

**District I**

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

**District II**

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

**District III**

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

**District IV**

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

Form C-101

August 1, 2011

Permit 284137

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

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

|                                                                                                 |                                                |                               |
|-------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------|
| 1. Operator Name and Address<br>AMEREDEV OPERATING, LLC<br>2901 Via Fortuna<br>Austin, TX 78746 |                                                | 2. OGRID Number<br>372224     |
|                                                                                                 |                                                | 3. API Number<br>30-025-47391 |
| 4. Property Code<br>320762                                                                      | 5. Property Name<br>RED BUD 25 36 32 STATE COM | 6. Well No.<br>106H           |

**7. Surface Location**

|               |               |                 |              |              |                  |               |                   |               |               |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|-------------------|---------------|---------------|
| UL - Lot<br>O | Section<br>32 | Township<br>25S | Range<br>36E | Lot Idn<br>O | Feet From<br>200 | N/S Line<br>S | Feet From<br>1760 | E/W Line<br>E | County<br>Lea |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|-------------------|---------------|---------------|

**8. Proposed Bottom Hole Location**

|               |               |                 |              |              |                 |               |                   |               |               |
|---------------|---------------|-----------------|--------------|--------------|-----------------|---------------|-------------------|---------------|---------------|
| UL - Lot<br>B | Section<br>29 | Township<br>25S | Range<br>36E | Lot Idn<br>B | Feet From<br>50 | N/S Line<br>N | Feet From<br>1672 | E/W Line<br>E | County<br>Lea |
|---------------|---------------|-----------------|--------------|--------------|-----------------|---------------|-------------------|---------------|---------------|

**9. Pool Information**

|                    |       |
|--------------------|-------|
| JAL;WOLFCAMP, WEST | 33813 |
|--------------------|-------|

**Additional Well Information**

|                           |                             |                                        |                         |                                    |
|---------------------------|-----------------------------|----------------------------------------|-------------------------|------------------------------------|
| 11. Work Type<br>New Well | 12. Well Type<br>OIL        | 13. Cable/Rotary                       | 14. Lease Type<br>State | 15. Ground Level Elevation<br>3003 |
| 16. Multiple<br>N         | 17. Proposed Depth<br>21494 | 18. Formation<br>Wolfcamp              | 19. Contractor          | 20. Spud Date<br>12/15/2021        |
| Depth to Ground water     |                             | Distance from nearest fresh water well |                         | Distance to nearest surface water  |

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

**21. Proposed Casing and Cement Program**

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 17.5      | 13.375      | 68               | 1192          | 988             | 0             |
| Int1 | 9.875     | 7.625       | 29.7             | 10826         | 3258            | 0             |
| Prod | 6.75      | 5.5         | 23               | 21494         | 1673            | 0             |

**Casing/Cement Program: Additional Comments**

|  |
|--|
|  |
|--|

**22. Proposed Blowout Prevention Program**

| Type       | Working Pressure | Test Pressure | Manufacturer |
|------------|------------------|---------------|--------------|
| Double Ram | 5000             | 5000          | TBD          |

|                                                                                                                                                                                                                                                                                                    |                                  |                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|
| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.<br>I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. | <b>OIL CONSERVATION DIVISION</b> |                                 |
| Signature:                                                                                                                                                                                                                                                                                         |                                  |                                 |
| Printed Name: Electronically filed by Christie Hanna                                                                                                                                                                                                                                               | Approved By: Paul F Kautz        |                                 |
| Title:                                                                                                                                                                                                                                                                                             | Title: Geologist                 |                                 |
| Email Address: channa@ameredev.com                                                                                                                                                                                                                                                                 | Approved Date: 7/7/2020          | Expiration Date: 7/7/2022       |
| Date: 7/7/2020                                                                                                                                                                                                                                                                                     | Phone: 737-300-4723              | Conditions of Approval Attached |

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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

|                                           |                                                                |                                                      |
|-------------------------------------------|----------------------------------------------------------------|------------------------------------------------------|
| <sup>1</sup> API Number<br><b>30-025-</b> | <sup>2</sup> Pool Code<br><b>33813</b>                         | <sup>3</sup> Pool Name<br><b>Jal; Wolfcamp, West</b> |
| <sup>4</sup> Property Code                | <sup>5</sup> Property Name<br><b>REDBUD STATE COM 25 36 32</b> |                                                      |
| <sup>7</sup> OGRID No.<br><b>372224</b>   | <sup>8</sup> Operator Name<br><b>AMEREDEV OPERATING, LLC.</b>  | <sup>6</sup> Well Number<br><b>106H</b>              |
|                                           |                                                                | <sup>9</sup> Elevation<br><b>3003'</b>               |

<sup>10</sup>Surface Location

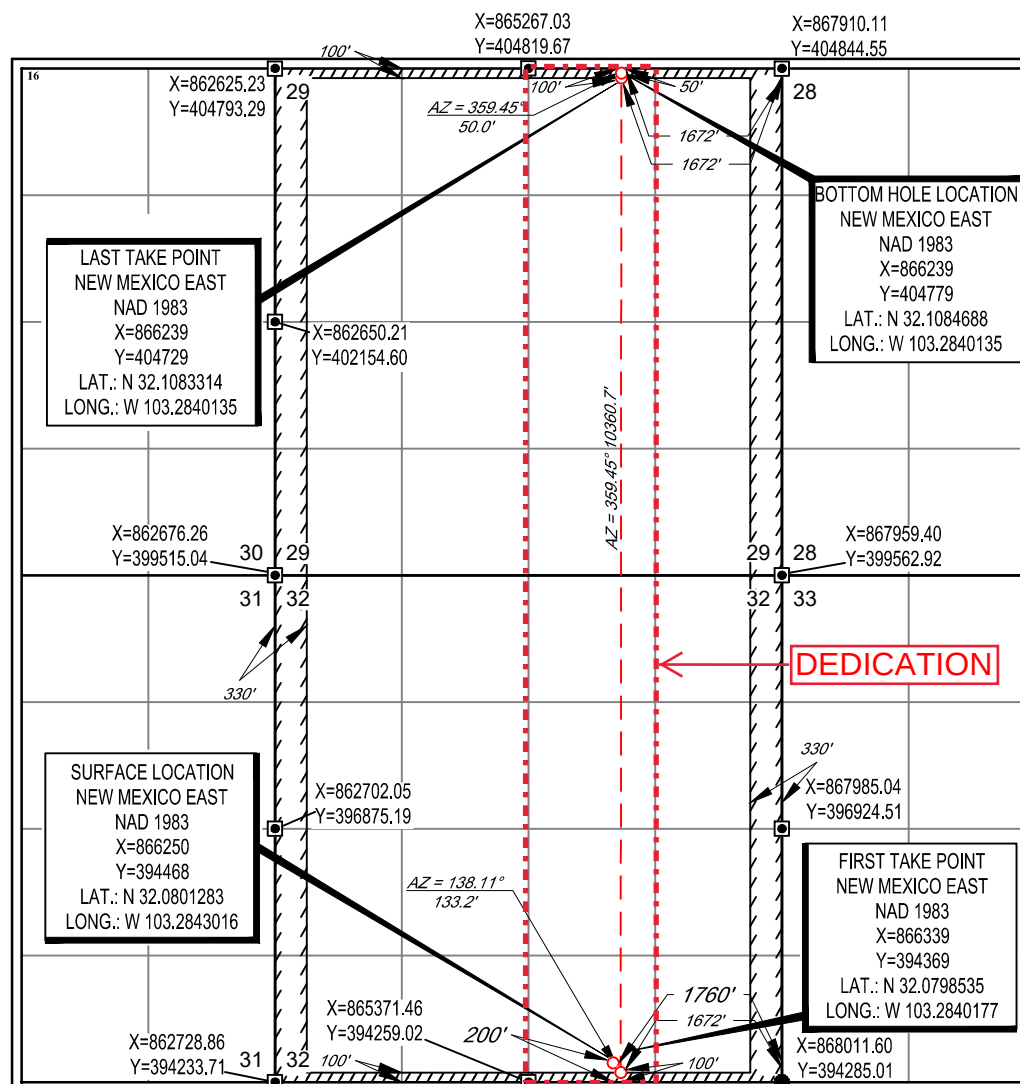
|               |         |          |       |         |               |                  |               |                |        |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| 0             | 32      | 25-S     | 36-E  | -       | 200'          | SOUTH            | 1760'         | EAST           | LEA    |

