<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**

Form C-101 August 1, 2011

Permit 312350

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

AFFLICATION FOR FEMILIT TO DIVILE, RE-ENTER, DEEFEN, FEOGRACH, OR ADD A ZONE						
Operator Name and Address		2. OGRID Number				
AMEREDEV OPERATING, LLC	372224					
2901 Via Fortuna	3. API Number					
Austin, TX 78746	30-025-49932					
4. Property Code	5. Property Name	6. Well No.				
331807	AZALEA 26 36 28 STATE COM	123H				

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
С	28	26S	36E	С	230	N	2216	W	Lea

8. Proposed Bottom Hole Location

I	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	1855	W	Lea

9. Pool Information

WC-025 G-09 S263619C;WOLFCAMP 98234

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	20198	Wolfcamp		4/15/2022
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	68	1916	1559	0
Int1	9.875	7.625	29.7	10992	2410	0
Prod	6.75	5.5	23	20198	1572	0

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	pe Working Pressure Test Pressure		Manufacturer
Double Ram	- 11 -		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 CONSERVA	ATION DIVISION
Printed Name:	Electronically filed by Christie Ha	nna	Approved By:	Paul F Kautz	
Title:	Title:		Title:	Geologist	
Email Address:	Email Address: channa@ameredev.com		Approved Date:	3/28/2022	Expiration Date: 3/28/2024
Date: 3/18/2022 Phone: 737-300-4723			Conditions of Appr	oval Attached	

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 Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

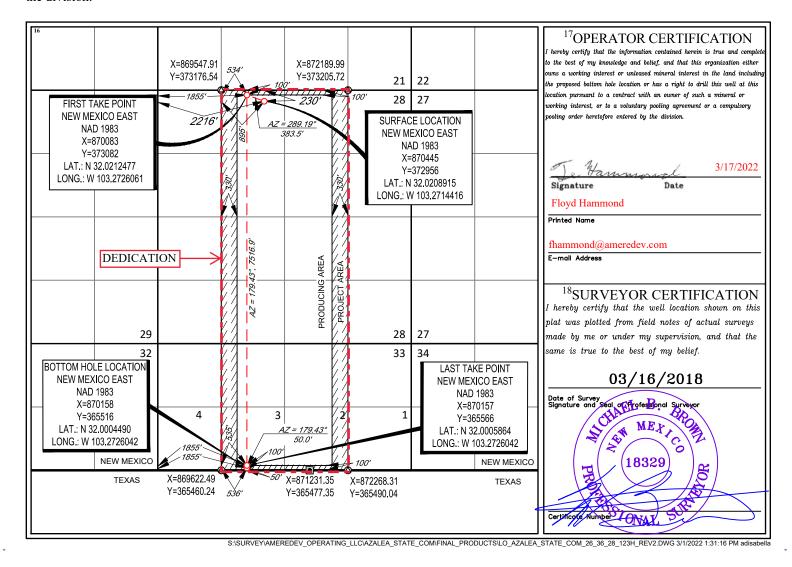
¹ API Number 30-025-49932		² Pool Code	³ Pool Name		
		98234	WC-025 G-09 S26361	9C;WOLFCAMP	
⁴ Property Code		⁵ Pr	operty Name	⁶ Well Number	
331807		AZALEA 26 3	36 28 STATE COM	123H	
⁷ OGRID N₀.		⁸ O _I	perator Name	⁹ Elevation	
372224		AMEREDEV	OPERATING, LLC.	2913'	

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	2216'	WEST	LEA

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	1855'	WEST	LEA
¹² Dedicated Acres 467.46	¹³ Joint or 1	nfill ¹⁴ C	Consolidation Co	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.



Form APD Conditions

Permit 312350

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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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**

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
AMEREDEV OPERATING, LLC [372224]	30-025-49932
2901 Via Fortuna	Well:
Austin, TX 78746	AZALEA 26 36 28 STATE COM #123H

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	Pit construction and closure must satisfy all requirements of your approved plan
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	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface 2) PRODUCTION CASING - Cement must tie back into intermediate casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud



Wellbore Schematic

Well: Azalea 26 36 28 State Com 123H
SHL: Sec. 28 26S-36E 230' FNL & 2216' FWL
BHL: Sec. 33 26S-36E 50' FSL & 1855' FWL

Lea, NM

Wellhead: A - 13-5/8" 10M x 13-5/8" SOW

B - 13-5/8" 10M x 13-5/8" 10M C - 13-5/8" 10M x 13-5/8" 10M

Tubing Spool - 7-1/16" 15M x 13-3/8" 10M

Xmas Tree: 2-9/16" 10M

Tubing: 2-7/8" L-80 6.5# 8rd EUE

Co. Well ID: XXXXXX

AFE No.: XXXX-XXX

API No.: XXXXXXXXXXX

GL: 2,913'
Field: Delaware
Objective: Wolfcamp B

TVD: 12,328' **MD**: 20,198'

Rig: TBD KB 27'

