

**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

Form C-101  
August 1, 2011

Permit 347852

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

1. Operator Name and Address AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746		2. OGRID Number 372224
		3. API Number 30-025-51889
4. Property Code 320055	5. Property Name AMEN CORNER 26 36 27 STATE COM	6. Well No. 071H

**7. Surface Location**

UL - Lot M	Section 22	Township 26S	Range 36E	Lot Idn M	Feet From 230	N/S Line S	Feet From 1100	E/W Line W	County Lea
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**8. Proposed Bottom Hole Location**

UL - Lot E	Section 34	Township 26S	Range 36E	Lot Idn 4	Feet From 51	N/S Line S	Feet From 990	E/W Line W	County Lea
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**9. Pool Information**

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

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 2910
16. Multiple N	17. Proposed Depth 17345	18. Formation 1st Bone Spring Sand	19. Contractor	20. Spud Date 11/1/2024
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1747	1374	0
Int1	12.25	10.75	45.5	5106	1392	0
Prod	8.75	5.5	17	17345	5695	0

**Casing/Cement Program: Additional Comments**

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**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	TBD

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.  Signature:	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Electronically filed by Christie Hanna	Approved By: Paul F Kautz	
Title: Regulatory	Title: Geologist	
Email Address: channa@ameredev.com	Approved Date: 8/25/2023	Expiration Date: 8/25/2025
Date: 8/21/2023	Phone: 737-300-4723	Conditions of Approval Attached

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Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-		<sup>2</sup> Pool Code 98150		<sup>3</sup> Pool Name WC-025 G-08 S263620C; LWR BONE SPRING	
<sup>4</sup> Property Code 320055		<sup>5</sup> Property Name AMEN CORNER 26 36 27 STATE COM			<sup>6</sup> Well Number 071H
<sup>7</sup> OGRID No. 372224		<sup>8</sup> Operator Name AMEREDEV OPERATING, LLC.			<sup>9</sup> Elevation 2910'

<sup>10</sup>Surface Location

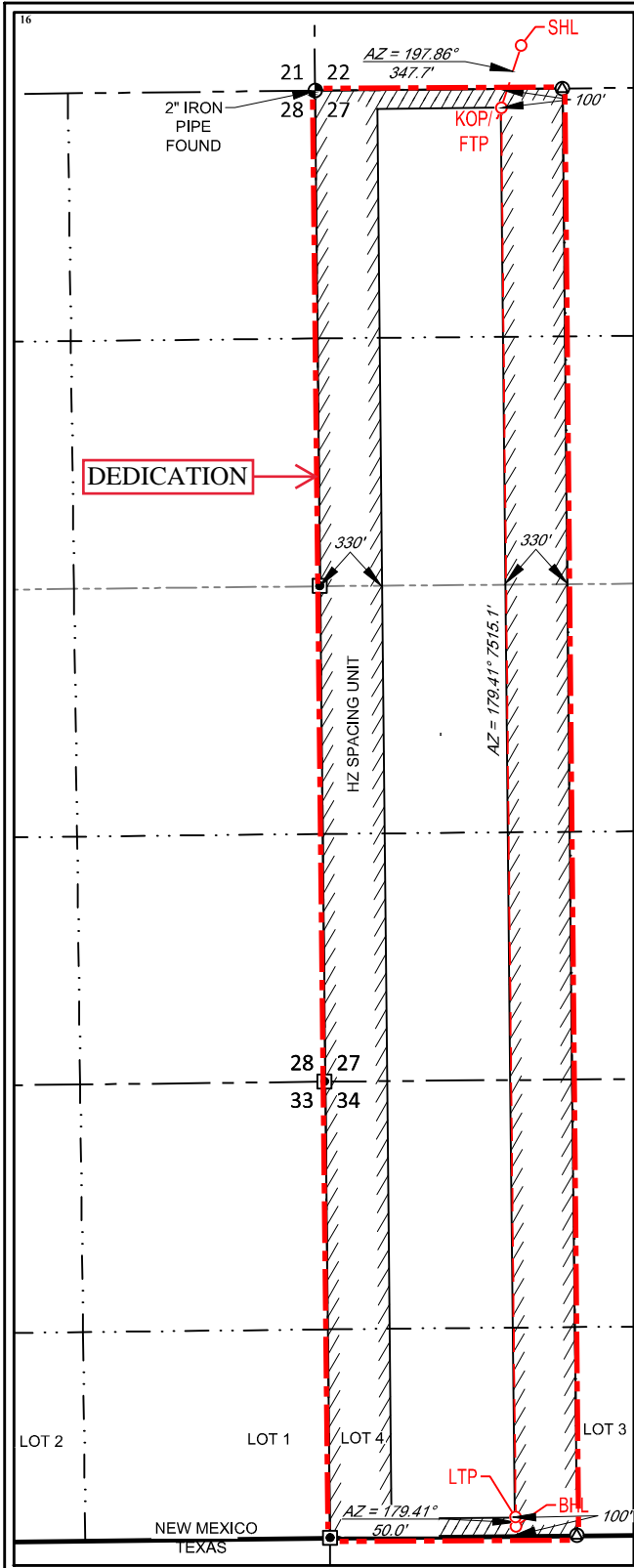
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	26-S	36-E	-	230'	SOUTH	1100'	WEST	LEA

<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
4	34	26-S	36-E	-	50'	SOUTH	990'	WEST	LEA

<sup>12</sup> Dedicated Acres 233.69	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code C	<sup>15</sup> Order No.
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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.