<sup>11</sup>Bottom Hole Location If Different From Surface

|               |         |          |       |         |               |                  |               |                |        |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| B             | 29      | 25-S     | 36-E  | —       | 50'           | NORTH            | 1672'         | EAST           | LEA    |

|                               |                               |                                  |                         |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
| 320                           |                               | C                                |                         |

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



## 17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Te Hamm Date 7/7/2020

Floyd Hammond

Printed Name \_\_\_\_\_

fhammond@ameredev.com

E-mail Address

## 18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

05/02/2018

Date of Survey \_\_\_\_\_  
Signature and Seal of Professional Surveyor \_\_\_\_\_

Certificate Number

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

## GAS CAPTURE PLAN

Date: 7/7/2020

☒ Original

Operator & OGRID No.: [372224] AMEREDEV OPERATING, LLC

☐ Amended - Reason for  
Amendment: \_\_\_\_\_

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

*Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).*

### Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

| Well Name                        | API          | Well Location (ULSTR) | Footages    | Expected MCF/D | Flared or Vented | Comments |
|----------------------------------|--------------|-----------------------|-------------|----------------|------------------|----------|
| RED BUD 25 36 32 STATE COM #106H | 30-025-47391 | O-32-25S-36E          | 0200S 1760E | 1500           | Flared           |          |

### Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ETC FIELD SERVICES LLC and will be connected to ETC FIELD SERVICES LLC Low Pressure gathering system located in Lea County, New Mexico. It will require 200' of pipeline to connect the facility to Low Pressure gathering system. AMEREDEV OPERATING, LLC provides (periodically) to ETC FIELD SERVICES LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, AMEREDEV OPERATING, LLC and ETC FIELD SERVICES LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ETC FIELD SERVICES LLC Processing Plant located in Sec. 33, Twn. 24S, Rng. 37E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

### Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on ETC FIELD SERVICES LLC system at that time. Based on current information, it is AMEREDEV OPERATING, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

### Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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

Form APD Comments

Permit 284137

PERMIT COMMENTS

|                                                                                                        |         |                                           |
|--------------------------------------------------------------------------------------------------------|---------|-------------------------------------------|
| Operator Name and Address:<br>AMEREDEV OPERATING, LLC [372224]<br>2901 Via Fortuna<br>Austin, TX 78746 |         | API Number:<br>30-025-47391               |
|                                                                                                        |         | Well:<br>RED BUD 25 36 32 STATE COM #106H |
| Created By                                                                                             | Comment | Comment Date                              |

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Form APD Conditions

Permit 284137

**PERMIT CONDITIONS OF APPROVAL**

|                                                                                                        |                                           |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Operator Name and Address:<br>AMEREDEV OPERATING, LLC [372224]<br>2901 Via Fortuna<br>Austin, TX 78746 | API Number:<br>30-025-47391               |
|                                                                                                        | Well:<br>RED BUD 25 36 32 STATE COM #106H |

| OCD<br>Reviewer | Condition                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| pkautz          | Will require a directional survey with the C-104                                                                                                                                                                                                                                                                                                                                                       |
| pkautz          | 1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --                                                                                                                                                                                                                                                         |
| pkautz          | If cement does not circulate to surface, must run temperature survey or other log to determine top of cement                                                                                                                                                                                                                                                                                           |
| pkautz          | Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water                                                                                                                                                                                                                                                                                                   |
| pkautz          | 1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104                                                    |
| pkautz          | It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required. |
| pkautz          | Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.                                      |



Ameredev II, LLC

## Contingency Wellbore Schematic

**Well:** Red Bud 25 36 32 State Com 106H  
**SHL:** Sec. 32 25S-36E 200' FSL & 1760' FEL  
**BHL:** Sec. 29 25S-36E 50' FNL & 1672' FEL  
 Lea, NM

**Wellhead:** A - 13-5/8" 10M x 13-5/8" SOW  
 B - 13-5/8" 10M x 13-5/8" 10M  
 C - 13-5/8" 10M x 13-5/8" 10M  
 Tubing Spool - 7-1/16" 15M x 13-3/8" 10M

**Xmas Tree:** 2-9/16" 10M

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

**Co. Well ID:** xxxxxx  
**AFE No.:** xxxx-xxx  
**API No.:** xxxxxxxxxxxx  
**GL:** 3,003'  
**Field:** Delaware  
**Objective:** Wolfcamp A  
**TVD:** 11,650'  
**MD:** 21,494'  
**Rig:** TBD **KB 27'**  
**E-Mail:** [Wellsite2@ameredev.com](mailto:Wellsite2@ameredev.com)

| Hole Size                              | Formation Tops                                 | Logs        | Cement     | Mud Weight                    |
|----------------------------------------|------------------------------------------------|-------------|------------|-------------------------------|
| 17.5"                                  | Rustler 1,067'                                 | 988 Sacks   | TOC 0'     | 8.4-8.6 ppg WBM               |
|                                        | <b>13.375" 68# J-55 BTC 1,192'</b>             |             |            |                               |
| 12.25"                                 | Salado 1,547'                                  | 854 Sacks   | TOC 0'     | 8.5-9.4 Diesel Brine Emulsion |
|                                        | DV Tool with ACP 3,398'                        |             | 50% Excess |                               |
|                                        | Tansill 3,398'                                 |             |            |                               |
|                                        | Capitan Reef 3,825'                            |             |            |                               |
|                                        | Lamar 5,047'                                   |             |            |                               |
|                                        | Bell Canyon 5,161'                             |             |            |                               |
|                                        | <b>No Casing 5,172'</b>                        |             |            |                               |
| 9.875"                                 | Brushy Canyon 7,182'                           | 2,404 Sacks | TOC 0'     | 50% Excess                    |
|                                        | Bone Spring Lime 8,276'                        |             |            |                               |
|                                        | First Bone Spring 9,643'                       |             |            |                               |
|                                        | Second Bone Spring 10,153'                     |             |            |                               |
|                                        | Third Bone Spring Upper 10,701'                |             |            |                               |
|                                        | <b>7.625" 29.7# L-80HC BTC 10,826'</b>         |             |            |                               |
| 6.75"                                  | Third Bone Spring 11,309'                      | 1,673 Sacks | TOC 0'     | 25% Excess                    |
| 12° Build @ 11,079' MD thru 11,979' MD | Wolfcamp 11,577'                               |             |            |                               |
|                                        | <b>5.5" 23# P110 MS2 Anaconda GT 21,494'</b>   |             |            |                               |
|                                        | <b>Target Wolfcamp A 11650 TVD // 21494 MD</b> |             |            | 10.5-12.5 ppg OBM             |

