<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 341690

	APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A A	ZONE
1 Operator Name and Address	2	OCDID Numb

1. Operator Name and Address	2. OGRID Number							
AMEREDEV OPERATING, LLC	372224							
2901 Via Fortuna	3. API Number							
Austin, TX 78746		30-025-51901						
4. Property Code	5. Property Name	6. Well No.						
320762	RED BUD 25 36 32 STATE COM	183H						

7. Surface Location

	11 0411400 200411011								
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
0	32	25S	36E	0	200	S	1780	E	Lea

8. Proposed Bottom Hole Location

ſ	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	В	29	25S	36E	В	50	N	2310	E	Lea

9. Pool Information

WC-025 G-08 S263620C;LWR BONE SPRIN	98150	

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3003
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	20749	2nd Bone Spring Sand		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

	21. Floposed Casing and Centent Flogram									
Ty	pe Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC				
Sı	rf 17.5	13.375	54.5	1856	1454	0				
In	1 12.25	10.75	45.5	4950	1179	0				
Pr	nd 8.75	5.5	17	20749	5869	0				

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	Working Pressure Test Pressure		Manufacturer
Double Ram	5000	5000	TBD

knowledge and I	belief. I have complied with 19.15.14.9 (A)	true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVA	TION DIVISION
Printed Name:	Electronically filed by Christie Ha	nna	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:	8/24/2023	Conditions of Appr	oval Attached		

Section Township

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 748-1283 Fax: (575) 748-9720

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 <u>District IV</u> 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		² Pool Code	³ Pool Name				
30-025-		98150	WC-025 G-08 S263620C; LOWE	R BONE SPRING			
⁴ Property Code		⁵ Property Name ⁶ Well Number					
320762	RED BUD 25 36 32 STATE COM 183H						
⁷ OGRID №.		⁸ Operator Name ⁹ Elevation					
372224		AMEREDEV OPERATING, LLC. 3003'					

¹⁰Surface Location

North/South line

Feet from the

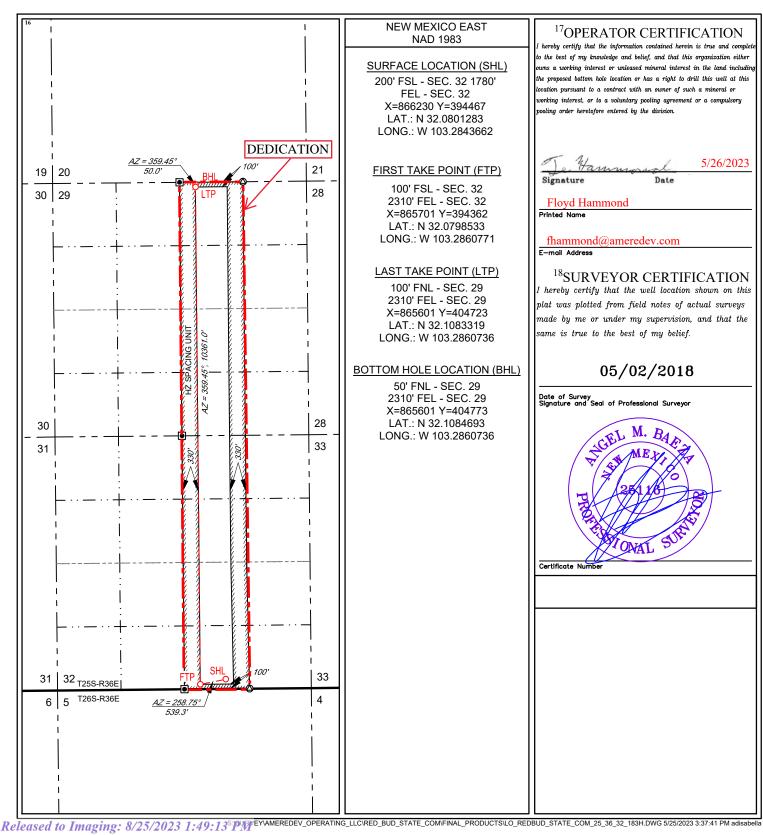
Lot Idn

Feet from the

East/West line

0	32	25-S	36-E	_	200'	SOUTH	1780'	EAST	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
В	29	25-S	36-E	_	50'	NORTH	2310'	EAST	LEA
12Dedicated Acres	12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.								
320			C						

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



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

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 APD Conditions

Permit 341690

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:		API Number:
AMEREDEV OPER	ATING, LLC [372224]	30-025-51901
2901 Via Fortuna		Well:
Austin, TX 78746		RED BUD 25 36 32 STATE COM #183H

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
pkautz	IF ON ANY STRING CEMENT DOES NOT CIRCULATE, A RCBL MUST BE RUN ON THAT STRING OF CASING.

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

_ [See 19.15.27.9(D)(1) NMAC]

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

[. C	perator:	_Ameredev II, L	LC	OGRID: _	372224	1Date	<u> </u>
Ι. ΄	Гуре: ⊠ Original □ A	mendment due to	o □ 19.15.27.9	9.D(6)(a) NMA(□ 19.15.27.9.1	D(6)(b) NMAC □ (Other.
f 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
	Red Bud 25 36 32 State Com 063H	30-025-		200' FSL & 1760' FEL	1,322	4,691	2,840
	Red Bud 25 36 32 State Com 064H	30-025-		230' FNL & 325' FEL	1,322	4,691	2,840
	Red Bud 25 36 32 State Com 163H	30-025-		200' FSL & 1820' FEL	1,322	4,691	2,840
	Red Bud 25 36 32 State Com 164H	30-025-		200' FSL & 1720' FEL	1,322	4,691	2,840
	Red Bud 25 36 32 State Com 183H	30-025-		200' FSL & 1780' FEL	1,322	4,691	2,840
	Red Bud 25 36 32 State Com 263H	30-025-		200' FSL & 1740' FEL	1,322	4,691	2,840

