<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 315767

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

APPLICATION FOR PERIVIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE						
Operator Name and Address		2. OGRID Number				
AMEREDEV OPERATING, LLC	372224					
2901 Via Fortuna	3. API Number					
Austin, TX 78746		30-025-50174				
4. Property Code	5. Property Name	6. Well No.				
320762	RED BUD 25 36 32 STATE COM	087H				

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
0	32	258	36E	0	200	S	1322	E	Lea

8. Proposed Bottom Hole Location

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	660	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	3004
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	20688	3rd Bone Spring Carbonate		7/1/2022
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
				·

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

21. Proposed Casing and Cement Program

	Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC			
I	Surf	17.5	13.375	68	1228	1071	0			
ſ	Int1	12.25	9.625	40	5190	2690	0			
I	Prod	8.75	5.5	20	20688	1511	0			

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram 5000		2500	TBD

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.				OIL CONSERVATION	ON DIVISION
Signature:					
Printed Name:	Electronically filed by Christie Ha	inna	Approved By:	Paul F Kautz	
Title:			Title:	Geologist	
Email Address: channa@ameredev.com			Approved Date:	5/25/2022	Expiration Date: 5/25/2024
Date:	5/11/2022	Phone: 737-300-4723	Conditions of Appr	oval Attached	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

AMENDED REPORT

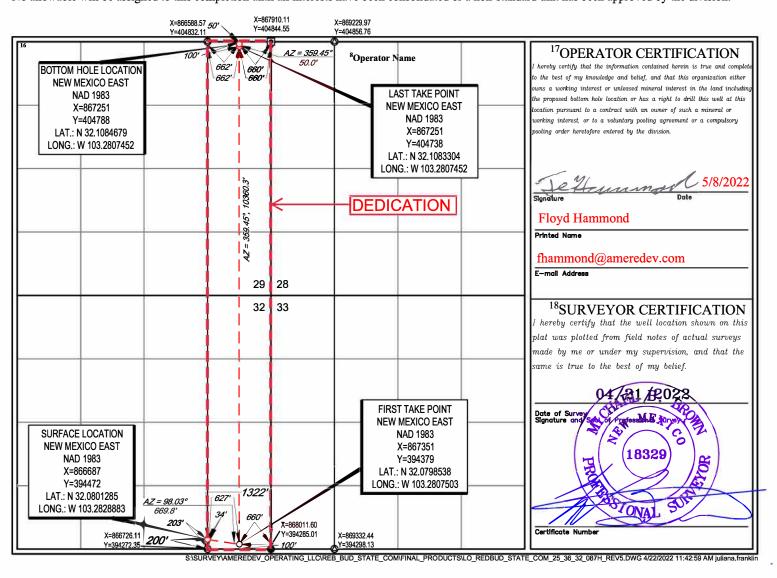
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-50174		² Pool Code 98150	³ Pool Name WC-025 G-08 S263620C; LWR	Bone Spring
⁴ Property Code		Pr	operty Name	⁶ Well Number
320762		RED BUD 25	36 32 STATE COM	087H
⁷ OGRID N₀.		⁹ Elevation		
372224		AMEREDEV	OPERATING, LLC.	3004'

¹⁰Surface Location

	O	32	25-S	36-E	Lot Idn	200'	SOUTH	1322'	EAST	LEA
_			,	11	Bottom He	ole Location If I	Different From Su	rface	Ki	:
Ū	L 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	\$ 6	50'	NORTH	660'	EAST	LEA
$^{12}\Gamma$	Dedicated Acres	¹³ Joint or I	nfill 14(Consolidation Co	de ¹⁵ Or	ler No.		_		
	320			С						

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.



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

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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 315767

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
AMEREDEV OPERATING, LLC [372224]	30-025-50174
2901 Via Fortuna	Well:
Austin, TX 78746	RED BUD 25 36 32 STATE COM #087H

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



H₂S Drilling Operation Plan

1. All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:

- a. Characteristics of H₂S
- b. Physical effects and hazards
- c. Principal and operation of H₂s detectors, warning system and briefing areas
- d. Evacuation procedure, routes and first aid
- e. Proper use of safety equipment and life support systems
- f. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

2. Briefing Area:

- a. Two perpendicular areas will be designated by signs and readily accessible.
- **b.** Upon location entry there will be a designated area to establish all safety compliance criteria (1.) has been met.

3. H₂S Detection and Alarm Systems:

- a. H_2S sensors/detectors shall be located on the drilling rig floor, in the base of the sub structure/cellar area, and on the mud pits in the shale shaker area. Additional H_2S detectors may be placed as deemed necessary. All detectors will be set to initiate visual alarm at 10 ppm and visual with audible at 14 ppm and all equipment will be calibrated every 30 days or as needed.
- **b.** An audio alarm will be installed on the derrick floor and in the top doghouse.

4. Protective Equipment for Essential Personnel:

a. Breathing Apparatus:

- i. Rescue Packs (SCBA) 1 Unit shall be placed at each briefing area.
- ii. Two (SCBA) Units will be stored in safety trailer on location.
- iii. Work/Escape packs 1 Unit will be available on rig floor in doghouse for emergency evacuation for driller.

b. **Auxiliary Rescue Equipment:**

- i. Stretcher
- ii. 2 OSHA full body harnesses
- iii. 100 ft. 5/8" OSHA approved rope
- iv. 1 20# class ABC fire extinguisher

5. Windsock and/or Wind Streamers:

- a. Windsock at mud pit area should be high enough to be visible.
- **b.** Windsock on the rig floor should be high enough to be visible.

6. Communication:

- a. While working under mask scripting boards will be used for communication where applicable.
- **b.** Hand signals will be used when script boards are not applicable.



H₂S Drilling Operation Plan

- c. Two way radios will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at Drilling Foreman's Office.
- 7. <u>Drill Stem Testing:</u> No Planned DST at this time.

8. Mud program:

a. If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

9. Metallurgy:

- a. All drill strings, casing, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.
- **b.** Drilling Contractor supervisor will be required to be familiar with the effect H₂S has on tubular goods and other mechanical equipment provided through contractor.



H₂S Contingency Plan

Emergency Procedures

In the event of a release of H₂S, the first responder(s) must:

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response.
- Take precautions to avoid personal injury during this operation.
- Contact Operator and/or local officials the aid in operation. See list of phone numbers attached.
- Have received training in the:
 - o Detection of H₂S and
 - o Measures for protection against the gas,
 - o Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air=1	2 ppm	N/A	1000 ppm

Contacting Authorities

Ameredev Operating LLC personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including direction to site. The following call list of essential and potential responders has been prepared for use during a release. Ameredev Operating LLC's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER)



H₂S Contingency Plan

Ameredev Operating LLC – Emergency Phone 737-300-4799								
Key Personnel:								
Name	Title	Office	Mobile					
Floyd Hammond	Chief Operating officer	737-300-4724	512-783-6810					
Shane McNeely	Operations Engineer	737-300-4729	432-413-8593					
Joe Bob Jones	, 1							

<u>Artesia</u>	
Ambulance	911
State Police	575-746-2703
City Police	575-746-2703
Sheriff's Office	575-746-9888
Fire Department	575-746-2701
Local Emergency Planning Committee	575-746-2122
New Mexico Oil Conservation Division	575-748-1283
Carlsbad	
Ambulance	911
State Police	575-885-3137
City Police	575-885-2111
Sheriff's Office	575-887-7551
Fire Department	575-887-3798
Local Emergency Planning Committee	575-887-6544
US Bureau of Land Management	575-887-6544
<u>Santa Fe</u>	
New Mexico Emergency Response Commission (Santa Fe)	505-476-9600
New Mexico Emergency Response Commission (Santa Fe) 24 Hrs	505-827-9126
New Mexico State Emergency Operations Center	505-476-9635
National	
National Emergency Response Center (Washington, D.C.)	800-424-8802
<u>Medical</u>	
Flight for Life - 4000 24th St.; Lubbock, TX	806-743-9911
Aerocare - R3, Box 49F; Lubbock, TX	806-747-8923
Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM	505-842-4433
.'SB Air Med Service - 2505 Clark Carr Loop S.E.; Albuquerque, NN	505-842-4949



American Resource Development LLC.

