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

District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV**

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

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

Form C-101 August 1, 2011

Permit 352481

AFFEICATION FOR FEMILIFITO DIVILE, RE-ENTER, DEEFEN, FEOGRACK, OR ADD	AZONL
1. Operator Name and Address	2. OGRID Number
AMEREDEV OPERATING, LLC	372224

2901 Via Fortuna 3. API Number Austin, TX 78746 30-025-52125 4. Property Code 5. Property Name 6. Well No. 320055 AMEN CORNER 26 36 27 STATE COM 074H

ADDITIONATION FOR DEDMIT TO DOLL DE ENTED DEEDEN DILICRACK OR ADDIA ZONE

7 Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Α	27	26S	36E	Α	200	N	250	E	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
1	34	26S	36E	1	50	S	330	E	Lea

9. Pool Information

WC-025 G-08 S263620C;LWR BONE SPRIN 98150

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well OIL			State	2906
16. Multiple 17. Proposed Depth		18. Formation	19. Contractor	20. Spud Date
N 17163		1st Bone Spring Sand		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	2041	1589	0
Int1	12.25	10.75	45.5	5129	1270	0
Prod	8.75	5.5	17	17163	5657	0

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer	
Double Ram	5000	5000	TBD	

knowledge and b	have complied with 19.15.14.9 (A) N	true and complete to the best of my IMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATI	ION DIVISION
Printed Name:	Electronically filed by Christie Har	nna	Approved By:	Paul F Kautz	
Title:	Title: Regulatory			Geologist	
Email Address: channa@ameredev.com			Approved Date:	10/19/2023	Expiration Date: 10/19/2025
Date: 10/16/2023 Phone: 737-300-4723			Conditions of Appr	oval Attached	

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 Phone: (505) 4170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT

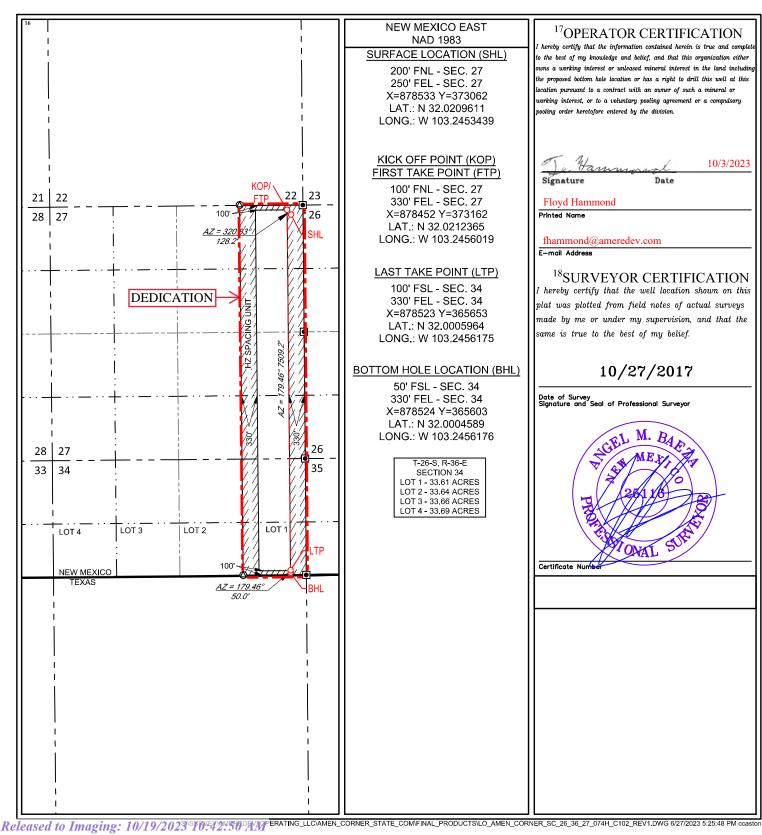
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name						
30-025-	98150	WC-025 G-08 S263620C; LWR BONE SPRING						
⁴ Property Code	⁵ Pr	operty Name	⁶ Well Number					
320055	AMEN CORNER	26 36 27 STATE COM	074H					
⁷ OGRID No.	⁸ O _I	perator Name	⁹ Elevation					
372224	AMEREDEV	OPERATING, LLC.	2906'					
100 0								

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	27	26-S	36-E	-	200'	NORTH	250'	EAST	LEA
¹¹ 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
1	34	26-S	36-E	-	50'	SOUTH	330'	EAST	LEA
¹² Dedicated Acres	¹³ Joint or I	nfill ¹⁴ Co	nsolidation Cod	le ¹⁵ Ord	er No.				
233.61			\mathbf{C}						

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



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

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

Form APD Conditions

Permit 352481

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
AMEREDEV OPERATING, LLC [372224]	30-025-52125
2901 Via Fortuna	Well:
Austin, TX 78746	AMEN CORNER 26 36 27 STATE COM #074H

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. O	perator:	_Ameredev II, LI	LC	OGRID: _	372224	1Date:						
II. T	I. Type: \square Original \square Amendment due to \square 19.15.27.9.D(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square Other.											
If O	ther, please describe: _											
	Well(s): Provide the for ecompleted from a sing	-		-		of wells proposed to	be drilled or proposed to					
	Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D					

weii Name	API	ULSTR	Footages	Oil BBL/D	MCF/D	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 <u>EFFECTIVE APRIL 1, 2022</u>

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.