IV. Central Delivery Point Name:

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 063H	30-025-	11/01/2023	11/17/2023	02/03/2024	02/20/2024	02/23/2024
Red Bud 25 36 32 State Com 064H	30-025-	11/17/2023	12/02/2023	02/25/2024	03/19/2024	03/22/2024
Red Bud 25 36 32 State Com 163H	30-025-	12/05/2023	12/24/2023	03/06/2024	03/22/2024	03/25/2024
Red Bud 25 36 32 State Com 164H	30-025-	12/20/2023	01/12/2024	03/17/2024	04/02/2024	04/05/2024
Red Bud 25 36 32 State Com 183H	30-025-	01/08/2024	02/01/2024	04/14/2024	05/03/2024	05/06/2024
Red Bud 25 36 32 State Com 263H	30-025-	01/19/2024	02/15/2024	04/28/2024	05/20/2024	05/23/2024

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. \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 anticipate that its existing well(s) confidence in the confidence of th	nected to the same segment, or portion,	of the
natura	al gas gathering system(s) described above will continue to meet anticipated increase	s in line pressure caused by the new wo	ell(s).

Attach Operator's plan to manage production in response to the increased line press

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provides	ed 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 inform	ation
for which confidentiality is asserted and the basis for such assertion.	

(i)

Section 3 - Certifications Effective May 25, 2021

Operator certifies that,	after reasonable inquiry and based on the available information at the time of submittal:			
one hundred percent o	te to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, a current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering			
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. □ Opera D of 19.15.27.9 NMA	ator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection C; or			
Venting and Flaring l	Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential			
	ses 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) (h)	reinjection for enhanced oil recovery; fuel cell production; and			
(II)	ruer cen 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: 06/07/2023
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. <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.

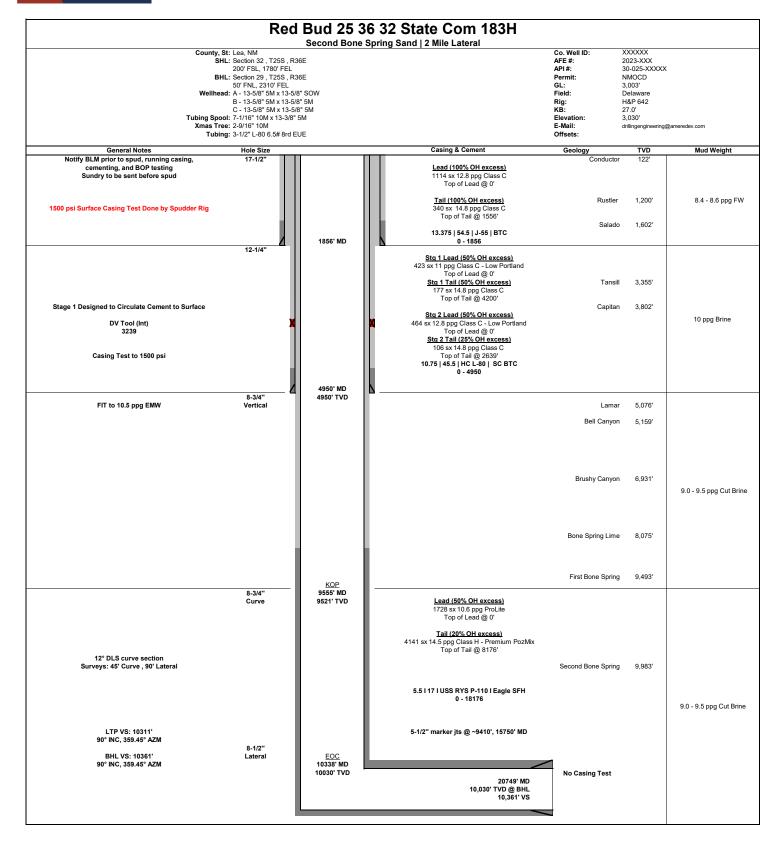
19.15.27.8 (F) Measurement or estimation of vented and flared natural gas

- 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







Ameredev Operating

Lea County, NM (N83-NME)
Red Bud_Holly
RED BUD 25 36 32 STATE COM 183H

OWB

Plan: PWP

Standard Planning Report - Geographic

01 June, 2023



Database: AUS-COMPASS - EDM_15 - 32bit

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

Site: Red Bud_Holly

Well: RED BUD STATE COM 25 36 32 183H

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

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well RED BUD STATE COM 25 36 32 183H

KB=27' @ 3030.0usft KB=27' @ 3030.0usft

Grid

Minimum Curvature

Project Lea County, NM (N83-NME)

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

Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

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 183H

Well Position +N/-S 0.0 usft Northing: 394,467.47 usfl Latitude: 32.0801283

 +E/-W
 0.0 usft
 Easting:
 866,229.66 usft
 Longitude:
 -103.2843662

 Position Uncertainty
 3.0 usft
 Wellhead Elevation:
 usft
 Ground Level:
 3,003.0 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
 47,235.58182396

Design PWP

Audit Notes:

Version:Phase:PROTOTYPETie On Depth:0.0

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

 0.0
 0.0
 0.0
 356.51

Plan Survey Tool Program Date 6/1/2023

Depth From Depth To

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

1 0.0 20,748.9 PWP (OWB) MWD

OWSG MWD - Standard

Plan Sections Vertical Measured Dogleg Build Turn Depth Inclination **Azimuth** Depth +N/-S +E/-W 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 1,000.0 0.00 0.0 0.0 0.00 0.00 0.00 0.00 1,000.0 1,259.7 5.19 220.37 1,259.4 -9.0 -7.6 2.00 2.00 0.00 220.37 9,555.2 5.19 220.37 9,520.8 -581.2 -494.1 0.00 0.00 0.00 0.00 10.030.0 -105.2 -529.0 12.00 10.84 17.77 138.97 FTP(RBSC 183H) 10.337.9 90.00 359.45 20,748.9 90.00 359.45 10,030.0 10,305.3 -629.0 0.00 0.00 0.00 0.00 BHL(RBSC 183H)