Ameredev Operating

Lea County, NM (N83-NME)
Red Bud_Holly
Red Bud Fed Com 25-36-32 087H

087H

Plan: Baseline Plan #1 - 359.44

Standard Planning Report

27 April, 2022



Database: AUS-COMPASS - EDM_15 - 32bit

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

Site: Red Bud_Holly

Well: Red Bud Fed Com 25-36-32 087H

Wellbore: 087H

Design: Baseline Plan #1 - 359.44

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Red Bud Fed Com 25-36-32 087H

47,372.20802862

GL 3003 + 27 KB @ 3030.0usft GL 3003 + 27 KB @ 3030.0usft

Grid

Minimum Curvature

59.79

359.45

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:
 32.07894640

 From:
 Lat/Long
 Easting:
 866,383.48 usft
 Longitude:
 -103.28388310

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

IGRF2020

Well Red Bud Fed Com 25-36-32 087H

 Well Position
 +N/-S
 0.0 usft
 Northing:
 394,472.00 usft
 Latitude:
 32.08012851

 +E/-W
 0.0 usft
 Easting:
 866,687.00 usft
 Longitude:
 -103.28288968

Position Uncertainty

0.0 usft Easting: 866,687.00 usft Longitude: -103.28288968

Wellhead Elevation: usft Ground Level: 3,004.0 usft

Grid Convergence: 0.56 °

Wellbore 087H

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

6.32

0.0

2/10/2022

0.0

Baseline Plan #1 - 359.44 Design **Audit Notes:** PLAN Tie On Depth: 0.0 Version: Phase: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°)

0.0

 Plan Survey Tool Program
 Date
 4/27/2022

 Depth From (usft)
 Depth To (usft)
 Survey (Wellbore)
 Tool Name
 Remarks

 1
 0.0
 20,670.7
 Baseline Plan #1 - 359.44 (087H)
 MWD

OWSG MWD - Standard



Database: AUS-COMPASS - EDM_15 - 32bit

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

Site: Red Bud_Holly

Well: Red Bud Fed Com 25-36-32 087H

Wellbore: 087H

Design: Baseline Plan #1 - 359.44

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Red Bud Fed Com 25-36-32 087H

GL 3003 + 27 KB @ 3030.0usft GL 3003 + 27 KB @ 3030.0usft

Grid

an 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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,016.6	3.87	154.08	1,016.2	-15.7	7.6	0.75	0.75	0.00	154.08	
8,791.0	3.87	154.08	8,772.8	-488.2	237.3	0.00	0.00	0.00	0.00	
9,178.5	0.00	0.00	9,160.0	-500.0	243.0	1.00	-1.00	0.00	180.00	
9,349.5	0.00	0.00	9,331.0	-500.0	243.0	0.00	0.00	0.00	0.00	
9,949.5	60.00	50.00	9,827.2	-315.9	462.5	10.00	10.00	0.00	50.00	
10,515.7	90.00	359.44	9,981.5	164.6	664.2	10.00	5.30	-8.93	-67.64	
10,678.6	93.25	359.20	9,976.9	327.4	662.3	2.00	1.99	-0.14	-4.14	
11,259.1	93.25	359.20	9,944.0	907.0	654.2	0.00	0.00	0.00	0.00	Target 1 (VS 1000) F
11,374.4	90.96	359.45	9,939.8	1,022.2	652.9	2.00	-1.99	0.22	173.78	
12,259.3	90.96	359.45	9,925.0	1,906.9	644.5	0.00	0.00	0.00	0.00	Target 2 (VS 2000) F
12,266.0	91.09	359.44	9,924.9	1,913.6	644.4	2.00	1.99	-0.22	-6.22	
13,259.5	91.09	359.44	9,906.0	2,906.9	634.7	0.00	0.00	0.00	0.00	Target 3 (VS 3000) F
13,297.5	90.33	359.44	9,905.5	2,944.8	634.3	2.00	-2.00	0.00	180.00	
14,259.5	90.33	359.44	9,900.0	3,906.8	624.9	0.00	0.00	0.00	0.00	Target 4 (VS 4000) F
14,260.3	90.34	359.44	9,900.0	3,907.5	624.9	2.00	2.00	0.00	0.02	
15,259.6	90.34	359.44	9,894.0	4,906.8	615.1	0.00	0.00	0.00	0.00	Target 5 (VS 5000) F
15,265.3	90.46	359.44	9,894.0	4,912.5	615.1	2.00	2.00	0.00	0.00	
16,259.6	90.46	359.44	9,886.0	5,906.7	605.4	0.00	0.00	0.00	0.00	Target 6 (VS 6000) F
16,285.7	90.98	359.44	9,885.7	5,932.8	605.1	2.00	2.00	0.00	0.00	
17,259.7	90.98	359.44	9,869.0	6,906.7	595.6	0.00	0.00	0.00	0.00	Target 7 (VS 7000) F
17,294.3	91.67	359.44	9,868.2	6,941.3	595.2	2.00	2.00	0.00	0.00	
18,260.2	91.67	359.44	9,840.0	7,906.6	585.8	0.00	0.00	0.00	0.00	Target 8 (VS 8000) F
18,279.8	92.07	359.44	9,839.4	7,926.2	585.6	2.00	2.00	0.00	0.00	
19,260.8	92.07	359.44	9,804.0	8,906.6	576.0	0.00	0.00	0.00	0.00	Target 9 (VS 9000) F
19,293.0	91.42	359.44	9,803.0	8,938.7	575.7	2.00	-2.00	0.00	180.00	
20,261.1	91.42	359.44	9,779.0	9,906.5	566.3	0.00	0.00	0.00	0.00	Target 10 (VS 10000
20,620.7	91.42	359.44	9,770.1	10,266.0	562.7	0.00	0.00	0.00	0.00	LTP (Last Take Poin
20,670.7	91.42	359.44	9,768.8	10,316.0	562.3	0.00	0.00	0.00	0.00	BHL (Bottom Hole Le



Database: AUS-COMPASS - EDM_15 - 32bit

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

Site: Red Bud_Holly

Well: Red Bud Fed Com 25-36-32 087H

Wellbore: 087H

Design: Baseline Plan #1 - 359.44

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Red Bud Fed Com 25-36-32 087H