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

X. Natural Gas Gathering System (NGGS):

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

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

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

XIII.	Line Pressure. Operator \square does \square does not anticipate that its existing well(s) confidence in the confidence of th	nected to the same segment, or portion,	of the
natura	al gas gathering system(s) described above will continue to meet anticipated increase	s in line pressure caused by the new wo	ell(s).

A 441- (↑ 4	? 1 <i>+</i>			:	4- 41 :-	ncreased line	
 - Апасп (meraior	e mian i	a manage :	nraancnan	in recoonce	IO INE II	ncreasea iine	nrecentre

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

(i)

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, a	fter reasonable inquiry and based on the available information at the time of submittal:
one hundred percent of	to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering
hundred percent of the a into account the current	able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. box, Operator will select one of the following:
Well Shut-In. ☐ Opera D of 19.15.27.9 NMAC	tor will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection; or
Venting and Flaring P	lan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential
alternative beneficial us	es 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

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

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

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

Signature: Casca Gu
Printed Name: Cesca Yu
Title: Engineer
E-mail Address: cyu@ameredev.com
Date: 06/21/2023
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. <u>Operational Practices: Attach a complete description of the actions Operator will</u> take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.

19.15.27.8 (A)

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

19.15.27.8 (B) Venting and Flaring during drilling operations

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

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

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

19.15.27.8 (D) Venting and Flaring during production operations.

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

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

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

19.15.27.8 (E) Performance Standards

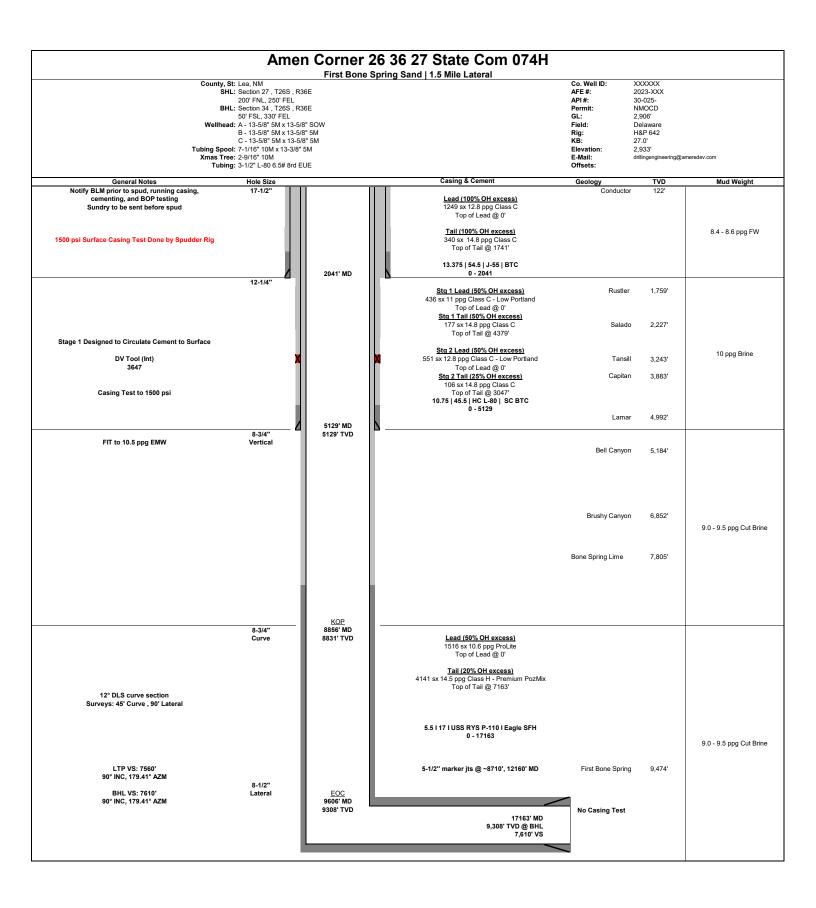
- Production equipment will be designed to handle maximum anticipated rates and pressure.
- Automatic gauging equipment is installed on all tanks to minimize venting
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- •Flares are equipped with continuous pilots and auto-ignitors along with remote monitoring of the pilot status
- Weekly AVOs and monthly LDAR inspections will be performed on all wells and facilities that produce more than 60 Mcfd.
- Gas/H2S detectors will be installed throughout the facilities and wellheads to detect leaks and enable timely repairs.