NEW MEXICO EAST  
NAD 1983

SURFACE LOCATION (SHL)  
230' FSL - SEC. 22  
1100' FWL - SEC. 22  
X=874609 Y=373460  
LAT.: N 32.0221626  
LONG.: W 103.2579928

KICK OFF POINT (KOP)  
FIRST TAKE POINT (FTP)  
100' FNL - SEC. 27  
990' FWL - SEC. 27  
X=874502 Y=373129  
LAT.: N 32.0212559  
LONG.: W 103.2583475

LAST TAKE POINT (LTP)  
100' FSL - SEC. 34  
990' FWL - SEC. 34  
X=874579 Y=365614  
LAT.: N 32.0005996  
LONG.: W 103.2583404

BOTTOM HOLE LOCATION (BHL)  
50' FWL - SEC. 34  
990' FWL - SEC. 34  
X=874579 Y=365564  
LAT.: N 32.0004621  
LONG.: W 103.2583404

T-26-S, R-36-E  
SECTION 34  
LOT 1 - 33.61 ACRES  
LOT 2 - 33.64 ACRES  
LOT 3 - 33.66 ACRES  
LOT 4 - 33.69 ACRES

<sup>17</sup>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 8/18/2023  
Date

Floyd Hammond  
Printed Name

ffhammond@ameredev.com  
E-mail Address

<sup>18</sup>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.

02/01/2018

Date of Survey  
Signature and Seal of Professional Surveyor

ANGEL M. BAEZA  
NEW MEXICO  
25116  
PROFESSIONAL SURVEYOR

Certificate Number

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**Santa Fe, NM 87505**

Form APD Conditions

Permit 347852

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: AMEREDEV OPERATING, LLC [372224] 2901 Via Fortuna Austin, TX 78746	API Number: 30-025-51889
	Well: AMEN CORNER 26 36 27 STATE COM #071H

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

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

## NATURAL GAS MANAGEMENT PLAN

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

### Section 1 – Plan Description

Effective May 25, 2021

**I. Operator:** \_\_\_\_\_ Ameredev II, LLC \_\_\_\_\_ **OGRID:** \_\_\_\_\_ 372224 \_\_\_\_\_ **Date:** \_\_\_\_\_ 06/21/2023 \_\_\_\_\_

**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: \_\_\_\_\_

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Amen Corner 26 36 27 State Com 061H	30025-		230' FSL & 230' FWL	680	3,412	2,610
Amen Corner 26 36 27 State Com 064H	30025-		230' FSL & 975' FEL	680	3,412	2,610
Amen Corner 26 36 27 State Com 071H	30025-		230' FSL & 1100' FWL	680	3,412	2,610
Amen Corner 26 36 27 State Com 074H	30025-		200' FNL & 250' FEL	680	3,412	2,610
Amen Corner 26 36 27 State Com 121H	30025-		230' FSL & 330' FWL	680	3,412	2,610
Amen Corner 26 36 27 State Com 127H	30025-		230' FSL & 935' FEL	680	3,412	2,610

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

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Amen Corner 26 36 27 State Com 061H	30025-	11/01/2024	12/15/2024	01/15/2025	02/01/2025	02/04/2025
Amen Corner 26 36 27 State Com 064H	30025-	11/01/2024	12/15/2024	01/15/2025	02/01/2025	02/04/2025
Amen Corner 26 36 27 State Com 071H	30025-	11/01/2024	12/15/2024	01/15/2025	02/01/2025	02/04/2025
Amen Corner 26 36 27 State Com 074H	30025-	11/01/2024	12/15/2024	01/15/2025	02/01/2025	02/04/2025
Amen Corner 26 36 27 State Com 121H	30025-	11/01/2024	12/15/2024	01/15/2025	02/01/2025	02/04/2025
Amen Corner 26 36 27 State Com 127H	30025-	11/01/2024	12/15/2024	01/15/2025	02/01/2025	02/04/2025

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

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

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

**Section 2 – Enhanced Plan****EFFECTIVE APRIL 1, 2022**

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

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

**IX. Anticipated Natural Gas Production:**

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

**X. Natural Gas Gathering System (NGGS):**

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

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

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

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

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

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

### **Section 3 - Certifications**

**Effective May 25, 2021**

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

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

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

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

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

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

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

### **Section 4 - Notices**

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

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

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

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

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

Signature: <i>Cesca Yu</i>
Printed Name: Cesca Yu
Title: Engineer
E-mail Address: cyu@ameredev.com
Date: 06/21/2023
Phone: 512-775-1417

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

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



## **Natural Gas Management Plan**

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

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

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

#### **19.15.27.8 (A)**

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

#### **19.15.27.8 (B) Venting and Flaring during drilling operations**

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

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

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

#### **19.15.27.8 (D) Venting and Flaring during production operations.**

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

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

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

#### **19.15.27.8 (E) Performance Standards**

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- Automatic gauging equipment is installed on all tanks to minimize venting
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- Flares are equipped with continuous pilots and auto-ignitors along with remote monitoring of the pilot status
- Weekly AVOs and monthly LDAR inspections will be performed on all wells and facilities that produce more than 60 Mcfd.
- Gas/H<sub>2</sub>S detectors will be installed throughout the facilities and wellheads to detect leaks and enable timely repairs.