GL 3003 + 27 KB @ 3030.0usft GL 3003 + 27 KB @ 3030.0usft

Grid

anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.75	154.08	600.0	-0.6	0.3	-0.6	0.75	0.75	0.00
700.0	1.50	154.08	700.0	-2.4	1.1	-2.4	0.75	0.75	0.00
0.008	2.25	154.08	799.9	-5.3	2.6	-5.3	0.75	0.75	0.00
900.0	3.00	154.08	899.8	-9.4	4.6	-9.5	0.75	0.75	0.00
1,000.0	3.75	154.08	999.6	-14.7	7.1	-14.8	0.75	0.75	0.00
1,016.6	3.87	154.08	1,016.2	-15.7	7.6	-15.8	0.75	0.75	0.00
		154.08	1,010.2	-20.8	10.1	-20.9	0.73	0.73	
1,100.0	3.87								0.00
1,157.7	3.87	154.08	1,157.0	-24.3	11.8	-24.4	0.00	0.00	0.00
Rustler									
1,200.0	3.87	154.08	1,199.2	-26.9	13.0	-27.0	0.00	0.00	0.00
1,300.0	3.87	154.08	1,299.0	-32.9	16.0	-33.1	0.00	0.00	0.00
1,400.0	3.87	154.08	1,398.7	-39.0	19.0	-39.2	0.00	0.00	0.00
1,500.0	3.87	154.08	1,498.5	-45.1	21.9	-45.3	0.00	0.00	0.00
1,567.7					23.9				
·	3.87	154.08	1,566.0	-49.2	23.9	-49.4	0.00	0.00	0.00
Salado									
1,600.0	3.87	154.08	1,598.3	-51.2	24.9	-51.4	0.00	0.00	0.00
1,700.0	3.87	154.08	1,698.0	-57.2	27.8	-57.5	0.00	0.00	0.00
1,800.0	3.87	154.08	1,797.8	-63.3	30.8	-63.6	0.00	0.00	0.00
1,900.0	3.87	154.08	1,897.6	-69.4	33.7	-69.7	0.00	0.00	0.00
2,000.0	3.87	154.08	1,997.4	-75.5	36.7	-75.8	0.00	0.00	0.00
					39.6				
2,100.0	3.87	154.08	2,097.1	-81.6	39.0	-81.9	0.00	0.00	0.00
2,200.0	3.87	154.08	2,196.9	-87.6	42.6	-88.0	0.00	0.00	0.00
2,300.0	3.87	154.08	2,296.7	-93.7	45.5	-94.1	0.00	0.00	0.00
2,400.0	3.87	154.08	2,396.4	-99.8	48.5	-100.2	0.00	0.00	0.00
2,500.0	3.87	154.08	2,496.2	-105.9	51.4	-106.4	0.00	0.00	0.00
2,600.0	3.87	154.08	2,596.0	-111.9	54.4	-112.5	0.00	0.00	0.00
2,700.0	3.87	154.08	2,695.8	-118.0	57.4	-118.6	0.00	0.00	0.00
2,800.0	3.87	154.08	2,795.5	-124.1	60.3	-124.7	0.00	0.00	0.00
2,900.0	3.87	154.08	2,895.3	-130.2	63.3	-130.8	0.00	0.00	0.00
3,000.0	3.87	154.08	2,995.1	-136.3	66.2	-136.9	0.00	0.00	0.00
3,100.0	3.87	154.08	3,094.8	-142.3	69.2	-143.0	0.00	0.00	0.00
3,200.0	3.87	154.08	3,194.6	-148.4	72.1	-149.1	0.00	0.00	0.00
3,300.0	3.87	154.08	3,194.6				0.00	0.00	0.00
3,359.7	3.87 3.87	154.08	3,294.4 3,354.0	-154.5 -158.1	75.1 76.8	-155.2 -158.8	0.00	0.00	0.00
	3.07	104.00	3,354.0	- 100. 1	70.0	-100.0	0.00	0.00	0.00
Tansill		4	0.001.0	4000					
3,400.0	3.87	154.08	3,394.2	-160.6	78.0	-161.3	0.00	0.00	0.00
3,500.0	3.87	154.08	3,493.9	-166.6	81.0	-167.4	0.00	0.00	0.00
3,600.0	3.87	154.08	3,593.7	-172.7	83.9	-173.5	0.00	0.00	0.00
3,700.0	3.87	154.08	3,693.5	-178.8	86.9	-179.6	0.00	0.00	0.00
3,769.7	3.87	154.08	3,763.0	-183.0	89.0	-183.9	0.00	0.00	0.00
	0.07	154.00	5,700.0	100.0	00.0	100.9	0.00	0.00	0.00
Capitan	2.07	154.00	2 702 0	104.0	90.0	105 7	0.00	0.00	0.00
3,800.0	3.87	154.08	3,793.2	-184.9	89.8	-185.7	0.00	0.00	0.00
3,900.0	3.87	154.08	3,893.0	-191.0	92.8	-191.8	0.00	0.00	0.00
4,000.0	3.87	154.08	3,992.8	-197.0	95.8	-197.9	0.00	0.00	0.00
4,100.0	3.87	154.08	4,092.6	-203.1	98.7	-204.0	0.00	0.00	0.00
4,200.0	3.87	154.08	4,192.3	-209.2	101.7	-210.2	0.00	0.00	0.00
	0.07	. 5 1.00					0.00		0.00
4,300.0	3.87	154.08	4,292.1	-215.3	104.6	-216.3	0.00	0.00	0.00



Database: AUS-COMPASS - EDM_15 - 32bit

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

Site: Red Bud_Holly

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Wellbore: 087H

Design: Baseline Plan #1 - 359.44

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Red Bud Fed Com 25-36-32 087H

