

District I

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

District II

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

District III

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

District IV

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

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

Form C-101

August 1, 2011

Permit 341697

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

1. Operator Name and Address AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746		2. OGRID Number 372224
		3. API Number 30-025-51903
4. Property Code 320762	5. Property Name RED BUD 25 36 32 STATE COM	6. Well No. 264H

7. Surface Location

UL - Lot A	Section 5	Township 26S	Range 36E	Lot Idn	Feet From 230	N/S Line N	Feet From 285	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot A	Section 29	Township 25S	Range 36E	Lot Idn A	Feet From 50	N/S Line N	Feet From 331	E/W Line E	County Lea
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9. Pool Information

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

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3000
16. Multiple N	17. Proposed Depth 19884	18. Formation Bone Spring Lime	19. Contractor	20. Spud Date 11/1/2023
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1227	994	0
Int1	12.25	10.75	45.5	5186	1442	0
Prod	8.75	5.5	17	19884	6227	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	TBD

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Christie Hanna	Approved By: Paul F Kautz	
Title: Regulatory	Title: Geologist	
Email Address: channa@ameredev.com	Approved Date: 8/25/2023	Expiration Date: 8/25/2025
Date: 8/18/2023	Phone: 737-300-4723	Conditions of Approval Attached

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

☐ **AMENDED REPORT**

District I

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

Form APD Conditions

Permit 341697

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: AMEREDEV OPERATING, LLC [372224] 2901 Via Fortuna Austin, TX 78746	API Number: 30-025-51903
	Well: RED BUD 25 36 32 STATE COM #264H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

State of New Mexico
Energy, Minerals and Natural Resources DepartmentSubmit Electronically
Via E-permittingOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505**NATURAL GAS MANAGEMENT PLAN**

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description**Effective May 25, 2021****I. Operator:** _____ Ameredev II, LLC _____ **OGRID:** _____ 372224 _____ **Date:** _____ 06/07/2023 _____**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Red Bud 25 36 32 State Com 264H	30-025-		230' FNL & 285' FEL	1,322	4,691	2,840

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

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Red Bud 25 36 32 State Com 264H	30-025-	02/01/2024	02/18/2024	05/03/2024	05/29/2024	06/01/2024

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

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

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: <i>Cesca Yu</i>
Printed Name: Cesca Yu
Title: Engineer
E-mail Address: cyu@amerev.com
Date: 06/07/2023
Phone: 512-775-1417

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan

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

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

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

19.15.27.8 (A)

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

19.15.27.8 (B) Venting and Flaring during drilling operations

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

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

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

19.15.27.8 (D) Venting and Flaring during production operations.

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

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

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

19.15.27.8 (E) Performance Standards

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

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

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

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

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

AMEREDEV**Red Bud 25 36 32 State Com 264H****Avalon Lower | 2 Mile Lateral**

County, St: Lea, NM

SHL: Section 5 , T26S , R36E

230' FNL, 285' FEL

BHL: Section 29 , T25S , R36E

50' FNL, 331' FEL

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

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

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

Tubing Spool: 7-1/16" 10M x 13-3/8" 5M

Xmas Tree: 2-9/16" 10M

Tubing: 3-1/2" L-80 6.5# 8rd EUE

Co. Well ID:

XXXXXX

AFE #:

2023-XXX

API #:

30-025-XXXXXX

Permit:

NMOCD

GL:

3,000'

Field:

Delaware

Rig:

H&P 642

KB:

27.0'

Elevation:

3,027'

E-Mail:

drillingengineering@ameredev.com

Offsets:

General Notes	Hole Size	Casing & Cement	Geology	TVD	Mud Weight
Notify BLM prior to spud, running casing, cementing, and BOP testing Sundry to be sent before spud 1500 psi Surface Casing Test Done by Spudder Rig	17-1/2"	Lead (100% OH excess) 654 sx 12.8 ppg Class C Top of Lead @ 0' Tail (100% OH excess) 340 sx 14.8 ppg Class C Top of Tail @ 927'	Conductor	122'	8.4 - 8.6 ppg FW
1500 psi Surface Casing Test Done by Spudder Rig	12-1/4"	13.375 54.5 J-55 BTC 0 - 1227	Rustler	1,202'	
Stage 1 Designed to Circulate Cement to Surface DV Tool (Int) 3659 Casing Test to 1500 psi		Stg 1 Lead (50% OH excess) 479 sx 11 ppg Class C - Low Portland Top of Lead @ 0' Stg 1 Tail (50% OH excess) 177 sx 14.8 ppg Class C Top of Tail @ 4436' Stg 2 Lead (50% OH excess) 680 sx 12.8 ppg Class C - Low Portland Top of Lead @ 0' Stg 2 Tail (25% OH excess) 106 sx 14.8 ppg Class C Top of Tail @ 3059' 10.75 45.5 HC L-80 SC BTC 0 - 5186	Salado Tansill Capitan Lamar Bell Canyon	1,630' 3,354' 3,759' 5,061' 5,119'	10 ppg Brine
FIT to 10.5 ppg EMW	8-3/4" Vertical				
			Brushy Canyon	6,921'	9.0 - 9.5 ppg Cut Brine
			Bone Spring Lime	7,982'	
12° DLS curve section Surveys: 45° Curve , 90° Lateral LTP VS: 10969' 90° INC, 359.45° AZM BHL VS: 11019' 90° INC, 359.45° AZM	8-3/4" Curve 8-1/2" Lateral	Lead (50% OH excess) 2086 sx 10.6 ppg ProLite Top of Lead @ 0' Tail (20% OH excess) 4141 sx 14.5 ppg Class H - Premium PozMix Top of Tail @ 9884' 5.5 117 USS RYS P-110 Eagle SFH 0 - 19884 5-1/2" marker jts @ ~8570', 14880' MD EOC 9474' MD 9200' TVD			9.0 - 9.5 ppg Cut Brine
		19884' MD 9,200' TVD @ BHL 11,019' VS	No Casing Test		



