

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 352609

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 AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746		2. OGRID Number 372224
		3. API Number 30-025-52128
4. Property Code 320055	5. Property Name AMEN CORNER 26 36 27 STATE COM	6. Well No. 127H

7. Surface Location

UL - Lot P	Section 22	Township 26S	Range 36E	Lot Idn P	Feet From 230	N/S Line S	Feet From 935	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot H	Section 34	Township 26S	Range 36E	Lot Idn 1	Feet From 50	N/S Line S	Feet From 990	E/W Line E	County Lea
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9. Pool Information

WC-025 G-09 S263619C;WOLFCAMP	98234
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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 19771	18. Formation Wolfcamp	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	68	2095	1700	0
Int1	9.875	7.625	29.7	10707	3194	0
Prod	6.75	5.5	23	19771	1539	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 ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

Signature:

Printed Name: Electronically filed by Christie Hanna

Title: Regulatory

Email Address: channa@ameredev.com

Date: 10/17/2023

Phone: 737-300-4723

OIL CONSERVATION DIVISION

Approved By: Paul F Kautz

Title: Geologist

Approved Date: 10/19/2023 Expiration Date: 10/19/2025

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

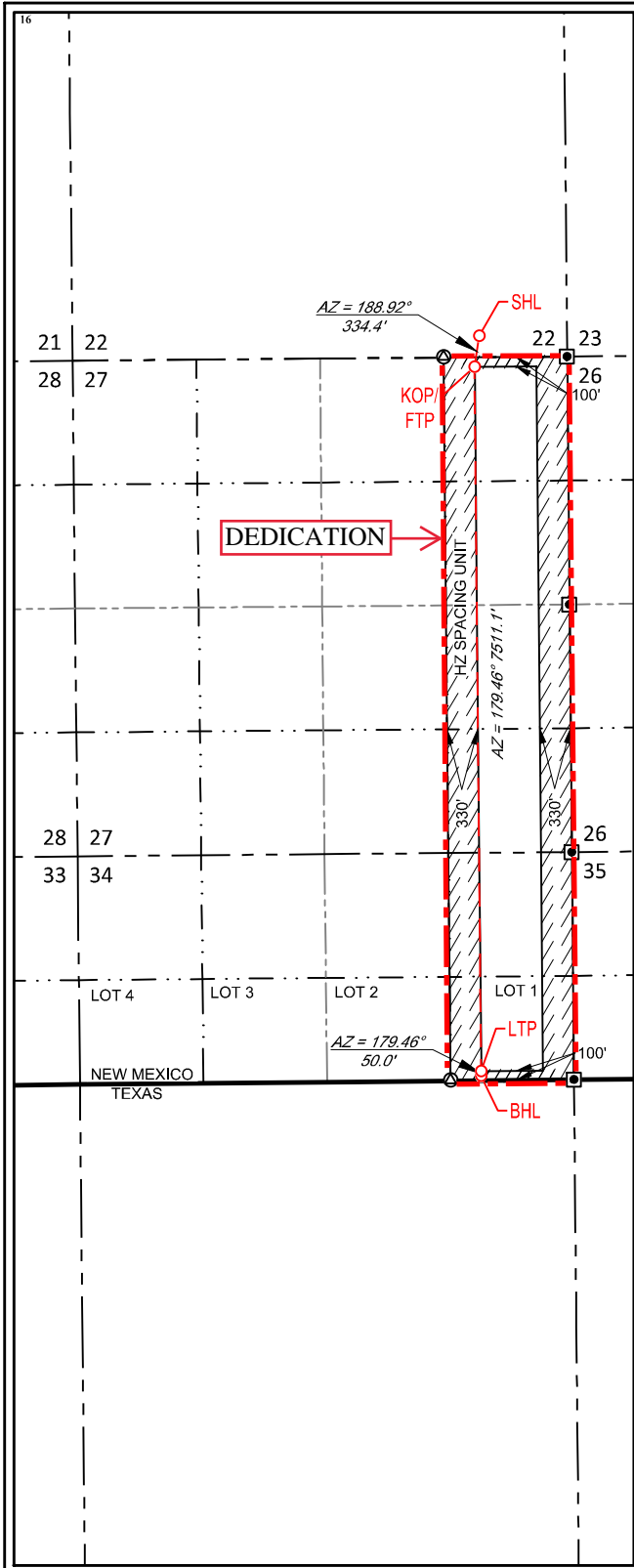
¹ API Number 30-025-	² Pool Code 98234	³ Pool Name WC-025 G-09 S263619C; WOLFCAMP
⁴ Property Code 320055	⁵ Property Name AMEN CORNER 26 36 27 STATE COM	
⁷ OGRID No. 372224	⁸ Operator Name AMEREDEV OPERATING, LLC.	⁶ Well Number 127H ⁹ Elevation 2910'

¹⁰ Surface Location									
UL or lot no. P	Section 22	Township 26-S	Range 36-E	Lot Idn -	Feet from the 230'	North/South line SOUTH	Feet from the 935'	East/West line EAST	County LEA

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. 1	Section 34	Township 26-S	Range 36-E	Lot Idn -	Feet from the 50'	North/South line SOUTH	Feet from the 990'	East/West line EAST	County LEA