E-Mail: Wellsite2@ameredev.com

Hole Size	Formation Tops		Logs Cement	Mud Weight
17.5"	Rustler 13.375" 68# J-55 BTC	1,791' 1,916'	1,559 Sacks TOC 0' 100% Excess	8.4-8.6 ppg WBM
	Salado DV Tool with ACP	2,154' 3,152'	801 Sacks TOC 0'	
12.25"	Tansill	3,152'		
12.23	Capitan Reef	3,634'		sion
	Lamar	4,954'		ne Emuls
	Bell Canyon	5,094'		
	No Casing	5,079'		Bri
	Brushy Canyon	7,115'		7.5-9.4 Diesel Brine Emulsion
	Bone Spring Lime	8,096'		
9.875"	First Bone Spring	9,607'		7.5
	Second Bone Spring	10,211'	cks ess	
	Third Bone Spring Upper	10,867'	2,410 Sacks TOC 0' 50% Excess	
	7.625" 29.7# L-80HC FJM	10,992'	2,4 TO 50%	
6.75"	Third Bone Spring	11,462'		
12° Build	Wolfcamp A	11,666'		og OBM
@ 7,157' MD thru	Wolfcamp B	12,134'		5 ppg (
12,614' MD		22.425	တ္ တ	10.5-12.5 pp
	5.5" 23# P-110 USS-Eagle SFH : Wolfcamp B 12328 TVD // 20198 MD	20,198'	Sacks)' Excess	10.
Target			1,572 Sacks TOC 0' 25% Excess	

Casing Design and Safety Factor Check

Casing Specifications									
Segment Hole ID Depth OD Weight Grade Coupli									
Surface	17.5	1,916'	13.375	68	J-55	BTC			
Intermediate	9.875	10,992'	7.625	29.7	HCL-80	FJM			
Prod Segment A	6.75	7,157'	5.5	23	P-110	SFH			
Prod Segment B	6.75	20,198'	5.5	23	P-110	SFH			

Check Surface Casing									
OD Cplg	Body	Joint	Collapse	Burst					
inches	1000 lbs	1000 lbs	psi	psi					
14.375	1,069	915	4,100	3,450					
Safety Factors									
1.56	8.21	7.02	4.79	0.64					
Check Intermediate Casing									
OD Cplg	Body	Joint	Collapse	Burst					
inches	1000 lbs	1000 lbs	psi	psi					
7.625	940	558	6700	9460					
	Safety Factors								
1.13	2.88	1.95	1.25	1.18					
	Check Prod Casing, Segment A								
OD Cplg	Body	Joint	Collapse	Burst					
inches	1000 lbs	1000 lbs	psi	psi					
5.777	728	655	12780	14360					
	S	afety Facto	ors						
0.49	2.57	2.31	2.75	1.79					
	Check Pro	od Casing,	Segment B						
OD Cplg	Body	Joint	Collapse	Burst					
inches	1000 lbs	1000 lbs	psi	psi					
5.777	728	655	12780	14360					
_	S	afety Facto	ors						
0.49	6.12	5.51	1.60	1.79					

State of New Mexico Energy, Minerals and Natural Resources

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

information for each new ll pad or connected to a ULSTR C-28-26-S-36-E	w or recompleted central delivery process	d well or set of w point. Anticipated Oil BBL/D		to be drille Anticipa Wat	d or proposed			
ULSTR C-28-26-S-36-E	Footages 230'FNL & 2216'FWL	Anticipated Oil BBL/D +/- 1200	Anticipated Gas MCF/D	Anticipa Wat	ted Produced ter BBL/D			
ULSTR C-28-26-S-36-E	Footages 230'FNL & 2216'FWL	Anticipated Oil BBL/D +/- 1200	Anticipated Gas MCF/D	Anticipa Wat	ated Produced ter BBL/D			
C-28-26-S-36-E	230'FNL & 2216'FWL	Oil BBL/D +/- 1200	Gas MCF/D	Wat	ter BBL/D			
	2216'FWL	,	+/- 7000	-	+/- 2300			
AZA								
AZA	ALEA CTB							
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.								
Spud Date	TD Reached Date	Completio: Commencemen		al Flow k Date	First Production Date			
5/17/2022	6/17/2022	12/14/202		8/2023	1/30/2023			
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.								
	attach a complete descrip 7.8 NMAC. S: Attach a complete	attach a complete description of the action 7.8 NMAC. S: Attach a complete description of O	attach a complete description of the actions Operator will 7.8 NMAC. S: Attach a complete description of Operator's best many complete description of Ope	Attach a complete description of the actions Operator will take to comply 7.8 NMAC. S: Attach a complete description of Operator's best management practice.	Attach a complete description of the actions Operator will take to comply with the rows. Attach a complete description of Operator's best management practices to m			

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

		EFFECTIV	VE APRIL 1, 2022					
Beginning April 1, 20 reporting area must c	_	_	with its statewide natural gas	captur	re requirement for the applicable			
	s that it is not required for the applicable repo		tion because Operator is in co	omplia	ance with its statewide natural gas			
IX. Anticipated Nat	ural Gas Production	1:						
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 Available Maximum Daily Capacity								
			Start Date		System Segment Tie-in			
		<u> </u>						
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).								
• •	s plan to manage proc	duction in response to	the increased line pressure.					
Section 2 as provided	• — •	Subsection D of 19.1:	5.27.9 NMAC, and attaches a		78 for the information provided in description of the specific			

Section 3 - Certifications Effective May 25, 2021

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. <i>If Operator checks this box, Operator will select one of the following:</i>					
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:	Asil David
Printed Name:	Dayeed Khan
Title:	Engineer
E-mail Address:	dkhan@ameredev.com
Date:	3/17/2022
Phone:	727 200 4725
	737-300-4735
	OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Natural Gas Management Plan

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

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

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

19.15.27.8 (A)

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

19.15.27.8 (B) Venting and Flaring during drilling operations

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

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

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

19.15.27.8 (D) Venting and Flaring during production operations.

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

loop system that will recover any residual gas from the tanks and route such gas to a sales outlet, minimizing tank emissions.

- Flares are equipped with auto-ignition systems and continuous pilot operations.
- Automatic gauging equipment is installed on all tanks.

19.15.27.8 (E) Performance Standards

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

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

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

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

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



American Resource Development LLC.