Ameredev Operating

Lea County, NM (N83-NME)

Red Bud_Holly

RED BUD 25 36 32 STATE COM 264H

OWB

Plan: PWP

Standard Planning Report - Geographic

01 June, 2023



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well RED BUD STATE COM25 36 32 264H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 3027.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 3027.0usft
Site:	Red Bud_Holly	North Reference:	Grid
Well:	RED BUD STATE COM 25 36 32 264H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Project	Lea County, NM (N83-NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Red Bud_Holly				
Site Position:		Northing:	394,038.95 usft	Latitude:	32.0789464
From:	Lat/Long	Easting:	866,383.48 usft	Longitude:	-103.2838831
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	RED BUD STATE COM 25 36 32 264H					
Well Position	+N/-S	0.0 usft	Northing:	394,052.18 usft	Latitude:	32.0789467
	+E/-W	0.0 usft	Easting:	867,728.92 usft	Longitude:	-103.2795394
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	3,000.0 usft
Grid Convergence:		0.56 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/1/2023	6.17	59.74	47,235.37348825

Design	PWP			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.45

Plan Survey Tool Program	Date	6/1/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,884.3 PWP (OWB)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,057.3	1.15	196.00	1,057.3	-0.6	-0.2	2.00	2.00	0.00	196.00	
8,714.9	1.15	196.00	8,713.4	-147.8	-42.4	0.00	0.00	0.00	0.00	
9,474.1	90.00	359.45	9,200.0	329.5	-49.7	12.00	11.70	21.53	163.44	FTP(RBSC 264H)
19,884.3	90.00	359.45	9,200.0	10,739.2	-149.8	0.00	0.00	0.00	0.00	BHL(RBSC 264H)