## Casing Design and Safety Factor Check

| <b>Casing Specifications</b> |                |              |           |               |              |                 |
|------------------------------|----------------|--------------|-----------|---------------|--------------|-----------------|
| <b>Segment</b>               | <b>Hole ID</b> | <b>Depth</b> | <b>OD</b> | <b>Weight</b> | <b>Grade</b> | <b>Coupling</b> |
| Surface                      | 17.5           | 1,192'       | 13.375    | 68            | J-55         | BTC             |
| Intermediate                 | 9.875          | 10,826'      | 7.625     | 40            | HCL-80       | BTC             |
| Prod Segment A               | 6.75           | 11,079'      | 5.5       | 23            | P-110        | GT              |
| Prod Segment B               | 6.75           | 21,494'      | 5.5       | 23            | P-110        | GT              |

| <b>Check Surface Casing</b>         |                 |                 |            |            |
|-------------------------------------|-----------------|-----------------|------------|------------|
| OD Cplg                             | Body            | Joint           | Collapse   | Burst      |
| <i>inches</i>                       | <i>1000 lbs</i> | <i>1000 lbs</i> | <i>psi</i> | <i>psi</i> |
| 14.375                              | 1,069           | 915             | 4,100      | 3,450      |
| <b>Safety Factors</b>               |                 |                 |            |            |
| 1.56                                | 13.19           | 11.29           | 7.70       | 0.65       |
| <b>Check Intermediate Casing</b>    |                 |                 |            |            |
| OD Cplg                             | Body            | Joint           | Collapse   | Burst      |
| <i>inches</i>                       | <i>1000 lbs</i> | <i>1000 lbs</i> | <i>psi</i> | <i>psi</i> |
| 7.625                               | 940             | 558             | 6700       | 9460       |
| <b>Safety Factors</b>               |                 |                 |            |            |
| 1.13                                | 2.92            | 2.03            | 1.27       | 1.25       |
| <b>Check Prod Casing, Segment A</b> |                 |                 |            |            |
| OD Cplg                             | Body            | Joint           | Collapse   | Burst      |
| <i>inches</i>                       | <i>1000 lbs</i> | <i>1000 lbs</i> | <i>psi</i> | <i>psi</i> |
| 5.777                               | 728             | 655             | 12780      | 14360      |
| <b>Safety Factors</b>               |                 |                 |            |            |
| 0.49                                | 2.72            | 2.44            | 1.78       | 1.90       |
| <b>Check Prod Casing, Segment B</b> |                 |                 |            |            |
| OD Cplg                             | Body            | Joint           | Collapse   | Burst      |
| <i>inches</i>                       | <i>1000 lbs</i> | <i>1000 lbs</i> | <i>psi</i> | <i>psi</i> |
| 5.777                               | 728             | 655             | 12780      | 14360      |
| <b>Safety Factors</b>               |                 |                 |            |            |
| 0.49                                | 55.43           | 49.87           | 1.69       | 1.90       |



## **Ameredev Operating, LLC**

**Lea County, NM (NAD83 NME)  
(Redbud State) Sec32\_T-25-S\_R-26-E  
Red Bud State Com 25-36-32 #106H**

**OWB**

**Plan: Plan #1**

## **Standard Planning Report**

**28 June, 2018**





## Planning Report



|                  |                                    |                                     |                                       |
|------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | EDM5000                            | <b>Local Co-ordinate Reference:</b> | Well Red Bud State Com 25-36-32 #106H |
| <b>Company:</b>  | Ameredev Operating, LLC            | <b>TVD Reference:</b>               | KB @ 3030.0usft (Rig)                 |
| <b>Project:</b>  | Lea County, NM (NAD83 NME)         | <b>MD Reference:</b>                | KB @ 3030.0usft (Rig)                 |
| <b>Site:</b>     | (Redbud State) Sec32_T-25-S_R-26-E | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Red Bud State Com 25-36-32 #106H   | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Wellbore:</b> | OWB                                |                                     |                                       |
| <b>Design:</b>   | Plan #1                            |                                     |                                       |

|                    |                            |                      |                |
|--------------------|----------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, NM (NAD83 NME) |                      |                |
| <b>Map System:</b> | US State Plane 1983        | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983  |                      |                |
| <b>Map Zone:</b>   | New Mexico Eastern Zone    |                      |                |

|                       |                                    |              |                 |                   |              |
|-----------------------|------------------------------------|--------------|-----------------|-------------------|--------------|
| Site                  | (Redbud State) Sec32_T-25-S_R-26-E |              |                 |                   |              |
| Site Position:        |                                    | Northing:    | 394,463.00 usft | Latitude:         | 32.0801291   |
| From:                 | Map                                | Easting:     | 865,740.00 usft | Longitude:        | -103.2859471 |
| Position Uncertainty: | 0.0 usft                           | Slot Radius: | 13-3/16 "       | Grid Convergence: | 0.56 °       |

| Well                 | Red Bud State Com 25-36-32 #106H |            |                     |                 |               |              |
|----------------------|----------------------------------|------------|---------------------|-----------------|---------------|--------------|
| Well Position        | +N/-S                            | 5.0 usft   | Northing:           | 394,468.00 usft | Latitude:     | 32.0801292   |
|                      | +E/-W                            | 510.0 usft | Easting:            | 866,250.00 usft | Longitude:    | -103.2843005 |
| Position Uncertainty |                                  | 0.0 usft   | Wellhead Elevation: |                 | Ground Level: | 3,003.0 usft |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | OWB               |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015          | 2018/06/27         | 6.70                   | 59.96                | 47,779.92920451            |

|                          |                                |                     |                     |                      |     |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|-----|
| <b>Design</b>            | Plan #1                        |                     |                     |                      |     |
| <b>Audit Notes:</b>      |                                |                     |                     |                      |     |
| <b>Version:</b>          |                                | <b>Phase:</b>       | PLAN                | <b>Tie On Depth:</b> | 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Direction (°)</b> |     |
|                          | 0.0                            | 0.0                 | 0.0                 | 359.94               |     |

|                                 |                        |                          |                  |                |  |
|---------------------------------|------------------------|--------------------------|------------------|----------------|--|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 2018/06/27               |                  |                |  |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Remarks</b> |  |
| 1                               | 0.0                    | 21,493.0                 | Plan #1 (OWB)    | MWD            |  |
|                                 |                        |                          | MWD - Standard   |                |  |



## Planning Report



|                  |                                    |                                     |                                       |
|------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | EDM5000                            | <b>Local Co-ordinate Reference:</b> | Well Red Bud State Com 25-36-32 #106H |
| <b>Company:</b>  | Ameredev Operating, LLC            | <b>TVD Reference:</b>               | KB @ 3030.0usft (Rig)                 |
| <b>Project:</b>  | Lea County, NM (NAD83 NME)         | <b>MD Reference:</b>                | KB @ 3030.0usft (Rig)                 |
| <b>Site:</b>     | (Redbud State) Sec32_T-25-S_R-26-E | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Red Bud State Com 25-36-32 #106H   | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Wellbore:</b> | OWB                                |                                     |                                       |
| <b>Design:</b>   | Plan #1                            |                                     |                                       |

| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |                     |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target              |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 2,000.0               | 0.00            | 0.00        | 2,000.0               | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 2,150.0               | 3.00            | 30.00       | 2,149.9               | 3.4          | 2.0          | 2.00                    | 2.00                   | 0.00                  | 30.00   |                     |
| 3,652.1               | 3.00            | 30.00       | 3,650.0               | 71.5         | 41.3         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 3,802.1               | 0.00            | 0.00        | 3,799.9               | 74.9         | 43.2         | 2.00                    | -2.00                  | 0.00                  | 180.00  |                     |
| 11,079.2              | 0.00            | 0.00        | 11,077.0              | 74.9         | 43.2         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 11,979.2              | 90.00           | 3.20        | 11,650.0              | 646.9        | 75.2         | 10.00                   | 10.00                  | 0.00                  | 3.20    |                     |
| 12,166.8              | 90.00           | 359.45      | 11,650.0              | 834.4        | 79.6         | 2.00                    | 0.00                   | -2.00                 | -90.00  |                     |
| 21,363.8              | 90.00           | 359.45      | 11,650.0              | 10,031.0     | -9.0         | 0.00                    | 0.00                   | 0.00                  | 0.00    | LTP (Red Bud State  |
| 21,493.8              | 90.00           | 359.45      | 11,650.0              | 10,161.0     | -10.3        | 0.00                    | 0.00                   | 0.00                  | 0.00    | PBHL (Red Bud State |