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

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

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

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

## Amen Corner 26 36 27 State Com 061H

First Bone Spring | 1.5 Mile Lateral

County, St: Lea, NM

SHL: Section 22, T26S, R36E

230' FSL, 1100' FWL

BHL: Section 34, T26S, R36E

50' FSL, 990' FWL

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

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

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

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

Xmas Tree: 2-9/16" 10M

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

Co. Well ID:

XXXXXX

AFE #:

2023-XXX

API #:

30-025-

Permit:

NMOC

GL:

2,910'

Field:

Delaware

Rig:

H&amp;P 642

KB:

27.0'

Elevation:

2,937'

E-Mail:

drillingengineering@ameradev.com

Offsets:

General Notes	Hole Size	Casing & Cement	Geology	TVD	Mud Weight
Notify BLM prior to spud, running casing, cementing, and BOP testing Sundry to be sent before spud  1500 psi Surface Casing Test Done by Spudder Rig	17-1/2"	<u>Lead (100% OH excess)</u> 1034 sx 12.8 ppg Class C Top of Lead @ 0'  <u>Tail (100% OH excess)</u> 340 sx 14.8 ppg Class C Top of Tail @ 1447'  13.375   54.5   J-55   BTC 0 - 1747'	Conductor	122'	8.4 - 8.6 ppg FW
Stage 1 Designed to Circulate Cement to Surface  DV Tool (Int) 3883  Casing Test to 1500 psi	12-1/4"	<u>Stg 1 Lead (50% OH excess)</u> 446 sx 11 ppg Class C - Low Portland Top of Lead @ 0' <u>Stg 1 Tail (50% OH excess)</u> 177 sx 14.8 ppg Class C Top of Tail @ 4356'  <u>Stg 2 Lead (50% OH excess)</u> 663 sx 12.8 ppg Class C - Low Portland Top of Lead @ 0' <u>Stg 2 Tail (25% OH excess)</u> 106 sx 14.8 ppg Class C Top of Tail @ 3283' 10.75   45.5   HC L-80   SC BTC 0 - 5106	Rustler  Salado  Tansill Capitan  Lamar	1,759'  2,227'  3,243' 3,883'  4,992'	10 ppg Brine
FIT to 10.5 ppg EMW	8-3/4" Vertical		Bell Canyon  Brushy Canyon  Bone Spring Lime	5,184'  6,852'  7,805'	9.0 - 9.5 ppg Cut Brine
12° DLS curve section Surveys: 45° Curve, 90° Lateral  LTP VS: 7796' 90° INC, 179.45° AZM  BHL VS: 7846' 90° INC, 179.45° AZM	8-3/4" Curve        8-1/2" Lateral	<u>Lead (50% OH excess)</u> 1554 sx 10.6 ppg ProLite Top of Lead @ 0'  <u>Tail (20% OH excess)</u> 4141 sx 14.5 ppg Class H - Premium PozMix Top of Tail @ 7345'  5.5   117   USS RYS P-110   Eagle SFH 0 - 17345  5-1/2" marker jts @ ~8880', 12350' MD  17345' MD 9,500' TVD @ BHL 7,846' VS			9.0 - 9.5 ppg Cut Brine



## **Ameredev Operating**

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

**AMEN CORNER ST COM PROJECT**

**AMEN CORNER 26 36 27 ST COM #071H**

**OWB**

**Plan: PWP**

## **Standard Planning Report - Geographic**

**13 June, 2023**



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well AMEN CORNER ST COM 26 36 27 #71H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=25' @ 2935.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=25' @ 2935.0usft
<b>Site:</b>	AMEN CORNER ST COM PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	AMEN CORNER ST COM 26 36 27 #71H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PWP		

<b>Project</b>	Lea County, NM (N83-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						AMEN CORNER ST COM PROJECT											
Site Position:						Northing:			373,452.33 usft			Latitude:			32.0221652		
From:			Lat/Long			Easting:			873,738.68 usft			Longitude:			-103.2607997		
Position Uncertainty:			0.0 usft			Slot Radius:			13-3/16 "								

Well	AMEN CORNER ST COM 26 36 27 #71H					
Well Position	+N/-S	0.0 usft	Northing:	373,460.03 usft	Latitude:	32.0221626
	+E/-W	0.0 usft	Easting:	874,608.66 usft	Longitude:	-103.2579928
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	2,910.0 usft
Grid Convergence:		0.57 °				

<b>Wellbore</b>	OWB
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/13/2023	6.15	59.69	47,201.04724242

<b>Design</b>	PWP
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Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.40

<b>Plan Survey Tool Program</b>	<b>Date</b>	6/13/2023			
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.0	17,344.6 PWP (OWB)	MWD		
			OWSG MWD - Standard		



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well AMEN CORNER ST COM 26 36 27 #71H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=25' @ 2935.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=25' @ 2935.0usft
<b>Site:</b>	AMEN CORNER ST COM PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	AMEN CORNER ST COM 26 36 27 #71H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PWP		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,250.0	5.00	324.02	1,249.7	8.8	-6.4	2.00	2.00	0.00	324.02	
3,069.9	5.00	324.02	3,062.7	137.2	-99.6	0.00	0.00	0.00	0.00	
3,319.9	0.00	0.00	3,312.4	146.0	-106.0	2.00	-2.00	0.00	180.00	
9,030.1	0.00	0.00	9,022.5	146.0	-106.0	0.00	0.00	0.00	0.00	
9,780.1	90.00	179.45	9,500.0	-331.4	-101.4	12.00	12.00	23.93	179.45	
17,344.6	90.00	179.45	9,500.0	-7,895.6	-29.2	0.00	0.00	0.00	0.00	BHL (ACSC #71H)