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well RED BUD STATE COM25 36 32 264H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 3027.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 3027.0usft
Site:	Red Bud_Holly	North Reference:	Grid
Well:	RED BUD STATE COM 25 36 32 264H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	394,052.18	867,728.92	32.0789467	-103.2795394
100.0	0.00	0.00	100.0	0.0	0.0	394,052.18	867,728.92	32.0789467	-103.2795394
200.0	0.00	0.00	200.0	0.0	0.0	394,052.18	867,728.92	32.0789467	-103.2795394
300.0	0.00	0.00	300.0	0.0	0.0	394,052.18	867,728.92	32.0789467	-103.2795394
400.0	0.00	0.00	400.0	0.0	0.0	394,052.18	867,728.92	32.0789467	-103.2795394
500.0	0.00	0.00	500.0	0.0	0.0	394,052.18	867,728.92	32.0789467	-103.2795394
600.0	0.00	0.00	600.0	0.0	0.0	394,052.18	867,728.92	32.0789467	-103.2795394
700.0	0.00	0.00	700.0	0.0	0.0	394,052.18	867,728.92	32.0789467	-103.2795394
800.0	0.00	0.00	800.0	0.0	0.0	394,052.18	867,728.92	32.0789467	-103.2795394
900.0	0.00	0.00	900.0	0.0	0.0	394,052.18	867,728.92	32.0789467	-103.2795394
1,000.0	0.00	0.00	1,000.0	0.0	0.0	394,052.18	867,728.92	32.0789467	-103.2795394
Start Build 2.00									
1,057.3	1.15	196.00	1,057.3	-0.6	-0.2	394,051.63	867,728.76	32.0789452	-103.2795399
Start 7657.6 hold at 1057.3 MD									
1,100.0	1.15	196.00	1,100.0	-1.4	-0.4	394,050.81	867,728.52	32.0789430	-103.2795407
1,200.0	1.15	196.00	1,200.0	-3.3	-0.9	394,048.88	867,727.97	32.0789377	-103.2795425
1,202.0	1.15	196.00	1,202.0	-3.3	-1.0	394,048.85	867,727.96	32.0789376	-103.2795426
Rustler									
1,300.0	1.15	196.00	1,299.9	-5.2	-1.5	394,046.96	867,727.42	32.0789324	-103.2795444
1,400.0	1.15	196.00	1,399.9	-7.1	-2.0	394,045.04	867,726.87	32.0789272	-103.2795462
1,500.0	1.15	196.00	1,499.9	-9.1	-2.6	394,043.12	867,726.32	32.0789219	-103.2795481
1,600.0	1.15	196.00	1,599.9	-11.0	-3.2	394,041.19	867,725.77	32.0789166	-103.2795499
1,630.1	1.15	196.00	1,630.0	-11.6	-3.3	394,040.62	867,725.60	32.0789150	-103.2795505
Salado									
1,700.0	1.15	196.00	1,699.9	-12.9	-3.7	394,039.27	867,725.22	32.0789113	-103.2795518
1,800.0	1.15	196.00	1,799.8	-14.8	-4.3	394,037.35	867,724.66	32.0789061	-103.2795536
1,900.0	1.15	196.00	1,899.8	-16.8	-4.8	394,035.43	867,724.11	32.0789008	-103.2795554
2,000.0	1.15	196.00	1,999.8	-18.7	-5.4	394,033.50	867,723.56	32.0788955	-103.2795573
2,100.0	1.15	196.00	2,099.8	-20.6	-5.9	394,031.58	867,723.01	32.0788903	-103.2795591
2,200.0	1.15	196.00	2,199.8	-22.5	-6.5	394,029.66	867,722.46	32.0788850	-103.2795610
2,300.0	1.15	196.00	2,299.7	-24.4	-7.0	394,027.74	867,721.91	32.0788797	-103.2795628
2,400.0	1.15	196.00	2,399.7	-26.4	-7.6	394,025.81	867,721.36	32.0788745	-103.2795646
2,500.0	1.15	196.00	2,499.7	-28.3	-8.1	394,023.89	867,720.80	32.0788692	-103.2795665
2,600.0	1.15	196.00	2,599.7	-30.2	-8.7	394,021.97	867,720.25	32.0788639	-103.2795683
2,700.0	1.15	196.00	2,699.7	-32.1	-9.2	394,020.05	867,719.70	32.0788587	-103.2795702
2,800.0	1.15	196.00	2,799.6	-34.1	-9.8	394,018.12	867,719.15	32.0788534	-103.2795720
2,900.0	1.15	196.00	2,899.6	-36.0	-10.3	394,016.20	867,718.60	32.0788481	-103.2795738
3,000.0	1.15	196.00	2,999.6	-37.9	-10.9	394,014.28	867,718.05	32.0788428	-103.2795757
3,100.0	1.15	196.00	3,099.6	-39.8	-11.4	394,012.35	867,717.50	32.0788376	-103.2795775
3,200.0	1.15	196.00	3,199.6	-41.7	-12.0	394,010.43	867,716.94	32.0788323	-103.2795794
3,300.0	1.15	196.00	3,299.5	-43.7	-12.5	394,008.51	867,716.39	32.0788270	-103.2795812
3,354.5	1.15	196.00	3,354.0	-44.7	-12.8	394,007.46	867,716.09	32.0788242	-103.2795822
Tansill									
3,400.0	1.15	196.00	3,399.5	-45.6	-13.1	394,006.59	867,715.84	32.0788218	-103.2795830
3,500.0	1.15	196.00	3,499.5	-47.5	-13.6	394,004.66	867,715.29	32.0788165	-103.2795849
3,600.0	1.15	196.00	3,599.5	-49.4	-14.2	394,002.74	867,714.74	32.0788112	-103.2795867
3,700.0	1.15	196.00	3,699.5	-51.4	-14.7	394,000.82	867,714.19	32.0788060	-103.2795886
3,759.5	1.15	196.00	3,759.0	-52.5	-15.1	393,999.67	867,713.86	32.0788028	-103.2795897
Capitan									
3,800.0	1.15	196.00	3,799.4	-53.3	-15.3	393,998.90	867,713.64	32.0788007	-103.2795904
3,900.0	1.15	196.00	3,899.4	-55.2	-15.8	393,996.97	867,713.08	32.0787954	-103.2795922
4,000.0	1.15	196.00	3,999.4	-57.1	-16.4	393,995.05	867,712.53	32.0787901	-103.2795941
4,100.0	1.15	196.00	4,099.4	-59.1	-16.9	393,993.13	867,711.98	32.0787849	-103.2795959
4,200.0	1.15	196.00	4,199.4	-61.0	-17.5	393,991.21	867,711.43	32.0787796	-103.2795978