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

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

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

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





Ameredev Operating

Lea County, NM (N83-NME)
AMEN CORNER ST COM PROJECT
AMEN 26 36 27 CORNER ST COM 074H

OWB

Plan: PWP

Survey Report - Geographic

13 June, 2023



Company: Ameredev Operating

Project: Lea County, NM (N83-NME) AMEN CORNER ST COM PROJECT Site:

Well: AMEN CORNER ST COM 26 36 27 #74H

Wellbore: **OWB**

PWP Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Database:

Well AMEN CORNER ST COM 26 36 27 #74H

KB=25' @ 2931.0usft KB=25' @ 2931.0usft

Minimum Curvature

AUS-COMPASS - EDM_15 - 32bit

Project Lea County, NM (N83-NME)

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

System Datum:

Mean Sea Level

Site AMEN CORNER ST COM PROJECT

Northing: 373,452.33 usft Site Position: Latitude: 32.0221652 Lat/Long From: Easting: 873,738.68 usft Longitude: -103.2607997 Slot Radius: Grid Convergence: **Position Uncertainty:** 0.0 usft 13-3/16 " 0.57°

Well AMEN CORNER ST COM 26 36 27 #74H

Well Position +N/-S 0.0 usft Northing: 373,062.18 usfl Latitude: 32.0209611 +E/-W 0.0 usft Easting: 878,533.43 usfl Longitude: -103.2453439 Ground Level: **Position Uncertainty** 3.0 usft Wellhead Elevation: usfi 2,906.0 usft

Wellbore **OWB**

Magnetics Model Name Sample Date Declination **Dip Angle** Field Strength (°) (°) (nT) 6.14 59.69 47,201.59183761 IGRF2020 6/13/2023

PWP Design

Audit Notes:

Version: **PROTOTYPE** 0.0 Phase: Tie On Depth:

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 179.41

Date 6/13/2023 **Survey Tool Program**

> From To (usft) (usft) Survey (Wellbore) **Tool Name** Description

0.0 17,162.9 PWP (OWB) **MWD** OWSG MWD - Standard

Planned Survey Measured Vertical Map Мар Depth Inclination Azimuth Depth +N/-S +E/-W Northing Easting (usft) (usft) (usft) (usft) (usft) (usft) Latitude Longitude (°) (°) 0.0 0.00 0.00 0.0 0.0 0.0 373,062.18 878.533.43 32 0209611 -103.2453439 0.00 0.00 373,062.18 32.0209611 100.0 100.0 0.0 0.0 878,533.43 -103.2453439 200.0 0.00 0.00 200.0 0.0 0.0 373,062.18 878,533.43 32.0209611 -103.2453439 300.0 0.00 0.00 300.0 0.0 0.0 373,062.18 878,533.43 32.0209611 -103.2453439 400.0 0.00 0.00 400.0 0.0 0.0 373.062.18 878.533.43 32.0209611 -103.2453439 500.0 0.00 0.00 500.0 0.0 0.0 373,062.18 878,533.43 32.0209611 -103.2453439 0.00 600.0 0.00 600.0 0.0 0.0 373,062.18 878,533.43 32.0209611 -103.2453439 700.0 0.00 0.00 700.0 0.0 0.0 373,062.18 878,533.43 32.0209611 -103.2453439 800.0 0.00 0.00 800.0 0.0 0.0 373,062.18 878,533.43 32.0209611 -103.2453439 900.0 -103.2453439 900.0 0.00 0.00 0.0 0.0 373,062.18 878,533.43 32.0209611 0.00 0.00 1,000.0 0.0 373,062.18 32.0209611 -103.2453439 1 000 0 0.0 878,533.43 Start Build 2.00



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

AMEN CORNER ST COM PROJECT Site: AMEN CORNER ST COM 26 36 27 #74H Well:

Wellbore: OWB

PWP Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Database:

Well AMEN CORNER ST COM 26 36 27 #74H

KB=25' @ 2931.0usft

KB=25' @ 2931.0usft

Minimum Curvature

Planned Surv	/AV								
Planned Surv	еу								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,100.0		350.81	1,100.0	1.7	-0.3	373,063.90	878,533.15	32.0209659	-103.2453447
1,200.0		350.81	1,199.8	6.9	-1.1	373,069.07	878,532.32	32.0209801	-103.2453473
1,250.0		350.81	1,249.7	10.8	-1.7	373,072.94	878,531.69	32.0209908	-103.2453492
1,300.0	433.0 hold a 5.00	350.81	1,299.5	15.1	-2.4	373.077.24	878,530.99	32.0210026	-103.2453513
1,400.0		350.81	1,399.1	23.7	-3.8	373,085.85	878,529.60	32.0210263	-103.2453555
1,500.0			1,498.7	32.3	-5.2	373,094.45	878,528.21	32.0210500	-103.2453597
1,600.0		350.81	1,598.4	40.9	-6.6	373,103.05	878,526.82	32.0210737	-103.2453639
1,700.0		350.81	1,698.0	49.5	-8.0	373,111.66	878,525.43	32.0210973	-103.2453681
1,800.0		350.81	1,797.6	58.1	-9.4	373,120.26	878,524.04	32.0211210	-103.2453723
1,900.0 2,000.0		350.81 350.81	1,897.2 1,996.8	66.7 75.3	-10.8 -12.2	373,128.87 373,137.47	878,522.64 878,521.25	32.0211447 32.0211684	-103.2453765 -103.2453807
2,000.0		350.81	2,016.0	76.9	-12.4	373,139.13	878,520.99	32.0211730	-103.2453815
Rustler			_,0.0.0			0.0,.000	0.0,020.00	02.0200	.00.2 .000 .0
2,100.0		350.81	2,096.4	83.9	-13.6	373,146.07	878,519.86	32.0211921	-103.2453849
2,200.0		350.81	2,196.1	92.5	-15.0	373,154.68	878,518.47	32.0212158	-103.2453892
2,300.0		350.81	2,295.7	101.1	-16.4	373,163.28	878,517.08	32.0212395	-103.2453934
2,355.5		350.81	2,351.0	105.9	-17.1	373,168.06	878,516.31	32.0212526	-103.2453957
Salado		350.81	2,395.3	109.7	177	373,171.88	878,515.69	32.0212631	-103.2453976
2,400.0 2,500.0		350.81	2,395.3 2,494.9	118.3	-17.7 -19.1	373,171.00 373,180.49	878,514.29	32.0212868	-103.2453976
2,600.0		350.81	2,594.5	126.9	-20.5	373,189.09	878,512.90	32.0213105	-103.2454060
2,700.0		350.81	2,694.2	135.5	-21.9	373,197.70	878,511.51	32.0213342	-103.2454102
2,800.0		350.81	2,793.8	144.1	-23.3	373,206.30	878,510.12	32.0213579	-103.2454144
2,900.0		350.81	2,893.4	152.7	-24.7	373,214.90	878,508.73	32.0213816	-103.2454186
2,937.7		350.81	2,931.0	156.0	-25.2	373,218.15	878,508.20	32.0213905	-103.2454202
Dewey 3,000.0		350.81	2,993.0	161.3	-26.1	373,223.51	878,507.34	32.0214053	-103.2454228
3,000.0			3,092.6	169.9	-20.1 -27.5	373,232.11	878,505.95	32.0214289	-103.2454270
3,179.7		350.81	3,172.0	176.8	-28.6	373,238.96	878,504.84	32.0214478	-103.2454304
Tansill			,			•	•		
3,200.0	5.00	350.81	3,192.3	178.5	-28.9	373,240.71	878,504.55	32.0214526	-103.2454313
3,300.0			3,291.9	187.1	-30.3	373,249.32	878,503.16	32.0214763	-103.2454355
3,400.0		350.81	3,391.5	195.7	-31.7	373,257.92	878,501.77	32.0215000	-103.2454397
3,500.0			3,491.1	204.3	-33.1 -34.4	373,266.53 373,275.13	878,500.38 878.498.99	32.0215237	-103.2454439 -103.2454481
3,600.0 3,700.0			3,590.7 3,690.4	213.0 221.6	-34.4 -35.8	373,283.73	878,497.60	32.0215474 32.0215711	-103.2454501
3,756.9		350.81	3,747.0	226.4	-36.6	373,288.63	878,496.81	32.0215845	-103.2454547
Capitai			-,			, , , , , , , , , , , , , , , , , , , ,			
3,800.0		350.81	3,790.0	230.2	-37.2	373,292.34	878,496.20	32.0215947	-103.2454565
3,900.0			3,889.6	238.8	-38.6	373,300.94	878,494.81	32.0216184	-103.2454607
4,000.0			3,989.2	247.4	-40.0	373,309.54	878,493.42	32.0216421	-103.2454649
4,100.0			4,088.8	256.0	-41.4	373,318.15	878,492.03	32.0216658	-103.2454691
4,200.0 4,300.0			4,188.5 4,288.1	264.6 273.2	-42.8 -44.2	373,326.75 373,335.36	878,490.64 878,489.25	32.0216895 32.0217132	-103.2454733 -103.2454776
4,300.0		350.81	4,200.1	273.2 281.8	-44.2 -45.6	373,335.36 373,343.96	878,487.86	32.0217132	-103.2454818
4,500.0			4,487.3	290.4	-47.0	373,352.56	878,486.46	32.0217605	-103.2454860
4,600.0			4,586.9	299.0	-48.4	373,361.17	878,485.07	32.0217842	-103.2454902
4,700.0	5.00	350.81	4,686.6	307.6	-49.7	373,369.77	878,483.68	32.0218079	-103.2454944
4,800.0			4,786.2	316.2	-51.1	373,378.38	878,482.29	32.0218316	-103.2454986
4,900.0			4,885.8	324.8	-52.5	373,386.98	878,480.90	32.0218553	-103.2455028
5,000.0 5,019.7			4,985.4	333.4	-53.9	373,395.58	878,479.51	32.0218790	-103.2455070
5,018.7 Lamar	5.00	350.81	5,004.0	335.0	-54.2	373,397.19	878,479.25	32.0218834	-103.2455078
Laillai									