¹² Dedicated Acres 233.61	¹³ Joint or Infill	¹⁴ Consolidation Code C	¹⁵ 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
<u>SURFACE LOCATION (SHL)</u> 230' FSL - SEC. 22 935' FEL - SEC. 22 X=877844 Y=373487 LAT.: N 32.0221473 LONG.: W 103.2475532
<u>KICK OFF POINT (KOP) FIRST TAKE POINT (FTP)</u> 100' FNL - SEC. 27 990' FEL - SEC. 27 X=877792 Y=373156 LAT.: N 32.0212407 LONG.: W 103.2477312
<u>LAST TAKE POINT (LTP)</u> 100' FSL - SEC. 34 990' FEL - SEC. 34 X=877863 Y=365646 LAT.: N 32.0005953 LONG.: W 103.2477463
<u>BOTTOM HOLE LOCATION (BHL)</u> 50' FSL - SEC. 34 990' FEL - SEC. 34 X=877864 Y=365596 LAT.: N 32.0004579 LONG.: W 103.2477464
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

¹⁷ OPERATOR CERTIFICATION <i>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.</i>
<div><div></div><div>Signature</div></div> <div><div>10/17/2023</div><div>Date</div></div>
<div>Floyd Hammond</div> <div>Printed Name</div>
<div>hammond@ameredev.com</div> <div>E-mail Address</div>
¹⁸ SURVEYOR CERTIFICATION <i>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.</i>
<div>06/03/2023</div> <div>Date of Survey</div>
<div></div> <div>Signature and Seal of Professional Surveyor</div>
<div></div> <div>Certificate Number</div>

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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 Conditions

Permit 352609

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: AMEREDEV OPERATING, LLC [372224] 2901 Via Fortuna Austin, TX 78746	API Number: 30-025-52128
	Well: AMEN CORNER 26 36 27 STATE COM #127H

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	If cement does not circulate on any string , a CBL is required for that string of casing.
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

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/H₂S detectors will be installed throughout the facilities and wellheads to detect leaks and enable timely repairs.

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

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

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

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



Ameredev II, LLC

Wellbore Schematic

Well: Amen Corner 26 36 27 State Com 127H

SHL: Sec. 22 26S-36E 230' FSL & 935' FEL

BHL: Sec. 34 26S-36E 50' FSL & 990' 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: 2,910'

Field: Delaware

Objective: Wolfcamp B

TVD: 11,930'

MD: 19,771'

Rig: TBD **KB 27'**

E-Mail: Wellsite2@ameredev.com

Hole Size	Formation Tops	Logs	Cement	Mud Weight
17.5"	Rustler 1,970'	1,700 Sacks	TOC 0'	8.4-8.6 ppg WBM
	13.375" 68# J-55 BTC 2,095'			
12.25"	Salado 2,348'	810 Sacks	TOC 0'	7.5-9.4 Diesel Brine Emulsion
	DV Tool with ACP 3,196'		50% Excess	
	Tansill 3,196'			
	Capitan Reef 3,809'			
	Lamar 5,020'			
	No Casing 5,145'			
9.875"	Bell Canyon 5,269'			
	Brushy Canyon 6,690'			
	Bone Spring Lime 7,511'			
	First Bone Spring 9,320'			
	Second Bone Spring 9,798'			
	Third Bone Spring Upper 10,582'			
	7.625" 29.7# L-80HC BTC 10,707'	2,384 Sacks	TOC 0'	50% Excess
6.75"	Third Bone Spring 11,221'			10.5-12.5 ppg OBM
12° Build @	Wolfcamp A 11,378'			
11,459' MD thru	Wolfcamp B 11,750'			
12,300' MD				
	5.5" 23# P-110 USS-Eagle SFH 19,771'	1,539 Sacks	TOC 0'	
	Target Wolfcamp B 11930 TVD // 19771 MD		25% Excess	

Casing Design and Safety Factor Check

Casing Specifications						
Segment	Hole ID	Depth	OD	Weight	Grade	Coupling
Surface	17.5	2,095'	13.375	68	J-55	BTC
Intermediate	9.875	10,707'	7.625	29.7	HCL-80	BTC
Production	6.75	11,459'	5.5	23	P-110	SFH

Check Surface Casing				
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
Safety Factors				
1.56	7.51	6.42	4.38	0.66
Check Intermediate Casing				
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
Safety Factors				
1.13	2.96	2.00	1.28	1.22
Check Prod Casing, Segment A				
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
Safety Factors				
0.49	2.65	2.39	1.72	1.85



Ameredev Operating

Lea County, NM (N83-NME)

AMEN CORNER ST COM PROJECT

AMEN CORNER 26 36 27 ST COM 127H

OWB

Plan: PWP

Standard Planning Report - Geographic

19 June, 2023



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well AMEN CORNER ST COM 26 36 27 #127H
Company:	Ameredev Operating	TVD Reference:	KB=25' @ 2935.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=25' @ 2935.0usft
Site:	AMEN CORNER ST COM PROJECT	North Reference:	Grid
Well:	AMEN CORNER ST COM 26 36 27 #127H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

Project	Lea County, NM (N83-NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	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 #127H					
Well Position	+N/-S	0.0 usft	Northing:	373,486.83 usft	Latitude:	32.0221473
	+E/-W	0.0 usft	Easting:	877,844.34 usft	Longitude:	-103.2475532
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	2,910.0 usft
Grid Convergence:		0.58 °				

Wellbore	OWB				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/19/2023	6.14	59.69	47,200.33207584

Design	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	179.46	

Plan Survey Tool Program	Date	6/19/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,770.5 PWP (OWB)	MWD		
			OWSG MWD - Standard		