GL 3003 + 27 KB @ 3030.0usft GL 3003 + 27 KB @ 3030.0usft

Grid

lanned	Survey									
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	4,500.0	3.87	154.08	4,491.6	-227.4	110.5	-228.5	0.00	0.00	0.00
	4,600.0	3.87	154.08	4,591.4	-233.5	113.5	-234.6	0.00	0.00	0.00
	4,700.0	3.87	154.08	4,691.2	-239.6	116.4	-240.7	0.00	0.00	0.00
		3.87		4,791.0		119.4	-240.7 -246.8			
	4,800.0		154.08		-245.7			0.00	0.00	0.00
	4,900.0	3.87	154.08	4,890.7	-251.7	122.3	-252.9	0.00	0.00	0.00
	5,000.0	3.87	154.08	4,990.5	-257.8	125.3	-259.0	0.00 0.00	0.00	0.00
	5,084.7	3.87	154.08	5,075.0	-263.0	127.8	-264.2	0.00	0.00	0.00
	Lamar									
	5,100.0	3.87	154.08	5,090.3	-263.9	128.2	-265.1	0.00	0.00	0.00
	5,199.0	3.87	154.08	5,189.0	-269.9	131.2	-271.1	0.00	0.00	0.00
	Bell Canyon									
	5,200.0	3.87	154.08	5,190.0	-270.0	131.2	-271.2	0.00	0.00	0.00
	5,300.0	3.87	154.08	5,289.8	-276.0	134.2	-277.3	0.00	0.00	0.00
	5,400.0	3.87	154.08	5,389.6	-282.1	137.1	-283.4	0.00	0.00	0.00
	5,500.0	3.87	154.08	5,489.4	-288.2	140.1	-289.5	0.00	0.00	0.00
	5,600.0	3.87	154.08	5,589.1	-294.3	143.0	-295.6	0.00	0.00	0.00
	5,700.0	3.87	154.08	5,688.9	-300.4	146.0	-295.0 -301.7	0.00	0.00	0.00
	5,700.0	3.01	154.06	5,000.9	-300.4	146.0	-301.7	0.00	0.00	0.00
	5,800.0	3.87	154.08	5,788.7	-306.4	148.9	-307.8	0.00	0.00	0.00
	5,900.0	3.87	154.08	5,888.4	-312.5	151.9	-314.0	0.00	0.00	0.00
	6,000.0	3.87	154.08	5,988.2	-318.6	154.8	-320.1	0.00	0.00	0.00
	6,100.0	3.87	154.08	6,088.0	-324.7	157.8	-326.2	0.00	0.00	0.00
	6,200.0	3.87	154.08	6,187.8	-330.7	160.7	-332.3	0.00	0.00	0.00
	0,200.0	3.01	154.00	0,107.0	-330.7	100.7	-332.3	0.00	0.00	0.00
	6,300.0	3.87	154.08	6,287.5	-336.8	163.7	-338.4	0.00	0.00	0.00
	6,400.0	3.87	154.08	6,387.3	-342.9	166.6	-344.5	0.00	0.00	0.00
	6,500.0	3.87	154.08	6,487.1	-349.0	169.6	-350.6	0.00	0.00	0.00
	6,600.0	3.87	154.08	6,586.8	-355.1	172.6	-356.7	0.00	0.00	0.00
	6,700.0	3.87	154.08	6,686.6	-361.1	175.5	-362.8	0.00	0.00	0.00
		3.07		0,000.0		170.0		0.00	0.00	0.00
	6,800.0	3.87	154.08	6,786.4	-367.2	178.5	-368.9	0.00	0.00	0.00
	6,900.0	3.87	154.08	6,886.2	-373.3	181.4	-375.0	0.00	0.00	0.00
	7,000.0	3.87	154.08	6,985.9	-379.4	184.4	-381.1	0.00	0.00	0.00
	7,014.1	3.87	154.08	7,000.0	-380.2	184.8	-382.0	0.00	0.00	0.00
	Brushy Cany			.,						
	7,100.0	3.87	154.08	7,085.7	-385.4	187.3	-387.2	0.00	0.00	0.00
	7,200.0	3.87	154.08	7,185.5	-391.5	190.3	-393.3	0.00	0.00	0.00
	7,300.0	3.87	154.08	7,285.2	-397.6	193.2	-399.4	0.00	0.00	0.00
	7,400.0	3.87	154.08	7,385.0	-403.7	196.2	-405.5	0.00	0.00	0.00
	7,500.0	3.87	154.08	7,484.8	-409.8	199.1	-411.6	0.00	0.00	0.00
	7,600.0	3.87	154.08	7,584.6	-415.8	202.1	-417.8	0.00	0.00	0.00
	7,700.0	3.87	154.08	7,684.3	-421.9	205.0	-423.9	0.00	0.00	0.00
	7,700.0	3.87	154.08	7,084.3	-421.9 -428.0	208.0	-423.9 -430.0	0.00	0.00	0.00
	7,900.0	3.87	154.08	7,883.9	-434.1	211.0	-436.1	0.00	0.00	0.00
	8,000.0	3.87	154.08	7,983.6	-440.1	213.9	-442.2	0.00	0.00	0.00
	8,076.5	3.87	154.08	8,060.0	-444.8	216.2	-446.9	0.00	0.00	0.00
	Bone Spring	Lime								
	8,100.0	3.87	154.08	8,083.4	-446.2	216.9	-448.3	0.00	0.00	0.00
	8,200.0	3.87	154.08	8,183.2	-452.3	219.8	-454.4	0.00	0.00	0.00
	8,300.0	3.87	154.08	8,283.0	-458.4	222.8	-460.5	0.00	0.00	0.00
	8,400.0	3.87	154.08	8,382.7	-464.5	225.7	-466.6	0.00	0.00	0.00
	8,500.0	3.87	154.08	8,482.5	-470.5	228.7	-472.7	0.00	0.00	0.00
	8,600.0	3.87	154.08	8,582.3	-476.6	231.6	-478.8	0.00	0.00	0.00
	8,700.0	3.87	154.08	8,682.0	-482.7	234.6	-484.9	0.00	0.00	0.00
	8,791.0	3.87	154.08	8,772.8	-488.2	237.3	-490.5	0.00	0.00	0.00
	8,800.0	0.07								



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Site: Red Bud_Holly

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Wellbore: 087H

Design: Baseline Plan #1 - 359.44

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Red Bud Fed Com 25-36-32 087H