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

Site: AMEN CORNER ST COM PROJECT Well: AMEN CORNER ST COM 26 36 27 #74H

Wellbore: OWB

PWP Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Database:

Well AMEN CORNER ST COM 26 36 27 #74H

KB=25' @ 2931.0usft

KB=25' @ 2931.0usft

Minimum Curvature

Planned Surv	еу								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,100.0	5.00	350.81	5,085.0	342.0	-55.3	373,404.19	878,478.11	32.0219027	-103.2455112
5,200.0	5.00	350.81	5,184.7	350.6	-56.7	373,412.79	878,476.72	32.0219263	-103.2455154
5,290.7	5.00	350.81	5,275.0	358.4	-58.0	373,420.59	878,475.46	32.0219478	-103.2455193
Bell Ca		050.04	5 004 0	050.0	50.4	070 404 00	070 475 00	00.0040500	400 0455407
5,300.0 5,400.0	5.00 5.00	350.81 350.81	5,284.3 5,383.9	359.2 367.8	-58.1 -59.5	373,421.39 373,430.00	878,475.33 878.473.94	32.0219500 32.0219737	-103.2455197 -103.2455239
5,500.0	5.00	350.81	5,363.9	376.4	-60.9	373,438.60	878,472.55	32.0219737	-103.2455281
5,600.0	5.00	350.81	5,583.1	385.0	-62.3	373,447.21	878,471.16	32.0220211	-103.2455323
5,700.0	5.00	350.81	5,682.7	393.6	-63.7	373,455.81	878,469.76	32.0220448	-103.2455365
5,800.0	5.00	350.81	5,782.4	402.2	-65.1	373,464.41	878,468.37	32.0220685	-103.2455407
5,900.0	5.00	350.81	5,882.0	410.8	-66.4	373,473.02	878,466.98	32.0220921	-103.2455449
6,000.0	5.00	350.81	5,981.6	419.4	-67.8	373,481.62	878,465.59	32.0221158	-103.2455491
6,100.0	5.00	350.81	6,081.2	428.0	-69.2	373,490.22	878,464.20	32.0221395	-103.2455533
6,200.0	5.00	350.81	6,180.8	436.6	-70.6	373,498.83	878,462.81	32.0221632	-103.2455575
6,300.0	5.00	350.81	6,280.5	445.3	-72.0	373,507.43	878,461.42	32.0221869	-103.2455618
6,400.0	5.00	350.81 350.81	6,380.1	453.9	-73.4	373,516.04	878,460.02	32.0222106	-103.2455660
6,500.0 6,600.0	5.00 5.00	350.81	6,479.7 6,579.3	462.5 471.1	-74.8 -76.2	373,524.64 373,533.24	878,458.63 878,457.24	32.0222343 32.0222579	-103.2455702 -103.2455744
6,696.0	5.00	350.81	6,675.0	479.3	-70.2 -77.5	373,541.51	878,455.90	32.0222807	-103.2455784
	Canyon	000.01	0,010.0	110.0	77.0	070,011.01	070,100.00	02.0222001	100.2 100101
6,700.0	5.00	350.81	6,678.9	479.7	-77.6	373.541.85	878.455.85	32.0222816	-103.2455786
6,800.0		350.81	6,778.6	488.3	-79.0	373,550.45	878,454.46	32.0223053	-103.2455828
6,900.0	5.00	350.81	6,878.2	496.9	-80.4	373,559.05	878,453.07	32.0223290	-103.2455870
7,000.0	5.00	350.81	6,977.8	505.5	-81.8	373,567.66	878,451.67	32.0223527	-103.2455912
7,100.0	5.00	350.81	7,077.4	514.1	-83.1	373,576.26	878,450.28	32.0223764	-103.2455954
7,200.0		350.81	7,177.0	522.7	-84.5	373,584.87	878,448.89	32.0224001	-103.2455996