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well AMEN CORNER ST COM 26 36 27 #127H
Company:	Ameredev Operating	TVD Reference:	KB=25' @ 2935.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=25' @ 2935.0usft
Site:	AMEN CORNER ST COM PROJECT	North Reference:	Grid
Well:	AMEN CORNER ST COM 26 36 27 #127H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,250.0	5.00	339.20	2,249.7	10.2	-3.9	2.00	2.00	0.00	339.20	
3,809.0	5.00	339.20	3,802.8	137.2	-52.1	0.00	0.00	0.00	0.00	
4,059.0	0.00	0.00	4,052.4	147.4	-56.0	2.00	-2.00	0.00	180.00	
11,459.1	0.00	0.00	11,452.5	147.4	-56.0	0.00	0.00	0.00	0.00	
12,209.1	90.00	179.46	11,930.0	-330.0	-51.5	12.00	12.00	23.93	179.46	
19,770.5	90.00	179.46	11,930.0	-7,891.2	19.4	0.00	0.00	0.00	0.00	BHL (ACSC 127H)



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well AMEN CORNER ST COM 26 36 27 #127H
Company:	Ameredev Operating	TVD Reference:	KB=25' @ 2935.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=25' @ 2935.0usft
Site:	AMEN CORNER ST COM PROJECT	North Reference:	Grid
Well:	AMEN CORNER ST COM 26 36 27 #127H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	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	373,486.83	877,844.34	32.0221473	-103.2475532	
100.0	0.00	0.00	100.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
200.0	0.00	0.00	200.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
300.0	0.00	0.00	300.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
400.0	0.00	0.00	400.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
500.0	0.00	0.00	500.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
600.0	0.00	0.00	600.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
700.0	0.00	0.00	700.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
800.0	0.00	0.00	800.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
900.0	0.00	0.00	900.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
Start Build 2.00										
1,100.0	0.00	0.00	1,100.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
1,250.0	0.00	0.00	1,250.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
Start 1559.0 hold at 1250.0 MD										
1,300.0	0.00	0.00	1,300.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
1,970.0	0.00	0.00	1,970.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
Rustler										
2,000.0	0.00	0.00	2,000.0	0.0	0.0	373,486.83	877,844.34	32.0221473	-103.2475532	
2,100.0	2.00	339.20	2,100.0	1.6	-0.6	373,488.46	877,843.72	32.0221518	-103.2475551	
2,200.0	4.00	339.20	2,199.8	6.5	-2.5	373,493.35	877,841.86	32.0221653	-103.2475610	
2,250.0	5.00	339.20	2,249.7	10.2	-3.9	373,497.02	877,840.47	32.0221754	-103.2475654	
2,300.0	5.00	339.20	2,299.5	14.3	-5.4	373,501.09	877,838.92	32.0221867	-103.2475702	
2,348.7	5.00	339.20	2,348.0	18.2	-6.9	373,505.06	877,837.41	32.0221976	-103.2475749	
Salado										
2,400.0	5.00	339.20	2,399.1	22.4	-8.5	373,509.24	877,835.82	32.0222092	-103.2475799	
2,500.0	5.00	339.20	2,498.7	30.6	-11.6	373,517.39	877,832.73	32.0222316	-103.2475897	
2,600.0	5.00	339.20	2,598.4	38.7	-14.7	373,525.54	877,829.63	32.0222541	-103.2475994	
2,700.0	5.00	339.20	2,698.0	46.9	-17.8	373,533.68	877,826.54	32.0222766	-103.2476091	
2,800.0	5.00	339.20	2,797.6	55.0	-20.9	373,541.83	877,823.44	32.0222991	-103.2476188	
2,809.0	5.00	339.20	2,806.6	55.7	-21.2	373,542.56	877,823.16	32.0223011	-103.2476197	
Start Drop -2.00										
2,900.0	5.00	339.20	2,897.2	63.1	-24.0	373,549.98	877,820.35	32.0223216	-103.2476285	
3,000.0	5.00	339.20	2,996.8	71.3	-27.1	373,558.13	877,817.25	32.0223440	-103.2476383	
3,059.0	5.00	339.20	3,055.6	76.1	-28.9	373,562.93	877,815.42	32.0223573	-103.2476440	
Start 8400.1 hold at 3059.0 MD										
3,100.0	5.00	339.20	3,096.4	79.4	-30.2	373,566.27	877,814.16	32.0223665	-103.2476480	
3,199.9	5.00	339.20	3,196.0	87.6	-33.3	373,574.41	877,811.06	32.0223890	-103.2476577	
Tansill										
3,200.0	5.00	339.20	3,196.1	87.6	-33.3	373,574.42	877,811.06	32.0223890	-103.2476577	
3,300.0	5.00	339.20	3,295.7	95.7	-36.4	373,582.57	877,807.97	32.0224115	-103.2476674	
3,400.0	5.00	339.20	3,395.3	103.9	-39.5	373,590.71	877,804.87	32.0224339	-103.2476772	
3,500.0	5.00	339.20	3,494.9	112.0	-42.6	373,598.86	877,801.77	32.0224564	-103.2476869	
3,600.0	5.00	339.20	3,594.5	120.2	-45.7	373,607.01	877,798.68	32.0224789	-103.2476966	
3,700.0	5.00	339.20	3,694.2	128.3	-48.8	373,615.16	877,795.58	32.0225014	-103.2477063	
3,809.0	5.00	339.20	3,802.8	137.2	-52.1	373,624.04	877,792.21	32.0225259	-103.2477169	