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well RED BUD STATE COM25 36 32 264H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 3027.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 3027.0usft
Site:	Red Bud_Holly	North Reference:	Grid
Well:	RED BUD STATE COM 25 36 32 264H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
4,300.0	1.15	196.00	4,299.3	-62.9	-18.0	393,989.28	867,710.88	32.0787743	-103.2795996	
4,400.0	1.15	196.00	4,399.3	-64.8	-18.6	393,987.36	867,710.33	32.0787691	-103.2796015	
4,500.0	1.15	196.00	4,499.3	-66.7	-19.1	393,985.44	867,709.77	32.0787638	-103.2796033	
4,600.0	1.15	196.00	4,599.3	-68.7	-19.7	393,983.51	867,709.22	32.0787585	-103.2796051	
4,700.0	1.15	196.00	4,699.3	-70.6	-20.2	393,981.59	867,708.67	32.0787533	-103.2796070	
4,800.0	1.15	196.00	4,799.2	-72.5	-20.8	393,979.67	867,708.12	32.0787480	-103.2796088	
4,900.0	1.15	196.00	4,899.2	-74.4	-21.3	393,977.75	867,707.57	32.0787427	-103.2796107	
5,000.0	1.15	196.00	4,999.2	-76.4	-21.9	393,975.82	867,707.02	32.0787375	-103.2796125	
5,061.8	1.15	196.00	5,061.0	-77.5	-22.2	393,974.64	867,706.68	32.0787342	-103.2796136	
Lamar										
5,100.0	1.15	196.00	5,099.2	-78.3	-22.5	393,973.90	867,706.47	32.0787322	-103.2796143	
5,119.8	1.15	196.00	5,119.0	-78.7	-22.6	393,973.52	867,706.36	32.0787311	-103.2796147	
Bell Canyon										
5,200.0	1.15	196.00	5,199.2	-80.2	-23.0	393,971.98	867,705.91	32.0787269	-103.2796162	
5,300.0	1.15	196.00	5,299.1	-82.1	-23.6	393,970.06	867,705.36	32.0787216	-103.2796180	
5,400.0	1.15	196.00	5,399.1	-84.0	-24.1	393,968.13	867,704.81	32.0787164	-103.2796199	
5,500.0	1.15	196.00	5,499.1	-86.0	-24.7	393,966.21	867,704.26	32.0787111	-103.2796217	
5,600.0	1.15	196.00	5,599.1	-87.9	-25.2	393,964.29	867,703.71	32.0787058	-103.2796235	
5,700.0	1.15	196.00	5,699.1	-89.8	-25.8	393,962.37	867,703.16	32.0787006	-103.2796254	
5,800.0	1.15	196.00	5,799.0	-91.7	-26.3	393,960.44	867,702.61	32.0786953	-103.2796272	
5,900.0	1.15	196.00	5,899.0	-93.7	-26.9	393,958.52	867,702.05	32.0786900	-103.2796291	
6,000.0	1.15	196.00	5,999.0	-95.6	-27.4	393,956.60	867,701.50	32.0786848	-103.2796309	
6,100.0	1.15	196.00	6,099.0	-97.5	-28.0	393,954.68	867,700.95	32.0786795	-103.2796327	
6,200.0	1.15	196.00	6,199.0	-99.4	-28.5	393,952.75	867,700.40	32.0786742	-103.2796346	
6,300.0	1.15	196.00	6,298.9	-101.3	-29.1	393,950.83	867,699.85	32.0786689	-103.2796364	
6,400.0	1.15	196.00	6,398.9	-103.3	-29.6	393,948.91	867,699.30	32.0786637	-103.2796383	
6,500.0	1.15	196.00	6,498.9	-105.2	-30.2	393,946.98	867,698.75	32.0786584	-103.2796401	
6,600.0	1.15	196.00	6,598.9	-107.1	-30.7	393,945.06	867,698.19	32.0786531	-103.2796420	
6,700.0	1.15	196.00	6,698.9	-109.0	-31.3	393,943.14	867,697.64	32.0786479	-103.2796438	
6,800.0	1.15	196.00	6,798.8	-111.0	-31.8	393,941.22	867,697.09	32.0786426	-103.2796456	
6,900.0	1.15	196.00	6,898.8	-112.9	-32.4	393,939.29	867,696.54	32.0786373	-103.2796475	
6,922.2	1.15	196.00	6,921.0	-113.3	-32.5	393,938.87	867,696.42	32.0786362	-103.2796479	
Brushy Canyon										
7,000.0	1.15	196.00	6,998.8	-114.8	-32.9	393,937.37	867,695.99	32.0786321	-103.2796493	
7,100.0	1.15	196.00	7,098.8	-116.7	-33.5	393,935.45	867,695.44	32.0786268	-103.2796512	
7,200.0	1.15	196.00	7,198.8	-118.7	-34.0	393,933.53	867,694.89	32.0786215	-103.2796530	
7,300.0	1.15	196.00	7,298.7	-120.6	-34.6	393,931.60	867,694.33	32.0786162	-103.2796548	
7,400.0	1.15	196.00	7,398.7	-122.5	-35.1	393,929.68	867,693.78	32.0786110	-103.2796567	
7,500.0	1.15	196.00	7,498.7	-124.4	-35.7	393,927.76	867,693.23	32.0786057	-103.2796585	
7,600.0	1.15	196.00	7,598.7	-126.3	-36.2	393,925.84	867,692.68	32.0786004	-103.2796604	
7,700.0	1.15	196.00	7,698.7	-128.3	-36.8	393,923.91	867,692.13	32.0785952	-103.2796622	
7,800.0	1.15	196.00	7,798.6	-130.2	-37.3	393,921.99	867,691.58	32.0785899	-103.2796640	
7,900.0	1.15	196.00	7,898.6	-132.1	-37.9	393,920.07	867,691.03	32.0785846	-103.2796659	
7,983.4	1.15	196.00	7,982.0	-133.7	-38.4	393,918.46	867,690.57	32.0785802	-103.2796674	
Bone Spring Lime										
8,000.0	1.15	196.00	7,998.6	-134.0	-38.4	393,918.14	867,690.47	32.0785794	-103.2796677	
8,100.0	1.15	196.00	8,098.6	-136.0	-39.0	393,916.22	867,689.92	32.0785741	-103.2796696	
8,200.0	1.15	196.00	8,198.6	-137.9	-39.5	393,914.30	867,689.37	32.0785688	-103.2796714	
8,300.0	1.15	196.00	8,298.5	-139.8	-40.1	393,912.38	867,688.82	32.0785636	-103.2796732	
8,400.0	1.15	196.00	8,398.5	-141.7	-40.7	393,910.45	867,688.27	32.0785583	-103.2796751	
8,500.0	1.15	196.00	8,498.5	-143.6	-41.2	393,908.53	867,687.72	32.0785530	-103.2796769	
8,600.0	1.15	196.00	8,598.5	-145.6	-41.8	393,906.61	867,687.16	32.0785477	-103.2796788	
8,700.0	1.15	196.00	8,698.5	-147.5	-42.3	393,904.69	867,686.61	32.0785425	-103.2796806	