GL 3003 + 27 KB @ 3030.0usft GL 3003 + 27 KB @ 3030.0usft

Grid

lanned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,900.	0 2.78	154.08	8,881.6	-493.9	240.0	-496.2	1.00	-1.00	0.00
9,000.	0 1.78	154.08	8,981.6	-497.5	241.8	-499.8	1.00	-1.00	0.00
9,100.		154.08	9,081.5	-499.5	242.8	-501.8	1.00	-1.00	0.00
9,178.		0.00	9,160.0	-500.0	243.0	-502.3	1.00	-1.00	0.00
9,200.		0.00	9,181.5	-500.0	243.0	-502.3	0.00	0.00	0.00
9,300.		0.00	9,281.5	-500.0	243.0	-502.3	0.00	0.00	0.00
9,349.	5 0.00	0.00	9.331.0	-500.0	243.0	-502.3	0.00	0.00	0.00
9,400.		50.00	9,381.5	-498.6	244.7	-500.9	10.00	10.00	0.00
9,500.		50.00	9,479.8	-487.4	258.1	-489.8	10.00	10.00	0.00
9,543.		50.00	9,521.0	-479.2	267.8	-481.7	10.00	10.00	0.00
First Bon			5,525						
9,600.		50.00	9,573.6	-465.3	284.3	-468.1	10.00	10.00	0.00
9,700.	0 35.05	50.00	9,660.1	-433.2	322.6	-436.3	10.00	10.00	0.00
9,700. 9,800.		50.00	9,736.5	-433.2 -391.9	322.6 371.8	-436.3 -395.4	10.00	10.00	0.00
9,800. 9,900.		50.00	9,736.5	-391.9 -342.7	430.5	-395.4 -346.8	10.00	10.00	0.00
9,900. 9,949.		50.00	9,800.6	-342. <i>1</i> -315.9	430.5 462.5	-340.6 -320.3	10.00	10.00	0.00
9,949. 10,000.		44.71	9,827.2 9,851.7	-315.9 -285.9	402.5 494.9	-320.3 -290.6	10.00	4.01	-10.47
,									
10,100.		34.83	9,895.1	-216.7	552.4	-222.0	10.00	4.56	-9.88
10,200.		25.64	9,930.8	-136.0	599.2	-141.8	10.00	5.14	-9.18
10,274.	8 75.85	19.14	9,951.6	-69.6	626.5	-75.6	10.00	5.51	-8.69
•	t Take Point) RB087								
10,276.	2 75.93	19.02	9,952.0	-68.4	627.0	-74.4	10.00	5.64	-8.52
01-FTP (F	RB087H)								
10,300.	0 77.28	17.01	9,957.5	-46.3	634.1	-52.4	10.00	5.68	-8.46
10,400.	0 83.10	8.75	9,974.6	49.6	656.0	43.3	10.00	5.82	-8.26
10,500.		0.70	9,981.4	148.9	664.2	142.5	10.00	5.96	-8.05
10,515.		359.44	9,981.5	164.6	664.2	158.2	10.00	5.99	-8.01
10,600.		359.32	9,980.3	248.9	663.3	242.5	2.00	1.99	-0.14
10,678.		359.20	9,976.9	327.4	662.3	321.0	2.00	1.99	-0.14
10,700.		359.20	9,975.7	348.8	662.0	342.4	0.00	0.00	0.00
10,800.		359.20	9,970.0	448.6	660.6	442.2	0.00	0.00	0.00
10,900.		359.20	9,964.4	548.4	659.2	542.1	0.00	0.00	0.00
11,000.		359.20	9,958.7	648.3	657.8	641.9	0.00	0.00	0.00
11,100.	0 93.25	359.20	9,953.0	748.1	656.4	741.8	0.00	0.00	0.00
11,200.	0 93.25	359.20	9,947.4	847.9	655.0	841.6	0.00	0.00	0.00
11,259.	1 93.25	359.20	9,944.0	907.0	654.2	900.6	0.00	0.00	0.00
Target 1 (VS 1000) RB087								
11,300.	•	359.29	9,942.0	947.8	653.7	941.5	2.00	-1.99	0.22
11,374.		359.45	9,939.8	1,022.2	652.9	1,015.9	2.00	-1.99	0.22
11,400.		359.45	9,939.3	1,047.7	652.6	1,041.4	0.00	0.00	0.00
11,500.	0 90.96	359.45	9,937.7	1,147.7	651.7	1,141.4	0.00	0.00	0.00
11,600.		359.45	9,936.0	1,147.7	650.7	1,141.4	0.00	0.00	0.00
11,700.		359.45	9,934.3	1,347.7	649.8	1,341.4	0.00	0.00	0.00
11,800.		359.45	9,932.7	1,447.7	648.8	1,441.4	0.00	0.00	0.00
11,900.		359.45	9,931.0	1,547.6	647.9	1,541.3	0.00	0.00	0.00
12,000.		359.45	9,929.3	1,647.6	646.9	1,641.3	0.00	0.00	0.00
12,100.		359.45	9,927.7	1,747.6	646.0	1,741.3	0.00	0.00	0.00
12,200.		359.45	9,926.0	1,847.6	645.0	1,841.3	0.00	0.00	0.00
12,259.		359.45	9,925.0	1,906.9	644.5	1,900.6	0.00	0.00	0.00
	VS 2000) RB087								
12,266.	0 91.09	359.44	9,924.9	1,913.6	644.4	1,907.3	2.00	1.99	-0.22
12,300.	0 91.09	359.44	9,924.2	1,947.6	644.1	1,941.3	0.00	0.00	0.00
,	0 91.09	359.44	9,922.3	2,047.5	643.1	2,041.3	0.00	0.00	0.00



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Survey Calculation Method:

Well Red Bud Fed Com 25-36-32 087H

GL 3003 + 27 KB @ 3030.0usft GL 3003 + 27 KB @ 3030.0usft

Grid

ned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
12,500.0	91.09	359.44	9,920.4	2,147.5	642.1	2,141.3	0.00	0.00	0.00
12,600.0 12,700.0	91.09 91.09	359.44 359.44	9,918.5 9,916.6	2,247.5 2,347.5	641.1 640.1	2,241.2 2,341.2	0.00 0.00	0.00 0.00	0.00 0.00
12,800.0	91.09	359.44	9,914.7	2,447.4	639.2	2,441.2	0.00	0.00	0.00
12,900.0	91.09	359.44	9,912.8	2,547.4	638.2	2,541.2	0.00	0.00	0.00
13,000.0	91.09	359.44	9,910.9	2,647.4	637.2	2,641.2	0.00	0.00	0.00
13,100.0	91.09	359.44	9,909.0	2,747.4	636.2	2,741.1	0.00	0.00	0.00
13,200.0	91.09	359.44	9,907.1	2,847.4	635.3	2,841.1	0.00	0.00	0.00
13,259.5	91.09	359.44	9,906.0	2,906.9	634.7	2,900.6	0.00	0.00	0.00
13,297.5	90.33	359.44	9,905.5	2,944.8	634.3	2,938.6	2.00	-2.00	0.00
13,300.0	90.33	359.44	9,905.5	2,947.3	634.3	2,930.0	0.00	0.00	0.00
13,400.0	90.33	359.44	9,904.9	3,047.3	633.3	3,041.1	0.00	0.00	0.00
13,500.0	90.33	359.44	9,904.4	3,147.3	632.3	3,141.1	0.00	0.00	0.00
13,600.0	90.33	359.44	9,903.8	3,247.3	631.4	3,241.1	0.00	0.00	0.00
13,700.0	90.33	359.44	9,903.2	3,347.3	630.4	3,341.1	0.00	0.00	0.00
13,800.0	90.33	359.44	9,902.6	3,447.3	629.4	3,441.1	0.00	0.00	0.00
13,900.0	90.33	359.44	9,902.1	3,547.3	628.4	3,541.1	0.00	0.00	0.00
14,000.0	90.33	359.44	9,901.5	3,647.3	627.4	3,641.1	0.00	0.00	0.00
14,100.0	90.33	359.44	9,900.9	3,747.3	626.5	3,741.1	0.00	0.00	0.00
14,200.0	90.33	359.44	9,900.3	3,847.3	625.5	3,841.1	0.00	0.00	0.00
14,259.5	90.33 6 4000) RB087	359.44	9,900.0	3,906.8	624.9	3,900.6	0.00	0.00	0.00
14,260.3	90.34	359.44	9,900.0	3,907.5	624.9	3,901.4	2.00	2.00	0.00
14,300.0	90.34	359.44	9,899.8	3,947.3	624.5	3,941.1	0.00	0.00	0.00
14,400.0	90.34	359.44	9,899.2	4,047.3	623.5	4,041.1	0.00	0.00	0.00
14,500.0	90.34	359.44	9,898.6	4,147.3	622.6	4,141.1	0.00	0.00	0.00
14,600.0	90.34	359.44	9,898.0	4,247.3	621.6	4,241.1	0.00	0.00	0.00
14,700.0	90.34	359.44	9,897.4	4,347.2	620.6	4,341.1	0.00	0.00	0.00
14,800.0	90.34	359.44	9,896.8	4,447.2	619.6	4,441.1	0.00	0.00	0.00
14,900.0	90.34	359.44	9,896.2	4,547.2	618.6	4,541.1	0.00	0.00	0.00
15,000.0	90.34	359.44	9,895.6	4,647.2	617.7	4,641.1	0.00	0.00	0.00
15,100.0 15,200.0	90.34 90.34	359.44 359.44	9,895.0 9.894.4	4,747.2 4,847.2	616.7 615.7	4,741.1 4,841.1	0.00 0.00	0.00 0.00	0.00 0.00
15,259.6	90.34	359.44 359.44	9,894.4 9,894.0	4,047.2	615.1	4,900.6	0.00	0.00	0.00
	S 5000) RB087		-,	,,,,,,,,		,			
15,265.3	90.46	359.44	9,894.0	4,912.5	615.1	4,906.4	2.00	2.00	0.00
15,300.0	90.46	359.44	9,893.7	4,947.2	614.7	4,941.1	0.00	0.00	0.00
15,400.0	90.46	359.44	9,892.9	5,047.2	613.8	5,041.1	0.00	0.00	0.00
15,500.0	90.46	359.44	9,892.1	5,147.2	612.8	5,141.1	0.00	0.00	0.00
15,600.0	90.46	359.44	9,891.3	5,247.2	611.8	5,241.1	0.00	0.00	0.00
15,700.0	90.46	359.44	9,890.5	5,347.2	610.8	5,341.1	0.00	0.00	0.00
15,800.0	90.46	359.44	9,889.7	5,447.2	609.8	5,441.1	0.00	0.00	0.00
15,900.0	90.46	359.44	9,888.9	5,547.2	608.9	5,541.1	0.00	0.00	0.00
16,000.0 16,100.0	90.46 90.46	359.44 359.44	9,888.1 9,887.3	5,647.1 5,747.1	607.9 606.9	5,641.1 5,741.0	0.00 0.00	0.00 0.00	0.00 0.00
16,200.0 16,259.6	90.46 90.46	359.44 359.44	9,886.5 9,886.0	5,847.1 5,906.7	605.9 605.4	5,841.0 5,900.6	0.00 0.00	0.00 0.00	0.00 0.00
	6 6000) RB087	500.7-7	5,000.0	5,500.1		5,500.0	0.00	0.00	0.00
16,285.7	90.98	359.44	9,885.7	5,932.8	605.1	5,926.7	2.00	2.00	0.00
16,300.0	90.98	359.44	9,885.4	5,947.1	605.0	5,941.0	0.00	0.00	0.00
16,400.0	90.98	359.44	9,883.7	6,047.1	604.0	6,041.0	0.00	0.00	0.00
16,500.0	90.98	359.44	9,882.0	6,147.1	603.0	6,141.0	0.00	0.00	0.00