Planning Report - Geographic

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Company:	Ameredev Operating	TVD Reference:	KB=25' @ 2935.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=25' @ 2935.0usft
Site:	AMEN CORNER ST COM PROJECT	North Reference:	Grid
Well:	AMEN CORNER ST COM 26 36 27 #127H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	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	
3,815.3	4.87	339.20	3,809.0	137.7	-52.3	373,624.54	877,792.02	32.0225273	-103.2477175	
Capitan										
3,900.0	3.18	339.20	3,893.5	143.3	-54.4	373,630.10	877,789.91	32.0225426	-103.2477242	
4,000.0	1.18	339.20	3,993.4	146.8	-55.8	373,633.66	877,788.55	32.0225524	-103.2477284	
4,059.0	0.00	0.00	4,052.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
4,100.0	0.00	0.00	4,093.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
4,200.0	0.00	0.00	4,193.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
4,300.0	0.00	0.00	4,293.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
4,400.0	0.00	0.00	4,393.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
4,500.0	0.00	0.00	4,493.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
4,600.0	0.00	0.00	4,593.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
4,700.0	0.00	0.00	4,693.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
4,800.0	0.00	0.00	4,793.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
4,900.0	0.00	0.00	4,893.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
5,000.0	0.00	0.00	4,993.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
5,026.6	0.00	0.00	5,020.0	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
Lamar										
5,100.0	0.00	0.00	5,093.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
5,200.0	0.00	0.00	5,193.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
5,275.6	0.00	0.00	5,269.0	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
Bell Canyon										
5,300.0	0.00	0.00	5,293.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
5,400.0	0.00	0.00	5,393.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
5,500.0	0.00	0.00	5,493.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
5,600.0	0.00	0.00	5,593.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
5,700.0	0.00	0.00	5,693.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
5,800.0	0.00	0.00	5,793.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
5,900.0	0.00	0.00	5,893.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
6,000.0	0.00	0.00	5,993.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
6,100.0	0.00	0.00	6,093.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
6,200.0	0.00	0.00	6,193.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
6,300.0	0.00	0.00	6,293.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
6,400.0	0.00	0.00	6,393.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
6,500.0	0.00	0.00	6,493.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
6,600.0	0.00	0.00	6,593.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
6,696.6	0.00	0.00	6,690.0	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
Brushy Canyon										
6,700.0	0.00	0.00	6,693.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
6,800.0	0.00	0.00	6,793.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
6,900.0	0.00	0.00	6,893.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
7,000.0	0.00	0.00	6,993.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
7,100.0	0.00	0.00	7,093.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
7,200.0	0.00	0.00	7,193.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
7,300.0	0.00	0.00	7,293.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
7,400.0	0.00	0.00	7,393.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
7,500.0	0.00	0.00	7,493.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
7,517.6	0.00	0.00	7,511.0	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
Bone Spring Lime										
7,600.0	0.00	0.00	7,593.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
7,700.0	0.00	0.00	7,693.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
7,800.0	0.00	0.00	7,793.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
7,900.0	0.00	0.00	7,893.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	
8,000.0	0.00	0.00	7,993.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291	



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Project:	Lea County, NM (N83-NME)	MD Reference:	KB=25' @ 2935.0usft
Site:	AMEN CORNER ST COM PROJECT	North Reference:	Grid
Well:	AMEN CORNER ST COM 26 36 27 #127H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	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	8,093.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
8,200.0	0.00	0.00	8,193.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
8,300.0	0.00	0.00	8,293.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
8,400.0	0.00	0.00	8,393.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
8,500.0	0.00	0.00	8,493.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
8,600.0	0.00	0.00	8,593.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
8,700.0	0.00	0.00	8,693.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
8,800.0	0.00	0.00	8,793.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
8,900.0	0.00	0.00	8,893.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
9,000.0	0.00	0.00	8,993.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
9,100.0	0.00	0.00	9,093.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
9,200.0	0.00	0.00	9,193.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
9,300.0	0.00	0.00	9,293.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
9,326.6	0.00	0.00	9,320.0	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
First Bone Spring									
9,400.0	0.00	0.00	9,393.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
9,500.0	0.00	0.00	9,493.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
9,600.0	0.00	0.00	9,593.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
9,700.0	0.00	0.00	9,693.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
9,800.0	0.00	0.00	9,793.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
9,804.6	0.00	0.00	9,798.0	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
Second Bone Spring									
9,900.0	0.00	0.00	9,893.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
10,000.0	0.00	0.00	9,993.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
10,100.0	0.00	0.00	10,093.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
10,200.0	0.00	0.00	10,193.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
10,300.0	0.00	0.00	10,293.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
10,400.0	0.00	0.00	10,393.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
10,500.0	0.00	0.00	10,493.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
10,588.6	0.00	0.00	10,582.0	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
Third Bone Spring Lime									
10,600.0	0.00	0.00	10,593.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
10,700.0	0.00	0.00	10,693.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
10,800.0	0.00	0.00	10,793.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
10,900.0	0.00	0.00	10,893.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
11,000.0	0.00	0.00	10,993.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
11,100.0	0.00	0.00	11,093.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
11,200.0	0.00	0.00	11,193.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
11,227.6	0.00	0.00	11,221.0	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
Third Bone Spring									
11,300.0	0.00	0.00	11,293.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
11,384.6	0.00	0.00	11,378.0	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
Wolfcamp									
11,400.0	0.00	0.00	11,393.4	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
11,459.1	0.00	0.00	11,452.5	147.4	-56.0	373,634.23	877,788.34	32.0225540	-103.2477291
KOP-Start DLS 12.00 TFO 179.46									
11,475.0	1.91	179.46	11,468.4	147.1	-56.0	373,633.96	877,788.34	32.0225533	-103.2477291
11,500.0	4.91	179.46	11,493.4	145.6	-56.0	373,632.48	877,788.35	32.0225492	-103.2477291
11,525.0	7.91	179.46	11,518.2	142.9	-56.0	373,629.68	877,788.38	32.0225415	-103.2477291
11,550.0	10.91	179.46	11,542.9	138.8	-55.9	373,625.60	877,788.42	32.0225303	-103.2477291
11,575.0	13.91	179.46	11,567.3	133.4	-55.9	373,620.22	877,788.47	32.0225155	-103.2477291
11,600.0	16.91	179.46	11,591.4	126.8	-55.8	373,613.58	877,788.53	32.0224972	-103.2477291
11,625.0	19.91	179.46	11,615.1	118.9	-55.7	373,605.69	877,788.61	32.0224755	-103.2477291



