<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 341653

	APPLICATION FOR PERIVIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD I	AZUNE
Operator Name and Address		2. OGRID Number

Operator Name and Address		2. OGRID Number
AMEREDEV OPERATING, LLC 2901 Via Fortuna		372224 3. API Number
Austin, TX 78746		30-025-51602
4. Property Code	5. Property Name	6. Well No.
320762	RED BUD 25 36 32 STATE COM	064H

7 Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Α	5	26S	36E	Α	230	N	325	E	Lea

8. Proposed Bottom Hole Location

I	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	Α	29	25S	36E	Α	50	N	331	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	3002
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	19039	Bone Spring Lime		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. Froposed dasing and dement Frogram								
Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC		
Surf	17.5	13.375	54.5	1224	992	0		
Int1	12.25	10.75	45.5	5142	1450	0		
Prod	8 75	5.5	17	19039	6050	0		

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	TBD

knowledge and b	pelief. have complied with 19.15.14.9 (A)	s true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSER	EVATION DIVISION
Printed Name:				Paul F Kautz	
Title:	e: Regulatory		Title:	Geologist	
Email Address: channa@ameredev.com			Approved Date:	6/13/2023	Expiration Date: 6/13/2025
Date:	Date: 6/7/2023 Phone: 737-300-4723			roval Attached	

| District | 1625 N. French Dr., Hobbs, NM 88240 | Phone: (575) 393-6161 Fax: (575) 393-0720 | District II | St. 18. First St., Artesia, NM 88210 | Phone: (575) 748-1283 Fax: (575) 748-9720 | District III | 1000 Rio Brazos Road, Aztec, NM 87410 | Phone: (505) 334-6178 Fax: (505) 334-6170 | District IV | 1220 S. St. Francis Dr., Santa Fe, NM 8755 | Phone: (505) 476-3460 Fax: (505) 476-3462

5

A

26-S

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

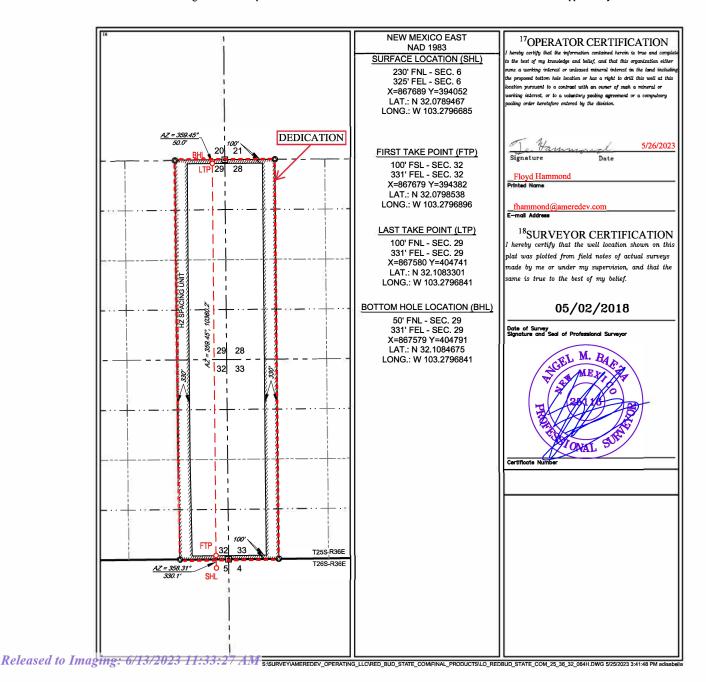
¹ API Number	r ² Pool Code ³ Pool Name							
30-025-5	1602	98150	WC-025 G-08 S263620C; LOWER BONE SPRING			G		
⁴ Property Code	e ⁵ Property Name						⁰Well Number	
320762	RED BUD 25 36 32 STATE COM					064H		
⁷ OGRID №.	No. *Operator Name *Elevation							
372224	AMEREDEV OPERATING, LLC. 3002'							
70	¹⁰ Surface Location							
III. or lot no Section	Township	Range Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County

| 36-E | - | 230' | NORTH | 325' | EAST | LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	29	25-S	36-E	-	50'	NORTH	331'	EAST	LEA
¹² Dedicated Acres	¹³ Joint or I	nfill 14Ce	onsolidation Co	de ¹⁵ Ord	er No.	1		, C	
640			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.



Form APD Conditions

Permit 341653

<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

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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**

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
AMEREDEV OPERATING, LLC [372224]	30-025-51602
2901 Via Fortuna	Well:
Austin, TX 78746	RED BUD 25 36 32 STATE COM #064H

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 Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description <u>Effective May 25, 2021</u>

I. O	perator:	Ameredev II, I	LC	COGRID:		1Date	_ Date: _06/07/2023		
II. I	Type: ⊠ Original □	Amendment due	to 🗆 19.15.27.	9.D(6)(a) NMAC	□ 19.15.27.9.1	D(6)(b) NMAC □ 0	Other.		
f O	ther, please describe:								
	Well(s): Provide the ecompleted from a sign					of wells proposed to	be drilled or proposed		
	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 13// 1 4 191		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:	[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 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.