Database: AUS-COMPASS - EDM_15 - 32bit

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

Site: Red Bud_Holly

Well: Red Bud Fed Com 25-36-32 087H

Wellbore: 087H

Design: Baseline Plan #1 - 359.44

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Red Bud Fed Com 25-36-32 087H

GL 3003 + 27 KB @ 3030.0usft GL 3003 + 27 KB @ 3030.0usft

Grid

anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,600.0	90.98	359.44	9,880.3	6,247.1	602.0	6,241.0	0.00	0.00	0.00
16,700.0	90.98	359.44	9,878.6	6,347.0	601.1	6,341.0	0.00	0.00	0.00
16,800.0	90.98	359.44	9,876.9	6,447.0	600.1	6,441.0	0.00	0.00	0.00
16,900.0	90.98	359.44	9,875.2	6,547.0	599.1	6,541.0	0.00	0.00	0.00
17,000.0	90.98	359.44	9,873.4	6,647.0	598.1	6,640.9	0.00	0.00	0.00
17,100.0	90.98	359.44	9,871.7	6,747.0	597.1	6,740.9	0.00	0.00	0.00
17,200.0	90.98	359.44	9,870.0	6,846.9	596.2	6,840.9	0.00	0.00	0.00
17,259.7	90.98	359.44	9,869.0	6,906.7	595.6	6,900.6	0.00	0.00	0.00
	7000) RB087	250.44	0.000.0	0.044.0	505.0	0.005.0	2.00	0.00	0.00
17,294.3	91.67	359.44	9,868.2	6,941.3	595.2	6,935.2	2.00	2.00	0.00
17,300.0	91.67	359.44	9,868.0	6,946.9	595.2	6,940.9	0.00	0.00	0.00
17,400.0	91.67	359.44	9,865.1	7,046.9	594.2	7,040.8	0.00	0.00	0.00
17,500.0	91.67	359.44	9,862.2	7,146.8	593.2	7,140.8	0.00	0.00	0.00
17,600.0	91.67	359.44	9,859.3	7,246.8	592.3	7,240.8	0.00	0.00	0.00
17,700.0	91.67	359.44	9,856.4	7,346.7	591.3	7,340.7	0.00	0.00	0.00
17,800.0	91.67	359.44	9,853.4	7,446.7	590.3	7,440.7	0.00	0.00	0.00
17,900.0	91.67	359.44	9,850.5	7,546.6	589.3	7,540.6	0.00	0.00	0.00
18,000.0	91.67	359.44	9,847.6	7,646.6	588.4	7,640.6	0.00	0.00	0.00
18,100.0	91.67	359.44	9,844.7	7,746.5	587.4	7,740.5	0.00	0.00	0.00
18,200.0	91.67	359.44	9,841.8	7,846.5	586.4	7,840.5	0.00	0.00	0.00
18,260.2	91.67	359.44	9,840.0	7,906.6	585.8	7,900.6	0.00	0.00	0.00
Target 8 (VS	8000) RB087								
18,279.8	92.07	359.44	9,839.4	7,926.2	585.6	7,920.2	2.00	2.00	0.00
18,300.0	92.07	359.44	9,838.6	7,946.4	585.4	7,940.5	0.00	0.00	0.00
18,400.0	92.07	359.44	9,835.0	8,046.4	584.4	8,040.4	0.00	0.00	0.00
18,500.0	92.07	359.44	9,831.4	8,146.3	583.5	8,140.3	0.00	0.00	0.00
18,600.0	92.07	359.44	9,827.8	8,246.2	582.5	8,240.3	0.00	0.00	0.00
18,700.0	92.07	359.44	9,824.2	8,346.2	581.5	8,340.2	0.00	0.00	0.00
18,800.0	92.07	359.44	9,820.6	8,446.1	580.5	8,440.1	0.00	0.00	0.00
18,900.0	92.07	359.44	9,817.0	8,546.0	579.6	8,540.1	0.00	0.00	0.00
19,000.0	92.07	359.44	9,813.4	8,646.0	578.6	8,640.0	0.00	0.00	0.00
19,100.0	92.07	359.44	9,809.8	8,745.9	577.6	8,739.9	0.00	0.00	0.00
19,200.0	92.07	359.44	9,806.2	8,845.8	576.6	8,839.9	0.00	0.00	0.00
19,260.8	92.07	359.44	9,804.0	8,906.6	576.0	8,900.6	0.00	0.00	0.00
Target 9 (VS	9000) RB087								
19,293.0	91.42	359.44	9,803.0	8,938.7	575.7	8,932.8	2.00	-2.00	0.00
19,300.0	91.42	359.44	9,802.8	8,945.8	575.7	8,939.8	0.00	0.00	0.00
19,400.0	91.42	359.44	9,800.4	9,045.7	574.7	9,039.8	0.00	0.00	0.00
19,500.0	91.42	359.44	9,797.9	9,145.7	573.7	9,139.8	0.00	0.00	0.00
19,600.0	91.42	359.44	9,795.4	9,245.6	572.7	9,239.7	0.00	0.00	0.00
19,700.0	91.42	359.44	9,792.9	9,345.6	571.7	9,339.7	0.00	0.00	0.00
19,800.0	91.42	359.44	9,790.4	9,445.6	570.8	9,439.7	0.00	0.00	0.00
19,900.0	91.42	359.44	9,788.0	9,545.5	569.8	9,539.6	0.00	0.00	0.00
20,000.0	91.42	359.44	9,785.5	9,645.5	568.8	9,639.6	0.00	0.00	0.00
20,100.0	91.42	359.44	9,783.0	9,745.5	567.8	9,739.6	0.00	0.00	0.00
20,200.0	91.42	359.44	9,780.5	9,845.4	566.9	9,839.5	0.00	0.00	0.00
20,261.1	91.42	359.44	9,779.0	9,906.5	566.3	9,900.6	0.00	0.00	0.00
Target 10 (V	S 10000) RB087								
20,300.0	91.42	359.44	9,778.0	9,945.4	565.9	9,939.5	0.00	0.00	0.00
20,400.0	91.42	359.44	9,775.6	10,045.4	564.9	10,039.5	0.00	0.00	0.00
20,500.0	91.42	359.44	9,773.1	10,145.3	563.9	10,139.4	0.00	0.00	0.00
20,600.0	91.42	359.44	9,770.6	10,245.3	563.0	10,239.4	0.00	0.00	0.00
20,615.0	91.42	359.44	9,770.2	10,260.2	562.8	10,254.4	0.00	0.00	0.00
	87H)								