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well RED BUD STATE COM25 36 32 264H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 3027.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 3027.0usft
Site:	Red Bud_Holly	North Reference:	Grid
Well:	RED BUD STATE COM 25 36 32 264H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
8,714.9	1.15	196.00	8,713.4	-147.8	-42.4	393,904.40	867,686.53	32.0785417	-103.2796809	
KOP-Start DLS 12.00 TFO 163.44										
8,725.0	0.34	288.14	8,723.5	-147.9	-42.4	393,904.31	867,686.47	32.0785415	-103.2796811	
8,750.0	3.13	353.46	8,748.5	-147.2	-42.6	393,905.01	867,686.33	32.0785434	-103.2796815	
8,775.0	6.12	356.40	8,773.4	-145.2	-42.8	393,907.02	867,686.16	32.0785489	-103.2796820	
8,800.0	9.12	357.41	8,798.1	-141.8	-42.9	393,910.33	867,685.99	32.0785580	-103.2796824	
8,825.0	12.11	357.93	8,822.7	-137.2	-43.1	393,914.93	867,685.81	32.0785707	-103.2796829	
8,850.0	15.11	358.24	8,847.0	-131.4	-43.3	393,920.81	867,685.61	32.0785868	-103.2796833	
8,875.0	18.11	358.45	8,871.0	-124.2	-43.5	393,927.96	867,685.41	32.0786065	-103.2796838	
8,900.0	21.11	358.60	8,894.5	-115.8	-43.7	393,936.34	867,685.19	32.0786295	-103.2796842	
8,925.0	24.11	358.72	8,917.6	-106.2	-44.0	393,945.95	867,684.97	32.0786559	-103.2796846	
8,950.0	27.11	358.81	8,940.1	-95.4	-44.2	393,956.76	867,684.74	32.0786856	-103.2796850	
8,975.0	30.11	358.89	8,962.1	-83.5	-44.4	393,968.72	867,684.50	32.0787185	-103.2796854	
9,000.0	33.11	358.95	8,983.4	-70.4	-44.7	393,981.82	867,684.25	32.0787546	-103.2796858	
9,025.0	36.11	359.00	9,003.9	-56.2	-44.9	393,996.02	867,683.99	32.0787936	-103.2796862	
9,050.0	39.11	359.05	9,023.7	-40.9	-45.2	394,011.27	867,683.74	32.0788355	-103.2796865	
9,075.0	42.11	359.09	9,042.7	-24.6	-45.4	394,027.54	867,683.47	32.0788802	-103.2796869	
9,100.0	45.11	359.12	9,060.8	-7.4	-45.7	394,044.78	867,683.20	32.0789276	-103.2796872	
9,125.0	48.11	359.16	9,078.0	10.8	-46.0	394,062.95	867,682.93	32.0789776	-103.2796875	
9,150.0	51.11	359.19	9,094.2	29.8	-46.3	394,081.98	867,682.65	32.0790299	-103.2796878	
9,175.0	54.11	359.21	9,109.4	49.7	-46.5	394,101.84	867,682.38	32.0790845	-103.2796881	
9,200.0	57.11	359.24	9,123.5	70.3	-46.8	394,122.47	867,682.10	32.0791412	-103.2796883	
9,225.0	60.11	359.26	9,136.5	91.6	-47.1	394,143.81	867,681.82	32.0791998	-103.2796885	
9,250.0	63.11	359.28	9,148.4	113.6	-47.4	394,165.80	867,681.54	32.0792603	-103.2796888	
9,275.0	66.11	359.30	9,159.1	136.2	-47.7	394,188.38	867,681.26	32.0793223	-103.2796889	
9,300.0	69.11	359.32	9,168.6	159.3	-47.9	394,211.49	867,680.99	32.0793859	-103.2796891	
9,325.0	72.11	359.34	9,176.9	182.9	-48.2	394,235.07	867,680.71	32.0794507	-103.2796892	
9,350.0	75.11	359.36	9,184.0	206.9	-48.5	394,259.05	867,680.44	32.0795166	-103.2796894	
9,375.0	78.11	359.38	9,189.8	231.2	-48.7	394,283.34	867,680.17	32.0795834	-103.2796895	
NMNM137470 Exit at 9375.0 MD										
9,400.0	81.11	359.40	9,194.3	255.8	-49.0	394,307.95	867,679.91	32.0796510	-103.2796895	
9,425.0	84.11	359.42	9,197.5	280.6	-49.3	394,332.74	867,679.66	32.0797192	-103.2796896	
9,450.0	87.11	359.43	9,199.4	305.5	-49.5	394,357.66	867,679.41	32.0797877	-103.2796896	
9,474.1	90.00	359.45	9,200.0	329.5	-49.7	394,381.73	867,679.17	32.0798538	-103.2796896	
LP-Start 10410.2 hold at 9474.1 MD										
9,500.0	90.00	359.45	9,200.0	355.5	-50.0	394,407.65	867,678.92	32.0799251	-103.2796896	
9,600.0	90.00	359.45	9,200.0	455.5	-51.0	394,507.64	867,677.96	32.0801999	-103.2796895	
9,700.0	90.00	359.45	9,200.0	555.5	-51.9	394,607.64	867,677.00	32.0804748	-103.2796895	
9,800.0	90.00	359.45	9,200.0	655.5	-52.9	394,707.63	867,676.04	32.0807497	-103.2796894	
9,900.0	90.00	359.45	9,200.0	755.4	-53.8	394,807.63	867,675.08	32.0810245	-103.2796894	
10,000.0	90.00	359.45	9,200.0	855.4	-54.8	394,907.62	867,674.12	32.0812994	-103.2796893	
10,100.0	90.00	359.45	9,200.0	955.4	-55.8	395,007.62	867,673.16	32.0815743	-103.2796893	
10,200.0	90.00	359.45	9,200.0	1,055.4	-56.7	395,107.61	867,672.20	32.0818491	-103.2796892	
10,300.0	90.00	359.45	9,200.0	1,155.4	-57.7	395,207.61	867,671.24	32.0821240	-103.2796892	
10,400.0	90.00	359.45	9,200.0	1,255.4	-58.6	395,307.61	867,670.28	32.0823988	-103.2796891	
10,500.0	90.00	359.45	9,200.0	1,355.4	-59.6	395,407.60	867,669.31	32.0826737	-103.2796891	
10,600.0	90.00	359.45	9,200.0	1,455.4	-60.6	395,507.60	867,668.35	32.0829486	-103.2796890	
10,700.0	90.00	359.45	9,200.0	1,555.4	-61.5	395,607.59	867,667.39	32.0832234	-103.2796890	
10,800.0	90.00	359.45	9,200.0	1,655.4	-62.5	395,707.59	867,666.43	32.0834983	-103.2796889	
10,900.0	90.00	359.45	9,200.0	1,755.4	-63.4	395,807.58	867,665.47	32.0837732	-103.2796889	
11,000.0	90.00	359.45	9,200.0	1,855.4	-64.4	395,907.58	867,664.51	32.0840480	-103.2796888	
11,100.0	90.00	359.45	9,200.0	1,955.4	-65.4	396,007.57	867,663.55	32.0843229	-103.2796888	
11,200.0	90.00	359.45	9,200.0	2,055.4	-66.3	396,107.57	867,662.59	32.0845977	-103.2796887	
11,300.0	90.00	359.45	9,200.0	2,155.4	-67.3	396,207.56	867,661.63	32.0848726	-103.2796886	