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well AMEN CORNER ST COM 26 36 27 #71H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=25' @ 2935.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=25' @ 2935.0usft
<b>Site:</b>	AMEN CORNER ST COM PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	AMEN CORNER ST COM 26 36 27 #71H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PWP		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	373,460.03	874,608.66	32.0221626	-103.2579928	
100.0	0.00	0.00	100.0	0.0	0.0	373,460.03	874,608.66	32.0221626	-103.2579928	
200.0	0.00	0.00	200.0	0.0	0.0	373,460.03	874,608.66	32.0221626	-103.2579928	
300.0	0.00	0.00	300.0	0.0	0.0	373,460.03	874,608.66	32.0221626	-103.2579928	
400.0	0.00	0.00	400.0	0.0	0.0	373,460.03	874,608.66	32.0221626	-103.2579928	
500.0	0.00	0.00	500.0	0.0	0.0	373,460.03	874,608.66	32.0221626	-103.2579928	
600.0	0.00	0.00	600.0	0.0	0.0	373,460.03	874,608.66	32.0221626	-103.2579928	
700.0	0.00	0.00	700.0	0.0	0.0	373,460.03	874,608.66	32.0221626	-103.2579928	
800.0	0.00	0.00	800.0	0.0	0.0	373,460.03	874,608.66	32.0221626	-103.2579928	
900.0	0.00	0.00	900.0	0.0	0.0	373,460.03	874,608.66	32.0221626	-103.2579928	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	373,460.03	874,608.66	32.0221626	-103.2579928	
Start Build 2.00										
1,100.0	2.00	324.02	1,100.0	1.4	-1.0	373,461.45	874,607.63	32.0221665	-103.2579961	
1,200.0	4.00	324.02	1,199.8	5.6	-4.1	373,465.68	874,604.56	32.0221783	-103.2580058	
1,250.0	5.00	324.02	1,249.7	8.8	-6.4	373,468.86	874,602.25	32.0221870	-103.2580132	
Start 1819.9 hold at 1250.0 MD										
1,300.0	5.00	324.02	1,299.5	12.3	-9.0	373,472.38	874,599.69	32.0221968	-103.2580213	
1,400.0	5.00	324.02	1,399.1	19.4	-14.1	373,479.44	874,594.57	32.0222163	-103.2580376	
1,500.0	5.00	324.02	1,498.7	26.5	-19.2	373,486.49	874,589.45	32.0222359	-103.2580539	
1,600.0	5.00	324.02	1,598.4	33.5	-24.3	373,493.54	874,584.33	32.0222554	-103.2580702	
1,700.0	5.00	324.02	1,698.0	40.6	-29.4	373,500.59	874,579.21	32.0222749	-103.2580865	
1,761.3	5.00	324.02	1,759.0	44.9	-32.6	373,504.91	874,576.07	32.0222869	-103.2580965	
Rustler										
1,800.0	5.00	324.02	1,797.6	47.6	-34.6	373,507.65	874,574.09	32.0222944	-103.2581028	
1,900.0	5.00	324.02	1,897.2	54.7	-39.7	373,514.70	874,568.97	32.0223140	-103.2581191	
2,000.0	5.00	324.02	1,996.8	61.7	-44.8	373,521.75	874,563.85	32.0223335	-103.2581354	
2,100.0	5.00	324.02	2,096.4	68.8	-49.9	373,528.80	874,558.73	32.0223530	-103.2581517	
2,200.0	5.00	324.02	2,196.1	75.8	-55.0	373,535.86	874,553.61	32.0223725	-103.2581680	
2,231.1	5.00	324.02	2,227.0	78.0	-56.6	373,538.05	874,552.02	32.0223786	-103.2581730	
Salado										
2,300.0	5.00	324.02	2,295.7	82.9	-60.2	373,542.91	874,548.49	32.0223921	-103.2581842	
2,400.0	5.00	324.02	2,395.3	89.9	-65.3	373,549.96	874,543.37	32.0224116	-103.2582005	
2,500.0	5.00	324.02	2,494.9	97.0	-70.4	373,557.02	874,538.24	32.0224311	-103.2582168	
2,600.0	5.00	324.02	2,594.5	104.0	-75.5	373,564.07	874,533.12	32.0224506	-103.2582331	
2,700.0	5.00	324.02	2,694.2	111.1	-80.7	373,571.12	874,528.00	32.0224702	-103.2582494	
2,800.0	5.00	324.02	2,793.8	118.1	-85.8	373,578.17	874,522.88	32.0224897	-103.2582657	
2,900.0	5.00	324.02	2,893.4	125.2	-90.9	373,585.23	874,517.76	32.0225092	-103.2582820	
2,941.8	5.00	324.02	2,935.0	128.1	-93.0	373,588.17	874,515.62	32.0225174	-103.2582888	
Dewey Lake										
3,000.0	5.00	324.02	2,993.0	132.2	-96.0	373,592.28	874,512.64	32.0225287	-103.2582983	
3,069.9	5.00	324.02	3,062.7	137.2	-99.6	373,597.21	874,509.06	32.0225424	-103.2583097	
Start Drop -2.00										
3,100.0	4.40	324.02	3,092.7	139.2	-101.0	373,599.21	874,507.61	32.0225479	-103.2583143	
3,200.0	2.40	324.02	3,192.5	144.0	-104.5	373,604.00	874,504.13	32.0225612	-103.2583254	
3,250.6	1.39	324.02	3,243.0	145.3	-105.5	373,605.35	874,503.15	32.0225649	-103.2583285	
Tansill										
3,300.0	0.40	324.02	3,292.4	145.9	-106.0	373,605.98	874,502.70	32.0225667	-103.2583299	
3,319.9	0.00	0.00	3,312.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301	
Start 5710.1 hold at 3319.9 MD										
3,400.0	0.00	0.00	3,392.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301	
3,500.0	0.00	0.00	3,492.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301	
3,600.0	0.00	0.00	3,592.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301	
3,700.0	0.00	0.00	3,692.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301	