Database: AUS-COMPASS - EDM_15 - 32bit

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

Site: Red Bud_Holly

Well: RED BUD STATE COM 25 36 32 183H

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

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well RED BUD STATE COM 25 36 32 183H

KB=27' @ 3030.0usft KB=27' @ 3030.0usft

Grid

Design.	1 441								
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	0.00	0.00	0.0	0.0	0.0	394,467.47	866,229.66	32.0801283	-103.2843662
100.0		0.00	100.0	0.0	0.0	394,467.47	866,229.66	32.0801283	-103.2843662
200.0		0.00	200.0	0.0	0.0	394,467.47	866,229.66	32.0801283	-103.2843662
300.0		0.00	300.0	0.0	0.0	394,467.47	866,229.66	32.0801283	-103.2843662
400.0	0.00	0.00	400.0	0.0	0.0	394,467.47	866,229.66	32.0801283	-103.2843662
500.0	0.00	0.00	500.0	0.0	0.0	394,467.47	866,229.66	32.0801283	-103.2843662
600.0	0.00	0.00	600.0	0.0	0.0	394,467.47	866,229.66	32.0801283	-103.2843662
700.0		0.00	700.0	0.0	0.0	394,467.47	866,229.66	32.0801283	-103.2843662
800.0		0.00	0.008	0.0	0.0	394,467.47	866,229.66	32.0801283	-103.2843662
900.0		0.00	900.0	0.0	0.0	394,467.47	866,229.66	32.0801283	-103.2843662
1,000.0		0.00	1,000.0	0.0	0.0	394,467.47	866,229.66	32.0801283	-103.2843662
	uild 2.00								400 00 4000
1,100.0		220.37	1,100.0	-1.3	-1.1	394,466.14	866,228.53	32.0801247	-103.2843699
1,200.0		220.37	1,199.8	-5.3	-4.5	394,462.16	866,225.14	32.0801138	-103.2843810
1,259.7		220.37	1,259.4	-9.0	-7.6	394,458.51	866,222.04	32.0801039	-103.2843911
	295.5 hold a			44.7	40.0	004 455 70	000 040 00	00.000000	400 0040000
1,300.0		220.37	1,299.5	-11.7	-10.0	394,455.73	866,219.68	32.0800963	-103.2843988
1,400.0 1,500.0		220.37 220.37	1,399.1 1,498.7	-18.6 -25.5	-15.8 -21.7	394,448.83 394,441.93	866,213.81 866,207.95	32.0800775 32.0800587	-103.2844179 -103.2844371
1,600.0		220.37	1,598.2	-23.3 -32.4	-21.7 -27.6	394,435.03	866,202.09	32.0800387	-103.2844562
1,700.0		220.37	1,697.8	-32.4	-33.4	394,428.14	866,196.22	32.0800399	-103.2844754
1,800.0		220.37	1,797.4	-46.2	-39.3	394,421.24	866,190.36	32.08000211	-103.2844945
1,900.0		220.37	1,897.0	-53.1	-45.2	394,414.34	866,184.49	32.0799835	-103.2845137
2,000.0		220.37	1,996.6	-60.0	-51.0	394,407.44	866,178.63	32.0799647	-103.2845328
2,100.0		220.37	2,096.2	-66.9	-56.9	394,400.54	866,172.77	32.0799459	-103.2845520
2,200.0	5.19	220.37	2,195.8	-73.8	-62.8	394,393.64	866,166.90	32.0799271	-103.2845711
2,300.0	5.19	220.37	2,295.4	-80.7	-68.6	394,386.75	866,161.04	32.0799083	-103.2845903
2,400.0		220.37	2,395.0	-87.6	-74.5	394,379.85	866,155.17	32.0798895	-103.2846094
2,500.0		220.37	2,494.6	-94.5	-80.3	394,372.95	866,149.31	32.0798707	-103.2846285
2,600.0		220.37	2,594.1	-101.4	-86.2	394,366.05	866,143.45	32.0798519	-103.2846477
2,700.0		220.37	2,693.7	-108.3	-92.1	394,359.15	866,137.58	32.0798331	-103.2846668
2,800.0		220.37	2,793.3	-115.2	-97.9	394,352.25	866,131.72	32.0798143	-103.2846860
2,900.0		220.37	2,892.9	-122.1	-103.8	394,345.35	866,125.85	32.0797955	-103.2847051
3,000.0 3,100.0		220.37 220.37	2,992.5	-129.0 -135.9	-109.7 -115.5	394,338.46	866,119.99	32.0797767	-103.2847243
3,100.0		220.37	3,092.1 3,191.7	-135.9 -142.8	-115.5 -121.4	394,331.56 394,324.66	866,114.13 866,108.26	32.0797578 32.0797390	-103.2847434 -103.2847626
3,300.0		220.37	3,191.7	-142.0 -149.7	-121.4	394,317.76	866,102.40	32.0797390	-103.2847817
3,400.0		220.37	3,390.9	-156.6	-133.1	394,310.86	866,096.53	32.0797014	-103.2848009
3,500.0		220.37	3,490.4	-163.5	-139.0	394,303.96	866,090.67	32.0796826	-103.2848200
3,600.0		220.37	3,590.0	-170.4	-144.9	394,297.06	866,084.81	32.0796638	-103.2848392
3,700.0		220.37	3,689.6	-177.3	-150.7	394,290.17	866,078.94	32.0796450	-103.2848583
3,800.0		220.37	3,789.2	-184.2	-156.6	394,283.27	866,073.08	32.0796262	-103.2848775
3,900.0		220.37	3,888.8	-191.1	-162.4	394,276.37	866,067.21	32.0796074	-103.2848966
4,000.0		220.37	3,988.4	-198.0	-168.3	394,269.47	866,061.35	32.0795886	-103.2849157
4,020.0	5.19	220.37	4,008.3	-199.4	-169.5	394,268.09	866,060.18	32.0795849	-103.2849196
NMNM1	137470 Entry	y at 4020.0 l	MD						
4,100.0		220.37	4,088.0	-204.9	-174.2	394,262.57	866,055.49	32.0795698	-103.2849349
4,200.0		220.37	4,187.6	-211.8	-180.0	394,255.67	866,049.62	32.0795510	-103.2849540
4,242.6		220.37	4,230.0	-214.7	-182.5	394,252.73	866,047.12	32.0795430	-103.2849622
Rustler					,		000 5 12 =1		
4,300.0		220.37	4,287.2	-218.7	-185.9	394,248.78	866,043.76	32.0795322	-103.2849732
4,400.0		220.37	4,386.7	-225.6	-191.8	394,241.88	866,037.89	32.0795134	-103.2849923
4,500.0		220.37 220.37	4,486.3	-232.5	-197.6 203.5	394,234.98	866,032.03 866,026.17	32.0794946	-103.2850115
4,600.0	ე. 19	220.37	4,585.9	-239.4	-203.5	394,228.08	000,020.17	32.0794758	-103.2850306