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well RED BUD STATE COM25 36 32 264H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 3027.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 3027.0usft
Site:	Red Bud_Holly	North Reference:	Grid
Well:	RED BUD STATE COM 25 36 32 264H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,400.0	90.00	359.45	9,200.0	2,255.4	-68.3	396,307.56	867,660.67	32.0851475	-103.2796886
11,500.0	90.00	359.45	9,200.0	2,355.4	-69.2	396,407.55	867,659.71	32.0854223	-103.2796885
11,600.0	90.00	359.45	9,200.0	2,455.4	-70.2	396,507.55	867,658.75	32.0856972	-103.2796885
11,700.0	90.00	359.45	9,200.0	2,555.4	-71.1	396,607.55	867,657.79	32.0859721	-103.2796884
11,800.0	90.00	359.45	9,200.0	2,655.4	-72.1	396,707.54	867,656.82	32.0862469	-103.2796884
11,900.0	90.00	359.45	9,200.0	2,755.4	-73.1	396,807.54	867,655.86	32.0865218	-103.2796883
12,000.0	90.00	359.45	9,200.0	2,855.4	-74.0	396,907.53	867,654.90	32.0867967	-103.2796883
12,100.0	90.00	359.45	9,200.0	2,955.3	-75.0	397,007.53	867,653.94	32.0870715	-103.2796882
12,200.0	90.00	359.45	9,200.0	3,055.3	-75.9	397,107.52	867,652.98	32.0873464	-103.2796882
12,300.0	90.00	359.45	9,200.0	3,155.3	-76.9	397,207.52	867,652.02	32.0876212	-103.2796881
12,400.0	90.00	359.45	9,200.0	3,255.3	-77.9	397,307.51	867,651.06	32.0878961	-103.2796881
12,500.0	90.00	359.45	9,200.0	3,355.3	-78.8	397,407.51	867,650.10	32.0881710	-103.2796880
12,600.0	90.00	359.45	9,200.0	3,455.3	-79.8	397,507.50	867,649.14	32.0884458	-103.2796880
12,700.0	90.00	359.45	9,200.0	3,555.3	-80.7	397,607.50	867,648.18	32.0887207	-103.2796879
12,800.0	90.00	359.45	9,200.0	3,655.3	-81.7	397,707.49	867,647.22	32.0889956	-103.2796879
12,900.0	90.00	359.45	9,200.0	3,755.3	-82.7	397,807.49	867,646.26	32.0892704	-103.2796878
13,000.0	90.00	359.45	9,200.0	3,855.3	-83.6	397,907.49	867,645.30	32.0895453	-103.2796878
13,100.0	90.00	359.45	9,200.0	3,955.3	-84.6	398,007.48	867,644.33	32.0898201	-103.2796877
13,200.0	90.00	359.45	9,200.0	4,055.3	-85.5	398,107.48	867,643.37	32.0900950	-103.2796877
13,300.0	90.00	359.45	9,200.0	4,155.3	-86.5	398,207.47	867,642.41	32.0903699	-103.2796876
13,400.0	90.00	359.45	9,200.0	4,255.3	-87.5	398,307.47	867,641.45	32.0906447	-103.2796876
13,500.0	90.00	359.45	9,200.0	4,355.3	-88.4	398,407.46	867,640.49	32.0909196	-103.2796875
13,600.0	90.00	359.45	9,200.0	4,455.3	-89.4	398,507.46	867,639.53	32.0911945	-103.2796874
13,700.0	90.00	359.45	9,200.0	4,555.3	-90.3	398,607.45	867,638.57	32.0914693	-103.2796874
13,800.0	90.00	359.45	9,200.0	4,655.3	-91.3	398,707.45	867,637.61	32.0917442	-103.2796873
13,900.0	90.00	359.45	9,200.0	4,755.3	-92.3	398,807.44	867,636.65	32.0920191	-103.2796873