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	ı:
--	----

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
			Start Date	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 \square will \square will not have capacity to gather 100%	of the anticipated natural gas
production volume from the well prior to the date of first production.	

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

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

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

(i)

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, a	fter reasonable inquiry and based on the available information at the time of submittal:
one hundred percent of	to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering
hundred percent of the a into account the current	able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one nticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. box, Operator will select one of the following:
Well Shut-In. □ Opera D of 19.15.27.9 NMAC	tor will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection ; or
	lan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential
	es for the natural gas until a natural gas gathering system is available, including:
(a) (b)	power generation on lease; power generation for grid;
(b) (c)	compression on lease;
(c) (d)	liquids removal on lease;
(e)	reinjection for underground storage;
(f)	reinjection for temporary storage;
(g)	reinjection for enhanced oil recovery;
(h)	fuel cell production; and

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature: Casca Gu
Printed Name: Cesca Yu
Title: Engineer
E-mail Address: cyu@ameredev.com
Date: 06/07/2023
Phone: 512-775-1417
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
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.

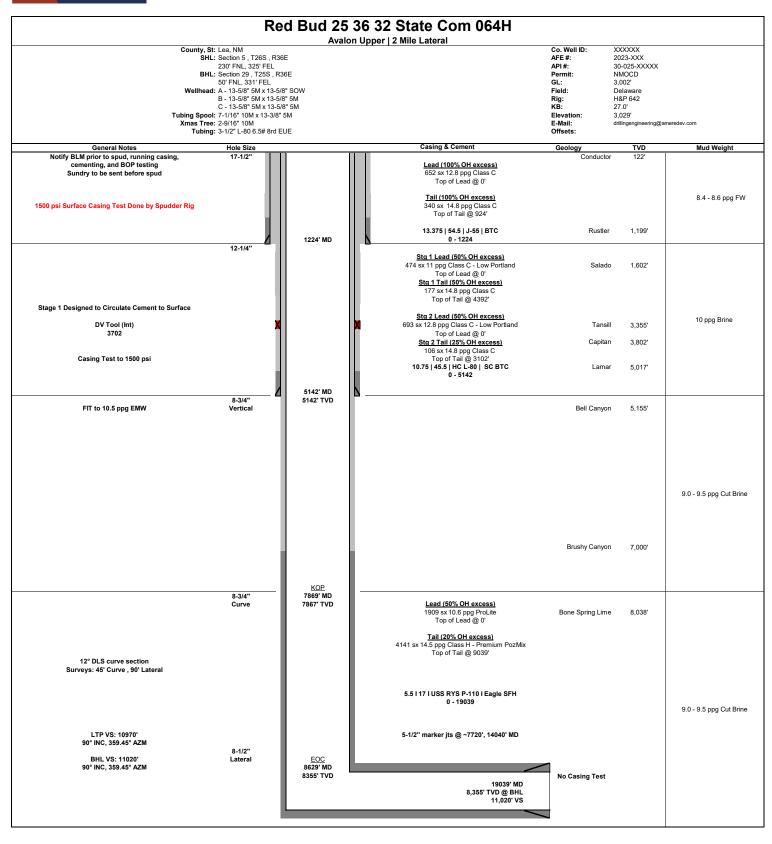
19.15.27.8 (F) Measurement or estimation of vented and flared natural gas

- 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 064H

OWB

Plan: PWP

Standard Planning Report - Geographic

31 May, 2023



AUS-COMPASS - EDM 15 - 32bit Database:

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

Site: Red Bud Holly

Well: RED BUD STATE COM 25 36 32 064H

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 064H

KB=27' @ 3029.0usft KB=27' @ 3029.0usft

Grid

Minimum Curvature

Lea County, NM (N83-NME) **Project**

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

New Mexico Eastern Zone

Mean Sea Level System Datum:

Site Red Bud Holly

Northing: 394,038.95 usft 32.0789464 Site Position: Latitude: Easting: 866,383.48 usft -103.2838831 Longitude: From: Lat/Long

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

Well RED BUD STATE COM 25 36 32 064H

Well Position 0.0 usft +N/-S Northing: 394,051.79 usft Latitude: 32.0789467

867,688.93 usfl -103.2796685 +E/-W 0.0 usft Easting: Longitude: **Position Uncertainty** 3.0 usft Wellhead Elevation: usf Ground Level: 3.002.0 usft

0.56° **Grid Convergence:**

Wellbore **OWB**

Declination **Magnetics Model Name** Sample Date **Dip Angle** Field Strength (°) (°) (nT) IGRF2020 59.74 47,235.63315997 5/31/2023 6.17

Design **PWP**

Audit Notes:

PROTOTYPE 0.0 Version: Phase: Tie On Depth:

Vertical Section: Depth From (TVD) +E/-W Direction +N/-S (usft) (usft) (usft) (°) 0.0 0.0 0.0 359.45

Plan Survey Tool Program Date 5/31/2023

Depth From Depth To

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

0.0 19,039.3 PWP (OWB) MWD 1

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 1,000.0 1,000.0 0.00 0.00 0.0 0.00 0.00 0.00 0.00 0.0 1,061.8 1.24 181.84 1,061.8 -0.70.0 2.00 2.00 0.00 181.84 7,868.8 1.24 181.84 7,867.2 -147.4 -4.7 0.00 0.00 0.00 0.00 8.629.1 90.00 359.45 8.355.0 329.9 -9.8 12.00 11.68 23.36 177.61 FTP(RBSC 064H) 19,039.3 90.00 359.45 8,355.0 10,739.6 -109.8 0.00 0.00 0.00 0.00 BHL(RBSC 064H)