Ameredev Operating

Lea County, NM (N83-NME)
Camelia_Azalea
Azalea State Com 26-36-28 123H
123H

Plan: Baseline Plan #2 - 179.43

Permit Plan

16 March, 2022



TVD Reference:

MD Reference:

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

Site: Camelia_Azalea

Well: Azalea State Com 26-36-28 123H

Wellbore: 123H

Design: Baseline Plan #2 - 179.43 Local Co-ordinate Reference:

Well Azalea State Com 26-36-28 123H GL 2913 + 27 KB @ 2940.0usft

GL 2913 + 27 KB @ 2940.0usft

North Reference:

Survey Calculation Method: Minimum Curvature

AUS-COMPASS - EDM_15 - 32bit Database:

Project Lea County, NM (N83-NME)

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

New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Camelia Azalea

Northing: 372,956.00 usft 32.02089044 Site Position: Latitude: Easting: 870,445.00 usft -103.27144134 From: Map Longitude: 13-3/16" 0.56 **Position Uncertainty:** 0.0 usft Slot Radius: **Grid Convergence:**

Well Azalea State Com 26-36-28 123H **Well Position** +N/-S 0.0 usft Northing: 372,956.00 usft Latitude: 32.02089044 +E/-W 0.0 usft 870,445.00 usft -103.27144134 Easting: Longitude: **Position Uncertainty** 0.0 usft Wellhead Elevation: Ground Level: 2,913.0 usft

Wellbore 123H Declination Field Strength Magnetics **Model Name** Sample Date Dip Angle (°) (°) (nT) 47,337.70363367 IGRF2020 2/14/2022 6.31 59.74

Baseline Plan #2 - 179.43 Design **Audit Notes:** PLAN 0.0 Version: Phase: Tie On Depth: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 182.21 0.0 0.0 0.0

Survey Tool Program 3/15/2022 From То (usft) (usft) Survey (Wellbore) **Tool Name** Description 0.0 20,197.9 Baseline Plan #2 - 179.43 (123H) MWD OWSG MWD - Standard

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude (°)	Longitude (°)
0.0	0.00	0.00	0.0	-230.0	2,216.0	32.02089044	-103.27144134
100.0	0.00	0.00	100.0	-230.0	2,216.0	32.02089044	-103.27144134
200.0	0.00	0.00	200.0	-230.0	2,216.0	32.02089044	-103.27144134
300.0	0.00	0.00	300.0	-230.0	2,216.0	32.02089044	-103.27144134
400.0	0.00	0.00	400.0	-230.0	2,216.0	32.02089044	-103.27144134
Start Build 1.50							
500.0	1.50	329.50	500.0	-228.9	2,215.3	32.02089355	-103.27144345
600.0	3.00	329.50	599.9	-225.5	2,213.3	32.02090290	-103.27144977
700.0	4.50	329.50	699.7	-219.9	2,210.0	32.02091848	-103.27146030
733.3	5.00	329.50	732.9	-217.5	2,208.6	32.02092506	-103.27146475
Start 6090.3 hold a	t 733.3 MD						
800.0	5.00	329.50	799.3	-212.5	2,205.7	32.02093890	-103.27147410



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

Site: Camelia_Azalea

Well: Azalea State Com 26-36-28 123H

Wellbore: 123H

Design: Baseline Plan #2 - 179.43

Local Co-ordinate Reference:

TVD Reference:

North Reference: Survey Calculation Method:

Database:

Well Azalea State Com 26-36-28 123H

GL 2913 + 27 KB @ 2940.0usft GL 2913 + 27 KB @ 2940.0usft

Grid

Minimum Curvature

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude (°)	Longitude (°)
900.0	5.00	329.50	898.9	-205.0	2,201.3	32.02095966	-103.27148813
1,000.0	5.00	329.50	998.6	-197.5	2,196.8	32.02098042	-103.27150217
1,100.0	5.00	329.50	1,098.2	-189.9	2,192.4	32.02100118	-103.27151620
1,200.0	5.00	329.50	1,197.8	-182.4	2,188.0	32.02102194	-103.27153023
1,300.0	5.00	329.50	1,297.4	-174.9	2,183.6	32.02104270	-103.27154426
1,400.0	5.00	329.50	1,397.0	-167.4	2,179.1	32.02106346	-103.27155830
1,500.0	5.00	329.50	1,496.7	-159.9	2,174.7	32.02108421	-103.27157233
1,600.0	5.00	329.50	1,596.3	-152.4	2,170.3	32.02110497	-103.27158636
1,700.0	5.00	329.50	1,695.9	-144.9	2,165.9	32.02112573	-103.27160039
1,795.5	5.00	329.50	1,791.0	-137.7	2,161.6	32.02114555	-103.27161379
Rustler							
1,800.0	5.00	329.50	1,795.5	-137.4	2,161.4	32.02114649	-103.27161443
1,900.0	5.00	329.50	1,895.1	-129.9	2,157.0	32.02116725	-103.27162846
2,000.0	5.00	329.50	1,994.8	-122.4	2,152.6	32.02118801	-103.27164249
2,100.0	5.00	329.50	2,094.4	-114.8	2,148.2	32.02120877	-103.27165652
2,159.9	5.00	329.50	2,154.0	-110.4	2,145.5	32.02122120	-103.27166492
Salado							
2,200.0	5.00	329.50	2,194.0	-107.3	2,143.7	32.02122953	-103.27167056
2,293.0	5.00	329.50	2,286.6	-100.4	2,139.6	32.02124884	-103.27168361
Hard Lines Exit at	2293.0 MD						
2,300.0	5.00	329.50	2,293.6	-99.8	2,139.3	32.02125029	-103.27168459
2,400.0	5.00	329.50	2,393.2	-92.3	2,134.9	32.02127105	-103.27169862
2,500.0	5.00	329.50	2,492.9	-84.8	2,130.5	32.02129181	-103.27171266
2,600.0	5.00	329.50	2,592.5	-77.3	2,126.1	32.02131257	-103.27172669
2,700.0	5.00	329.50	2,692.1	-69.8	2,121.6	32.02133333	-103.27174072
2,800.0	5.00	329.50	2,791.7	-62.3	2,117.2	32.02135409	-103.27175475
2,900.0	5.00	329.50	2,891.3	-54.8	2,112.8	32.02137485	-103.27176879
3,000.0	5.00	329.50	2,991.0	-47.3	2,108.4	32.02139561	-103.27178282
3,100.0	5.00	329.50	3,090.6	-39.7	2,103.9	32.02141637	-103.27179685
3,161.7	5.00	329.50	3,152.0	-35.1	2,101.2	32.02142917	-103.27180550
Tansill 3,200.0	5.00	329.50	3,190.2	-32.2	2,099.5	32.02143713	-103.27181088
3,300.0	5.00	329.50	3,289.8	-24.7	2,095.1	32.02145789	-103.27182492
3,400.0	5.00	329.50	3,389.4	-17.2	2,090.7	32.02147865	-103.27183895
3,500.0	5.00	329.50	3,489.0	-9.7	2,086.2	32.02149941	-103.27185298
3,600.0	5.00	329.50	3,588.7	-2.2	2,081.8	32.02152017	-103.27186702
3,616.0	5.00	329.50	3,604.6	-1.0	2,081.1	32.02152349	-103.27186926
Lease Line Exit at	3616.0 MD						
3,700.0	5.00	329.50	3,688.3	5.3	2,077.4	32.02154093	-103.27188105
3,800.0	5.00	329.50	3,787.9	12.8	2,073.0	32.02156169	-103.27189508
3,900.0	5.00	329.50	3,887.5	20.3	2,068.5	32.02158245	-103.27190911
4,000.0	5.00	329.50	3,987.1	27.8	2,064.1	32.02160321	-103.27192315
4,100.0	5.00	329.50	4,086.8	35.3	2,059.7	32.02162397	-103.27193718
4,200.0	5.00	329.50	4,186.4	42.9	2,055.3	32.02164473	-103.27195121
4,300.0	5.00	329.50	4,286.0	50.4	2,050.9	32.02166549	-103.27196524



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

Site: Camelia_Azalea

Well: Azalea State Com 26-36-28 123H

Wellbore: 123H

Design: Baseline Plan #2 - 179.43

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference: Survey Calculation Method:

Database:

Well Azalea State Com 26-36-28 123H

GL 2913 + 27 KB @ 2940.0usft GL 2913 + 27 KB @ 2940.0usft

Grid

Minimum Curvature

nned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude (°)	Longitude (°)
4,400.0	5.00	329.50	4,385.6	57.9	2,046.4	32.02168625	-103.271979
4,500.0	5.00	329.50	4,485.2	65.4	2,042.0	32.02170701	-103.271993
4,600.0	5.00	329.50	4,584.9	72.9	2,037.6	32.02172777	-103.272007
4,700.0	5.00	329.50	4,684.5	80.4	2,033.2	32.02174853	-103.272021
4,800.0	5.00	329.50	4,784.1	87.9	2,028.7	32.02176929	-103.272035
4,900.0	5.00	329.50	4,883.7	95.4	2,024.3	32.02179005	-103.272049
4,970.5	5.00	329.50	4,954.0	100.7	2,021.2	32.02180469	-103.272059
Lamar							
5,000.0	5.00	329.50	4,983.3	102.9	2,019.9	32.02181081	-103.272063
5,100.0	5.00	329.50	5,083.0	110.4	2,015.5	32.02183157	-103.272077
5,111.1	5.00	329.50	5,094.0	111.3	2,015.0	32.02183387	-103.272079
Bell Canyon							
5,200.0	5.00	329.50	5,182.6	118.0	2,011.0	32.02185232	-103.272091
5,300.0	5.00	329.50	5,282.2	125.5	2,006.6	32.02187308	-103.27210
5,400.0	5.00	329.50	5,381.8	133.0	2,002.2	32.02189384	-103.272119
5,500.0	5.00	329.50	5,481.4	140.5	1,997.8	32.02191460	-103.272133
5,600.0	5.00	329.50	5,581.1	148.0	1,993.3	32.02193536	-103.272147
5,700.0	5.00	329.50	5,680.7	155.5	1,988.9	32.02195612	-103.27216
5,800.0	5.00	329.50	5,780.3	163.0	1,984.5	32.02197688	-103.27217
5,900.0	5.00	329.50	5,879.9	170.5	1,980.1	32.02199764	-103.272189
6,000.0	5.00	329.50	5,979.5	178.0	1,975.7	32.02201840	-103.272203
6,100.0	5.00	329.50	6,079.2	185.5	1,971.2	32.02203916	-103.272217
6,200.0	5.00	329.50	6,178.8	193.0	1,966.8	32.02205992	-103.27223
6,300.0	5.00	329.50	6,278.4	200.6	1,962.4	32.02208068	-103.272245
6,400.0	5.00	329.50	6,378.0	208.1	1,958.0	32.02210144	-103.272259
6,500.0	5.00	329.50	6,477.6	215.6	1,953.5	32.02212220	-103.272273
6,600.0	5.00	329.50	6,577.3	223.1	1,949.1	32.02214296	-103.27228
6,700.0	5.00	329.50	6,676.9	230.6	1,944.7	32.02216372	-103.272302
6,800.0	5.00	329.50	6,776.5	238.1	1,940.3	32.02218448	-103.272310
6,823.6	5.00	329.50	6,800.0	239.9	1,939.2	32.02218938	-103.272319
Start Drop -1.50							
6,900.0	3.85	329.50	6,876.2	245.0	1,936.2	32.02220343	-103.272328
7,000.0	2.35	329.50	6,976.0	249.6	1,933.5	32.02221632	-103.27233
7,100.0	0.85	329.50	7,076.0	252.0	1,932.1	32.02222299	-103.272342
7,139.0	0.27	329.50	7,115.0	252.4	1,931.9	32.02222390	-103.272342
Brushy Canyon							
7,156.9	0.00	0.00	7,132.9	252.4	1,931.8	32.02222400	-103.272342
Start 2467.1 hold		0.00	7.470.0	050.4	4 004 0	20,00000400	402 070240
7,200.0 7,300.0	0.00	0.00 0.00	7,176.0 7,276.0	252.4 252.4	1,931.8 1,931.8	32.02222400 32.02222400	-103.272342 -103.272342
7,400.0	0.00	0.00	7,376.0	252.4	1,931.8	32.02222400	-103 272240
			,		•		-103.272342
7,500.0	0.00	0.00	7,476.0	252.4	1,931.8	32.02222400	-103.272342
7,600.0	0.00	0.00	7,576.0	252.4	1,931.8	32.02222400	-103.272342
7,700.0	0.00	0.00	7,676.0	252.4	1,931.8	32.02222400	-103.272342
7,800.0	0.00	0.00	7,776.0	252.4	1,931.8	32.02222400	-103.272342