## Planning Report



|                  |                                    |                                     |                                       |
|------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | EDM5000                            | <b>Local Co-ordinate Reference:</b> | Well Red Bud State Com 25-36-32 #106H |
| <b>Company:</b>  | Ameredev Operating, LLC            | <b>TVD Reference:</b>               | KB @ 3030.0usft (Rig)                 |
| <b>Project:</b>  | Lea County, NM (NAD83 NME)         | <b>MD Reference:</b>                | KB @ 3030.0usft (Rig)                 |
| <b>Site:</b>     | (Redbud State) Sec32_T-25-S_R-26-E | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Red Bud State Com 25-36-32 #106H   | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Wellbore:</b> | OWB                                |                                     |                                       |
| <b>Design:</b>   | Plan #1                            |                                     |                                       |

| Planned 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                             | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 700.0                             | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 800.0                             | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 900.0                             | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,000.0                           | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0                           | 0.00            | 0.00        | 1,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0                           | 0.00            | 0.00        | 1,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,213.0                           | 0.00            | 0.00        | 1,213.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| <b>Rustler</b>                    |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,300.0                           | 0.00            | 0.00        | 1,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,338.0                           | 0.00            | 0.00        | 1,338.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| <b>13.375"</b>                    |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,400.0                           | 0.00            | 0.00        | 1,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0                           | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0                           | 0.00            | 0.00        | 1,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,678.0                           | 0.00            | 0.00        | 1,678.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| <b>Salado</b>                     |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,700.0                           | 0.00            | 0.00        | 1,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0                           | 0.00            | 0.00        | 1,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0                           | 0.00            | 0.00        | 1,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0                           | 0.00            | 0.00        | 2,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| <b>BUILD - 2.00</b>               |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,100.0                           | 2.00            | 30.00       | 2,100.0               | 1.5          | 0.9          | 1.5                     | 2.00                    | 2.00                   | 0.00                  |
| 2,150.0                           | 3.00            | 30.00       | 2,149.9               | 3.4          | 2.0          | 3.4                     | 2.00                    | 2.00                   | 0.00                  |
| <b>HOLD - 1502.1 at 2150.0 MD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,200.0                           | 3.00            | 30.00       | 2,199.9               | 5.7          | 3.3          | 5.7                     | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0                           | 3.00            | 30.00       | 2,299.7               | 10.2         | 5.9          | 10.2                    | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0                           | 3.00            | 30.00       | 2,399.6               | 14.7         | 8.5          | 14.7                    | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0                           | 3.00            | 30.00       | 2,499.5               | 19.3         | 11.1         | 19.3                    | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0                           | 3.00            | 30.00       | 2,599.3               | 23.8         | 13.7         | 23.8                    | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0                           | 3.00            | 30.00       | 2,699.2               | 28.3         | 16.4         | 28.3                    | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0                           | 3.00            | 30.00       | 2,799.0               | 32.9         | 19.0         | 32.8                    | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0                           | 3.00            | 30.00       | 2,898.9               | 37.4         | 21.6         | 37.4                    | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0                           | 3.00            | 30.00       | 2,998.8               | 41.9         | 24.2         | 41.9                    | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0                           | 3.00            | 30.00       | 3,098.6               | 46.5         | 26.8         | 46.4                    | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0                           | 3.00            | 30.00       | 3,198.5               | 51.0         | 29.4         | 51.0                    | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0                           | 3.00            | 30.00       | 3,298.4               | 55.5         | 32.1         | 55.5                    | 0.00                    | 0.00                   | 0.00                  |
| 3,363.7                           | 3.00            | 30.00       | 3,362.0               | 58.4         | 33.7         | 58.4                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Tansill</b>                    |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,400.0                           | 3.00            | 30.00       | 3,398.2               | 60.1         | 34.7         | 60.0                    | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0                           | 3.00            | 30.00       | 3,498.1               | 64.6         | 37.3         | 64.6                    | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0                           | 3.00            | 30.00       | 3,597.9               | 69.1         | 39.9         | 69.1                    | 0.00                    | 0.00                   | 0.00                  |
| 3,652.1                           | 3.00            | 30.00       | 3,650.0               | 71.5         | 41.3         | 71.4                    | 0.00                    | 0.00                   | 0.00                  |
| <b>DROP - 2.00</b>                |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,700.0                           | 2.04            | 30.00       | 3,697.8               | 73.3         | 42.3         | 73.3                    | 2.00                    | -2.00                  | 0.00                  |
| 3,802.1                           | 0.00            | 0.00        | 3,799.9               | 74.9         | 43.2         | 74.8                    | 2.00                    | -2.00                  | -29.38                |
| <b>HOLD - 7277.1 at 3802.1 MD</b> |                 |             |                       |              |              |                         |                         |                        |                       |



## Planning Report



|                  |                                    |                                     |                                       |
|------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | EDM5000                            | <b>Local Co-ordinate Reference:</b> | Well Red Bud State Com 25-36-32 #106H |
| <b>Company:</b>  | Ameredev Operating, LLC            | <b>TVD Reference:</b>               | KB @ 3030.0usft (Rig)                 |
| <b>Project:</b>  | Lea County, NM (NAD83 NME)         | <b>MD Reference:</b>                | KB @ 3030.0usft (Rig)                 |
| <b>Site:</b>     | (Redbud State) Sec32_T-25-S_R-26-E | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Red Bud State Com 25-36-32 #106H   | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Wellbore:</b> | OWB                                |                                     |                                       |
| <b>Design:</b>   | Plan #1                            |                                     |                                       |

| Planned 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) |
| 3,900.0                 | 0.00            | 0.00        | 3,897.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0                 | 0.00            | 0.00        | 3,997.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0                 | 0.00            | 0.00        | 4,097.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0                 | 0.00            | 0.00        | 4,197.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0                 | 0.00            | 0.00        | 4,297.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0                 | 0.00            | 0.00        | 4,397.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0                 | 0.00            | 0.00        | 4,497.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0                 | 0.00            | 0.00        | 4,597.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0                 | 0.00            | 0.00        | 4,697.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0                 | 0.00            | 0.00        | 4,797.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0                 | 0.00            | 0.00        | 4,897.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0                 | 0.00            | 0.00        | 4,997.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0                 | 0.00            | 0.00        | 5,097.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 5,105.2                 | 0.00            | 0.00        | 5,103.0               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Lamar</b>            |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,155.2                 | 0.00            | 0.00        | 5,153.0               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| <b>9.625"</b>           |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,156.2                 | 0.00            | 0.00        | 5,154.0               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Bell Canyon</b>      |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,200.0                 | 0.00            | 0.00        | 5,197.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 5,300.0                 | 0.00            | 0.00        | 5,297.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0                 | 0.00            | 0.00        | 5,397.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0                 | 0.00            | 0.00        | 5,497.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0                 | 0.00            | 0.00        | 5,597.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0                 | 0.00            | 0.00        | 5,697.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0                 | 0.00            | 0.00        | 5,797.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0                 | 0.00            | 0.00        | 5,897.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0                 | 0.00            | 0.00        | 5,997.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0                 | 0.00            | 0.00        | 6,097.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0                 | 0.00            | 0.00        | 6,197.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0                 | 0.00            | 0.00        | 6,297.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0                 | 0.00            | 0.00        | 6,397.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0                 | 0.00            | 0.00        | 6,497.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0                 | 0.00            | 0.00        | 6,597.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0                 | 0.00            | 0.00        | 6,697.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0                 | 0.00            | 0.00        | 6,797.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0                 | 0.00            | 0.00        | 6,897.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 6,977.2                 | 0.00            | 0.00        | 6,975.0               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Brushy Canyon</b>    |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,000.0                 | 0.00            | 0.00        | 6,997.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0                 | 0.00            | 0.00        | 7,097.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0                 | 0.00            | 0.00        | 7,197.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0                 | 0.00            | 0.00        | 7,297.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0                 | 0.00            | 0.00        | 7,397.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0                 | 0.00            | 0.00        | 7,497.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 7,600.0                 | 0.00            | 0.00        | 7,597.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 7,700.0                 | 0.00            | 0.00        | 7,697.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0                 | 0.00            | 0.00        | 7,797.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0                 | 0.00            | 0.00        | 7,897.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0                 | 0.00            | 0.00        | 7,997.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0                 | 0.00            | 0.00        | 8,097.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 8,127.2                 | 0.00            | 0.00        | 8,125.0               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Bone Spring Lime</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,200.0                 | 0.00            | 0.00        | 8,197.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |



## Planning Report



|                  |                                    |                                     |                                       |
|------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | EDM5000                            | <b>Local Co-ordinate Reference:</b> | Well Red Bud State Com 25-36-32 #106H |
| <b>Company:</b>  | Ameredev Operating, LLC            | <b>TVD Reference:</b>               | KB @ 3030.0usft (Rig)                 |
| <b>Project:</b>  | Lea County, NM (NAD83 NME)         | <b>MD Reference:</b>                | KB @ 3030.0usft (Rig)                 |
| <b>Site:</b>     | (Redbud State) Sec32_T-25-S_R-26-E | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Red Bud State Com 25-36-32 #106H   | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Wellbore:</b> | OWB                                |                                     |                                       |
| <b>Design:</b>   | Plan #1                            |                                     |                                       |

| Planned 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) |
| 8,300.0                                       | 0.00            | 0.00        | 8,297.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0                                       | 0.00            | 0.00        | 8,397.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0                                       | 0.00            | 0.00        | 8,497.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0                                       | 0.00            | 0.00        | 8,597.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0                                       | 0.00            | 0.00        | 8,697.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0                                       | 0.00            | 0.00        | 8,797.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0                                       | 0.00            | 0.00        | 8,897.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0                                       | 0.00            | 0.00        | 8,997.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0                                       | 0.00            | 0.00        | 9,097.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0                                       | 0.00            | 0.00        | 9,197.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0                                       | 0.00            | 0.00        | 9,297.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0                                       | 0.00            | 0.00        | 9,397.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0                                       | 0.00            | 0.00        | 9,497.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 9,582.2                                       | 0.00            | 0.00        | 9,580.0               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| <b>First Bone Spring</b>                      |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,600.0                                       | 0.00            | 0.00        | 9,597.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0                                       | 0.00            | 0.00        | 9,697.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0                                       | 0.00            | 0.00        | 9,797.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0                                       | 0.00            | 0.00        | 9,897.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0                                      | 0.00            | 0.00        | 9,997.8               | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0                                      | 0.00            | 0.00        | 10,097.8              | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 10,102.2                                      | 0.00            | 0.00        | 10,100.0              | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Second Bone Spring</b>                     |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,200.0                                      | 0.00            | 0.00        | 10,197.8              | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0                                      | 0.00            | 0.00        | 10,297.8              | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0                                      | 0.00            | 0.00        | 10,397.8              | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0                                      | 0.00            | 0.00        | 10,497.8              | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0                                      | 0.00            | 0.00        | 10,597.8              | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 10,700.0                                      | 0.00            | 0.00        | 10,697.8              | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 10,756.2                                      | 0.00            | 0.00        | 10,754.0              | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Third Bone Spring Upper</b>                |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,800.0                                      | 0.00            | 0.00        | 10,797.8              | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0                                      | 0.00            | 0.00        | 10,897.8              | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0                                      | 0.00            | 0.00        | 10,997.8              | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| 11,079.2                                      | 0.00            | 0.00        | 11,077.0              | 74.9         | 43.2         | 74.8                    | 0.00                    | 0.00                   | 0.00                  |
| <b>KOP - Build 10.00 - 7.625"</b>             |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,100.0                                      | 2.08            | 3.20        | 11,097.8              | 75.3         | 43.3         | 75.2                    | 10.00                   | 10.00                  | 0.00                  |
| 11,150.0                                      | 7.08            | 3.20        | 11,147.6              | 79.2         | 43.5         | 79.2                    | 10.00                   | 10.00                  | 0.00                  |
| 11,200.0                                      | 12.08           | 3.20        | 11,196.9              | 87.6         | 43.9         | 87.5                    | 10.00                   | 10.00                  | 0.00                  |
| 11,250.0                                      | 17.08           | 3.20        | 11,245.3              | 100.1        | 44.6         | 100.1                   | 10.00                   | 10.00                  | 0.00                  |
| 11,300.0                                      | 22.08           | 3.20        | 11,292.4              | 116.8        | 45.6         | 116.8                   | 10.00                   | 10.00                  | 0.00                  |
| 11,350.0                                      | 27.08           | 3.20        | 11,337.8              | 137.6        | 46.7         | 137.6                   | 10.00                   | 10.00                  | 0.00                  |
| 11,355.8                                      | 27.66           | 3.20        | 11,343.0              | 140.3        | 46.9         | 140.2                   | 10.00                   | 10.00                  | 0.00                  |
| <b>Third Bone Spring</b>                      |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,400.0                                      | 32.08           | 3.20        | 11,381.3              | 162.2        | 48.1         | 162.2                   | 10.00                   | 10.00                  | 0.00                  |
| 11,450.0                                      | 37.08           | 3.20        | 11,422.5              | 190.6        | 49.7         | 190.5                   | 10.00                   | 10.00                  | 0.00                  |
| 11,500.0                                      | 42.08           | 3.20        | 11,461.0              | 222.4        | 51.5         | 222.3                   | 10.00                   | 10.00                  | 0.00                  |
| 11,550.0                                      | 47.08           | 3.20        | 11,496.6              | 257.4        | 53.4         | 257.3                   | 10.00                   | 10.00                  | 0.00                  |
| 11,554.8                                      | 47.56           | 3.20        | 11,499.8              | 260.9        | 53.6         | 260.8                   | 10.00                   | 10.00                  | 0.00                  |
| <b>FTP (Red Bud State Com 25-36-32 #106H)</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,600.0                                      | 52.08           | 3.20        | 11,529.0              | 295.4        | 55.6         | 295.3                   | 10.00                   | 10.00                  | 0.00                  |
| 11,604.9                                      | 52.57           | 3.20        | 11,532.0              | 299.3        | 55.8         | 299.2                   | 10.00                   | 10.00                  | 0.00                  |
| <b>Wolfcamp</b>                               |                 |             |                       |              |              |                         |                         |                        |                       |



## Planning Report



|                  |                                    |                                     |                                       |
|------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | EDM5000                            | <b>Local Co-ordinate Reference:</b> | Well Red Bud State Com 25-36-32 #106H |
| <b>Company:</b>  | Ameredev Operating, LLC            | <b>TVD Reference:</b>               | KB @ 3030.0usft (Rig)                 |
| <b>Project:</b>  | Lea County, NM (NAD83 NME)         | <b>MD Reference:</b>                | KB @ 3030.0usft (Rig)                 |
| <b>Site:</b>     | (Redbud State) Sec32_T-25-S_R-26-E | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Red Bud State Com 25-36-32 #106H   | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Wellbore:</b> | OWB                                |                                     |                                       |
| <b>Design:</b>   | Plan #1                            |                                     |                                       |