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 064H

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 064H

KB=27' @ 3029.0usft KB=27' @ 3029.0usft

Grid

Planned Surv	/ev								
r lainlea our	, cy								
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	0.0	0.0	0.0	394,051.79	867,688.93	32.0789467	-103.2796685
100.0		0.00	100.0	0.0	0.0	394,051.79	867,688.93	32.0789467	-103.2796685
200.0		0.00	200.0	0.0	0.0	394,051.79	867,688.93	32.0789467	-103.2796685
300.0		0.00	300.0	0.0	0.0	394,051.79	867,688.93	32.0789467	-103.2796685
400.0		0.00 0.00	400.0	0.0	0.0	394,051.79	867,688.93	32.0789467	-103.2796685
500.0 600.0		0.00	500.0 600.0	0.0 0.0	0.0 0.0	394,051.79 394,051.79	867,688.93 867,688.93	32.0789467 32.0789467	-103.2796685 -103.2796685
700.0		0.00	700.0	0.0	0.0	394,051.79	867,688.93	32.0789467	-103.2796685
800.0		0.00	800.0	0.0	0.0	394,051.79	867,688.93	32.0789467	-103.2796685
900.0		0.00	900.0	0.0	0.0	394,051.79	867,688.93	32.0789467	-103.2796685
1,000.0	0.00	0.00	1,000.0	0.0	0.0	394,051.79	867,688.93	32.0789467	-103.2796685
	uild 2.00								
1,061.8			1,061.8	-0.7	0.0	394,051.12	867,688.91	32.0789449	-103.2796686
1,100.0	807.0 hold a 1.24	t 1061.8 MD 181.84	1,100.0	-1.5	0.0	394,050.30	867,688.88	32.0789426	-103.2796687
1,200.0			1,100.0	-3.6	-0.1	394,030.30	867,688.81	32.0789367	-103.2796690
1,300.0			1,299.9	-5.8	-0.2	394,045.99	867,688.74	32.0789308	-103.2796693
1,400.0			1,399.9	-8.0	-0.3	394,043.83	867,688.67	32.0789249	-103.2796696
1,500.0			1,499.9	-10.1	-0.3	394,041.68	867,688.61	32.0789189	-103.2796699
1,600.0			1,599.9	-12.3	-0.4	394,039.52	867,688.54	32.0789130	-103.2796702
1,700.0			1,699.8	-14.4	-0.5	394,037.37	867,688.47	32.0789071	-103.2796704
1,800.0			1,799.8	-16.6 -18.7	-0.5	394,035.21 394,033.06	867,688.40	32.0789012	-103.2796707
1,900.0 2,000.0			1,899.8 1,999.8	-16.7 -20.9	-0.6 -0.7	394,030.90	867,688.33 867,688.26	32.0788953 32.0788893	-103.2796710 -103.2796713
2,100.0		181.84	2,099.8	-23.0	-0.7	394,028.74	867,688.19	32.0788834	-103.2796716
2,200.0			2,199.7	-25.2	-0.8	394,026.59	867,688.12	32.0788775	-103.2796719
2,300.0	1.24	181.84	2,299.7	-27.4	-0.9	394,024.43	867,688.05	32.0788716	-103.2796722
2,400.0			2,399.7	-29.5	-0.9	394,022.28	867,687.98	32.0788656	-103.2796725
2,500.0			2,499.7	-31.7	-1.0	394,020.12	867,687.91	32.0788597	-103.2796728
2,600.0			2,599.6	-33.8	-1.1	394,017.97	867,687.84	32.0788538	-103.2796731
2,700.0 2,800.0			2,699.6 2,799.6	-36.0 -38.1	-1.2 -1.2	394,015.81 394,013.66	867,687.77 867,687.71	32.0788479 32.0788420	-103.2796734 -103.2796736
2,900.0		181.84	2,799.6	-40.3	-1.2 -1.3	394,011.50	867,687.64	32.0788360	-103.2796739
3,000.0			2,999.5	-42.4	-1.4	394,009.35	867,687.57	32.0788301	-103.2796742
3,100.0		181.84	3,099.5	-44.6	-1.4	394,007.19	867,687.50	32.0788242	-103.2796745
3,200.0		181.84	3,199.5	-46.8	-1.5	394,005.03	867,687.43	32.0788183	-103.2796748
3,300.0			3,299.5	-48.9	-1.6	394,002.88	867,687.36	32.0788123	-103.2796751
3,400.0		181.84	3,399.5	-51.1	-1.6	394,000.72	867,687.29	32.0788064	-103.2796754
3,500.0 3,600.0		181.84 181.84	3,499.4 3,599.4	-53.2 -55.4	-1.7 -1.8	393,998.57 393,996.41	867,687.22 867,687.15	32.0788005 32.0787946	-103.2796757 -103.2796760
3,700.0		181.84	3,699.4	-57.5	-1.8	393,994.26	867,687.08	32.0787886	-103.2796763
3,800.0			3,799.4	-59.7	-1.9	393,992.10	867,687.01	32.0787827	-103.2796766
3,900.0			3,899.3	-61.8	-2.0	393,989.95	867,686.94	32.0787768	-103.2796769
4,000.0		181.84	3,999.3	-64.0	-2.1	393,987.79	867,686.87	32.0787709	-103.2796771
4,100.0			4,099.3	-66.2	-2.1	393,985.64	867,686.81	32.0787650	-103.2796774
4,200.0			4,199.3	-68.3	-2.2	393,983.48	867,686.74	32.0787590	-103.2796777
4,300.0			4,299.2	-70.5	-2.3	393,981.32	867,686.67	32.0787531	-103.2796780 -103.2796783
4,400.0 4,500.0		181.84 181.84	4,399.2 4,499.2	-72.6 -74.8	-2.3 -2.4	393,979.17 393,977.01	867,686.60 867,686.53	32.0787472 32.0787413	-103.2796783 -103.2796786
4,600.0			4,499.2	-74.8 -76.9	-2.4 -2.5	393,974.86	867,686.46	32.0787353	-103.2796789
4,700.0			4,699.1	-79.1	- 2.5	393,972.70	867,686.39	32.0787294	-103.2796792
4,800.0			4,799.1	-81.2	-2.6	393,970.55	867,686.32	32.0787235	-103.2796795
4,900.0			4,899.1	-83.4	-2.7	393,968.39	867,686.25	32.0787176	-103.2796798
5,000.0	1.24	181.84	4,999.1	-85.6	-2.7	393,966.24	867,686.18	32.0787117	-103.2796801