Database: AUS-COMPASS - EDM_15 - 32bit

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

Site: Red Bud_Holly

Well: RED BUD STATE COM 25 36 32 183H

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

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well RED BUD STATE COM 25 36 32 183H

KB=27' @ 3030.0usft KB=27' @ 3030.0usft

Grid

Planned	d Surve	ey								
De	sured pth sft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4	,646.3	5.19	220.37	4,632.0	-242.6	-206.2	394,224.89	866,023.45	32.0794671	-103.2850395
	alado			•			,	,		
4	,700.0	5.19	220.37	4,685.5	-246.3	-209.4	394,221.18	866,020.30	32.0794570	-103.2850498
	0.008,	5.19	220.37	4,785.1	-253.2	-215.2	394,214.28	866,014.44	32.0794382	-103.2850689
	,900.0	5.19	220.37	4,884.7	-260.1	-221.1	394,207.38	866,008.57	32.0794194	-103.2850881
	,000.0	5.19	220.37	4,984.3	-267.0	-227.0	394,200.49	866,002.71	32.0794006	-103.2851072
	,100.0	5.19	220.37	5,083.9	-273.9	-232.8 -238.7	394,193.59	865,996.85	32.0793818	-103.2851264
	,200.0	5.19 5.19	220.37 220.37	5,183.5 5,283.0	-280.8 -287.7	-238.7 -244.5	394,186.69 394,179.79	865,990.98 865,985.12	32.0793630 32.0793442	-103.2851455 -103.2851646
	,400.0	5.19	220.37	5,382.6	-294.6	-250.4	394,179.79	865,979.25	32.0793254	-103.2851838
	,500.0	5.19	220.37	5,482.2	-301.5	-256.3	394,165.99	865,973.39	32.0793066	-103.2852029
	,600.0	5.19	220.37	5,581.8	-308.4	-262.1	394,159.10	865,967.53	32.0792877	-103.2852221
5	,700.0	5.19	220.37	5,681.4	-315.3	-268.0	394,152.20	865,961.66	32.0792689	-103.2852412
	,800.0	5.19	220.37	5,781.0	-322.2	-273.9	394,145.30	865,955.80	32.0792501	-103.2852604
	,900.0	5.19	220.37	5,880.6	-329.1	-279.7	394,138.40	865,949.93	32.0792313	-103.2852795
	,000.0	5.19	220.37	5,980.2	-336.0	-285.6	394,131.50	865,944.07	32.0792125	-103.2852987
	,100.0	5.19 5.19	220.37 220.37	6,079.8 6,179.4	-342.9 -349.8	-291.5 -297.3	394,124.60 394,117.70	865,938.21 865,932.34	32.0791937 32.0791749	-103.2853178 -103.2853370
	,200.0	5.19	220.37	6,278.9	-349.6 -356.7	-303.2	394,117.70	865,926.48	32.0791561	-103.2853570
	,400.0	5.19	220.37	6,378.5	-363.6	-309.0	394,103.91	865,920.61	32.0791373	-103.2853753
	,406.5	5.19	220.37	6,385.0	-364.0	-309.4	394,103.46	865,920.23	32.0791361	-103.2853765
	ansill									
6	,500.0	5.19	220.37	6,478.1	-370.5	-314.9	394,097.01	865,914.75	32.0791185	-103.2853944
	,600.0	5.19	220.37	6,577.7	-377.4	-320.8	394,090.11	865,908.89	32.0790997	-103.2854136
	,700.0	5.19	220.37	6,677.3	-384.3	-326.6	394,083.21	865,903.02	32.0790809	-103.2854327
	,800.0	5.19	220.37	6,776.9	-391.2	-332.5	394,076.31	865,897.16	32.0790621	-103.2854518
	,855.3 apitan	5.19	220.37	6,832.0	-395.0	-335.7	394,072.50	865,893.91	32.0790517	-103.2854624
	,900.0	5.19	220.37	6,876.5	-398.1	-338.4	394,069.41	865,891.29	32.0790433	-103.2854710
	,000.0	5.19	220.37	6,976.1	-405.0	-344.2	394,062.52	865,885.43	32.0790245	-103.2854901
	,100.0	5.19	220.37	7,075.7	-411.9	-350.1	394,055.62	865,879.57	32.0790057	-103.2855093
7	,200.0	5.19	220.37	7,175.2	-418.8	-356.0	394,048.72	865,873.70	32.0789869	-103.2855284
	,300.0	5.19	220.37	7,274.8	-425.7	-361.8	394,041.82	865,867.84	32.0789681	-103.2855476
	,400.0	5.19	220.37	7,374.4	-432.6	-367.7	394,034.92	865,861.97	32.0789493	-103.2855667
	,500.0	5.19	220.37	7,474.0	-439.4	-373.6	394,028.02	865,856.11	32.0789305	-103.2855859
	,600.0 ,700.0	5.19 5.19	220.37 220.37	7,573.6 7,673.2	-446.3 -453.2	-379.4 -385.3	394,021.13 394,014.23	865,850.25 865,844.38	32.0789117 32.0788929	-103.2856050 -103.2856242
	,800.0	5.19	220.37	7,772.8	-455.2 -460.1	-365.3 -391.1	394,007.33	865,838.52	32.0788741	-103.2856433
	,900.0	5.19	220.37	7,872.4	-467.0	-397.0	394,000.43	865,832.65	32.0788553	-103.2856625
	,000.0	5.19	220.37	7,972.0	-473.9	-402.9	393,993.53	865,826.79	32.0788365	-103.2856816
8	,100.0	5.19	220.37	8,071.5	-480.8	-408.7	393,986.63	865,820.93	32.0788176	-103.2857007
8	,134.6	5.19	220.37	8,106.0	-483.2	-410.8	393,984.25	865,818.90	32.0788111	-103.2857074
	.amar									
	,200.0	5.19	220.37	8,171.1	-487.7	-414.6	393,979.73	865,815.06	32.0787988	-103.2857199
	,217.9	5.19	220.37	8,189.0	-489.0	-415.7	393,978.50	865,814.01	32.0787955	-103.2857233
	Bell Car ,300.0	1yon 5.19	220.37	8,270.7	-494.6	-420.5	393,972.84	865,809.20	32.0787800	-103.2857390
1	,400.0	5.19	220.37	8,370.3	-494.6 -501.5	-420.5 -426.3	393,965.94	865,803.33	32.0787612	-103.2857582
	,500.0	5.19	220.37	8,469.9	-508.4	-432.2	393,959.04	865,797.47	32.0787424	-103.2857773
	,600.0	5.19	220.37	8,569.5	-515.3	-438.1	393,952.14	865,791.61	32.0787236	-103.2857965
8	,700.0	5.19	220.37	8,669.1	-522.2	-443.9	393,945.24	865,785.74	32.0787048	-103.2858156
	,800.0	5.19	220.37	8,768.7	-529.1	-449.8	393,938.34	865,779.88	32.0786860	-103.2858348
	,900.0	5.19	220.37	8,868.3	-536.0	-455.6	393,931.44	865,774.01	32.0786672	-103.2858539
9	,000.0	5.19	220.37	8,967.9	-542.9	-461.5	393,924.55	865,768.15	32.0786484	-103.2858731