## Planning Report - Geographic

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<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=25' @ 2935.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=25' @ 2935.0usft
<b>Site:</b>	AMEN CORNER ST COM PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	AMEN CORNER ST COM 26 36 27 #71H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PWP		

## Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,800.0	0.00	0.00	3,792.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
3,890.6	0.00	0.00	3,883.0	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
<b>Capitan</b>									
3,900.0	0.00	0.00	3,892.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
4,000.0	0.00	0.00	3,992.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
4,100.0	0.00	0.00	4,092.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
4,200.0	0.00	0.00	4,192.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
4,300.0	0.00	0.00	4,292.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
4,400.0	0.00	0.00	4,392.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
4,500.0	0.00	0.00	4,492.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
4,600.0	0.00	0.00	4,592.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
4,700.0	0.00	0.00	4,692.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
4,800.0	0.00	0.00	4,792.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
4,900.0	0.00	0.00	4,892.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
4,999.6	0.00	0.00	4,992.0	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
<b>Lamar</b>									
5,000.0	0.00	0.00	4,992.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
5,100.0	0.00	0.00	5,092.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
5,191.6	0.00	0.00	5,184.0	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
<b>Bell Canyon</b>									
5,200.0	0.00	0.00	5,192.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
5,300.0	0.00	0.00	5,292.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
5,400.0	0.00	0.00	5,392.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
5,500.0	0.00	0.00	5,492.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
5,600.0	0.00	0.00	5,592.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
5,700.0	0.00	0.00	5,692.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
5,800.0	0.00	0.00	5,792.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
5,900.0	0.00	0.00	5,892.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
6,000.0	0.00	0.00	5,992.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
6,100.0	0.00	0.00	6,092.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
6,200.0	0.00	0.00	6,192.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
6,300.0	0.00	0.00	6,292.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
6,400.0	0.00	0.00	6,392.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
6,500.0	0.00	0.00	6,492.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
6,600.0	0.00	0.00	6,592.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
6,700.0	0.00	0.00	6,692.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
6,800.0	0.00	0.00	6,792.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
6,859.6	0.00	0.00	6,852.0	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
<b>Brushy Canyon</b>									
6,900.0	0.00	0.00	6,892.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
7,000.0	0.00	0.00	6,992.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
7,100.0	0.00	0.00	7,092.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
7,200.0	0.00	0.00	7,192.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
7,300.0	0.00	0.00	7,292.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
7,400.0	0.00	0.00	7,392.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
7,500.0	0.00	0.00	7,492.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
7,600.0	0.00	0.00	7,592.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
7,700.0	0.00	0.00	7,692.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
7,800.0	0.00	0.00	7,792.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
7,812.6	0.00	0.00	7,805.0	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
<b>Bone Spring Lime</b>									
7,900.0	0.00	0.00	7,892.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
8,000.0	0.00	0.00	7,992.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301





## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well AMEN CORNER ST COM 26 36 27 #71H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=25' @ 2935.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=25' @ 2935.0usft
<b>Site:</b>	AMEN CORNER ST COM PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	AMEN CORNER ST COM 26 36 27 #71H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PWP		

## Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,100.0	0.00	0.00	8,092.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
8,200.0	0.00	0.00	8,192.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
8,300.0	0.00	0.00	8,292.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
8,400.0	0.00	0.00	8,392.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
8,500.0	0.00	0.00	8,492.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
8,600.0	0.00	0.00	8,592.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
8,700.0	0.00	0.00	8,692.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
8,800.0	0.00	0.00	8,792.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
8,900.0	0.00	0.00	8,892.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
9,000.0	0.00	0.00	8,992.4	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
9,030.1	0.00	0.00	9,022.5	146.0	-106.0	373,606.03	874,502.66	32.0225668	-103.2583301
<b>KOP-Start DLS 12.00 TFO 179.45</b>									
9,050.0	2.39	179.45	9,042.4	145.6	-106.0	373,605.62	874,502.66	32.0225657	-103.2583301
9,075.0	5.39	179.45	9,067.4	143.9	-106.0	373,603.92	874,502.68	32.0225610	-103.2583301
9,100.0	8.39	179.45	9,092.2	140.9	-106.0	373,600.92	874,502.70	32.0225528	-103.2583301
9,125.0	11.39	179.45	9,116.8	136.6	-105.9	373,596.63	874,502.75	32.0225409	-103.2583301
9,150.0	14.39	179.45	9,141.2	131.0	-105.9	373,591.05	874,502.80	32.0225256	-103.2583301
9,175.0	17.39	179.45	9,165.2	124.2	-105.8	373,584.20	874,502.86	32.0225068	-103.2583301
9,200.0	20.39	179.45	9,188.9	116.1	-105.7	373,576.11	874,502.94	32.0224846	-103.2583301
9,225.0	23.39	179.45	9,212.1	106.8	-105.6	373,566.79	874,503.03	32.0224589	-103.2583301
9,250.0	26.39	179.45	9,234.7	96.2	-105.5	373,556.27	874,503.13	32.0224300	-103.2583301
9,275.0	29.39	179.45	9,256.8	84.5	-105.4	373,544.58	874,503.24	32.0223979	-103.2583302
9,300.0	32.39	179.45	9,278.3	71.7	-105.3	373,531.74	874,503.37	32.0223626	-103.2583302
9,325.0	35.39	179.45	9,299.0	57.8	-105.2	373,517.80	874,503.50	32.0223243	-103.2583302
9,350.0	38.39	179.45	9,319.0	42.8	-105.0	373,502.80	874,503.64	32.0222830	-103.2583302
9,375.0	41.39	179.45	9,338.2	26.7	-104.9	373,486.77	874,503.79	32.0222390	-103.2583302
9,400.0	44.39	179.45	9,356.5	9.7	-104.7	373,469.75	874,503.96	32.0221922	-103.2583303
9,425.0	47.39	179.45	9,373.9	-8.2	-104.5	373,451.81	874,504.13	32.0221429	-103.2583303
9,450.0	50.39	179.45	9,390.4	-27.1	-104.3	373,432.97	874,504.31	32.0220911	-103.2583303
9,475.0	53.39	179.45	9,405.8	-46.7	-104.2	373,413.30	874,504.50	32.0220370	-103.2583303
9,500.0	56.39	179.45	9,420.2	-67.2	-104.0	373,392.85	874,504.69	32.0219808	-103.2583304
9,525.0	59.39	179.45	9,433.4	-88.4	-103.8	373,371.68	874,504.89	32.0219226	-103.2583304
9,550.0	62.39	179.45	9,445.6	-110.2	-103.6	373,349.84	874,505.10	32.0218626	-103.2583304
9,575.0	65.39	179.45	9,456.6	-132.6	-103.3	373,327.40	874,505.32	32.0218009	-103.2583304
9,600.0	68.39	179.45	9,466.4	-155.6	-103.1	373,304.41	874,505.54	32.0217377	-103.2583305
9,621.9	71.02	179.45	9,474.0	-176.1	-102.9	373,283.89	874,505.73	32.0216813	-103.2583305
<b>First Bone Spring</b>									
9,625.0	71.39	179.45	9,475.0	-179.1	-102.9	373,280.93	874,505.76	32.0216732	-103.2583305
9,650.0	74.39	179.45	9,482.4	-203.0	-102.7	373,257.04	874,505.99	32.0216075	-103.2583305
9,675.0	77.39	179.45	9,488.5	-227.2	-102.4	373,232.80	874,506.22	32.0215409	-103.2583306
9,700.0	80.39	179.45	9,493.3	-251.8	-102.2	373,208.27	874,506.45	32.0214735	-103.2583306
9,725.0	83.39	179.45	9,496.8	-276.5	-102.0	373,183.53	874,506.69	32.0214054	-103.2583306
9,750.0	86.39	179.45	9,499.0	-301.4	-101.7	373,158.63	874,506.93	32.0213370	-103.2583307
9,775.0	89.39	179.45	9,499.9	-326.4	-101.5	373,133.65	874,507.17	32.0212683	-103.2583307
9,780.1	90.00	179.45	9,500.0	-331.4	-101.4	373,128.59	874,507.21	32.0212544	-103.2583307
<b>LP-Start 7564.6 hold at 9780.1 MD</b>									
9,800.0	90.00	179.45	9,500.0	-351.4	-101.3	373,108.65	874,507.41	32.0211996	-103.2583307
9,900.0	90.00	179.45	9,500.0	-451.4	-100.3	373,008.66	874,508.36	32.0209248	-103.2583308
10,000.0	90.00	179.45	9,500.0	-551.4	-99.3	372,908.66	874,509.32	32.0206499	-103.2583310
10,100.0	90.00	179.45	9,500.0	-651.4	-98.4	372,808.67	874,510.27	32.0203750	-103.2583311
10,200.0	90.00	179.45	9,500.0	-751.4	-97.4	372,708.67	874,511.22	32.0201002	-103.2583312
10,300.0	90.00	179.45	9,500.0	-851.4	-96.5	372,608.67	874,512.18	32.0198253	-103.2583314
10,400.0	90.00	179.45	9,500.0	-951.4	-95.5	372,508.68	874,513.13	32.0195504	-103.2583315



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well AMEN CORNER ST COM 26 36 27 #71H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=25' @ 2935.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=25' @ 2935.0usft
<b>Site:</b>	AMEN CORNER ST COM PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	AMEN CORNER ST COM 26 36 27 #71H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PWP		

## Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,500.0	90.00	179.45	9,500.0	-1,051.4	-94.6	372,408.68	874,514.09	32.0192756	-103.2583316
10,600.0	90.00	179.45	9,500.0	-1,151.3	-93.6	372,308.69	874,515.04	32.0190007	-103.2583318
10,700.0	90.00	179.45	9,500.0	-1,251.3	-92.7	372,208.69	874,516.00	32.0187258	-103.2583319
10,800.0	90.00	179.45	9,500.0	-1,351.3	-91.7	372,108.70	874,516.95	32.0184510	-103.2583320
10,900.0	90.00	179.45	9,500.0	-1,451.3	-90.7	372,008.70	874,517.91	32.0181761	-103.2583321
11,000.0	90.00	179.45	9,500.0	-1,551.3	-89.8	371,908.71	874,518.86	32.0179012	-103.2583323
11,100.0	90.00	179.45	9,500.0	-1,651.3	-88.8	371,808.71	874,519.82	32.0176264	-103.2583324
11,200.0	90.00	179.45	9,500.0	-1,751.3	-87.9	371,708.72	874,520.77	32.0173515	-103.2583325
11,300.0	90.00	179.45	9,500.0	-1,851.3	-86.9	371,608.72	874,521.73	32.0170766	-103.2583327
11,400.0	90.00	179.45	9,500.0	-1,951.3	-86.0	371,508.73	874,522.68	32.0168018	-103.2583328
11,500.0	90.00	179.45	9,500.0	-2,051.3	-85.0	371,408.73	874,523.64	32.0165269	-103.2583329
11,600.0	90.00	179.45	9,500.0	-2,151.3	-84.1	371,308.73	874,524.59	32.0162521	-103.2583330
11,700.0	90.00	179.45	9,500.0	-2,251.3	-83.1	371,208.74	874,525.55	32.0159772	-103.2583332
11,800.0	90.00	179.45	9,500.0	-2,351.3	-82.2	371,108.74	874,526.50	32.0157023	-103.2583333
11,900.0	90.00	179.45	9,500.0	-2,451.3	-81.2	371,008.75	874,527.46	32.0154275	-103.2583334
12,000.0	90.00	179.45	9,500.0	-2,551.3	-80.2	370,908.75	874,528.41	32.0151526	-103.2583336
12,100.0	90.00	179.45	9,500.0	-2,651.3	-79.3	370,808.76	874,529.37	32.0148777	-103.2583337
12,200.0	90.00	179.45	9,500.0	-2,751.3	-78.3	370,708.76	874,530.32	32.0146029	-103.2583338
12,300.0	90.00	179.45	9,500.0	-2,851.3	-77.4	370,608.77	874,531.28	32.0143280	-103.2583339
12,400.0	90.00	179.45	9,500.0	-2,951.3	-76.4	370,508.77	874,532.23	32.0140531	-103.2583341
12,500.0	90.00	179.45	9,500.0	-3,051.3	-75.5	370,408.78	874,533.19	32.0137783	-103.2583342
12,600.0	90.00	179.45	9,500.0	-3,151.3	-74.5	370,308.78	874,534.14	32.0135034	-103.2583343
12,700.0	90.00	179.45	9,500.0	-3,251.3	-73.6	370,208.78	874,535.10	32.0132285	-103.2583345
12,800.0	90.00	179.45	9,500.0	-3,351.2	-72.6	370,108.79	874,536.05	32.0129537	-103.2583346
12,900.0	90.00	179.45	9,500.0	-3,451.2	-71.6	370,008.79	874,537.01	32.0126788	-103.2583347
13,000.0	90.00	179.45	9,500.0	-3,551.2	-70.7	369,908.80	874,537.96	32.0124039	-103.2583348
13,100.0	90.00	179.45	9,500.0	-3,651.2	-69.7	369,808.80	874,538.92	32.0121291	-103.2583350
13,200.0	90.00	179.45	9,500.0	-3,751.2	-68.8	369,708.81	874,539.87	32.0118542	-103.2583351
13,300.0	90.00	179.45	9,500.0	-3,851.2	-67.8	369,608.81	874,540.83	32.0115794	-103.2583352
13,400.0	90.00	179.45	9,500.0	-3,951.2	-66.9	369,508.82	874,541.78	32.0113045	-103.2583354
13,500.0	90.00	179.45	9,500.0	-4,051.2	-65.9	369,408.82	874,542.74	32.0110296	-103.2583355
13,600.0	90.00	179.45	9,500.0	-4,151.2	-65.0	369,308.83	874,543.69	32.0107548	-103.2583356
13,700.0	90.00	179.45	9,500.0	-4,251.2	-64.0	369,208.83	874,544.65	32.0104799	-103.2583357
13,800.0	90.00	179.45	9,500.0	-4,351.2	-63.1	369,108.83	874,545.60	32.0102050	-103.2583359
13,900.0	90.00	179.45	9,500.0	-4,451.2	-62.1	369,008.84	874,546.56	32.0099302	-103.2583360
14,000.0	90.00	179.45	9,500.0	-4,551.2	-61.1	368,908.84	874,547.51	32.0096553	-103.2583361
14,100.0	90.00	179.45	9,500.0	-4,651.2	-60.2	368,808.85	874,548.46	32.0093804	-103.2583363
14,200.0	90.00	179.45	9,500.0	-4,751.2	-59.2	368,708.85	874,549.42	32.0091056	-103.2583364
14,300.0	90.00	179.45	9,500.0	-4,851.2	-58.3	368,608.86	874,550.37	32.0088307	-103.2583365
14,400.0	90.00	179.45	9,500.0	-4,951.2	-57.3	368,508.86	874,551.33	32.0085558	-103.2583366
14,500.0	90.00	179.45	9,500.0	-5,051.2	-56.4	368,408.87	874,552.28	32.0082810	-103.2583368
14,600.0	90.00	179.45	9,500.0	-5,151.2	-55.4	368,308.87	874,553.24	32.0080061	-103.2583369
14,700.0	90.00	179.45	9,500.0	-5,251.2	-54.5	368,208.88	874,554.19	32.0077312	-103.2583370
14,800.0	90.00	179.45	9,500.0	-5,351.2	-53.5	368,108.88	874,555.15	32.0074564	-103.2583371
14,900.0	90.00	179.45	9,500.0	-5,451.1	-52.6	368,008.88	874,556.10	32.0071815	-103.2583373
15,000.0	90.00	179.45	9,500.0	-5,551.1	-51.6	367,908.89	874,557.06	32.0069066	-103.2583374
15,100.0	90.00	179.45	9,500.0	-5,651.1	-50.6	367,808.89	874,558.01	32.0066318	-103.2583375
15,200.0	90.00	179.45	9,500.0	-5,751.1	-49.7	367,708.90	874,558.97	32.0063569	-103.2583377
15,300.0	90.00	179.45	9,500.0	-5,851.1	-48.7	367,608.90	874,559.92	32.0060821	-103.2583378
15,400.0	90.00	179.45	9,500.0	-5,951.1	-47.8	367,508.91	874,560.88	32.0058072	-103.2583379
15,500.0	90.00	179.45	9,500.0	-6,051.1	-46.8	367,408.91	874,561.83	32.0055323	-103.2583380
15,600.0	90.00	179.45	9,500.0	-6,151.1	-45.9	367,308.92	874,562.79	32.0052575	-103.2583382
15,700.0	90.00	179.45	9,500.0	-6,251.1	-44.9	367,208.92	874,563.74	32.0049826	-103.2583383
15,800.0	90.00	179.45	9,500.0	-6,351.1	-44.0	367,108.93	874,564.70	32.0047077	-103.2583384