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 064H

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 064H

KB=27' @ 3029.0usft KB=27' @ 3029.0usft

Grid

Planned Surv	/ev								
r ramiou our	, ,								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,100.0	1.24	181.84	5,099.1	-87.7	- 2.8	393,964.08	867,686.11	32.0787057	-103.2796804
5,200.0		181.84	5,199.0	-89.9	-2.9	393,961.93	867,686.04	32.0786998	-103.2796806
5,300.0			5,299.0	-92.0	-3.0	393,959.77	867,685.97	32.0786939	-103.2796809
5,400.0			5,399.0	-94.2	-3.0	393,957.61	867,685.91	32.0786880	-103.2796812
5,500.0 5,600.0		181.84 181.84	5,499.0 5,598.9	-96.3 -98.5	-3.1 -3.2	393,955.46 393,953.30	867,685.84 867,685.77	32.0786820 32.0786761	-103.2796815 -103.2796818
5,700.0			5,698.9	-100.6	-3.2 -3.2	393,951.15	867,685.70	32.0786702	-103.2796821
5,800.0		181.84	5,798.9	-102.8	-3.3	393,948.99	867,685.63	32.0786643	-103.2796824
5,900.0			5,898.9	-105.0	-3.4	393,946.84	867,685.56	32.0786584	-103.2796827
6,000.0			5,998.8	-107.1	-3.4	393,944.68	867,685.49	32.0786524	-103.2796830
6,100.0			6,098.8	-109.3	-3.5	393,942.53	867,685.42	32.0786465	-103.2796833
6,200.0		181.84	6,198.8	-111.4	-3.6	393,940.37	867,685.35	32.0786406	-103.2796836
6,300.0			6,298.8	-113.6	-3.6	393,938.22	867,685.28	32.0786347	-103.2796839
6,400.0		181.84	6,398.8	-115.7	-3.7	393,936.06	867,685.21	32.0786287	-103.2796841
6,500.0 6,600.0		181.84 181.84	6,498.7 6,598.7	-117.9 -120.0	-3.8 -3.9	393,933.90 393,931.75	867,685.14 867,685.07	32.0786228 32.0786169	-103.2796844 -103.2796847
6,700.0			6,698.7	-120.0	-3.9 -3.9	393,929.59	867,685.01	32.0786110	-103.2796850
6,800.0		181.84	6,798.7	-124.4	-4.0	393,927.44	867,684.94	32.0786051	-103.2796853
6,900.0			6,898.6	-126.5	-4.1	393,925.28	867,684.87	32.0785991	-103.2796856
7,000.0			6,998.6	-128.7	-4.1	393,923.13	867,684.80	32.0785932	-103.2796859
7,100.0	1.24		7,098.6	-130.8	-4.2	393,920.97	867,684.73	32.0785873	-103.2796862
7,200.0		181.84	7,198.6	-133.0	-4.3	393,918.82	867,684.66	32.0785814	-103.2796865
7,300.0			7,298.5	-135.1	-4.3	393,916.66	867,684.59	32.0785754	-103.2796868
7,400.0		181.84	7,398.5	-137.3	-4.4	393,914.51	867,684.52	32.0785695	-103.2796871
7,500.0			7,498.5	-139.4	-4.5	393,912.35	867,684.45	32.0785636	-103.2796873
7,600.0 7,700.0			7,598.5 7,698.5	-141.6 -143.7	-4.5 -4.6	393,910.19 393,908.04	867,684.38 867,684.31	32.0785577 32.0785518	-103.2796876 -103.2796879
7,800.0		181.84	7,798.4	-145.7	-4.7	393,905.88	867,684.24	32.0785458	-103.2796882
7,868.8		181.84	7,867.2	-147.4	-4.7	393,904.40	867,684.20	32.0785418	-103.2796884
-	tart DLS 12.0	00 TFO 177				,	,		
7,875.0			7,873.4	-147.5	-4.7	393,904.31	867,684.19	32.0785415	-103.2796884
7,900.0		358.27	7,898.4	-147.0	-4.8	393,904.75	867,684.16	32.0785427	-103.2796885
7,925.0		358.91	7,923.3	-145.3	-4.8	393,906.49	867,684.13	32.0785475	-103.2796886
7,950.0		359.10	7,948.2	-142.2	-4.9	393,909.54	867,684.07	32.0785559	-103.2796887
7,975.0		359.20	7,972.8	-137.9	-4.9 5.0	393,913.88	867,684.01	32.0785678 32.0785833	-103.2796887
8,000.0 8,025.0		359.25 359.29	7,997.1 8,021.2	-132.3 -125.4	-5.0 -5.1	393,919.51 393,926.40	867,683.93 867,683.85	32.0786022	-103.2796888 -103.2796889
8,050.0		359.31	8,044.8	-117.3	-5.2	393,934.54	867,683.75	32.0786246	-103.2796889
8,075.0		359.33	8,068.0	-107.9	-5.3	393,943.90	867,683.64	32.0786503	-103.2796890
8,100.0		359.35	8,090.6	-97.3	-5.4	393,954.47	867,683.51	32.0786794	-103.2796890
8,125.0		359.36	8,112.7	-85.6	-5.5	393,966.21	867,683.38	32.0787116	-103.2796891
8,150.0		359.37	8,134.1	-72.7	-5.7	393,979.08	867,683.24	32.0787470	-103.2796892
8,175.0		359.38	8,154.8	-58.7	-5.8	393,993.06	867,683.09	32.0787855	-103.2796892
8,200.0		359.38	8,174.8	-43.7	-6.0	394,008.11	867,682.92	32.0788268	-103.2796893
8,225.0		359.39	8,193.9	-27.6	-6.2	394,024.17	867,682.75	32.0788710	-103.2796893
8,250.0 8,275.0		359.40 359.40	8,212.2 8,229.6	-10.6 7.4	-6.4 -6.5	394,041.22 394,059.20	867,682.57 867,682.38	32.0789179 32.0789673	-103.2796894 -103.2796894
8,300.0		359.40	8,246.0	26.3	-6.7	394,039.20	867,682.19	32.0790191	-103.2796894
8,325.0		359.41	8,261.4	46.0	-6.9	394,097.77	867,681.98	32.0790733	-103.2796895
8,350.0		359.42	8,275.7	66.5	- 7.2	394,118.25	867,681.77	32.0791296	-103.2796895
8,375.0		359.42	8,289.0	87.7	-7.4	394,139.44	867,681.56	32.0791878	-103.2796895
8,400.0		359.42	8,301.1	109.5	-7.6	394,161.31	867,681.34	32.0792479	-103.2796896
8,425.0		359.43	8,312.0	132.0	-7.8	394,183.77	867,681.11	32.0793097	-103.2796896
8,450.0	68.51	359.43	8,321.8	155.0	-8.0	394,206.78	867,680.88	32.0793729	-103.2796896