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well AMEN CORNER ST COM 26 36 27 #127H
Company:	Ameredev Operating	TVD Reference:	KB=25' @ 2935.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=25' @ 2935.0usft
Site:	AMEN CORNER ST COM PROJECT	North Reference:	Grid
Well:	AMEN CORNER ST COM 26 36 27 #127H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	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
11,650.0	22.91	179.46	11,638.4	109.7	-55.6	373,596.56	877,788.69	32.0224505	-103.2477292
11,675.0	25.91	179.46	11,661.1	99.4	-55.5	373,586.23	877,788.79	32.0224221	-103.2477292
11,700.0	28.91	179.46	11,683.3	87.9	-55.4	373,574.72	877,788.90	32.0223904	-103.2477292
11,725.0	31.91	179.46	11,704.9	75.2	-55.3	373,562.07	877,789.01	32.0223557	-103.2477292
11,750.0	34.91	179.46	11,725.8	61.5	-55.2	373,548.30	877,789.14	32.0223178	-103.2477293
11,775.0	37.91	179.46	11,745.9	46.6	-55.1	373,533.47	877,789.28	32.0222770	-103.2477293
11,780.2	38.54	179.46	11,750.0	43.4	-55.0	373,530.22	877,789.31	32.0222681	-103.2477293
Wolfcamp B									
11,800.0	40.91	179.46	11,765.2	30.8	-54.9	373,517.60	877,789.43	32.0222334	-103.2477293
11,825.0	43.91	179.46	11,783.6	13.9	-54.7	373,500.74	877,789.59	32.0221871	-103.2477294
11,850.0	46.91	179.46	11,801.2	-3.9	-54.6	373,482.94	877,789.76	32.0221381	-103.2477294
11,875.0	49.91	179.46	11,817.8	-22.6	-54.4	373,464.24	877,789.93	32.0220867	-103.2477294
11,900.0	52.91	179.46	11,833.4	-42.1	-54.2	373,444.70	877,790.12	32.0220330	-103.2477295
11,925.0	55.91	179.46	11,847.9	-62.5	-54.0	373,424.38	877,790.31	32.0219772	-103.2477295
11,950.0	58.91	179.46	11,861.4	-83.5	-53.8	373,403.32	877,790.50	32.0219193	-103.2477296
11,975.0	61.91	179.46	11,873.7	-105.3	-53.6	373,381.58	877,790.71	32.0218595	-103.2477296
12,000.0	64.91	179.46	11,884.9	-127.6	-53.4	373,359.23	877,790.92	32.0217981	-103.2477297
12,025.0	67.91	179.46	11,894.9	-150.5	-53.2	373,336.32	877,791.13	32.0217351	-103.2477297
12,050.0	70.91	179.46	11,903.7	-173.9	-53.0	373,312.92	877,791.35	32.0216708	-103.2477298
12,075.0	73.91	179.46	11,911.3	-197.7	-52.8	373,289.09	877,791.57	32.0216053	-103.2477298
12,100.0	76.91	179.46	11,917.6	-221.9	-52.5	373,264.90	877,791.80	32.0215388	-103.2477299
12,125.0	79.91	179.46	11,922.6	-246.4	-52.3	373,240.41	877,792.03	32.0214715	-103.2477299
12,150.0	82.91	179.46	11,926.3	-271.1	-52.1	373,215.70	877,792.26	32.0214036	-103.2477300
12,175.0	85.91	179.46	11,928.7	-296.0	-51.8	373,190.82	877,792.50	32.0213352	-103.2477300
12,200.0	88.91	179.46	11,929.9	-321.0	-51.6	373,165.85	877,792.73	32.0212665	-103.2477301