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

Site: Camelia_Azalea

Well: Azalea State Com 26-36-28 123H

Wellbore: 123H

Design: Baseline Plan #2 - 179.43

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method:

Database:

Well Azalea State Com 26-36-28 123H

GL 2913 + 27 KB @ 2940.0usft GL 2913 + 27 KB @ 2940.0usft

Grid

Minimum Curvature

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude (°)	Longitude (°)
7,900.0	0.00	0.00	7,876.0	252.4	1,931.8	32.02222400	-103.27234278
8,000.0	0.00	0.00	7,976.0	252.4	1,931.8	32.02222400	-103.27234278
8,100.0	0.00	0.00	8,076.0	252.4	1,931.8	32.02222400	-103.27234278
8,120.0	0.00	0.00	8,096.0	252.4	1,931.8	32.02222400	-103.27234278
Bone Spring Lime							
8,200.0	0.00	0.00	8,176.0	252.4	1,931.8	32.02222400	-103.27234278
8,300.0	0.00	0.00	8,276.0	252.4	1,931.8	32.02222400	-103.27234278
8,400.0	0.00	0.00	8,376.0	252.4	1,931.8	32.02222400	-103.27234278
8,500.0	0.00	0.00	8,476.0	252.4	1,931.8	32.02222400	-103.27234278
8,600.0	0.00	0.00	8,576.0	252.4	1,931.8	32.02222400	-103.27234278
8,700.0	0.00	0.00	8,676.0	252.4	1,931.8	32.02222400	-103.27234278
8,800.0	0.00	0.00	8,776.0	252.4	1,931.8	32.02222400	-103.27234278
8,900.0	0.00	0.00	8,876.0	252.4	1,931.8	32.02222400	-103.27234278
9,000.0	0.00	0.00	8,976.0	252.4	1,931.8	32.02222400	-103.27234278
9,100.0	0.00	0.00	9,076.0	252.4	1,931.8	32.02222400	-103.27234278
9,200.0	0.00	0.00	9,176.0	252.4	1,931.8	32.02222400	-103.27234278
9,300.0	0.00	0.00	9,276.0	252.4	1,931.8	32.02222400	-103.27234278
9,400.0	0.00	0.00	9,376.0	252.4	1,931.8	32.02222400	-103.27234278
9,500.0	0.00	0.00	9,476.0	252.4	1,931.8	32.02222400	-103.27234278
9,600.0	0.00	0.00	9,576.0	252.4	1,931.8	32.02222400	-103.27234278
9,624.0	0.00	0.00	9,600.0	252.4	1,931.8	32.02222400	-103.27234278
Start Build 1.50							
9,631.0	0.11	328.89	9,607.0	252.4	1,931.8	32.02222402	-103.27234279
First Bone Spring 9,700.0	1.14	328.89	9,676.0	253.0	1,931.5	32.02222579	-103.27234402
9,800.0	2.64	328.89	9,775.9	255.9	1,929.7	32.02223359	-103.27234943
9,900.0	4.14	328.89	9,875.7	260.9	1,926.7	32.02224759	-103.27235912
9,943.9	4.80	328.89	9,919.5	263.9	1,924.9	32.02225569	-103.27236474
Start 1601.0 hold a			5,2.2.2		.,		
10,000.0	4.80	328.89	9,975.4	267.9	1,922.5	32.02226680	-103.27237243
10,100.0	4.80	328.89	10,075.1	275.0	1,918.2	32.02228660	-103.27238615
10,200.0	4.80	328.89	10,174.7	282.2	1,913.9	32.02230640	-103.27239987
10,236.4	4.80	328.89	10,211.0	284.8	1,912.3	32.02231361	-103.27240486
Second Bone Sprin			-, -		,-		
10,300.0	4.80	328.89	10,274.4	289.4	1,909.5	32.02232620	-103.27241358
10,400.0	4.80	328.89	10,374.0	296.5	1,905.2	32.02234601	-103.27242730
10,500.0	4.80	328.89	10,473.7	303.7	1,900.9	32.02236581	-103.27244102
10,600.0	4.80	328.89	10,573.3	310.9	1,896.6	32.02238561	-103.27245474
10,700.0	4.80	328.89	10,673.0	318.0	1,892.2	32.02240541	-103.27246846
10,800.0	4.80	328.89	10,772.6	325.2	1,887.9	32.02242522	-103.27248218
10,894.7	4.80	328.89	10,867.0	332.0	1,883.8	32.02244397	-103.27249517
Third Bone Spring							
10,900.0	4.80	328.89	10,872.3	332.3	1,883.6	32.02244502	-103.27249590
11,000.0	4.80	328.89	10,971.9	339.5	1,879.3	32.02246482	-103.27250961
11,100.0	4.80	328.89	11,071.6	346.7	1,875.0	32.02248462	-103.27252333