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 064H

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 064H

KB=27' @ 3029.0usft KB=27' @ 3029.0usft

Grid

Blanned Sum	'0 '								
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
8,475.0	71.51	359.43	8,330.3	178.5	-8.3	394,230.27	867,680.65	32.0794375	-103.2796896
8,500.0	74.51	359.44	8,337.6	202.4	-8.5	394,254.18	867,680.41	32.0795032	-103.2796896
8,525.0		359.44	8,343.7	226.6	-8.8	394,278.43	867,680.17	32.0795699	-103.2796896
8,530.0		359.44	8,344.7	231.5	-8.8	394,283.30	867,680.13	32.0795833	-103.2796896
	137470 Exit			0=4.0		~~~~			400.0=0000
8,550.0		359.44	8,348.5	251.2 275.9	-9.0	394,302.97	867,679.93	32.0796373	-103.2796896
8,575.0 8,600.0		359.44 359.45	8,351.9 8,354.1	300.8	-9.2 -9.5	394,327.72 394,352.62	867,679.69 867,679.45	32.0797054 32.0797738	-103.2796896 -103.2796896
8,625.0		359.45	8,355.0	325.8	-9.3 -9.7	394,377.60	867,679.21	32.0797736	-103.2796896
8,629.1	90.00	359.45	8,355.0	329.9	-9.8	394,381.73	867,679.17	32.0798538	-103.2796896
	rt 10410.2 h								
8,700.0		359.45	8,355.0	400.8	-10.4	394,452.60	867,678.49	32.0800486	-103.2796896
8,800.0	90.00	359.45	8,355.0	500.8	-11.4	394,552.60	867,677.53	32.0803235	-103.2796895
8,900.0		359.45	8,355.0	600.8	-12.4	394,652.59	867,676.57	32.0805984	-103.2796895
9,000.0		359.45	8,355.0	700.8	-13.3	394,752.59	867,675.61	32.0808732	-103.2796894
9,100.0		359.45	8,355.0	8.008	-14.3	394,852.58	867,674.65	32.0811481	-103.2796894
9,200.0		359.45	8,355.0	900.8	-15.2	394,952.58	867,673.69	32.0814230 32.0816978	-103.2796893
9,300.0 9,400.0		359.45 359.45	8,355.0 8,355.0	1,000.8 1,100.8	-16.2 -17.2	395,052.57 395,152.57	867,672.73 867,671.76	32.0819727	-103.2796892 -103.2796892
9,500.0		359.45	8,355.0	1,100.8	-17.2	395,252.56	867,670.80	32.0822475	-103.2796891
9,600.0		359.45	8,355.0	1,300.8	-19.1	395,352.56	867,669.84	32.0825224	-103.2796891
9,700.0		359.45	8,355.0	1,400.8	-20.0	395,452.55	867,668.88	32.0827973	-103.2796890
9,800.0		359.45	8,355.0	1,500.8	-21.0	395,552.55	867,667.92	32.0830721	-103.2796890
9,900.0		359.45	8,355.0	1,600.8	-22.0	395,652.54	867,666.96	32.0833470	-103.2796889
10,000.0		359.45	8,355.0	1,700.8	-22.9	395,752.54	867,666.00	32.0836219	-103.2796889
10,100.0		359.45	8,355.0	1,800.7	-23.9	395,852.54	867,665.04	32.0838967	-103.2796888
10,200.0		359.45	8,355.0	1,900.7	-24.9	395,952.53	867,664.08	32.0841716	-103.2796888
10,300.0 10,400.0		359.45 359.45	8,355.0 8,355.0	2,000.7 2,100.7	-25.8 -26.8	396,052.53 396,152.52	867,663.12 867,662.16	32.0844465 32.0847213	-103.2796887 -103.2796887
10,500.0		359.45	8,355.0	2,100.7	-20.0 -27.7	396,252.52	867,661.20	32.0849962	-103.2796886
10,600.0		359.45	8,355.0	2,300.7	-28.7	396,352.51	867,660.24	32.0852710	-103.2796886
10,700.0		359.45	8,355.0	2,400.7	-29.7	396,452.51	867,659.27	32.0855459	-103.2796885
10,800.0	90.00	359.45	8,355.0	2,500.7	-30.6	396,552.50	867,658.31	32.0858208	-103.2796885
10,900.0		359.45	8,355.0	2,600.7	-31.6	396,652.50	867,657.35	32.0860956	-103.2796884
11,000.0		359.45	8,355.0	2,700.7	-32.5	396,752.49	867,656.39	32.0863705	-103.2796884
11,100.0		359.45	8,355.0	2,800.7	-33.5	396,852.49	867,655.43	32.0866454	-103.2796883
11,200.0		359.45 359.45	8,355.0	2,900.7	-34.5	396,952.48	867,654.47	32.0869202	-103.2796883
11,300.0 11,400.0		359.45	8,355.0 8,355.0	3,000.7 3,100.7	-35.4 -36.4	397,052.48 397,152.48	867,653.51 867,652.55	32.0871951 32.0874699	-103.2796882 -103.2796882
11,500.0		359.45	8,355.0	3,200.7	-37.3	397,152.47	867,651.59	32.0877448	-103.2796881
11,600.0		359.45	8,355.0	3,300.7	-38.3	397,352.47	867,650.63	32.0880197	-103.2796881
11,700.0		359.45	8,355.0	3,400.7	-39.3	397,452.46	867,649.67	32.0882945	-103.2796880
11,800.0		359.45	8,355.0	3,500.7	-40.2	397,552.46	867,648.71	32.0885694	-103.2796879
11,900.0	90.00	359.45	8,355.0	3,600.7	-41.2	397,652.45	867,647.75	32.0888443	-103.2796879
12,000.0		359.45	8,355.0	3,700.7	-42.1	397,752.45	867,646.78	32.0891191	-103.2796878
12,100.0		359.45	8,355.0	3,800.7	-43.1	397,852.44	867,645.82	32.0893940	-103.2796878
12,200.0		359.45	8,355.0	3,900.6	-44.1	397,952.44	867,644.86	32.0896688	-103.2796877
12,300.0		359.45 359.45	8,355.0 8,355.0	4,000.6	-45.0 -46.0	398,052.43 398,152.43	867,643.90 867,642.94	32.0899437 32.0902186	-103.2796877 -103.2796876
12,400.0 12,500.0		359.45 359.45	8,355.0 8,355.0	4,100.6 4,200.6	-46.0 -46.9	398,152.43 398,252.42	867,642.94 867,641.98	32.0902186	-103.2796876
12,600.0		359.45	8,355.0	4,300.6	-47.9	398,352.42	867,641.02	32.0907683	-103.2796875
12,700.0		359.45	8,355.0	4,400.6	-48.9	398,452.42	867,640.06	32.0910432	-103.2796875
12,800.0		359.45	8,355.0	4,500.6	-49.8	398,552.41	867,639.10	32.0913180	-103.2796874
12,900.0		359.45	8,355.0	4,600.6	-50.8	398,652.41	867,638.14	32.0915929	-103.2796874