14,000.0	90.00	359.45	9,200.0	4,855.3	-93.2	398,907.44	867,635.69	32.0922939	-103.2796872
14,100.0	90.00	359.45	9,200.0	4,955.3	-94.2	399,007.43	867,634.73	32.0925688	-103.2796872
14,200.0	90.00	359.45	9,200.0	5,055.3	-95.2	399,107.43	867,633.77	32.0928436	-103.2796871
14,300.0	90.00	359.45	9,200.0	5,155.2	-96.1	399,207.43	867,632.81	32.0931185	-103.2796871
14,400.0	90.00	359.45	9,200.0	5,255.2	-97.1	399,307.42	867,631.84	32.0933934	-103.2796870
14,500.0	90.00	359.45	9,200.0	5,355.2	-98.0	399,407.42	867,630.88	32.0936682	-103.2796870
14,600.0	90.00	359.45	9,200.0	5,455.2	-99.0	399,507.41	867,629.92	32.0939431	-103.2796869
14,700.0	90.00	359.45	9,200.0	5,555.2	-100.0	399,607.41	867,628.96	32.0942180	-103.2796869
14,800.0	90.00	359.45	9,200.0	5,655.2	-100.9	399,707.40	867,628.00	32.0944928	-103.2796868
14,900.0	90.00	359.45	9,200.0	5,755.2	-101.9	399,807.40	867,627.04	32.0947677	-103.2796868
15,000.0	90.00	359.45	9,200.0	5,855.2	-102.8	399,907.39	867,626.08	32.0950425	-103.2796867
15,100.0	90.00	359.45	9,200.0	5,955.2	-103.8	400,007.39	867,625.12	32.0953174	-103.2796867
15,200.0	90.00	359.45	9,200.0	6,055.2	-104.8	400,107.38	867,624.16	32.0955923	-103.2796866
15,300.0	90.00	359.45	9,200.0	6,155.2	-105.7	400,207.38	867,623.20	32.0958671	-103.2796865
15,400.0	90.00	359.45	9,200.0	6,255.2	-106.7	400,307.37	867,622.24	32.0961420	-103.2796865
15,500.0	90.00	359.45	9,200.0	6,355.2	-107.6	400,407.37	867,621.28	32.0964169	-103.2796864
15,600.0	90.00	359.45	9,200.0	6,455.2	-108.6	400,507.37	867,620.32	32.0966917	-103.2796864
15,700.0	90.00	359.45	9,200.0	6,555.2	-109.6	400,607.36	867,619.35	32.0969666	-103.2796863
15,800.0	90.00	359.45	9,200.0	6,655.2	-110.5	400,707.36	867,618.39	32.0972414	-103.2796863
15,900.0	90.00	359.45	9,200.0	6,755.2	-111.5	400,807.35	867,617.43	32.0975163	-103.2796862
16,000.0	90.00	359.45	9,200.0	6,855.2	-112.4	400,907.35	867,616.47	32.0977912	-103.2796862
16,100.0	90.00	359.45	9,200.0	6,955.2	-113.4	401,007.34	867,615.51	32.0980660	-103.2796861
16,200.0	90.00	359.45	9,200.0	7,055.2	-114.4	401,107.34	867,614.55	32.0983409	-103.2796861
16,300.0	90.00	359.45	9,200.0	7,155.2	-115.3	401,207.33	867,613.59	32.0986158	-103.2796860
16,400.0	90.00	359.45	9,200.0	7,255.1	-116.3	401,307.33	867,612.63	32.0988906	-103.2796860
16,500.0	90.00	359.45	9,200.0	7,355.1	-117.2	401,407.32	867,611.67	32.0991655	-103.2796859
16,600.0	90.00	359.45	9,200.0	7,455.1	-118.2	401,507.32	867,610.71	32.0994403	-103.2796859
16,700.0	90.00	359.45	9,200.0	7,555.1	-119.2	401,607.31	867,609.75	32.0997152	-103.2796858
16,800.0	90.00	359.45	9,200.0	7,655.1	-120.1	401,707.31	867,608.79	32.0999901	-103.2796858