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

Site: Red Bud_Holly

Well: RED BUD STATE COM 25 36 32 183H

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

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well RED BUD STATE COM 25 36 32 183H

KB=27' @ 3030.0usft KB=27' @ 3030.0usft

Grid

Planned Surv	vey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,100.0		220.37	9,067.4	-549.8	-467.4	393,917.65	865,762.29	32.0786296	-103.2858922
9,200.0		220.37	9,167.0	-556.7	-473.2	393,910.75	865,756.42	32.0786108	-103.2859114
9,300.0		220.37	9,266.6	-563.6	-479.1	393,903.85	865,750.56	32.0785920	-103.2859305
9,400.0		220.37	9,366.2	-570.5	-485.0	393,896.95	865,744.69	32.0785732	-103.2859496
9,500.0 9,555.2		220.37 220.37	9,465.8 9,520.8	-577.4 -581.2	-490.8 -494.1	393,890.05 393,886.25	865,738.83 865,735.59	32.0785544 32.0785440	-103.2859688 -103.2859794
	tart DLS 12.			-301.2	-434.1	393,000.23	003,733.39	32.0703440	-103.2039194
9,575.0		245.02	9,540.5	-582.2	-495.2	393,885.29	865.734.43	32.0785414	-103.2859832
9,600.0		292.56	9,565.5	-582.2	-496.7	393,885.26	865,732.94	32.0785414	-103.2859880
9,625.0		322.10	9,590.4	-580.9	-498.2	393,886.53	865,731.45	32.0785449	-103.2859927
9,650.0	8.19	335.01	9,615.2	-578.4	-499.7	393,889.11	865,729.94	32.0785520	-103.2859975
9,675.0		341.59	9,639.9	-574.5	-501.2	393,892.98	865,728.44	32.0785627	-103.2860022
9,700.0		345.50	9,664.3	-569.3	-502.7	393,898.15	865,726.93	32.0785770	-103.2860069
9,725.0		348.07	9,688.4	-562.9	-504.2	393,904.58	865,725.44	32.0785947	-103.2860116
9,750.0		349.90 351.26	9,712.1	-555.2	-505.7	393,912.27 393,921.20	865,723.95	32.0786159 32.0786404	-103.2860161
9,775.0 9,800.0		352.33	9,735.4 9,758.2	-546.3 -536.1	-507.2 -508.6	393,931.33	865,722.48 865,721.02	32.0786683	-103.2860206 -103.2860250
9,825.0		353.19	9,780.5	-524.8	-510.1	393,942.65	865,719.59	32.0786995	-103.2860293
9,850.0		353.90	9,802.1	-512.4	-511.5	393,955.12	865,718.18	32.0787338	-103.2860334
9,875.0		354.50	9,823.0	-498.8	-512.9	393,968.70	865,716.80	32.0787712	-103.2860374
9,900.0		355.01	9,843.2	-484.1	-514.2	393,983.37	865,715.46	32.0788115	-103.2860413
9,925.0		355.46	9,862.6	-468.4	-515.5	393,999.07	865,714.15	32.0788547	-103.2860450
9,950.0		355.86	9,881.2	-451.7	-516.8	394,015.77	865,712.89	32.0789006	-103.2860486
9,975.0		356.22	9,898.8	-434.1	-518.0	394,033.42	865,711.67	32.0789492	-103.2860520
10,000.0		356.54	9,915.6	-415.5	-519.2	394,051.97	865,710.49	32.0790002	-103.2860552
10,025.0 10,050.0		356.83 357.11	9,931.3 9,946.0	-396.1 -375.9	-520.3 -521.4	394,071.38 394,091.58	865,709.37 865,708.30	32.0790535 32.0791091	-103.2860582 -103.2860610
10,030.0		357.11	9,959.6	-354.9	-521.4 -522.4	394,112.52	865,707.29	32.0791667	-103.2860636
10,077.8		357.39	9,961.0	-352.6	-522.5	394,114.88	865,707.18	32.0791732	-103.2860639
	/ Canyon		,			,	,		
10,100.0		357.60	9,972.1	-333.3	-523.3	394,134.15	865,706.34	32.0792262	-103.2860660
10,125.0	64.50	357.82	9,983.4	-311.1	-524.2	394,156.41	865,705.45	32.0792874	-103.2860682
10,150.0		358.04	9,993.6	-288.2	-525.0	394,179.23	865,704.62	32.0793501	-103.2860701
10,175.0		358.24	10,002.5	-264.9	-525.8	394,202.55	865,703.87	32.0794142	-103.2860719
10,200.0		358.44	10,010.3	-241.2	-526.5	394,226.32	865,703.18	32.0794796	-103.2860733
10,225.0 10,240.0		358.63 358.74	10,016.7 10,020.0	-217.0 -202.4	-527.1 -527.4	394,250.45 394,265.06	865,702.56 865,702.22	32.0795459 32.0795861	-103.2860746 -103.2860752
	137470 Exit			-202.4	-327.4	394,203.00	003,702.22	32.0793001	-103.2000732
10,250.0		358.82	10,021.9	-192.6	-527.6	394,274.89	865,702.02	32.0796131	-103.2860756
10,275.0		359.00	10,025.9	-167.9	-528.1	394,299.58	865,701.54	32.0796810	-103.2860763
10,300.0		359.18	10,028.5	-143.0	-528.5	394,324.43	865,701.15	32.0797493	-103.2860768
10,325.0		359.36	10,029.8	-118.1	-528.8	394,349.39	865,700.83	32.0798179	-103.2860771
10,337.9	90.00	359.45	10,030.0	-105.2	-529.0	394,362.28	865,700.70	32.0798533	-103.2860771
	rt 10411.0 ho								
10,400.0		359.45	10,030.0	-43.1	-529.6	394,424.39	865,700.10	32.0800240	-103.2860771
10,500.0		359.45	10,030.0	56.9	-530.5	394,524.38	865,699.14	32.0802989	-103.2860770
10,600.0		359.45	10,030.0	156.9	-531.5	394,624.38	865,698.18	32.0805738	-103.2860770
10,700.0 10,800.0		359.45 359.45	10,030.0 10,030.0	256.9 356.9	-532.4 -533.4	394,724.37 394,824.37	865,697.22 865,696.26	32.0808486 32.0811235	-103.2860770 -103.2860769
10,800.0		359.45	10,030.0	456.9	-533.4 -534.4	394,924.36	865,695.30	32.0813984	-103.2860769
11,000.0		359.45	10,030.0	556.9	-535.3	395,024.36	865,694.33	32.0816732	-103.2860769
11,100.0		359.45	10,030.0	656.9	-536.3	395,124.35	865,693.37	32.0819481	-103.2860768
11,200.0		359.45	10,030.0	756.9	-537.2	395,224.35	865,692.41	32.0822230	-103.2860768
11,300.0	90.00	359.45	10,030.0	856.9	-538.2	395,324.34	865,691.45	32.0824978	-103.2860768