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

Site: Camelia_Azalea

Well: Azalea State Com 26-36-28 123H

Wellbore: 123H

Design: Baseline Plan #2 - 179.43

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference: Gr

Survey Calculation Method: Database:

Well Azalea State Com 26-36-28 123H

GL 2913 + 27 KB @ 2940.0usft GL 2913 + 27 KB @ 2940.0usft

Grid

Minimum Curvature

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude (°)	Longitude (°)
11,200.0	4.80	328.89	11,171.2	353.8	1,870.6	32.02250443	-103.2725
11,300.0	4.80	328.89	11,270.9	361.0	1,866.3	32.02252423	-103.2725
11,400.0	4.80	328.89	11,370.5	368.2	1,862.0	32.02254403	-103.2725
11,491.8	4.80	328.89	11,462.0	374.7	1,858.0	32.02256221	-103.2725
Third Bone Sprin	ng						
11,500.0	4.80	328.89	11,470.2	375.3	1,857.7	32.02256383	-103.2725
11,545.0	4.80	328.89	11,515.0	378.5	1,855.7	32.02257274	-103.2725
Start Drop -1.50							
11,600.0	3.97	328.89	11,569.8	382.1	1,853.5	32.02258270	-103.2725
11,696.3	2.53	328.89	11,666.0	386.8	1,850.7	32.02259563	-103.2726
Wolfcamp							
11,700.0	2.47	328.89	11,669.7	387.0	1,850.6	32.02259601	-103.2726
11,800.0	0.97	328.89	11,769.6	389.5	1,849.1	32.02260313	-103.2726
11,864.9	0.00	0.00	11,834.5	390.0	1,848.8	32.02260443	-103.2726
Start DLS 12.00	TFO 179.43						
11,900.0	4.21	179.43	11,869.6	388.7	1,848.8	32.02260088	-103.2726
12,000.0	16.21	179.43	11,967.8	371.0	1,849.0	32.02255223	-103.2726
12,100.0	28.21	179.43	12,060.2	333.3	1,849.4	32.02244850	-103.2726
12,188.6	38.85	179.43	12,134.0	284.4	1,849.9	32.02231413	-103.2726
Wolfcamp B							
12,200.0	40.21	179.43	12,142.8	277.1	1,849.9	32.02229423	-103.2726
12,300.0	52.21	179.43	12,211.8	205.1	1,850.6	32.02209616	-103.2726
12,400.0	64.21	179.43	12,264.4	120.2	1,851.5	32.02186294	-103.2726
12,500.0	76.21	179.43	12,298.2	26.3	1,852.4	32.02160478	-103.2726
12,531.0	79.93	179.43	12,304.6	-4.0	1,852.7	32.02152149	-103.2726
Lease Line Entry	at 12531.0 MD						
12,600.0	88.21	179.43	12,311.7	-72.6	1,853.4	32.02133294	-103.2726
12,613.9	89.88	179.43	12,312.0	-86.4	1,853.5	32.02129482	-103.2726
Start 17.1 hold a							
12,631.0	89.88	179.43	12,312.0	-103.6	1,853.7	32.02124770	-103.2726
	d at 12631.0 MD - 0		10 242 0	404.5	4 052 7	22 02424500	102 2722
12,632.0	89.88	179.43	12,312.0	-104.5	1,853.7	32.02124506	-103.2726
Hard Lines Entry 12,700.0	89.88	179.43	12,312.1	-172.6	1,854.4	32.02105808	-103.2726
12,800.0	89.88	179.43	12,312.4	-272.6	1,855.4	32.02078322	-103.2726
12,900.0	89.88	179.43	12,312.6	-372.5	1,856.4	32.02050835	-103.2726
13,000.0	89.88	179.43	12,312.8	-472.5	1,857.4	32.02023349	-103.2726
13,100.0 13,200.0	89.88 89.88	179.43 179.43	12,313.0 12,313.2	-572.5 -672.5	1,858.4 1,859.4	32.01995863	-103.2726
13,200.0	89.88	179.43	12,313.2	-672.5 -772.5	1,859.4	32.01968376 32.01940890	-103.2726 -103.2726
13,400.0	89.88	179.43	12,313.6	-872.5	1,861.4	32.01913403	-103.2726
13,500.0	89.88	179.43	12,313.8	-972.5	1,862.4	32.01885917	-103.2726
13,600.0	89.88	179.43	12,314.0	-1,072.5	1,863.4	32.01858430	-103.2726
13,700.0	89.88	179.43	12,314.3	-1,172.5	1,864.4	32.01830944	-103.2726
13,800.0	89.88	179.43	12,314.5	-1,272.5	1,865.4	32.01803457	-103.2726