12,209.1	90.00	179.46	11,930.0	-330.0	-51.5	373,156.79	877,792.82	32.0212416	-103.2477301
LP-Start 7561.4 hold at 12209.1 MD									
12,300.0	90.00	179.46	11,930.0	-421.0	-50.7	373,065.86	877,793.67	32.0209917	-103.2477303
12,400.0	90.00	179.46	11,930.0	-521.0	-49.7	372,965.86	877,794.61	32.0207168	-103.2477305
12,500.0	90.00	179.46	11,930.0	-621.0	-48.8	372,865.86	877,795.54	32.0204420	-103.2477307
12,600.0	90.00	179.46	11,930.0	-721.0	-47.9	372,765.87	877,796.48	32.0201671	-103.2477310
12,700.0	90.00	179.46	11,930.0	-821.0	-46.9	372,665.87	877,797.42	32.0198922	-103.2477312
12,800.0	90.00	179.46	11,930.0	-921.0	-46.0	372,565.88	877,798.36	32.0196174	-103.2477314
12,900.0	90.00	179.46	11,930.0	-1,020.9	-45.0	372,465.88	877,799.29	32.0193425	-103.2477316
13,000.0	90.00	179.46	11,930.0	-1,120.9	-44.1	372,365.89	877,800.23	32.0190676	-103.2477318
13,100.0	90.00	179.46	11,930.0	-1,220.9	-43.2	372,265.89	877,801.17	32.0187928	-103.2477320
13,200.0	90.00	179.46	11,930.0	-1,320.9	-42.2	372,165.90	877,802.11	32.0185179	-103.2477323
13,300.0	90.00	179.46	11,930.0	-1,420.9	-41.3	372,065.90	877,803.04	32.0182430	-103.2477325
13,400.0	90.00	179.46	11,930.0	-1,520.9	-40.4	371,965.90	877,803.98	32.0179682	-103.2477327
13,500.0	90.00	179.46	11,930.0	-1,620.9	-39.4	371,865.91	877,804.92	32.0176933	-103.2477329
13,600.0	90.00	179.46	11,930.0	-1,720.9	-38.5	371,765.91	877,805.86	32.0174185	-103.2477331
13,700.0	90.00	179.46	11,930.0	-1,820.9	-37.5	371,665.92	877,806.80	32.0171436	-103.2477333
13,800.0	90.00	179.46	11,930.0	-1,920.9	-36.6	371,565.92	877,807.73	32.0168687	-103.2477335
13,900.0	90.00	179.46	11,930.0	-2,020.9	-35.7	371,465.93	877,808.67	32.0165939	-103.2477338
14,000.0	90.00	179.46	11,930.0	-2,120.9	-34.7	371,365.93	877,809.61	32.0163190	-103.2477340
14,100.0	90.00	179.46	11,930.0	-2,220.9	-33.8	371,265.94	877,810.55	32.0160441	-103.2477342
14,200.0	90.00	179.46	11,930.0	-2,320.9	-32.9	371,165.94	877,811.48	32.0157693	-103.2477344
14,300.0	90.00	179.46	11,930.0	-2,420.9	-31.9	371,065.94	877,812.42	32.0154944	-103.2477346
14,400.0	90.00	179.46	11,930.0	-2,520.9	-31.0	370,965.95	877,813.36	32.0152195	-103.2477348
14,500.0	90.00	179.46	11,930.0	-2,620.9	-30.0	370,865.95	877,814.30	32.0149447	-103.2477351
14,600.0	90.00	179.46	11,930.0	-2,720.9	-29.1	370,765.96	877,815.23	32.0146698	-103.2477353
14,700.0	90.00	179.46	11,930.0	-2,820.9	-28.2	370,665.96	877,816.17	32.0143949	-103.2477355
14,800.0	90.00	179.46	11,930.0	-2,920.9	-27.2	370,565.97	877,817.11	32.0141201	-103.2477357