Database: AUS-COMPASS - EDM_15 - 32bit

Company: Ameredev Operating
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Site: Red Bud_Holly

Well: RED BUD STATE COM 25 36 32 064H

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

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Survey Calculation Method:

Well RED BUD STATE COM 25 36 32 064H

KB=27' @ 3029.0usft KB=27' @ 3029.0usft

Grid

Design:	PVVF								
Planned Surv	/ev								
r iaimea cart	- J								
Measured			Vertical			Мар	Мар		
Depth	Inclination		Depth	+N/-S	+E/-W	Northing	Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
13,000.0	90.00	359.45	8,355.0	4,700.6	-51.8	398,752.40	867,637.18	32.0918678	-103.2796873
13,100.0		359.45	8,355.0	4,800.6	-52.7	398,852.40	867,636.22	32.0921426	-103.2796873
13,200.0	90.00	359.45	8,355.0	4,900.6	-53.7	398,952.39	867,635.26	32.0924175	-103.2796872
13,300.0	90.00	359.45	8,355.0	5,000.6	-54.6	399,052.39	867,634.29	32.0926923	-103.2796872
13,400.0	90.00	359.45	8,355.0	5,100.6	-55.6	399,152.38	867,633.33	32.0929672	-103.2796871
13,500.0		359.45	8,355.0	5,200.6	-56.6	399,252.38	867,632.37	32.0932421	-103.2796871
13,600.0		359.45	8,355.0	5,300.6	-57.5	399,352.37	867,631.41	32.0935169	-103.2796870
13,700.0		359.45	8,355.0	5,400.6	-58.5	399,452.37	867,630.45	32.0937918	-103.2796869
13,800.0		359.45	8,355.0	5,500.6	-59.4	399,552.37	867,629.49	32.0940667	-103.2796869
13,900.0		359.45	8,355.0	5,600.6	-60.4	399,652.36	867,628.53	32.0943415	-103.2796868
14,000.0		359.45	8,355.0	5,700.6	-61.4	399,752.36	867,627.57	32.0946164	-103.2796868
14,100.0		359.45	8,355.0	5,800.6	-62.3	399,852.35	867,626.61	32.0948912	-103.2796867
14,200.0		359.45	8,355.0	5,900.6	-63.3	399,952.35	867,625.65	32.0951661	-103.2796867
14,300.0		359.45	8,355.0	6,000.6	-64.2	400,052.34 400,152.34	867,624.69	32.0954410	-103.2796866
14,400.0 14,500.0		359.45 359.45	8,355.0 8,355.0	6,100.5 6,200.5	-65.2 -66.2	400,152.34	867,623.73 867,622.77	32.0957158 32.0959907	-103.2796866 -103.2796865
14,600.0		359.45	8,355.0	6,300.5	-60.2 -67.1	400,252.33	867,621.81	32.0959907	-103.2796865
14,700.0		359.45	8,355.0	6,400.5	-68.1	400,452.32	867,620.84	32.0965404	-103.2796864
14,800.0		359.45	8,355.0	6,500.5	-69.0	400,552.32	867,619.88	32.0968153	-103.2796864
14,900.0		359.45	8,355.0	6,600.5	-70.0	400,652.31	867,618.92	32.0970901	-103.2796863
15,000.0		359.45	8,355.0	6,700.5	-71.0	400,752.31	867,617.96	32.0973650	-103.2796863
15,100.0		359.45	8,355.0	6,800.5	-71.9	400,852.31	867,617.00	32.0976399	-103.2796862
15,200.0		359.45	8,355.0	6,900.5	-72.9	400,952.30	867,616.04	32.0979147	-103.2796862
15,300.0	90.00	359.45	8,355.0	7,000.5	-73.9	401,052.30	867,615.08	32.0981896	-103.2796861