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Company: Ameredev Operating
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Site: Red Bud_Holly

Well: Red Bud Fed Com 25-36-32 087H

Wellbore: 087H

Design: Baseline Plan #1 - 359.44

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Red Bud Fed Com 25-36-32 087H

GL 3003 + 27 KB @ 3030.0usft GL 3003 + 27 KB @ 3030.0usft

Grid

ed Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,620.5	91.42	359.44	9,770.1	10,265.8	562.8	10,259.9	0.00	0.00	0.00
LTP (Last Tal	ke Point) RB087								
20,620.7	91.42	359.44	9,770.1	10,266.0	562.7	10,260.1	0.00	0.00	0.00
20,664.9	91.42	359.44	9,769.0	10,310.2	562.3	10,304.3	0.00	0.00	0.00
03-BHL (RB0	87H)								
20,670.5	91.42	359.44	9,768.8	10,315.7	562.3	10,309.9	0.00	0.00	0.00
BHL (Bottom	Hole Location)	RB087							
20,670.7	91.42	359.44	9,768.8	10,316.0	562.3	10,310.1	0.00	0.00	0.00



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Well: Red Bud Fed Com 25-36-32 087H

Wellbore: 087H

Design: Baseline Plan #1 - 359.44

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Red Bud Fed Com 25-36-32 087H

GL 3003 + 27 KB @ 3030.0usft GL 3003 + 27 KB @ 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
LTP (Last Take Point) RI - plan misses target - Point		0.00 isft at 20620.	9,779.0 5usft MD (9	10,266.0 9770.1 TVD, 1	564.0 0265.8 N, 562	404,738.00 2.8 E)	867,251.00	32.10832947	-103.28074546
Target 10 (VS 10000) RI - plan hits target cen - Point	0.00 ter	0.00	9,779.0	9,906.5	566.3	404,378.52	867,253.26	32.10734139	-103.28074948
BHL (Bottom Hole Locat - plan misses target - Point	0.00 center by 10.3	0.00 Busft at 20670	9,779.0 0.5usft MD	10,316.0 (9768.8 TVD,	564.0 10315.7 N, 56	404,788.00 62.3 E)	867,251.00	32.10846690	-103.28074388
Target 9 (VS 9000) RB0a - plan hits target cen - Point	0.00 ter	0.00	9,804.0	8,906.6	576.0	403,378.57	867,263.04	32.10459277	-103.28074945
Target 8 (VS 8000) RB04 - plan hits target cen - Point	0.00 ter	0.00	9,840.0	7,906.6	585.8	402,378.62	867,272.81	32.10184414	-103.28074942
Target 7 (VS 7000) RB00 - plan hits target cen - Point	0.00 ter	0.00	9,869.0	6,906.7	595.6	401,378.66	867,282.58	32.09909552	-103.28074939
Target 6 (VS 6000) RB04 - plan hits target cen - Point	0.00 ter	0.00	9,886.0	5,906.7	605.4	400,378.71	867,292.36	32.09634689	-103.28074935
Target 5 (VS 5000) RB04 - plan hits target cen - Point	0.00 ter	0.00	9,894.0	4,906.8	615.1	399,378.76	867,302.13	32.09359826	-103.28074931
Target 4 (VS 4000) RB04 - plan hits target cen - Point	0.00 ter	0.00	9,900.0	3,906.8	624.9	398,378.81	867,311.90	32.09084963	-103.28074927
Target 3 (VS 3000) RB04 - plan hits target cen - Point	0.00 ter	0.00	9,906.0	2,906.9	634.7	397,378.86	867,321.68	32.08810100	-103.28074923
Target 2 (VS 2000) RB04 - plan hits target cen - Point	0.00 ter	0.00	9,925.0	1,906.9	644.5	396,378.90	867,331.45	32.08535238	-103.28074918
Target 1 (VS 1000) RB04 - plan hits target cen - Point	0.00 ter	0.00	9,944.0	907.0	654.2	395,378.95	867,341.23	32.08260375	-103.28074913
FTP (First Take Point) R - plan misses target - Point		0.00 Jusft at 10274	9,981.0 4.8usft MD	-93.0 (9951.6 TVD,	664.0 -69.6 N, 626.5	394,379.00 5 E)	867,351.00	32.07985511	-103.28074908
02-LTP (RB087H) - plan misses target - Point	0.00 center by 231		10,002.0 15.0usft MD	10,266.0 (9770.2 TVD	564.0 , 10260.2 N, 5	404,738.00 662.8 E)	867,251.00	32.10832947	-103.28074546
03-BHL (RB087H) - plan misses target - Point	0.00 center by 233		10,002.0 64.9usft MD	10,316.0 (9769.0 TVD	564.0 , 10310.2 N, 5	404,788.00 662.3 E)	867,251.00	32.10846690	-103.28074388
01-FTP (RB087H) - plan misses target - Point	0.00 center by 66.9		10,002.0 6.2usft MD	-93.0 (9952.0 TVD,	664.0 -68.4 N, 627.0	394,379.00) E)	867,351.00	32.07985511	-103.28074908



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

Site: Red Bud_Holly

Well: Red Bud Fed Com 25-36-32 087H

Wellbore: 087H

Design: Baseline Plan #1 - 359.44

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Red Bud Fed Com 25-36-32 087H

GL 3003 + 27 KB @ 3030.0usft GL 3003 + 27 KB @ 3030.0usft

Grid

Formations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,157.7	1,157.0	Rustler				
	1,567.7	1,566.0	Salado				
	3,359.7	3,354.0	Tansill				
	3,769.7	3,763.0	Capitan				
	5,084.7	5,075.0	Lamar				
	5,199.0	5,189.0	Bell Canyon				
	7,014.1	7,000.0	Brushy Canyon				
	8,076.5	8,060.0	Bone Spring Lime				
	9,543.1	9,521.0	First Bone Spring				