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KB=27' @ 3030.0usft KB=27' @ 3030.0usft

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
11,400.0		359.45	10,030.0	956.9	-539.2	395,424.34	865,690.49	32.0827727	-103.2860767
11,500.0		359.45	10,030.0	1,056.9	-540.1	395,524.34	865,689.53	32.0830475	-103.2860767
11,600.0		359.45	10,030.0	1,156.9	-541.1	395,624.33	865,688.57	32.0833224	-103.2860767
11,700.0		359.45	10,030.0	1,256.9	-542.1	395,724.33	865,687.61	32.0835973	-103.2860766
11,800.0		359.45	10,030.0	1,356.8	-543.0	395,824.32	865,686.65	32.0838721	-103.2860766
11,900.0		359.45	10,030.0	1,456.8	-544.0	395,924.32	865,685.69	32.0841470	-103.2860766
12,000.0		359.45	10,030.0	1,556.8	-544.9	396,024.31	865,684.73	32.0844219	-103.2860766
12,100.0 12,200.0		359.45 359.45	10,030.0 10,030.0	1,656.8 1,756.8	-545.9 -546.9	396,124.31 396,224.30	865,683.77 865,682.81	32.0846967 32.0849716	-103.2860765 -103.2860765
12,200.0		359.45	10,030.0	1,756.8	-540.9 -547.8	396,324.30	865,681.84	32.0852465	-103.2860765
12,400.0		359.45	10,030.0	1,050.8	-548.8	396,424.29	865,680.88	32.0855213	-103.2860764
12,500.0		359.45	10,030.0	2,056.8	-549.7	396,524.29	865,679.92	32.0857962	-103.2860764
12,600.0		359.45	10,030.0	2,156.8	-550.7	396,624.28	865,678.96	32.0860710	-103.2860764
12,700.0		359.45	10,030.0	2,256.8	-551.7	396,724.28	865,678.00	32.0863459	-103.2860763
12,800.0		359.45	10,030.0	2,356.8	-552.6	396,824.28	865,677.04	32.0866208	-103.2860763
12,900.0		359.45	10,030.0	2,456.8	-553.6	396,924.27	865,676.08	32.0868956	-103.2860763
13,000.0		359.45	10,030.0	2,556.8	-554.5	397,024.27	865,675.12	32.0871705	-103.2860762
13,100.0	90.00	359.45	10,030.0	2,656.8	-555.5	397,124.26	865,674.16	32.0874454	-103.2860762
13,200.0		359.45	10,030.0	2,756.8	-556.5	397,224.26	865,673.20	32.0877202	-103.2860762
13,300.0		359.45	10,030.0	2,856.8	-557.4	397,324.25	865,672.24	32.0879951	-103.2860761
13,400.0		359.45	10,030.0	2,956.8	-558.4	397,424.25	865,671.28	32.0882700	-103.2860761
13,500.0		359.45	10,030.0	3,056.8	-559.3	397,524.24	865,670.31	32.0885448	-103.2860761
13,600.0		359.45	10,030.0	3,156.8	-560.3	397,624.24	865,669.35	32.0888197	-103.2860760
13,700.0		359.45	10,030.0	3,256.8	-561.3	397,724.23	865,668.39	32.0890945	-103.2860760
13,800.0		359.45	10,030.0	3,356.8	-562.2	397,824.23	865,667.43	32.0893694	-103.2860760
13,900.0 14,000.0		359.45 359.45	10,030.0 10,030.0	3,456.8 3,556.7	-563.2 -564.1	397,924.22 398,024.22	865,666.47 865,665.51	32.0896443 32.0899191	-103.2860759 -103.2860759
14,000.0		359.45	10,030.0	3,656.7	-565.1	398,124.22	865,664.55	32.0901940	-103.2860759
14,200.0		359.45	10,030.0	3,756.7	-566.1	398,224.21	865,663.59	32.0901940	-103.2860758