15,400.0	90.00	359.45	8,355.0	7,100.5	-74.8	401,152.29	867,614.12	32.0984645	-103.2796860
15,500.0	90.00	359.45	8,355.0	7,200.5	-75.8	401,252.29	867,613.16	32.0987393	-103.2796860
15,600.0		359.45	8,355.0	7,300.5	-76.7	401,352.28	867,612.20	32.0990142	-103.2796859
15,700.0		359.45	8,355.0	7,400.5	-77.7	401,452.28	867,611.24	32.0992890	-103.2796859
15,800.0		359.45	8,355.0	7,500.5	-78.7	401,552.27	867,610.28	32.0995639	-103.2796858
15,900.0		359.45	8,355.0	7,600.5	-79.6	401,652.27	867,609.32	32.0998388	-103.2796858
16,000.0		359.45	8,355.0	7,700.5	-80.6	401,752.26	867,608.35	32.1001136	-103.2796857
16,100.0		359.45	8,355.0	7,800.5	-81.5	401,852.26	867,607.39	32.1003885	-103.2796857
16,200.0		359.45	8,355.0	7,900.5	-82.5	401,952.25	867,606.43	32.1006634	-103.2796856
16,300.0		359.45	8,355.0	8,000.5	-83.5	402,052.25	867,605.47	32.1009382	-103.2796856
16,400.0 16,500.0		359.45 359.45	8,355.0 8,355.0	8,100.5 8,200.5	-84.4 -85.4	402,152.25 402,252.24	867,604.51 867,603.55	32.1012131 32.1014879	-103.2796855 -103.2796855
16,600.0		359.45	8,355.0	8,300.4	-86.3	402,252.24	867,602.59	32.1014679 32.1017628	-103.2796854
16,700.0		359.45	8,355.0	8,400.4	-87.3	402,352.24	867,601.63	32.1017020	-103.2796854
16,800.0		359.45	8,355.0	8,500.4	-88.3	402,452.23	867,600.67	32.1020377	-103.2796853
16,900.0		359.45	8,355.0	8,600.4	-89.2	402,652.22	867,599.71	32.1025874	-103.2796852
17,000.0		359.45	8,355.0	8,700.4	-90.2	402,752.22	867,598.75	32.1028623	-103.2796852
17,100.0		359.45	8,355.0	8,800.4	-91.1	402,852.21	867,597.79	32.1031371	-103.2796851
17,200.0		359.45	8,355.0	8,900.4	-92.1	402,952.21	867,596.83	32.1034120	-103.2796851
17,300.0		359.45	8,355.0	9,000.4	-93.1	403,052.20	867,595.86	32.1036868	-103.2796850
17,400.0	90.00	359.45	8,355.0	9,100.4	-94.0	403,152.20	867,594.90	32.1039617	-103.2796850
17,500.0		359.45	8,355.0	9,200.4	-95.0	403,252.19	867,593.94	32.1042366	-103.2796849
17,600.0		359.45	8,355.0	9,300.4	-95.9	403,352.19	867,592.98	32.1045114	-103.2796849
17,700.0		359.45	8,355.0	9,400.4	-96.9	403,452.19	867,592.02	32.1047863	-103.2796848
17,800.0		359.45	8,355.0	9,500.4	-97.9	403,552.18	867,591.06	32.1050612	-103.2796848
17,900.0		359.45	8,355.0	9,600.4	-98.8	403,652.18	867,590.10	32.1053360	-103.2796847
18,000.0		359.45	8,355.0	9,700.4	-99.8	403,752.17	867,589.14	32.1056109	-103.2796847
18,100.0		359.45	8,355.0	9,800.4	-100.8	403,852.17	867,588.18	32.1058857	-103.2796846
18,200.0		359.45	8,355.0	9,900.4	-101.7	403,952.16	867,587.22	32.1061606	-103.2796845
18,300.0 18,400.0		359.45 359.45	8,355.0 8,355.0	10,000.4 10,100.4	-102.7 -103.6	404,052.16 404,152.15	867,586.26 867,585.30	32.1064355 32.1067103	-103.2796845 -103.2796844
10,400.0	90.00	ააყ.45	0,333.0	10, 100.4	-103.0	404,152.15	001,305.30	32.1067103	-103.2790044