| Planned 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) |
| 11,650.0                              | 57.08           | 3.20        | 11,558.0              | 336.1        | 57.8         | 336.0                   | 10.00                   | 10.00                  | 0.00                  |
| 11,700.0                              | 62.08           | 3.20        | 11,583.3              | 379.1        | 60.2         | 379.0                   | 10.00                   | 10.00                  | 0.00                  |
| 11,750.0                              | 67.08           | 3.20        | 11,604.7              | 424.2        | 62.8         | 424.1                   | 10.00                   | 10.00                  | 0.00                  |
| 11,800.0                              | 72.08           | 3.20        | 11,622.2              | 470.9        | 65.4         | 470.9                   | 10.00                   | 10.00                  | 0.00                  |
| 11,850.0                              | 77.08           | 3.20        | 11,635.5              | 519.0        | 68.1         | 519.0                   | 10.00                   | 10.00                  | 0.00                  |
| 11,900.0                              | 82.08           | 3.20        | 11,644.5              | 568.1        | 70.8         | 568.1                   | 10.00                   | 10.00                  | 0.00                  |
| 11,950.0                              | 87.08           | 3.20        | 11,649.2              | 617.8        | 73.6         | 617.7                   | 10.00                   | 10.00                  | 0.00                  |
| 11,979.2                              | 90.00           | 3.20        | 11,650.0              | 646.9        | 75.2         | 646.9                   | 10.00                   | 10.00                  | 0.00                  |
| <b>EOC/TURN - DLS 2.00 TFO -90.00</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,000.0                              | 90.00           | 2.78        | 11,650.0              | 667.7        | 76.3         | 667.6                   | 2.00                    | 0.00                   | -2.00                 |
| 12,100.0                              | 90.00           | 0.78        | 11,650.0              | 767.7        | 79.4         | 767.6                   | 2.00                    | 0.00                   | -2.00                 |
| 12,166.8                              | 90.00           | 359.45      | 11,650.0              | 834.4        | 79.6         | 834.4                   | 2.00                    | 0.00                   | -2.00                 |
| <b>HOLD - 9197.0 at 12166.8 MD</b>    |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,200.0                              | 90.00           | 359.45      | 11,650.0              | 867.7        | 79.2         | 867.6                   | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0                              | 90.00           | 359.45      | 11,650.0              | 967.7        | 78.3         | 967.6                   | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0                              | 90.00           | 359.45      | 11,650.0              | 1,067.7      | 77.3         | 1,067.6                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0                              | 90.00           | 359.45      | 11,650.0              | 1,167.7      | 76.3         | 1,167.6                 | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0                              | 90.00           | 359.45      | 11,650.0              | 1,267.6      | 75.4         | 1,267.6                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0                              | 90.00           | 359.45      | 11,650.0              | 1,367.6      | 74.4         | 1,367.6                 | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0                              | 90.00           | 359.45      | 11,650.0              | 1,467.6      | 73.5         | 1,467.6                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0                              | 90.00           | 359.45      | 11,650.0              | 1,567.6      | 72.5         | 1,567.6                 | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                              | 90.00           | 359.45      | 11,650.0              | 1,667.6      | 71.5         | 1,667.6                 | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0                              | 90.00           | 359.45      | 11,650.0              | 1,767.6      | 70.6         | 1,767.6                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0                              | 90.00           | 359.45      | 11,650.0              | 1,867.6      | 69.6         | 1,867.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0                              | 90.00           | 359.45      | 11,650.0              | 1,967.6      | 68.6         | 1,967.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0                              | 90.00           | 359.45      | 11,650.0              | 2,067.6      | 67.7         | 2,067.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0                              | 90.00           | 359.45      | 11,650.0              | 2,167.6      | 66.7         | 2,167.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0                              | 90.00           | 359.45      | 11,650.0              | 2,267.6      | 65.8         | 2,267.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0                              | 90.00           | 359.45      | 11,650.0              | 2,367.6      | 64.8         | 2,367.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0                              | 90.00           | 359.45      | 11,650.0              | 2,467.6      | 63.8         | 2,467.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0                              | 90.00           | 359.45      | 11,650.0              | 2,567.6      | 62.9         | 2,567.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0                              | 90.00           | 359.45      | 11,650.0              | 2,667.6      | 61.9         | 2,667.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0                              | 90.00           | 359.45      | 11,650.0              | 2,767.6      | 60.9         | 2,767.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0                              | 90.00           | 359.45      | 11,650.0              | 2,867.6      | 60.0         | 2,867.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0                              | 90.00           | 359.45      | 11,650.0              | 2,967.6      | 59.0         | 2,967.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0                              | 90.00           | 359.45      | 11,650.0              | 3,067.6      | 58.0         | 3,067.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0                              | 90.00           | 359.45      | 11,650.0              | 3,167.6      | 57.1         | 3,167.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0                              | 90.00           | 359.45      | 11,650.0              | 3,267.6      | 56.1         | 3,267.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0                              | 90.00           | 359.45      | 11,650.0              | 3,367.6      | 55.2         | 3,367.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0                              | 90.00           | 359.45      | 11,650.0              | 3,467.5      | 54.2         | 3,467.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0                              | 90.00           | 359.45      | 11,650.0              | 3,567.5      | 53.2         | 3,567.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0                              | 90.00           | 359.45      | 11,650.0              | 3,667.5      | 52.3         | 3,667.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0                              | 90.00           | 359.45      | 11,650.0              | 3,767.5      | 51.3         | 3,767.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0                              | 90.00           | 359.45      | 11,650.0              | 3,867.5      | 50.3         | 3,867.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0                              | 90.00           | 359.45      | 11,650.0              | 3,967.5      | 49.4         | 3,967.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0                              | 90.00           | 359.45      | 11,650.0              | 4,067.5      | 48.4         | 4,067.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0                              | 90.00           | 359.45      | 11,650.0              | 4,167.5      | 47.5         | 4,167.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0                              | 90.00           | 359.45      | 11,650.0              | 4,267.5      | 46.5         | 4,267.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0                              | 90.00           | 359.45      | 11,650.0              | 4,367.5      | 45.5         | 4,367.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0                              | 90.00           | 359.45      | 11,650.0              | 4,467.5      | 44.6         | 4,467.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,900.0                              | 90.00           | 359.45      | 11,650.0              | 4,567.5      | 43.6         | 4,567.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,000.0                              | 90.00           | 359.45      | 11,650.0              | 4,667.5      | 42.6         | 4,667.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,100.0                              | 90.00           | 359.45      | 11,650.0              | 4,767.5      | 41.7         | 4,767.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,200.0                              | 90.00           | 359.45      | 11,650.0              | 4,867.5      | 40.7         | 4,867.4                 | 0.00                    | 0.00                   | 0.00                  |



## Planning Report



|                  |                                    |                                     |                                       |
|------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | EDM5000                            | <b>Local Co-ordinate Reference:</b> | Well Red Bud State Com 25-36-32 #106H |
| <b>Company:</b>  | Ameredev Operating, LLC            | <b>TVD Reference:</b>               | KB @ 3030.0usft (Rig)                 |
| <b>Project:</b>  | Lea County, NM (NAD83 NME)         | <b>MD Reference:</b>                | KB @ 3030.0usft (Rig)                 |
| <b>Site:</b>     | (Redbud State) Sec32_T-25-S_R-26-E | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Red Bud State Com 25-36-32 #106H   | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Wellbore:</b> | OWB                                |                                     |                                       |
| <b>Design:</b>   | Plan #1                            |                                     |                                       |