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well RED BUD STATE COM25 36 32 264H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 3027.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 3027.0usft
Site:	Red Bud_Holly	North Reference:	Grid
Well:	RED BUD STATE COM 25 36 32 264H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,900.0	90.00	359.45	9,200.0	7,755.1	-121.1	401,807.31	867,607.83	32.1002649	-103.2796857
17,000.0	90.00	359.45	9,200.0	7,855.1	-122.1	401,907.30	867,606.86	32.1005398	-103.2796856
17,100.0	90.00	359.45	9,200.0	7,955.1	-123.0	402,007.30	867,605.90	32.1008147	-103.2796856
17,200.0	90.00	359.45	9,200.0	8,055.1	-124.0	402,107.29	867,604.94	32.1010895	-103.2796855
17,300.0	90.00	359.45	9,200.0	8,155.1	-124.9	402,207.29	867,603.98	32.1013644	-103.2796855
17,400.0	90.00	359.45	9,200.0	8,255.1	-125.9	402,307.28	867,603.02	32.1016392	-103.2796854
17,500.0	90.00	359.45	9,200.0	8,355.1	-126.9	402,407.28	867,602.06	32.1019141	-103.2796854
17,600.0	90.00	359.45	9,200.0	8,455.1	-127.8	402,507.27	867,601.10	32.1021890	-103.2796853
17,700.0	90.00	359.45	9,200.0	8,555.1	-128.8	402,607.27	867,600.14	32.1024638	-103.2796853
17,800.0	90.00	359.45	9,200.0	8,655.1	-129.7	402,707.26	867,599.18	32.1027387	-103.2796852
17,900.0	90.00	359.45	9,200.0	8,755.1	-130.7	402,807.26	867,598.22	32.1030136	-103.2796852
18,000.0	90.00	359.45	9,200.0	8,855.1	-131.7	402,907.25	867,597.26	32.1032884	-103.2796851
18,100.0	90.00	359.45	9,200.0	8,955.1	-132.6	403,007.25	867,596.30	32.1035633	-103.2796851
18,200.0	90.00	359.45	9,200.0	9,055.1	-133.6	403,107.25	867,595.34	32.1038381	-103.2796850
18,300.0	90.00	359.45	9,200.0	9,155.1	-134.5	403,207.24	867,594.37	32.1041130	-103.2796849
18,400.0	90.00	359.45	9,200.0	9,255.1	-135.5	403,307.24	867,593.41	32.1043879	-103.2796849
18,500.0	90.00	359.45	9,200.0	9,355.1	-136.5	403,407.23	867,592.45	32.1046627	-103.2796848
18,600.0	90.00	359.45	9,200.0	9,455.0	-137.4	403,507.23	867,591.49	32.1049376	-103.2796848
18,700.0	90.00	359.45	9,200.0	9,555.0	-138.4	403,607.22	867,590.53	32.1052125	-103.2796847
18,800.0	90.00	359.45	9,200.0	9,655.0	-139.3	403,707.22	867,589.57	32.1054873	-103.2796847
18,900.0	90.00	359.45	9,200.0	9,755.0	-140.3	403,807.21	867,588.61	32.1057622	-103.2796846
19,000.0	90.00	359.45	9,200.0	9,855.0	-141.3	403,907.21	867,587.65	32.1060370	-103.2796846
19,100.0	90.00	359.45	9,200.0	9,955.0	-142.2	404,007.20	867,586.69	32.1063119	-103.2796845
19,200.0	90.00	359.45	9,200.0	10,055.0	-143.2	404,107.20	867,585.73	32.1065868	-103.2796845
19,300.0	90.00	359.45	9,200.0	10,155.0	-144.2	404,207.19	867,584.77	32.1068616	-103.2796844
19,400.0	90.00	359.45	9,200.0	10,255.0	-145.1	404,307.19	867,583.81	32.1071365	-103.2796844
19,500.0	90.00	359.45	9,200.0	10,355.0	-146.1	404,407.19	867,582.85	32.1074114	-103.2796843
19,600.0	90.00	359.45	9,200.0	10,455.0	-147.0	404,507.18	867,581.88	32.1076862	-103.2796842
19,700.0	90.00	359.45	9,200.0	10,555.0	-148.0	404,607.18	867,580.92	32.1079611	-103.2796842
19,800.0	90.00	359.45	9,200.0	10,655.0	-149.0	404,707.17	867,579.96	32.1082359	-103.2796841
19,884.3	90.00	359.45	9,200.0	10,739.2	-149.8	404,791.42	867,579.15	32.1084675	-103.2796841
TD at 19884.3									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(RBSC 264H) - plan hits target center - Point	0.00	0.00	9,200.0	329.5	-49.7	394,381.73	867,679.17	32.0798538	-103.2796896
LTP(RBSC 264H) - plan misses target center by 34.3usft at 19800.0usft MD (9200.0 TVD, 10655.0 N, -149.0 E) - Point	0.00	0.00	9,200.0	10,689.3	-149.3	404,741.44	867,579.64	32.1083301	-103.2796841
BHL(RBSC 264H) - plan hits target center - Point	0.00	0.00	9,200.0	10,739.2	-149.8	404,791.42	867,579.15	32.1084675	-103.2796841



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well RED BUD STATE COM25 36 32 264H
Company:	Ameredev Operating	TVD Reference:	KB=27' @ 3027.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=27' @ 3027.0usft
Site:	Red Bud_Holly	North Reference:	Grid
Well:	RED BUD STATE COM 25 36 32 264H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,202.0	1,202.0	Rustler				
1,630.1	1,630.0	Salado				
3,354.5	3,354.0	Tansill				
3,759.5	3,759.0	Capitan				
5,061.8	5,061.0	Lamar				
5,119.8	5,119.0	Bell Canyon				
6,922.2	6,921.0	Brushy Canyon				
7,983.4	7,982.0	Bone Spring Lime				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,000.0	1,000.0	0.0	0.0	Start Build 2.00	
1,057.3	1,057.3	-0.6	-0.2	Start 7657.6 hold at 1057.3 MD	
8,714.9	8,713.4	-147.8	-42.4	KOP-Start DLS 12.00 TFO 163.44	
9,375.0	9,189.8	231.2	-48.7	NMNM137470 Exit at 9375.0 MD	
9,474.1	9,200.0	329.5	-49.7	LP-Start 10410.2 hold at 9474.1 MD	
19,884.3	9,200.0	10,739.2	-149.8	TD at 19884.3	