7,300.0	5.00 5.00	350.81	7,276.7 7,376.3	531.3 539.9	-85.9	373,593.47	878,447.50	32.0224238	-103.2456039
7,400.0 7,477.0	5.00	350.81 350.81	7,376.3 7,453.0	539.9 546.5	-87.3 -88.4	373,602.07 373,608.70	878,446.11 878,445.04	32.0224474 32.0224657	-103.2456081 -103.2456113
	pring Lime	330.01	7,433.0	340.3	-00.4	373,000.70	070,445.04	32.0224037	-100.2430113
7,500.0	5.00	350.81	7,475.9	548.5	-88.7	373,610.68	878,444.72	32.0224711	-103.2456123
7,600.0		350.81	7,575.5	557.1	-90.1	373,619.28	878,443.33	32.0224948	-103.2456165
7,683.0	5.00	350.81	7,658.2	564.2	-91.3	373,626.42	878,442.17	32.0225145	-103.2456200
	rop -2.00								
7,700.0		350.81	7,675.1	565.7	-91.5	373,627.83	878,441.94	32.0225184	-103.2456207
7,800.0	2.66	350.81	7,774.9	572.0	-92.5	373,634.13	878,440.92	32.0225357	-103.2456238
7,900.0	0.66	350.81	7,874.9	574.8	-93.0	373,636.99	878,440.46	32.0225436	-103.2456252
7,933.0	0.00	0.00	7,907.8	575.0	-93.0	373,637.18	878,440.43	32.0225441	-103.2456252
	22.7 hold at			^			.=		400.0450050
8,000.0	0.00 0.00	0.00 0.00	7,974.9 8,074.9	575.0 575.0	-93.0 -93.0	373,637.18	878,440.43	32.0225441 32.0225441	-103.2456252
8,100.0 8,200.0	0.00	0.00	8,174.9	575.0 575.0	-93.0 -93.0	373,637.18 373,637.18	878,440.43 878,440.43	32.0225441	-103.2456252 -103.2456252
8,300.0		0.00	8,274.9	575.0 575.0	-93.0 -93.0	373,637.18	878,440.43	32.0225441	-103.2456252
8,400.0	0.00	0.00	8,374.9	575.0	-93.0	373,637.18	878,440.43	32.0225441	-103.2456252
8,500.0		0.00	8,474.9	575.0	-93.0	373,637.18	878,440.43	32.0225441	-103.2456252
8,600.0		0.00	8,574.9	575.0	-93.0	373,637.18	878,440.43	32.0225441	-103.2456252
8,700.0	0.00	0.00	8,674.9	575.0	-93.0	373,637.18	878,440.43	32.0225441	-103.2456252
8,800.0		0.00	8,774.9	575.0	-93.0	373,637.18	878,440.43	32.0225441	-103.2456252
8,855.6		0.00	8,830.5	575.0	-93.0	373,637.18	878,440.43	32.0225441	-103.2456252
	art DLS 12.0					070 000 ==	070 110 15	00.000=:==	100 01====
8,875.0		179.41	8,849.9	574.6	-93.0	373,636.79	878,440.43	32.0225430	-103.2456252
8,900.0 8 925 0		179.41 179.41	8,874.8 8,899.6	572.9 570.0	-93.0 -92.9	373,635.12 373,632.15	878,440.45 878,440.48	32.0225384 32.0225303	-103.2456252 -103.2456252
8,925.0 8,950.0		179.41	8,924.3	570.0 565.7	-92.9 -92.9	373,627.88	878,440.53	32.0225303	-103.2456252 -103.2456252
0,000.0	11.00	1.0.71	5,5 <u>2</u> 4.0	500.1	52.0	0.0,021.00	373, 140.00	02.0220100	100.2400202



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

Site: AMEN CORNER ST COM PROJECT Well: AMEN CORNER ST COM 26 36 27 #74H

Wellbore: OWB

PWP Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Database:

Well AMEN CORNER ST COM 26 36 27 #74H

KB=25' @ 2931.0usft

KB=25' @ 2931.0usft

Minimum Curvature

Planned Surv	ey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,975.0		179.41	8,948.6	560.2	-92.8	373,622.33	878,440.58	32.0225033	-103.2456252
9,000.0		179.41	8,972.7	553.3	-92.8	373,615.52	878,440.65	32.0224845	-103.2456252
9,025.0		179.41	8,996.4	545.3	-92.7	373,607.45	878,440.74	32.0224624	-103.2456252
9,050.0		179.41	9,019.6	536.0	-92.6	373,598.16	878,440.83	32.0224368	-103.2456252
9,075.0		179.41	9,042.2	525.5	-92.5	373,587.66	878,440.94	32.0224080	-103.2456252
9,100.0		179.41	9,064.4	513.8	-92.4	373,575.99	878,441.06	32.0223759	-103.2456252
9,125.0		179.41	9,085.8	501.0	-92.2	373,563.18	878,441.20	32.0223407	-103.2456252
9,150.0 9,175.0		179.41 179.41	9,106.6 9,126.6	487.1 472.1	-92.1 -91.9	373,549.27 373,534.29	878,441.34 878,441.50	32.0223024 32.0222613	-103.2456252 -103.2456251
9,200.0		179.41	9,145.8	456.1	-91.9 -91.8	373,518.28	878,441.66	32.0222013	-103.2456251
9,225.0		179.41	9,143.6	430.1	-91.6	373,501.29	878,441.84	32.022173	-103.2456251
9,250.0		179.41	9,181.5	421.2	-91.4	373,483.36	878,442.02	32.0221703	-103.2456251
9,275.0		179.41	9,198.0	402.4	-91.2	373,464.54	878,442.22	32.0220695	-103.2456251
9,300.0		179.41	9,213.5	382.7	-91.0	373,444.89	878,442.42	32.0220155	-103.2456251
9,325.0		179.41	9,227.9	362.3	-90.8	373,424.46	878,442.63	32.0219594	-103.2456250
9,350.0		179.41	9,241.2	341.1	-90.6	373,403.31	878,442.85	32.0219012	-103.2456250
9,375.0		179.41	9,253.3	319.3	-90.4	373,381.48	878,443.08	32.0218412	-103.2456250
9,400.0		179.41	9,264.4	296.9	-90.1	373,359.05	878,443.31	32.0217796	-103.2456250
9,425.0	68.33	179.41	9,274.2	273.9	-89.9	373,336.07	878,443.55	32.0217164	-103.2456250
9,450.0	71.33	179.41	9,282.8	250.4	-89.6	373,312.61	878,443.79	32.0216519	-103.2456249
9,475.0	74.33	179.41	9,290.2	226.5	-89.4	373,288.72	878,444.04	32.0215863	-103.2456249
9,500.0		179.41	9,296.3	202.3	-89.1	373,264.49	878,444.29	32.0215196	-103.2456249
9,507.9	78.27	179.41	9,298.0	194.6	-89.1	373,256.77	878,444.37	32.0214984	-103.2456249
First B	one Spring								
9,525.0		179.41	9,301.2	177.8	-88.9	373,239.97	878,444.55	32.0214522	-103.2456249
9,550.0		179.41	9,304.7	153.0	-88.6	373,215.23	878,444.80	32.0213842	-103.2456248
9,575.0		179.41	9,307.0	128.2	-88.4	373,190.33	878,445.06	32.0213158	-103.2456248
9,600.0		179.41	9,307.9	103.2	-88.1	373,165.35	878,445.32	32.0212471	-103.2456248
9,605.6		179.41	9,308.0	97.6	-88.1	373,159.74	878,445.38	32.0212317	-103.2456248
	rt 7557.5 hol								
9,700.0		179.41	9,308.0	3.2	-87.1	373,065.36	878,446.35	32.0209723	-103.2456247
9,800.0		179.41	9,308.0	-96.8	-86.0	372,965.36	878,447.39	32.0206974	-103.2456246
9,900.0		179.41	9,308.0	-196.8	-85.0	372,865.37	878,448.43	32.0204225	-103.2456245
10,000.0		179.41	9,308.0	-296.8	-84.0	372,765.38 372,665.38	878,449.46	32.0201477 32.0198728	-103.2456244
10,100.0 10,200.0		179.41 179.41	9,308.0 9,308.0	-396.8 -496.8	-82.9 -81.9	372,565.38 372,565.39	878,450.50 878,451.53	32.0195980	-103.2456243 -103.2456242
10,200.0		179.41	9,308.0	-490.8 -596.8	-81.9 -80.9	372,465.39	878,452.57	32.0193231	-103.2456241
10,400.0		179.41	9,308.0	-696.8	-79.8	372,365.40	878,453.61	32.0190482	-103.2456240
10,500.0		179.41	9,308.0	-796.8	-79.8 -78.8	372,265.40	878,454.64	32.0187734	-103.2456239
10,600.0		179.41	9,308.0	-896.8	-77.8	372,165.41	878,455.68	32.0184985	-103.2456239
10,700.0		179.41	9,308.0	-996.8	-76.7	372,065.41	878,456.71	32.0182236	-103.2456238
10,800.0		179.41	9,308.0	-1,096.8	-75.7	371,965.42	878,457.75	32.0179488	-103.2456237
10,900.0		179.41	9,308.0	-1,196.8	-74.6	371,865.42	878,458.79	32.0176739	-103.2456236
11,000.0		179.41	9,308.0	-1,296.8	-73.6	371,765.43	878,459.82	32.0173990	-103.2456235
11,100.0		179.41	9,308.0	-1,396.7	-72.6	371,665.43	878,460.86	32.0171242	-103.2456234
11,200.0		179.41	9,308.0	-1,496.7	-71.5	371,565.44	878,461.89	32.0168493	-103.2456233
11,300.0		179.41	9,308.0	-1,596.7	-70.5	371,465.45	878,462.93	32.0165745	-103.2456232
11,400.0	90.00	179.41	9,308.0	-1,696.7	-69.5	371,365.45	878,463.96	32.0162996	-103.2456231
11,500.0		179.41	9,308.0	-1,796.7	-68.4	371,265.46	878,465.00	32.0160247	-103.2456230
11,600.0	90.00	179.41	9,308.0	-1,896.7	-67.4	371,165.46	878,466.04	32.0157499	-103.2456229
11,700.0		179.41	9,308.0	-1,996.7	-66.4	371,065.47	878,467.07	32.0154750	-103.2456228
11,800.0		179.41	9,308.0	-2,096.7	-65.3	370,965.47	878,468.11	32.0152001	-103.2456227
11,900.0		179.41	9,308.0	-2,196.7	-64.3	370,865.48	878,469.14	32.0149253	-103.2456226
12,000.0		179.41	9,308.0	-2,296.7	-63.3	370,765.48	878,470.18	32.0146504	-103.2456225
12,100.0	90.00	179.41	9,308.0	-2,396.7	-62.2	370,665.49	878,471.22	32.0143755	-103.2456224
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Company: Ameredev Operating Project: Lea County, NM (N83-NME)