| Planned 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) |
| 16,300.0                                            | 90.00           | 359.45      | 11,650.0              | 4,967.5      | 39.8         | 4,967.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,400.0                                            | 90.00           | 359.45      | 11,650.0              | 5,067.5      | 38.8         | 5,067.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,500.0                                            | 90.00           | 359.45      | 11,650.0              | 5,167.5      | 37.8         | 5,167.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,600.0                                            | 90.00           | 359.45      | 11,650.0              | 5,267.5      | 36.9         | 5,267.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,700.0                                            | 90.00           | 359.45      | 11,650.0              | 5,367.5      | 35.9         | 5,367.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,800.0                                            | 90.00           | 359.45      | 11,650.0              | 5,467.5      | 34.9         | 5,467.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,900.0                                            | 90.00           | 359.45      | 11,650.0              | 5,567.4      | 34.0         | 5,567.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,000.0                                            | 90.00           | 359.45      | 11,650.0              | 5,667.4      | 33.0         | 5,667.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,100.0                                            | 90.00           | 359.45      | 11,650.0              | 5,767.4      | 32.1         | 5,767.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,200.0                                            | 90.00           | 359.45      | 11,650.0              | 5,867.4      | 31.1         | 5,867.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,300.0                                            | 90.00           | 359.45      | 11,650.0              | 5,967.4      | 30.1         | 5,967.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,400.0                                            | 90.00           | 359.45      | 11,650.0              | 6,067.4      | 29.2         | 6,067.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,500.0                                            | 90.00           | 359.45      | 11,650.0              | 6,167.4      | 28.2         | 6,167.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,600.0                                            | 90.00           | 359.45      | 11,650.0              | 6,267.4      | 27.2         | 6,267.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,700.0                                            | 90.00           | 359.45      | 11,650.0              | 6,367.4      | 26.3         | 6,367.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,800.0                                            | 90.00           | 359.45      | 11,650.0              | 6,467.4      | 25.3         | 6,467.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,900.0                                            | 90.00           | 359.45      | 11,650.0              | 6,567.4      | 24.4         | 6,567.4                 | 0.00                    | 0.00                   | 0.00                  |
| 18,000.0                                            | 90.00           | 359.45      | 11,650.0              | 6,667.4      | 23.4         | 6,667.4                 | 0.00                    | 0.00                   | 0.00                  |
| 18,100.0                                            | 90.00           | 359.45      | 11,650.0              | 6,767.4      | 22.4         | 6,767.4                 | 0.00                    | 0.00                   | 0.00                  |
| 18,200.0                                            | 90.00           | 359.45      | 11,650.0              | 6,867.4      | 21.5         | 6,867.4                 | 0.00                    | 0.00                   | 0.00                  |
| 18,300.0                                            | 90.00           | 359.45      | 11,650.0              | 6,967.4      | 20.5         | 6,967.4                 | 0.00                    | 0.00                   | 0.00                  |
| 18,400.0                                            | 90.00           | 359.45      | 11,650.0              | 7,067.4      | 19.5         | 7,067.4                 | 0.00                    | 0.00                   | 0.00                  |
| 18,500.0                                            | 90.00           | 359.45      | 11,650.0              | 7,167.4      | 18.6         | 7,167.4                 | 0.00                    | 0.00                   | 0.00                  |
| 18,600.0                                            | 90.00           | 359.45      | 11,650.0              | 7,267.4      | 17.6         | 7,267.3                 | 0.00                    | 0.00                   | 0.00                  |
| 18,700.0                                            | 90.00           | 359.45      | 11,650.0              | 7,367.4      | 16.6         | 7,367.3                 | 0.00                    | 0.00                   | 0.00                  |
| 18,800.0                                            | 90.00           | 359.45      | 11,650.0              | 7,467.4      | 15.7         | 7,467.3                 | 0.00                    | 0.00                   | 0.00                  |
| 18,900.0                                            | 90.00           | 359.45      | 11,650.0              | 7,567.4      | 14.7         | 7,567.3                 | 0.00                    | 0.00                   | 0.00                  |
| 19,000.0                                            | 90.00           | 359.45      | 11,650.0              | 7,667.4      | 13.8         | 7,667.3                 | 0.00                    | 0.00                   | 0.00                  |
| 19,100.0                                            | 90.00           | 359.45      | 11,650.0              | 7,767.3      | 12.8         | 7,767.3                 | 0.00                    | 0.00                   | 0.00                  |
| 19,200.0                                            | 90.00           | 359.45      | 11,650.0              | 7,867.3      | 11.8         | 7,867.3                 | 0.00                    | 0.00                   | 0.00                  |
| 19,300.0                                            | 90.00           | 359.45      | 11,650.0              | 7,967.3      | 10.9         | 7,967.3                 | 0.00                    | 0.00                   | 0.00                  |
| 19,400.0                                            | 90.00           | 359.45      | 11,650.0              | 8,067.3      | 9.9          | 8,067.3                 | 0.00                    | 0.00                   | 0.00                  |
| 19,500.0                                            | 90.00           | 359.45      | 11,650.0              | 8,167.3      | 8.9          | 8,167.3                 | 0.00                    | 0.00                   | 0.00                  |
| 19,600.0                                            | 90.00           | 359.45      | 11,650.0              | 8,267.3      | 8.0          | 8,267.3                 | 0.00                    | 0.00                   | 0.00                  |
| 19,700.0                                            | 90.00           | 359.45      | 11,650.0              | 8,367.3      | 7.0          | 8,367.3                 | 0.00                    | 0.00                   | 0.00                  |
| 19,800.0                                            | 90.00           | 359.45      | 11,650.0              | 8,467.3      | 6.1          | 8,467.3                 | 0.00                    | 0.00                   | 0.00                  |
| 19,900.0                                            | 90.00           | 359.45      | 11,650.0              | 8,567.3      | 5.1          | 8,567.3                 | 0.00                    | 0.00                   | 0.00                  |
| 20,000.0                                            | 90.00           | 359.45      | 11,650.0              | 8,667.3      | 4.1          | 8,667.3                 | 0.00                    | 0.00                   | 0.00                  |
| 20,100.0                                            | 90.00           | 359.45      | 11,650.0              | 8,767.3      | 3.2          | 8,767.3                 | 0.00                    | 0.00                   | 0.00                  |
| 20,200.0                                            | 90.00           | 359.45      | 11,650.0              | 8,867.3      | 2.2          | 8,867.3                 | 0.00                    | 0.00                   | 0.00                  |
| 20,300.0                                            | 90.00           | 359.45      | 11,650.0              | 8,967.3      | 1.2          | 8,967.3                 | 0.00                    | 0.00                   | 0.00                  |
| 20,400.0                                            | 90.00           | 359.45      | 11,650.0              | 9,067.3      | 0.3          | 9,067.3                 | 0.00                    | 0.00                   | 0.00                  |
| 20,500.0                                            | 90.00           | 359.45      | 11,650.0              | 9,167.3      | -0.7         | 9,167.3                 | 0.00                    | 0.00                   | 0.00                  |
| 20,600.0                                            | 90.00           | 359.45      | 11,650.0              | 9,267.3      | -1.6         | 9,267.3                 | 0.00                    | 0.00                   | 0.00                  |
| 20,700.0                                            | 90.00           | 359.45      | 11,650.0              | 9,367.3      | -2.6         | 9,367.3                 | 0.00                    | 0.00                   | 0.00                  |
| 20,800.0                                            | 90.00           | 359.45      | 11,650.0              | 9,467.3      | -3.6         | 9,467.3                 | 0.00                    | 0.00                   | 0.00                  |
| 20,900.0                                            | 90.00           | 359.45      | 11,650.0              | 9,567.3      | -4.5         | 9,567.3                 | 0.00                    | 0.00                   | 0.00                  |
| 21,000.0                                            | 90.00           | 359.45      | 11,650.0              | 9,667.3      | -5.5         | 9,667.3                 | 0.00                    | 0.00                   | 0.00                  |
| 21,100.0                                            | 90.00           | 359.45      | 11,650.0              | 9,767.3      | -6.5         | 9,767.3                 | 0.00                    | 0.00                   | 0.00                  |
| 21,200.0                                            | 90.00           | 359.45      | 11,650.0              | 9,867.2      | -7.4         | 9,867.3                 | 0.00                    | 0.00                   | 0.00                  |
| 21,300.0                                            | 90.00           | 359.45      | 11,650.0              | 9,967.2      | -8.4         | 9,967.2                 | 0.00                    | 0.00                   | 0.00                  |
| 21,363.8                                            | 90.00           | 359.45      | 11,650.0              | 10,031.0     | -9.0         | 10,031.0                | 0.00                    | 0.00                   | 0.00                  |
| <b>LTP - LTP (Red Bud State Com 25-36-32 #106H)</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 21,400.0                                            | 90.00           | 359.45      | 11,650.0              | 10,067.2     | -9.3         | 10,067.2                | 0.00                    | 0.00                   | 0.00                  |