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well AMEN CORNER ST COM 26 36 27 #127H
Company:	Ameredev Operating	TVD Reference:	KB=25' @ 2935.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=25' @ 2935.0usft
Site:	AMEN CORNER ST COM PROJECT	North Reference:	Grid
Well:	AMEN CORNER ST COM 26 36 27 #127H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	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
14,900.0	90.00	179.46	11,930.0	-3,020.9	-26.3	370,465.97	877,818.05	32.0138452	-103.2477359
15,000.0	90.00	179.46	11,930.0	-3,120.9	-25.4	370,365.97	877,818.99	32.0135704	-103.2477361
15,100.0	90.00	179.46	11,930.0	-3,220.8	-24.4	370,265.98	877,819.92	32.0132955	-103.2477364
15,200.0	90.00	179.46	11,930.0	-3,320.8	-23.5	370,165.98	877,820.86	32.0130206	-103.2477366
15,300.0	90.00	179.46	11,930.0	-3,420.8	-22.5	370,065.99	877,821.80	32.0127458	-103.2477368
15,400.0	90.00	179.46	11,930.0	-3,520.8	-21.6	369,965.99	877,822.74	32.0124709	-103.2477370
15,500.0	90.00	179.46	11,930.0	-3,620.8	-20.7	369,866.00	877,823.67	32.0121960	-103.2477372
15,600.0	90.00	179.46	11,930.0	-3,720.8	-19.7	369,766.00	877,824.61	32.0119212	-103.2477374
15,700.0	90.00	179.46	11,930.0	-3,820.8	-18.8	369,666.01	877,825.55	32.0116463	-103.2477376
15,800.0	90.00	179.46	11,930.0	-3,920.8	-17.9	369,566.01	877,826.49	32.0113714	-103.2477379
15,900.0	90.00	179.46	11,930.0	-4,020.8	-16.9	369,466.01	877,827.42	32.0110966	-103.2477381
16,000.0	90.00	179.46	11,930.0	-4,120.8	-16.0	369,366.02	877,828.36	32.0108217	-103.2477383
16,100.0	90.00	179.46	11,930.0	-4,220.8	-15.0	369,266.02	877,829.30	32.0105468	-103.2477385
16,200.0	90.00	179.46	11,930.0	-4,320.8	-14.1	369,166.03	877,830.24	32.0102720	-103.2477387
16,300.0	90.00	179.46	11,930.0	-4,420.8	-13.2	369,066.03	877,831.18	32.0099971	-103.2477389
16,400.0	90.00	179.46	11,930.0	-4,520.8	-12.2	368,966.04	877,832.11	32.0097223	-103.2477392
16,500.0	90.00	179.46	11,930.0	-4,620.8	-11.3	368,866.04	877,833.05	32.0094474	-103.2477394
16,600.0	90.00	179.46	11,930.0	-4,720.8	-10.4	368,766.04	877,833.99	32.0091725	-103.2477396
16,700.0	90.00	179.46	11,930.0	-4,820.8	-9.4	368,666.05	877,834.93	32.0088977	-103.2477398
16,800.0	90.00	179.46	11,930.0	-4,920.8	-8.5	368,566.05	877,835.86	32.0086228	-103.2477400
16,900.0	90.00	179.46	11,930.0	-5,020.8	-7.5	368,466.06	877,836.80	32.0083479	-103.2477402
17,000.0	90.00	179.46	11,930.0	-5,120.8	-6.6	368,366.06	877,837.74	32.0080731	-103.2477404
17,100.0	90.00	179.46	11,930.0	-5,220.8	-5.7	368,266.07	877,838.68	32.0077982	-103.2477407
17,200.0	90.00	179.46	11,930.0	-5,320.8	-4.7	368,166.07	877,839.61	32.0075233	-103.2477409
17,300.0	90.00	179.46	11,930.0	-5,420.8	-3.8	368,066.08	877,840.55	32.0072485	-103.2477411
17,400.0	90.00	179.46	11,930.0	-5,520.7	-2.8	367,966.08	877,841.49	32.0069736	-103.2477413
17,500.0	90.00	179.46	11,930.0	-5,620.7	-1.9	367,866.08	877,842.43	32.0066987	-103.2477415
17,600.0	90.00	179.46	11,930.0	-5,720.7	-1.0	367,766.09	877,843.36	32.0064239	-103.2477417
17,700.0	90.00	179.46	11,930.0	-5,820.7	0.0	367,666.09	877,844.30	32.0061490	-103.2477419
17,800.0	90.00	179.46	11,930.0	-5,920.7	0.9	367,566.10	877,845.24	32.0058742	-103.2477422
17,900.0	90.00	179.46	11,930.0	-6,020.7	1.8	367,466.10	877,846.18	32.0055993	-103.2477424
18,000.0	90.00	179.46	11,930.0	-6,120.7	2.8	367,366.11	877,847.12	32.0053244	-103.2477426
18,100.0	90.00	179.46	11,930.0	-6,220.7	3.7	367,266.11	877,848.05	32.0050496	-103.2477428
18,200.0	90.00	179.46	11,930.0	-6,320.7	4.7	367,166.12	877,848.99	32.0047747	-103.2477430
18,300.0	90.00	179.46	11,930.0	-6,420.7	5.6	367,066.12	877,849.93	32.0044998	-103.2477432
18,400.0	90.00	179.46	11,930.0	-6,520.7	6.5	366,966.12	877,850.87	32.0042250	-103.2477435
18,500.0	90.00	179.46	11,930.0	-6,620.7	7.5	366,866.13	877,851.80	32.0039501	-103.2477437
18,600.0	90.00	179.46	11,930.0	-6,720.7	8.4	366,766.13	877,852.74	32.0036752	-103.2477439
18,700.0	90.00	179.46	11,930.0	-6,820.7	9.3	366,666.14	877,853.68	32.0034004	-103.2477441
18,800.0	90.00	179.46	11,930.0	-6,920.7	10.3	366,566.14	877,854.62	32.0031255	-103.2477443
18,900.0	90.00	179.46	11,930.0	-7,020.7	11.2	366,466.15	877,855.55	32.0028506	-103.2477445
19,000.0	90.00	179.46	11,930.0	-7,120.7	12.2	366,366.15	877,856.49	32.0025758	-103.2477447
19,100.0	90.00	179.46	11,930.0	-7,220.7	13.1	366,266.15	877,857.43	32.0023009	-103.2477450
19,200.0	90.00	179.46	11,930.0	-7,320.7	14.0	366,166.16	877,858.37	32.0020260	-103.2477452
19,300.0	90.00	179.46	11,930.0	-7,420.7	15.0	366,066.16	877,859.31	32.0017512	-103.2477454
19,400.0	90.00	179.46	11,930.0	-7,520.7	15.9	365,966.17	877,860.24	32.0014763	-103.2477456
19,500.0	90.00	179.46	11,930.0	-7,620.7	16.8	365,866.17	877,861.18	32.0012015	-103.2477458
19,600.0	90.00	179.46	11,930.0	-7,720.7	17.8	365,766.18	877,862.12	32.0009266	-103.2477460
19,700.0	90.00	179.46	11,930.0	-7,820.6	18.7	365,666.18	877,863.06	32.0006517	-103.2477462
19,770.5	90.00	179.46	11,930.0	-7,891.2	19.4	365,595.68	877,863.72	32.0004579	-103.2477464
TD at 19770.5									