State of New Mexico Energy, Minerals and Natural Resources

Submit Electronically Via E-permitting

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

EREDEV OPEI	RATING, LLC	OGRID:	372224	Date	: 5	5/11/2022	
II. Type: ✓ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.							
oe:							
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.							
API	ULSTR Footage		Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D		
30-025-	O-32-25S-36E	200 FSL &	1488	8047		1889	
		1322 FEL					
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.							
API	Spud Date	TD Reached Date	•			First Production Date	
30-025-	6/28/2022	7/20/2022	7/30/202	2 8/13	8/2022	8/21/2022	
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.							
	API 30-025- int Name: API 30-025- int Variation a single defined from a single define	Amendment due to 19.15.27.9 Dec: Decide following information for each new a single well pad or connected to a control of the single well pad or connected to a control of the single well pad or control of the	Amendment due to 19.15.27.9.D(6)(a) NMAC Decide following information for each new or recompleted a single well pad or connected to a central delivery API ULSTR Footages 30-025- O-32-25S-36E 200 FSL & 1322 FEL Int Name: RED BUD CTB Be: Provide the following information for each new expleted from a single well pad or connected to a central delivery of the following information for each new expleted from a single well pad or connected to a central delivery of the following information for each new expleted from a single well pad or connected to a central delivery of the following information for each new explete description of the action of 19.15.25. Attach a complete description of the action of 19.15.27.8 NMAC. It Practices: Attach a complete description of O	Amendment due to 19.15.27.9.D(6)(a) NMAC 19.15.27.9. Decide following information for each new or recompleted well or set of was single well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D 30-025- O-32-25S-36E 200 FSL & 1488 1322 FEL Int Name: RED BUD CTB [Be: Provide the following information for each new or recompleted was pleted from a single well pad or connected to a central delivery point of the pleted from a single well pad or connected to a central delivery point of the single well pad or connected to a central	Amendment due to	Amendment due to 19.15.27.9.D(6)(a) NMAC 19.15.27.9.D(6)(b) NMAC Otherwise. The following information for each new or recompleted well or set of wells proposed to be drilled a single well pad or connected to a central delivery point. API	

Section 2 – Enhanced Plan

		EFFECTIV	YE APRIL 1, 2022		
Beginning April 1, 20 reporting area must c	=	is not in compliance v	vith its statewide natural gas	captur	e requirement for the applicable
Operator certifies capture requirement f			tion because Operator is in co	omplia	nce with its statewide natural gas
IX. Anticipated Nat	ural Gas Production	1:			
We	Well		API Anticipated Average Natural C Rate MCF/D		Anticipated Volume of Natural Gas for the First Year MCF
X. Natural Gas Gatl		•	Anticipated Gathering		
Operator	System	ULSTR of Tie-in	lable Maximum Daily Capacity of System Segment Tie-in		
production operations of the segment or por XII. Line Capacity. gas production volum XIII. Line Pressure. the natural gas gather well(s).	s to the existing or plation of the natural gas. The natural gas gather the from the well prior. Operatordoesting system(s) describ	anned interconnect of s gathering system(s) ering system will to the date of first pr does not anticipate to	the natural gas gathering systo which the well(s) will be discontinuously will not have capacity to oduction.	stem(s) connec gather	ted pipeline route(s) connecting the and the maximum daily capacity ted. 100% of the anticipated natural the same segment, or portion, of the pressure caused by the new
Section 2 as provided	l in Paragraph (2) of		5.27.9 NMAC, and attaches a		78 for the information provided in escription of the specific

Section 3 - Certifications Effective May 25, 2021

Effective May 25, 2021
Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:
Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or
Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. <i>If Operator checks this box, Operator will select one of the following:</i>
Well Shut-In. Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or
Venting and Flaring Plan. Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: (a) power generation on lease; (b) power generation for grid; (c) compression on lease; (d) liquids removal on lease; (e) reinjection for underground storage; (f) reinjection for temporary storage; (g) reinjection for enhanced oil recovery; (h) fuel cell production; and (i) other alternative beneficial uses approved by the division.
Section 4 - Notices
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud: (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature: اد البيار	
Signature.	
Printed Name:	Dayeed Khan
Title:	Engineer
E-mail Address:	dkhan@ameredev.com
Date:	5/11/2022
Phone:	737-300-4735
	131-300-4133
	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



RED BUD STATE COM 25-36-32 087H Second Bone Spring | 2 Mile Lateral County, St: Lea, NM Co. Well ID: SHL: Section 32 , T25S , R36E 200' FSL, 952' FEL BHL: Section 29, T25S, R36E API#: Permit: 50' FNL, 660' FEL GL: 3,003' Wellhead: A - 13-5/8" 10M x 13-5/8" SOW B - 13-5/8" 10M x 13-5/8" 10M Field: Delaware Rig: C - 13-5/8" 10M x 13-5/8" 10M Tubing Spool: 7-1/16" 15M x 13-3/8" 10M 27.0' 3,030' KB: Elevation: Xmas Tree: 2-9/16" 10M E-Mail: drillingcr@ameredev.com Tubing: 2-7/8" L-80 6.5# 8rd EUE Offsets Casing & Cement Mud Weight Geology Notify BLM prior to spud, running casing, cementing, and BOP testing 17-1/2" Conductor 122 Tail (135% OH excess) 495 sx 14.8 ppg Class C Sundry to be sent before spud Top of Lead @ 0' Lead (135% OH excess) 8.4 - 8.6 ppg 576 sx 13.5 ppg Class C Top of Tail @ 0' Rustler 1,203' 13.375 | 68 | J-55 | BTC 1228' MD 0 - 1228 Casing Test to 1500 psi 12-1/4" Stg 2 Tail (25% OH excess) Ask for permission to run a Bradenhead 960 sx 14.2 ppg Class H - Premium Stg 2 Lead (50% OH excess) on contigency from BLM Salado 1,606' 385 sx 10.5 ppg Class C - Premium DVT/ECP Tansill 3,367 3492 Capitan 3,808' Stg 1 - Tail (25% OH excess) 10 ppg Brine 960 sx 14.2 ppg Class H - Premium Top of Lead @ 0' Stg 1 -Lead (50% OH excess) 385 sx 10.5 ppg Class C - Premium Top of Tail @ 3492' Lamar 5.067 Bell Canyon 9.625 | 40 | HC L-80 | BTC Casing Test to 1500 psi for 30min 0 - 5190 8-3/4' 5190' MD FIT to 10 ppg EMW Vertical Surface pressure 200 psi Brushy Canyon 6,979' Bone Spring Lime 8,009' Lead (25% OH excess) 492 sx 12 ppg Class C - Premium Top of Lead @ 0' 9.0-9.8 ppg DBE First Bone Spring 9,452 KOP Tail (25% OH excess) 10° DLS curve section Surveys: 45' Curve , 90' Lateral ateral target window: 20' R / 20' L & 20' U/ 20' D 9459' MD 9390' TVD 1019 sx 14.5 ppg Class H - Premium PozMix Top of Tail @ 8856' Second Bone Spring 9,951 5.5 | 20 | CYP110 | GBCD 0 - 20688 5-1/2" marker jts @ ~15690', 9310' MD 8-1/2" Toe Sleeves @ ~20553' & 20561 EOC Lateral 10511' MD No anti-collision issues anticipated 10002' TVD 20688' MD 10,002' TVD @ BHL 10,000' VS