## Planning Report



|                  |                                    |                                     |                                       |
|------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | EDM5000                            | <b>Local Co-ordinate Reference:</b> | Well Red Bud State Com 25-36-32 #106H |
| <b>Company:</b>  | Ameredev Operating, LLC            | <b>TVD Reference:</b>               | KB @ 3030.0usft (Rig)                 |
| <b>Project:</b>  | Lea County, NM (NAD83 NME)         | <b>MD Reference:</b>                | KB @ 3030.0usft (Rig)                 |
| <b>Site:</b>     | (Redbud State) Sec32_T-25-S_R-26-E | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Red Bud State Com 25-36-32 #106H   | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Wellbore:</b> | OWB                                |                                     |                                       |
| <b>Design:</b>   | Plan #1                            |                                     |                                       |

| Planned 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) |
| 21,493.8                                       | 90.00           | 359.45      | 11,650.0              | 10,161.0     | -10.3        | 10,161.0                | 0.00                    | 0.00                   | 0.00                  |
| PBHL - PBHL (Red Bud State Com 25-36-32 #106H) |                 |             |                       |              |              |                         |                         |                        |                       |

| Design Targets                                                                                                               |               |              |            |              |              |                 |                |            |              |
|------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------|--------------|
| Target Name                                                                                                                  | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude   | Longitude    |
| LTP (Red Bud State C<br>- hit/miss target<br>- Shape<br>- Point                                                              | 0.00          | 0.00         | 11,650.0   | 10,031.0     | -9.0         | 404,499.00      | 866,241.00     | 32.1076997 | -103.2840144 |
| FTP (Red Bud State C<br>- plan misses target center by 201.2usft at 11554.8usft MD (11499.8 TVD, 260.9 N, 53.6 E)<br>- Point | 0.00          | 0.00         | 11,650.0   | 131.0        | 86.0         | 394,599.00      | 866,336.00     | 32.0804870 | -103.2840188 |
| PBHL (Red Bud State<br>- plan misses target center by 0.3usft at 21493.8usft MD (11650.0 TVD, 10161.0 N, -10.3 E)<br>- Point | 0.00          | 0.00         | 11,650.0   | 10,161.0     | -10.0        | 404,629.00      | 866,240.00     | 32.1080570 | -103.2840136 |

| Casing Points         |                       |         |                     |                   |  |
|-----------------------|-----------------------|---------|---------------------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name    | Casing Diameter (") | Hole Diameter (") |  |
| 1,338.0               | 1,338.0               | 13.375" | 13-3/8              | 17-1/2            |  |
| 5,155.2               | 5,153.0               | 9.625"  | 9-5/8               | 12-1/4            |  |
| 11,079.2              | 11,077.0              | 7.625"  | 7-5/8               | 8-3/4             |  |
| 21,493.8              | 11,650.0              | 5.5"    | 5-1/2               | 6-3/4             |  |

| Formations            |                       |                         |           |         |                   |
|-----------------------|-----------------------|-------------------------|-----------|---------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name                    | Lithology | Dip (°) | Dip Direction (°) |
| 1,213.0               | 1,213.0               | Rustler                 |           |         |                   |
| 1,678.0               | 1,678.0               | Salado                  |           |         |                   |
| 3,363.7               | 3,362.0               | Tansill                 |           |         |                   |
| 5,105.2               | 5,103.0               | Lamar                   |           |         |                   |
| 5,156.2               | 5,154.0               | Bell Canyon             |           |         |                   |
| 6,977.2               | 6,975.0               | Brushy Canyon           |           |         |                   |
| 8,127.2               | 8,125.0               | Bone Spring Lime        |           |         |                   |
| 9,582.2               | 9,580.0               | First Bone Spring       |           |         |                   |
| 10,102.2              | 10,100.0              | Second Bone Spring      |           |         |                   |
| 10,756.2              | 10,754.0              | Third Bone Spring Upper |           |         |                   |
| 11,355.8              | 11,343.0              | Third Bone Spring       |           |         |                   |
| 11,604.9              | 11,532.0              | Wolfcamp                |           |         |                   |



## Planning Report



|                  |                                    |                                     |                                       |
|------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | EDM5000                            | <b>Local Co-ordinate Reference:</b> | Well Red Bud State Com 25-36-32 #106H |
| <b>Company:</b>  | Ameredev Operating, LLC            | <b>TVD Reference:</b>               | KB @ 3030.0usft (Rig)                 |
| <b>Project:</b>  | Lea County, NM (NAD83 NME)         | <b>MD Reference:</b>                | KB @ 3030.0usft (Rig)                 |
| <b>Site:</b>     | (Redbud State) Sec32_T-25-S_R-26-E | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Red Bud State Com 25-36-32 #106H   | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Wellbore:</b> | OWB                                |                                     |                                       |
| <b>Design:</b>   | Plan #1                            |                                     |                                       |

## Plan Annotations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                        |
|-----------------------------|-----------------------------|-------------------|-----------------|--------------------------------|
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                                |
| 2,000.0                     | 2,000.0                     | 0.0               | 0.0             | BUILD - 2.00                   |
| 2,150.0                     | 2,149.9                     | 3.4               | 2.0             | HOLD - 1502.1 at 2150.0 MD     |
| 3,652.1                     | 3,650.0                     | 71.5              | 41.3            | DROP - 2.00                    |
| 3,802.1                     | 3,799.9                     | 74.9              | 43.2            | HOLD - 7277.1 at 3802.1 MD     |
| 11,079.2                    | 11,077.0                    | 74.9              | 43.2            | KOP - Build 10.00              |
| 11,979.2                    | 11,650.0                    | 646.9             | 75.2            | EOC/TURN - DLS 2.00 TFO -90.00 |
| 12,166.8                    | 11,650.0                    | 834.4             | 79.6            | HOLD - 9197.0 at 12166.8 MD    |
| 21,363.8                    | 11,650.0                    | 10,031.0          | -9.0            | LTP                            |
| 21,493.8                    | 11,650.0                    | 10,161.0          | -10.3           | PBHL                           |



## H<sub>2</sub>S Drilling Operation Plan

**1. All Company and Contract personnel admitted on location must be trained by a qualified H<sub>2</sub>S safety instructor to the following:**

- a. Characteristics of H<sub>2</sub>S
- b. Physical effects and hazards
- c. Principal and operation of H<sub>2</sub>S 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. H<sub>2</sub>S Detection and Alarm Systems:**

- a. H<sub>2</sub>S 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<sub>2</sub>S 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/Escapes 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.



## H<sub>2</sub>S 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. **Drill Stem Testing:** - No Planned DST at this time.
- 8. **Mud program:**
  - a. If H<sub>2</sub>S 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 H<sub>2</sub>S 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 H<sub>2</sub>S service.
  - b. Drilling Contractor supervisor will be required to be familiar with the effect H<sub>2</sub>S has on tubular goods and other mechanical equipment provided through contractor.



## H<sub>2</sub>S Contingency Plan

### Emergency Procedures

In the event of a release of H<sub>2</sub>S, 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 H<sub>2</sub>S 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:
  - Detection of H<sub>2</sub>S and
  - Measures for protection against the gas,
  - 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 (SO<sub>2</sub>). 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 H<sub>2</sub>S and SO<sub>2</sub>

| Common Name      | Chemical Formula | Specific Gravity | Threshold Limit | Hazardous Limit | Lethal Concentration |
|------------------|------------------|------------------|-----------------|-----------------|----------------------|
| Hydrogen Sulfide | H <sub>2</sub> S | 1.189 Air=1      | 10 ppm          | 100 ppm/hr      | 600 ppm              |
| Sulfur Dioxide   | SO <sub>2</sub>  | 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)



## H<sub>2</sub>S Contingency Plan

| <b>Ameredev Operating LLC – Emergency Phone 737-300-4799</b> |                           |              |              |
|--------------------------------------------------------------|---------------------------|--------------|--------------|
| Key Personnel:                                               |                           |              |              |
| Name                                                         | Title                     | Office       | Mobile       |
| Floyd Hammond                                                | Chief Operating officer   | 737-300-4724 | 512-783-6810 |
| Zachary Boyd                                                 | Operations Superintendent | 737-300-4725 | 432-385-6996 |
| Blake Estrada                                                | Construction Foreman      |              | 432-385-5831 |

| <b><u>Artesia</u></b>                                            |  |  |              |
|------------------------------------------------------------------|--|--|--------------|
| 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 |
| <b><u>Carlsbad</u></b>                                           |  |  |              |
| 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 |
| <b><u>Santa Fe</u></b>                                           |  |  |              |
| 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 |
| <b><u>National</u></b>                                           |  |  |              |
| National Emergency Response Center (Washington, D.C.)            |  |  | 800-424-8802 |
| <b><u>Medical</u></b>                                            |  |  |              |
| 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, NM |  |  | 505-842-4949 |