14,300.0		359.45	10,030.0	3,856.7	-567.0	398,324.21	865,662.63	32.0907437	-103.2860758
14,400.0		359.45	10,030.0	3,956.7	-568.0	398,424.20	865,661.67	32.0910186	-103.2860758
14,500.0		359.45	10,030.0	4,056.7	-569.0	398,524.20	865,660.71	32.0912935	-103.2860757
14,600.0		359.45	10,030.0	4,156.7	-569.9	398,624.19	865,659.75	32.0915683	-103.2860757
14,700.0		359.45	10,030.0	4,256.7	-570.9	398,724.19	865,658.79	32.0918432	-103.2860757
14,800.0	90.00	359.45	10,030.0	4,356.7	-571.8	398,824.18	865,657.82	32.0921180	-103.2860756
14,900.0	90.00	359.45	10,030.0	4,456.7	-572.8	398,924.18	865,656.86	32.0923929	-103.2860756
15,000.0		359.45	10,030.0	4,556.7	-573.8	399,024.17	865,655.90	32.0926678	-103.2860756
15,100.0		359.45	10,030.0	4,656.7	-574.7	399,124.17	865,654.94	32.0929426	-103.2860755
15,200.0		359.45	10,030.0	4,756.7	-575.7	399,224.16	865,653.98	32.0932175	-103.2860755
15,300.0		359.45	10,030.0	4,856.7	-576.6	399,324.16	865,653.02	32.0934924	-103.2860755
15,400.0		359.45	10,030.0	4,956.7	-577.6	399,424.16	865,652.06	32.0937672	-103.2860754
15,500.0		359.45	10,030.0	5,056.7	-578.6	399,524.15	865,651.10	32.0940421	-103.2860754
15,600.0		359.45	10,030.0 10,030.0	5,156.7	-579.5	399,624.15	865,650.14	32.0943169	-103.2860754
15,700.0 15,800.0		359.45 359.45	10,030.0	5,256.7 5,356.7	-580.5 -581.4	399,724.14 399,824.14	865,649.18 865,648.22	32.0945918	-103.2860753
15,800.0		359.45	10,030.0	5,356.7 5,456.7	-561.4 -582.4	399,824.14 399,924.13	865,647.26	32.0948667 32.0951415	-103.2860753 -103.2860753
16,000.0		359.45	10,030.0	5,556.7	-583.4	400,024.13	865,646.29	32.0954164	-103.2860752
16,100.0		359.45	10,030.0	5,656.7	-584.3	400,024.13	865,645.33	32.0956913	-103.2860752
16,200.0		359.45	10,030.0	5,756.6	-585.3	400,224.12	865,644.37	32.0959661	-103.2860752
16,300.0		359.45	10,030.0	5,856.6	-586.2	400,324.11	865,643.41	32.0962410	-103.2860751
16,400.0		359.45	10,030.0	5,956.6	-587.2	400,424.11	865,642.45	32.0965159	-103.2860751
16,500.0		359.45	10,030.0	6,056.6	-588.2	400,524.10	865,641.49	32.0967907	-103.2860751
16,600.0		359.45	10,030.0	6,156.6	-589.1	400,624.10	865,640.53	32.0970656	-103.2860750
16,700.0		359.45	10,030.0	6,256.6	-590.1	400,724.10	865,639.57	32.0973404	-103.2860750
16,800.0	90.00	359.45	10,030.0	6,356.6	-591.1	400,824.09	865,638.61	32.0976153	-103.2860750



Database: AUS-COMPASS - EDM_15 - 32bit

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

Site: Red Bud_Holly

Well: RED BUD STATE COM 25 36 32 183H

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

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well RED BUD STATE COM 25 36 32 183H