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well AMEN CORNER ST COM 26 36 27 #71H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=25' @ 2935.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=25' @ 2935.0usft
<b>Site:</b>	AMEN CORNER ST COM PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	AMEN CORNER ST COM 26 36 27 #71H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PWP		

## Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,900.0	90.00	179.45	9,500.0	-6,451.1	-43.0	367,008.93	874,565.65	32.0044329	-103.2583386
16,000.0	90.00	179.45	9,500.0	-6,551.1	-42.0	366,908.93	874,566.61	32.0041580	-103.2583387
16,100.0	90.00	179.45	9,500.0	-6,651.1	-41.1	366,808.94	874,567.56	32.0038831	-103.2583388
16,200.0	90.00	179.45	9,500.0	-6,751.1	-40.1	366,708.94	874,568.52	32.0036083	-103.2583389
16,300.0	90.00	179.45	9,500.0	-6,851.1	-39.2	366,608.95	874,569.47	32.0033334	-103.2583391
16,400.0	90.00	179.45	9,500.0	-6,951.1	-38.2	366,508.95	874,570.43	32.0030585	-103.2583392
16,500.0	90.00	179.45	9,500.0	-7,051.1	-37.3	366,408.96	874,571.38	32.0027837	-103.2583393
16,600.0	90.00	179.45	9,500.0	-7,151.1	-36.3	366,308.96	874,572.34	32.0025088	-103.2583394
16,700.0	90.00	179.45	9,500.0	-7,251.1	-35.4	366,208.97	874,573.29	32.0022339	-103.2583396
16,800.0	90.00	179.45	9,500.0	-7,351.1	-34.4	366,108.97	874,574.25	32.0019591	-103.2583397
16,900.0	90.00	179.45	9,500.0	-7,451.1	-33.5	366,008.98	874,575.20	32.0016842	-103.2583398
17,000.0	90.00	179.45	9,500.0	-7,551.1	-32.5	365,908.98	874,576.16	32.0014093	-103.2583400
17,100.0	90.00	179.45	9,500.0	-7,651.0	-31.5	365,808.98	874,577.11	32.0011345	-103.2583401
17,200.0	90.00	179.45	9,500.0	-7,751.0	-30.6	365,708.99	874,578.07	32.0008596	-103.2583402
17,300.0	90.00	179.45	9,500.0	-7,851.0	-29.6	365,608.99	874,579.02	32.0005847	-103.2583403
17,344.6	90.00	179.45	9,500.0	-7,895.6	-29.2	365,564.39	874,579.45	32.0004621	-103.2583404
TD at 17344.6									

## Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (ACSC #71H) - plan hits target center - Point	0.00	0.00	9,500.0	-7,845.6	-29.7	365,614.41	874,578.95	32.0005996	-103.2583404
BHL (ACSC #71H) - plan hits target center - Point	0.00	0.00	9,500.0	-7,895.6	-29.2	365,564.39	874,579.45	32.0004621	-103.2583404
FTP (ACSC #71H) - plan misses target center by 5.2usft at 9779.5usft MD (9500.0 TVD, -330.9 N, -101.4 E) - Point	0.00	0.00	9,500.0	-330.9	-106.7	373,129.09	874,502.00	32.0212559	-103.2583475

## Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,761.3	1,759.0	Rustler			
2,231.1	2,227.0	Salado			
2,941.8	2,935.0	Dewey Lake			
3,250.6	3,243.0	Tansill			
3,890.6	3,883.0	Capitan			
4,999.6	4,992.0	Lamar			
5,191.6	5,184.0	Bell Canyon			
6,859.6	6,852.0	Brushy Canyon			
7,812.6	7,805.0	Bone Spring Lime			
9,621.9	9,474.0	First Bone Spring			



## Planning Report - Geographic

<b>Database:</b>	AUS-COMPASS - EDM_15 - 32bit	<b>Local Co-ordinate Reference:</b>	Well AMEN CORNER ST COM 26 36 27 #71H
<b>Company:</b>	Ameredev Operating	<b>TVD Reference:</b>	KB=25' @ 2935.0usft
<b>Project:</b>	Lea County, NM (N83-NME)	<b>MD Reference:</b>	KB=25' @ 2935.0usft
<b>Site:</b>	AMEN CORNER ST COM PROJECT	<b>North Reference:</b>	Grid
<b>Well:</b>	AMEN CORNER ST COM 26 36 27 #71H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PWP		

## Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,000.0	1,000.0	0.0	0.0	Start Build 2.00
1,250.0	1,249.7	8.8	-6.4	Start 1819.9 hold at 1250.0 MD
3,069.9	3,062.7	137.2	-99.6	Start Drop -2.00
3,319.9	3,312.4	146.0	-106.0	Start 5710.1 hold at 3319.9 MD
9,030.1	9,022.5	146.0	-106.0	KOP-Start DLS 12.00 TFO 179.45
9,780.1	9,500.0	-331.4	-101.4	LP-Start 7564.6 hold at 9780.1 MD
17,344.6	9,500.0	-7,895.6	-29.2	TD at 17344.6