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 064H

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 064H

KB=27' @ 3029.0usft KB=27' @ 3029.0usft

Grid

easured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
18,500.0	90.00	359.45	8,355.0	10,200.4	-104.6	404,252.15	867,584.34	32.1069852	-103.279684
18,600.0	90.00	359.45	8,355.0	10,300.4	-105.6	404,352.14	867,583.37	32.1072601	-103.279684
18,700.0	90.00	359.45	8,355.0	10,400.3	-106.5	404,452.14	867,582.41	32.1075349	-103.279684
18,800.0	90.00	359.45	8,355.0	10,500.3	-107.5	404,552.13	867,581.45	32.1078098	-103.279684
18,900.0	90.00	359.45	8,355.0	10,600.3	-108.4	404,652.13	867,580.49	32.1080846	-103.279684
19,000.0	90.00	359.45	8,355.0	10,700.3	-109.4	404,752.13	867,579.53	32.1083595	-103.279684
19.039.3	90.00	359.45	8,355.0	10.739.6	-109.8	404.791.42	867,579.15	32.1084675	-103.279684

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL(RBSC 064H) - plan hits target co - Point	0.00 enter	0.00	8,355.0	10,739.6	-109.8	404,791.42	867,579.15	32.1084675	-103.2796841
FTP(RBSC 064H) - plan hits target of - Point	0.00 enter	0.00	8,355.0	329.9	-9.8	394,381.73	867,679.17	32.0798538	-103.2796896
LTP(RBSC 064H) - plan hits target co - Point	0.00 enter	0.00	8,355.0	10,689.6	-109.3	404,741.44	867,579.64	32.1083301	-103.2796841

Plan Annotations				
Measured	Vertical	ertical Local Coordinates		
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
1,000.0	1,000.0	0.0	0.0	Start Build 2.00
1,061.8	1,061.8	-0.7	0.0	Start 6807.0 hold at 1061.8 MD
7,868.8	7,867.2	-147.4	-4.7	KOP-Start DLS 12.00 TFO 177.61
8,530.0	8,344.7	231.5	-8.8	NMNM137470 Exit at 8530.0 MD
8,629.1	8,355.0	329.9	-9.8	LP-Start 10410.2 hold at 8629.1 MD
19,039.3	8,355.0	10,739.6	-109.8	TD at 19039.3