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

Site: Camelia_Azalea

Well: Azalea State Com 26-36-28 123H

Wellbore: 123H

Design: Baseline Plan #2 - 179.43

Local Co-ordinate Reference:

TVD Reference:

North Reference:

Survey Calculation Method: Database:

Well Azalea State Com 26-36-28 123H

GL 2913 + 27 KB @ 2940.0usft GL 2913 + 27 KB @ 2940.0usft

Grid

Minimum Curvature

ned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude (°)	Longitude (°)
13,900.0	89.88	179.43	12,314.7	-1,372.5	1,866.4	32.01775971	-103.272605
14,000.0	89.88	179.43	12,314.9	-1,472.5	1,867.4	32.01748484	-103.272605
14,100.0	89.88	179.43	12,315.1	-1,572.5	1,868.4	32.01720998	-103.272605
14,200.0	89.88	179.43	12,315.3	-1,672.5	1,869.4	32.01693511	-103.272605
14,300.0	89.88	179.43	12,315.5	-1,772.5	1,870.3	32.01666025	-103.272605
14,400.0	89.88	179.43	12,315.7	-1,872.5	1,871.3	32.01638538	-103.272605
14,500.0	89.88	179.43	12,316.0	-1,972.5	1,872.3	32.01611052	-103.272605
14,600.0	89.88	179.43	12,316.2	-2,072.5	1,873.3	32.01583565	-103.272605
14,700.0	89.88	179.43	12,316.4	-2,172.5	1,874.3	32.01556078	-103.272605
14,800.0	89.88	179.43	12,316.6	-2,272.4	1,875.3	32.01528592	-103.272605
14,900.0	89.88	179.43	12,316.8	-2,372.4	1,876.3	32.01501105	-103.272605
15,000.0	89.88	179.43	12,317.0	-2,472.4	1,877.3	32.01473619	-103.272604
15,100.0	89.88	179.43	12,317.2	-2,572.4	1,878.3	32.01446132	-103.272604
15,200.0	89.88	179.43	12,317.4	-2,672.4	1,879.3	32.01418646	-103.272604
15,300.0	89.88	179.43	12,317.6	-2,772.4	1,880.3	32.01391159	-103.272604
15,400.0	89.88	179.43	12,317.9	-2,872.4	1,881.3	32.01363673	-103.272604
15,500.0	89.88	179.43	12,318.1	-2,972.4	1,882.3	32.01336186	-103.272604
15,600.0	89.88	179.43	12,318.3	-3,072.4	1,883.3	32.01308700	-103.27260
15,700.0	89.88	179.43	12,318.5	-3,172.4	1,884.3	32.01281213	-103.27260
15,800.0	89.88	179.43	12,318.7	-3,272.4	1,885.3	32.01253727	-103.27260
15,900.0	89.88	179.43	12,318.9	-3,372.4	1,886.3	32.01226240	-103.27260
16,000.0	89.88	179.43	12,319.1	-3,472.4	1,887.3	32.01198754	-103.27260
16,100.0	89.88	179.43	12,319.3	-3,572.4	1,888.3	32.01171267	-103.27260
16,200.0	89.88	179.43	12,319.5	-3,672.4	1,889.3	32.01143781	-103.272604
16,300.0	89.88	179.43	12,319.8	-3,772.4	1,890.3	32.01116294	-103.27260
16,400.0	89.88	179.43	12,320.0	-3,872.4	1,891.3	32.01088808	-103.27260
16,500.0	89.88	179.43	12,320.2	-3,972.4	1,892.3	32.01061321	-103.27260
16,600.0	89.88	179.43	12,320.4	-4,072.4	1,893.3	32.01033835	-103.27260
16,700.0	89.88	179.43	12,320.6	-4,172.3	1,894.3	32.01006348	-103.27260
16,800.0	89.88	179.43	12,320.8	-4,272.3	1,895.3	32.00978861	-103.27260
16,900.0	89.88	179.43	12,321.0	-4,372.3	1,896.3	32.00951375	-103.27260
17,000.0	89.88	179.43	12,321.2	-4,472.3	1,897.2	32.00923888	-103.27260
17,100.0	89.88	179.43	12,321.4	-4,572.3	1,898.2	32.00896402	-103.27260
17,200.0	89.88	179.43	12,321.7	-4,672.3	1,899.2	32.00868915	-103.27260
17,300.0	89.88	179.43	12,321.9	-4,772.3	1,900.2	32.00841429	-103.27260
17,400.0	89.88	179.43	12,322.1	-4,872.3	1,901.2	32.00813942	-103.27260
17,500.0	89.88	179.43	12,322.3	-4,972.3	1,902.2	32.00786456	-103.272603
17,600.0	89.88	179.43	12,322.5	-5,072.3	1,903.2	32.00758969	-103.272603
17,700.0	89.88	179.43	12,322.7	-5,172.3	1,904.2	32.00731483	-103.272603
17,800.0	89.88	179.43	12,322.9	-5,272.3	1,905.2	32.00703996	-103.272603
17,900.0	89.88	179.43	12,323.1	-5,372.3	1,906.2	32.00676510	-103.27260
18,000.0	89.88	179.43	12,323.4	-5,472.3	1,907.2	32.00649023	-103.272603
18,100.0	89.88	179.43	12,323.6	-5,572.3	1,908.2	32.00621536	-103.272603
18,200.0	89.88	179.43	12,323.8	-5,672.3	1,909.2	32.00594050	-103.272603
18,300.0	89.88	179.43	12,324.0	-5,772.3	1,910.2	32.00566563	-103.272603



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

Site: Camelia_Azalea

Well: Azalea State Com 26-36-28 123H

Wellbore: 123H

Design: Baseline Plan #2 - 179.43

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method:

Database:

Well Azalea State Com 26-36-28 123H

GL 2913 + 27 KB @ 2940.0usft GL 2913 + 27 KB @ 2940.0usft

Grid

Minimum Curvature

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude (°)	Longitude (°)
18,400.0	89.88	179.43	12,324.2	-5,872.3	1,911.2	32.00539077	-103.272603
18,500.0	89.88	179.43	12,324.4	-5,972.3	1,912.2	32.00511590	-103.27260
18,600.0	89.88	179.43	12,324.6	-6,072.2	1,913.2	32.00484104	-103.27260
18,700.0	89.88	179.43	12,324.8	-6,172.2	1,914.2	32.00456617	-103.27260
18,800.0	89.88	179.43	12,325.0	-6,272.2	1,915.2	32.00429131	-103.27260
18,900.0	89.88	179.43	12,325.3	-6,372.2	1,916.2	32.00401644	-103.27260
19,000.0	89.88	179.43	12,325.5	-6,472.2	1,917.2	32.00374157	-103.27260
19,100.0	89.88	179.43	12,325.7	-6,572.2	1,918.2	32.00346671	-103.27260
19,200.0	89.88	179.43	12,325.9	-6,672.2	1,919.2	32.00319184	-103.27260
19,300.0	89.88	179.43	12,326.1	-6,772.2	1,920.2	32.00291698	-103.27260
19,400.0	89.88	179.43	12,326.3	-6,872.2	1,921.2	32.00264211	-103.27260
19,500.0	89.88	179.43	12,326.5	-6,972.2	1,922.2	32.00236725	-103.27260
19,600.0	89.88	179.43	12,326.7	-7,072.2	1,923.2	32.00209238	-103.27260
19,700.0	89.88	179.43	12,326.9	-7,172.2	1,924.2	32.00181751	-103.27260
19,800.0	89.88	179.43	12,327.2	-7,272.2	1,925.1	32.00154265	-103.27260
19,900.0	89.88	179.43	12,327.4	-7,372.2	1,926.1	32.00126778	-103.27260
20,000.0	89.88	179.43	12,327.6	-7,472.2	1,927.1	32.00099292	-103.27260
20,100.0	89.88	179.43	12,327.8	-7,572.2	1,928.1	32.00071805	-103.27260
20,147.9	89.88	179.43	12,327.9	-7,620.0	1,928.6	32.00058649	-103.27260
02-LTP (AZ123H)							
20,147.9	89.88	179.43	12,327.9	-7,620.1	1,928.6	32.00058633	-103.27260
Start 50.0 hold at 2	20147.9 MD						
20,197.9	89.88	179.43	12,328.0	-7,670.0	1,929.1	32.00044909	-103.27260
03-BHL (AZ123H)							
20,197.9	89.88	179.43	12,328.0	-7,670.1	1,929.1	32.00044893	-103.27260



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

Site: Camelia_Azalea

Well: Azalea State Com 26-36-28 123H

Wellbore: 123H

Design: Baseline Plan #2 - 179.43

Local Co-ordinate Reference:

 TVD Reference:
 GL 2913 + 27 KB @ 2940.0usft

 MD Reference:
 GL 2913 + 27 KB @ 2940.0usft

Well Azalea State Com 26-36-28 123H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: AUS-COMPASS - EDM_15 - 32bit

nations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	2,159.9	2,154.0	Salado			
	10,894.7	10,867.0	Third Bone Spring Upper			
	7,139.0	7,115.0	Brushy Canyon			
	12,188.6	12,134.0	Wolfcamp B			
	1,795.5	1,791.0	Rustler			
	9,631.0	9,607.0	First Bone Spring			
	3,161.7	3,152.0	Tansill			
	11,491.8	11,462.0	Third Bone Spring			
	5,111.1	5,094.0	Bell Canyon			
	4,970.5	4,954.0	Lamar			
	11,696.3	11,666.0	Wolfcamp			
	10,236.4	10,211.0	Second Bone Spring			
	8,120.0	8,096.0	Bone Spring Lime			

an Annotations				
Measured	Vertical	Local Coord	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
400.0	400.0	0.0	0.0	Start Build 1.50
733.3	732.9	12.5	-7.4	Start 6090.3 hold at 733.3 MD
2,293.0	2,286.6	129.6	-76.4	Hard Lines Exit at 2293.0 MD
3,616.0	3,604.6	229.0	-134.9	Lease Line Exit at 3616.0 MD
6,823.6	6,800.0	469.9	-276.8	Start Drop -1.50
7,156.9	7,132.9	482.4	-284.2	Start 2467.1 hold at 7156.9 MD
9,624.0	9,600.0	482.4	-284.2	Start Build 1.50
9,943.9	9,919.5	493.9	-291.1	Start 1601.0 hold at 9943.9 MD
11,545.0	11,515.0	608.5	-360.3	Start Drop -1.50
11,864.9	11,834.5	620.0	-367.2	Start DLS 12.00 TFO 179.43
12,531.0	12,304.6	226.0	-363.3	Lease Line Entry at 12531.0 MD
12,613.9	12,312.0	143.6	-362.5	Start 17.1 hold at 12613.9 MD
12,631.0	12,312.0	126.4	-362.3	Start 7516.9 hold at 12631.0 MD
12,632.0	12,312.0	125.5	-362.3	Hard Lines Entry at 12632.0 MD
20,147.9	12,327.9	-7,390.1	-287.4	Start 50.0 hold at 20147.9 MD
20,197.9	12,328.0	-7,440.1	-286.9	TD at 20197.9

Checked By:	Approved By:	Date:	