	2,191.0	Salado			
	2,954.4	2,938.0	Dewey Lake			
	3,232.1	3,213.0	Tansill			
	3,665.3	3,642.0	Capitan			
	4,973.1	4,937.0	Lamar			
	5,154.8	5,117.0	Bell Canyon			
	7,143.0	7,093.0	Brushy Canyon			
	8,201.0	8,151.0	Bone Spring Lime			
	9,660.0	9,610.0	First Bone Spring			
	10,484.3	10,294.0	Second Bone Spring			

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	dinates +E/-W (usft)	Comment
1,000.0	1,000.0	0.0	0.0	Start Build 2.00
1,400.0	1,398.7	22.9	-16.0	Start 4873.6 hold at 1400.0 MD
6,273.6	6,224.9	579.1	-404.0	Start Drop -2.00
6,673.6	6,623.6	602.0	-420.0	Start 3218.9 hold at 6673.6 MD
9,892.5	9,842.5	602.0	-420.0	KOP-Start DLS 12.00 TFO 179.45
10,642.5	10,320.0	124.6	-415.4	LP-Start 7565.7 hold at 10642.5 MD
18,208.2	10,320.0	-7,440.8	-342.4	TD at 18208.2



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. H_2S 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 H_2S 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. <u>Drill Stem Testing:</u> 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 H₂S service.
- **b.** Drilling Contractor supervisor will be required to be familiar with the effect H₂S 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:
 - o Detection of H₂S and
 - o Measures for protection against the gas,
 - o 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	H ₂ S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	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
<u>National</u>	
National Emergency Response Center (Washington, D.C.)	800-424-8802
<u>Medical</u>	
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. C	perator:	_Ameredev II, L	LC	OGRID: _	372224	1 Date	<u>0</u> 6/21/2023 _
П. Т	Type: ⊠ Original □ A	amendment due to	o 🗆 19.15.27.9	9.D(6)(a) NMA(□ 19.15.27.9.	D(6)(b) NMAC □ C	Other.
If C	other, please describe: _						
	Well(s): Provide the forecompleted from a sing	•				of wells proposed to	be drilled or proposed to
	Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
	1 262620 Ct +			2202 FNIL 0			

Well Name	API	ULSTR	Footages	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]
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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 <u>EFFECTIVE APRIL 1, 2022</u>

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:
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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. \square 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 \square will \square 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 \square does \square does not a	anticipate that its existing well(s) connected to the same segment, or portion,	of the
natural gas gathering system(s) described above will	I continue to meet anticipated increases in line pressure caused by the new we	ill(s).

Attach O	perator's	plan to	manage	production	in rest	onse to	the	increased	line	pressure

XIV.	Confidentiality: \square	Operator asserts	confidentiality	pursuant to	Section 7	71-2-8 NMSA	1978 for the	information	provided in
Section	n 2 as provided in Pa	ragraph (2) of Su	bsection D of 19	0.15.27.9 NM	IAC, and	l attaches a full	description of	f the specific	information
for wh	ich confidentiality is	asserted and the	basis for such as	sertion.					

(i)

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, a	fter reasonable inquiry and based on the available information at the time of submittal:							
one hundred percent of	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							
hundred percent of the a into account the current	able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. box, Operator will select one of the following:							
Well Shut-In. □ Opera D of 19.15.27.9 NMAC	tor will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection ; or							
Venting and Flaring P	lan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential							
alternative beneficial us	es 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							

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

other alternative beneficial uses approved by the division.

- (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: Casca Gu
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. <u>Operational Practices: Attach a complete description of the actions Operator will</u> 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. <u>Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.</u>

- 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