Planning Report - Geographic

Database:	AUS-COMPASS - EDM_15 - 32bit	Local Co-ordinate Reference:	Well AMEN CORNER ST COM 26 36 27 #127H
Company:	Ameredev Operating	TVD Reference:	KB=25' @ 2935.0usft
Project:	Lea County, NM (N83-NME)	MD Reference:	KB=25' @ 2935.0usft
Site:	AMEN CORNER ST COM PROJECT	North Reference:	Grid
Well:	AMEN CORNER ST COM 26 36 27 #127H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP		

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 127H) - plan misses target center by 25.7usft at 19700.0usft MD (11930.0 TVD, -7820.6 N, 18.7 E) - Point	0.00	0.00	11,930.0	-7,841.0	34.4	365,645.82	877,878.75	32.0005953	-103.2476963
FTP (ACSC 127H) - plan misses target center by 0.3usft at 12209.4usft MD (11930.0 TVD, -330.4 N, -51.5 E) - Point	0.00	0.00	11,930.0	-330.4	-51.9	373,156.46	877,792.48	32.0212407	-103.2477312
BHL (ACSC 127H) - plan hits target center - Point	0.00	0.00	11,930.0	-7,891.2	19.4	365,595.68	877,863.72	32.0004579	-103.2477464

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,970.0	1,970.0	Rustler			
2,348.7	2,348.0	Salado			
3,199.9	3,196.0	Tansill			
3,815.3	3,809.0	Capitan			
5,026.6	5,020.0	Lamar			
5,275.6	5,269.0	Bell Canyon			
6,696.6	6,690.0	Brushy Canyon			
7,517.6	7,511.0	Bone Spring Lime			
9,326.6	9,320.0	First Bone Spring			
9,804.6	9,798.0	Second Bone Spring			
10,588.6	10,582.0	Third Bone Spring Lime			
11,227.6	11,221.0	Third Bone Spring			
11,384.6	11,378.0	Wolfcamp			
11,780.2	11,750.0	Wolfcamp B			

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	1,250.0	0.0	0.0	Start 1559.0 hold at 1250.0 MD
2,809.0	2,806.6	55.7	-21.2	Start Drop -2.00
3,059.0	3,055.6	76.1	-28.9	Start 8400.1 hold at 3059.0 MD
11,459.1	11,452.5	147.4	-56.0	KOP-Start DLS 12.00 TFO 179.46
12,209.1	11,930.0	-330.0	-51.5	LP-Start 7561.4 hold at 12209.1 MD
19,770.5	11,930.0	-7,891.2	19.4	TD at 19770.5



H₂S Drilling Operation Plan

1. **All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:**
 - a. Characteristics of H₂S
 - b. Physical effects and hazards
 - c. Principal and operation of H₂S detectors, warning system and briefing areas
 - d. Evacuation procedure, routes and first aid
 - e. Proper use of safety equipment and life support systems
 - f. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.
2. **Briefing Area:**
 - a. Two perpendicular areas will be designated by signs and readily accessible.
 - b. Upon location entry there will be a designated area to establish all safety compliance criteria (1.) has been met.
3. **H₂S Detection and Alarm Systems:**
 - a. H₂S 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 H₂S 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.



H₂S Drilling Operation Plan

- c. Two way radios will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at Drilling Foreman's Office.
- 7. **Drill Stem Testing:** - No Planned DST at this time.
- 8. **Mud program:**
 - a. If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H₂S scavengers if necessary.
- 9. **Metallurgy:**
 - a. All drill strings, casing, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.
 - b. Drilling Contractor supervisor will be required to be familiar with the effect H₂S has on tubular goods and other mechanical equipment provided through contractor.



H₂S Contingency Plan

Emergency Procedures

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

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the “buddy system” to ensure no injuries occur during the response.
- Take precautions to avoid personal injury during this operation.
- Contact Operator and/or local officials the aid in operation. See list of phone numbers attached.
- Have received training in the:
 - Detection of H₂S 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 (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H₂S and SO₂

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

Contacting Authorities

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



H₂S Contingency Plan

Ameredev Operating LLC – Emergency Phone 737-300-4799			
Key Personnel:			
Name	Title	Office	Mobile
Floyd Hammond	Chief Operating officer	737-300-4724	512-783-6810
Shane McNeely	Operations Engineer	737-300-4729	432-413-8593
Dayeed Khan	Construction Manager	737-300-4733	281-928-4692

<u>Artesia</u>	
Ambulance	911
State Police	575-748-9718
City Police	575-746-5000
Sheriff's Office	575-887-7551
Fire Department	575-746-5051
Artesia General Hospital	575-748-3333
New Mexico Oil Conservation Division	575-626-0830
<u>Carlsbad</u>	
Ambulance	911
State Police	575-885-3138
City Police	575-885-2111
Sheriff's Office	575-887-7551
Fire Department	575-885-3125
Carlsbad Medical Center	575-887-4100
Hobbs Hospital	575-492-5000
BLM Hobbs Field Office	575-689-5981
BLM Carlsbad Field Office	575-361-2822
New Mexico Oil Conservation Division	575-626-0830
<u>Santa Fe</u>	
Department of Homeland Security and Emergency Management (Santa Fe)	505-476-9600
New Mexico State Emergency Operations Center	505-476-9635
<u>National</u>	
National Emergency Response Center (Washington, D.C.)	800-424-8802
<u>Medical</u>	
Aerocare - R3, Box 49F; Lubbock, TX	800-627-2376
Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM	505-842-4433
Lifeguard Air Emergency Services- 2505 Clark Carr Loop S.E.; Albuquerque, NM	505-243-2343