KB=27' @ 3030.0usft KB=27' @ 3030.0usft

Grid

nned Surv	rey								
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	10,030.0	6,456.6	-592.0	400,924.09	865,637.65	32.0978902	-103.286074
17,000.0	90.00	359.45	10,030.0	6,556.6	-593.0	401,024.08	865,636.69	32.0981650	-103.286074
17,100.0	90.00	359.45	10,030.0	6,656.6	-593.9	401,124.08	865,635.73	32.0984399	-103.286074
17,200.0	90.00	359.45	10,030.0	6,756.6	-594.9	401,224.07	865,634.77	32.0987148	-103.286074
17,300.0	90.00	359.45	10,030.0	6,856.6	-595.9	401,324.07	865,633.80	32.0989896	-103.286074
17,400.0	90.00	359.45	10,030.0	6,956.6	-596.8	401,424.06	865,632.84	32.0992645	-103.286074
17,500.0	90.00	359.45	10,030.0	7,056.6	-597.8	401,524.06	865,631.88	32.0995393	-103.286074
17,600.0	90.00	359.45	10,030.0	7,156.6	-598.7	401,624.05	865,630.92	32.0998142	-103.286074
17,700.0		359.45	10,030.0	7,256.6	-599.7	401,724.05	865,629.96	32.1000891	-103.286074
17,800.0	90.00	359.45	10,030.0	7,356.6	-600.7	401,824.04	865,629.00	32.1003639	-103.28607
17,900.0		359.45	10,030.0	7,456.6	-601.6	401,924.04	865,628.04	32.1006388	-103.28607
18,000.0	90.00	359.45	10,030.0	7,556.6	-602.6	402,024.04	865,627.08	32.1009137	-103.286074
18,100.0		359.45	10,030.0	7,656.6	-603.5	402,124.03	865,626.12	32.1011885	-103.28607
18,200.0	90.00	359.45	10,030.0	7,756.6	-604.5	402,224.03	865,625.16	32.1014634	-103.28607
18,300.0	90.00	359.45	10,030.0	7,856.5	-605.5	402,324.02	865,624.20	32.1017382	-103.28607
18,400.0	90.00	359.45	10,030.0	7,956.5	-606.4	402,424.02	865,623.24	32.1020131	-103.28607
18,500.0	90.00	359.45	10,030.0	8,056.5	-607.4	402,524.01	865,622.28	32.1022880	-103.28607
18,600.0	90.00	359.45	10,030.0	8,156.5	-608.3	402,624.01	865,621.31	32.1025628	-103.28607
18,700.0	90.00	359.45	10,030.0	8,256.5	-609.3	402,724.00	865,620.35	32.1028377	-103.28607
18,800.0	90.00	359.45	10,030.0	8,356.5	-610.3	402,824.00	865,619.39	32.1031126	-103.28607
18,900.0	90.00	359.45	10,030.0	8,456.5	-611.2	402,923.99	865,618.43	32.1033874	-103.28607
19,000.0	90.00	359.45	10,030.0	8,556.5	-612.2	403,023.99	865,617.47	32.1036623	-103.28607
19,100.0		359.45	10,030.0	8,656.5	-613.1	403,123.98	865,616.51	32.1039372	-103.28607
19,200.0	90.00	359.45	10,030.0	8,756.5	-614.1	403,223.98	865,615.55	32.1042120	-103.28607
19,300.0	90.00	359.45	10,030.0	8,856.5	-615.1	403,323.98	865,614.59	32.1044869	-103.28607
19,400.0	90.00	359.45	10,030.0	8,956.5	-616.0	403,423.97	865,613.63	32.1047617	-103.28607
19,500.0	90.00	359.45	10,030.0	9,056.5	-617.0	403,523.97	865,612.67	32.1050366	-103.28607
19,600.0		359.45	10,030.0	9,156.5	-618.0	403,623.96	865,611.71	32.1053115	-103.28607
19,700.0	90.00	359.45	10,030.0	9,256.5	-618.9	403,723.96	865,610.75	32.1055863	-103.28607
19,800.0		359.45	10,030.0	9,356.5	-619.9	403,823.95	865,609.78	32.1058612	-103.28607
19,900.0		359.45	10,030.0	9,456.5	-620.8	403,923.95	865,608.82	32.1061361	-103.28607
20,000.0		359.45	10,030.0	9,556.5	-621.8	404,023.94	865,607.86	32.1064109	-103.28607
20,100.0		359.45	10,030.0	9,656.5	-622.8	404,123.94	865,606.90	32.1066858	-103.28607
20,200.0		359.45	10,030.0	9,756.5	-623.7	404,223.93	865,605.94	32.1069606	-103.28607
20,300.0		359.45	10,030.0	9,856.5	-624.7	404,323.93	865,604.98	32.1072355	-103.28607
20,400.0		359.45	10,030.0	9,956.5	-625.6	404,423.92	865,604.02	32.1075104	-103.28607
20,500.0		359.45	10,030.0	10,056.4	-626.6	404,523.92	865,603.06	32.1077852	-103.28607
20,600.0		359.45	10,030.0	10,156.4	-627.6	404,623.92	865,602.10	32.1080601	-103.28607
20,700.0		359.45	10,030.0	10,256.4	-628.5	404,723.91	865,601.14	32.1083350	-103.28607
20,748.9		359.45	10,030.0	10,305.3	-629.0	404,772.79	865,600.67	32.1084693	-103.28607
TD at 2			,	2,222.0		,	,		
I D at 2	01-10.3								



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Site: Red Bud_Holly

Well: RED BUD STATE COM 25 36 32 183H

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

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well RED BUD STATE COM 25 36 32 183H

KB=27' @ 3030.0usft KB=27' @ 3030.0usft

Grid

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 183H) - plan hits target of a Point	0.00 center	0.00	10,030.0	-105.2	-529.0	394,362.28	865,700.70	32.0798533	-103.2860771
BHL(RBSC 183H) - plan hits target c - Point	0.00 center	0.00	10,030.0	10,305.3	-629.0	404,772.79	865,600.67	32.1084693	-103.2860736
LTP(RBSC 183H) - plan hits target of a Point	0.00 center	0.00	10,030.0	10,255.3	-628.5	404,722.81	865,601.15	32.1083319	-103.2860736

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	4,242.6	4,230.0	Rustler			
	4,646.3	4,632.0	Salado			
	6,406.5	6,385.0	Tansill			
	6,855.3	6,832.0	Capitan			
	8,134.6	8,106.0	Lamar			
	8,217.9	8,189.0	Bell Canyon			
	10,077.8	9,961.0	Brushy Canyon			

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
1,259.7	1,259.4	-9.0	-7.6	Start 8295.5 hold at 1259.7 MD
4,020.0	4,008.3	-199.4	-169.5	NMNM137470 Entry at 4020.0 MD
9,555.2	9,520.8	-581.2	-494.1	KOP-Start DLS 12.00 TFO 138.97
10,240.0	10,020.0	-202.4	-527.4	NMNM137470 Exit at 10240.0 MD
10,337.9	10,030.0	-105.2	-529.0	LP-Start 10411.0 hold at 10337.9 MD
20,748.9	10,030.0	10,305.3	-629.0	TD at 20748.9