Site: AMEN CORNER ST COM PROJECT Well: AMEN CORNER ST COM 26 36 27 #74H

Wellbore: OWB

PWP Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

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Well AMEN CORNER ST COM 26 36 27 #74H

KB=25' @ 2931.0usft

KB=25' @ 2931.0usft

Minimum Curvature

Planned Surve	еу								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,200.0	90.00	179.41	9,308.0	-2,496.7	-61.2	370,565.49	878,472.25	32.0141007	-103.2456223
12,300.0	90.00	179.41	9,308.0	-2,596.7	-60.1	370,465.50	878,473.29	32.0138258	-103.2456222
12,400.0	90.00 90.00	179.41	9,308.0	-2,696.7	-59.1	370,365.50	878,474.32	32.0135509	-103.2456221
12,500.0 12,600.0	90.00	179.41 179.41	9,308.0 9,308.0	-2,796.7 -2,896.7	-58.1 -57.0	370,265.51 370,165.52	878,475.36 878,476.40	32.0132761 32.0130012	-103.2456221 -103.2456220
12,700.0	90.00	179.41	9,308.0	-2,090.7 -2,996.7	-56.0	370,065.52	878,477.43	32.0127264	-103.2456219
12,800.0	90.00	179.41	9,308.0	-3,096.7	-55.0	369,965.53	878,478.47	32.0124515	-103.2456218
12,900.0	90.00	179.41	9,308.0	-3,196.6	-53.9	369,865.53	878,479.50	32.0121766	-103.2456217
13,000.0	90.00	179.41	9,308.0	-3,296.6	- 52.9	369,765.54	878,480.54	32.0119018	-103.2456216
13,100.0	90.00	179.41	9,308.0	-3,396.6	-51.9	369,665.54	878,481.58	32.0116269	-103.2456215
13,200.0	90.00	179.41	9,308.0	-3,496.6	-50.8	369,565.55	878,482.61	32.0113520	-103.2456214
13,300.0	90.00	179.41	9,308.0	-3,596.6	-49.8	369,465.55	878,483.65	32.0110772	-103.2456213
13,400.0	90.00	179.41	9,308.0	-3,696.6	-48.7	369,365.56	878,484.68	32.0108023	-103.2456212
13,500.0 13,600.0	90.00 90.00	179.41 179.41	9,308.0 9,308.0	-3,796.6 -3,896.6	-47.7 -46.7	369,265.56 369,165.57	878,485.72 878,486.75	32.0105274 32.0102526	-103.2456211 -103.2456210
13,700.0	90.00	179.41	9,308.0	-3,996.6	-40.7 -45.6	369,065.57	878,487.79	32.0099777	-103.2456209
13,800.0	90.00	179.41	9,308.0	-4,096.6	-44.6	368,965.58	878,488.83	32.0097029	-103.2456208
13,900.0	90.00	179.41	9,308.0	-4,196.6	-43.6	368,865.58	878,489.86	32.0094280	-103.2456207
14,000.0	90.00	179.41	9,308.0	-4,296.6	-42.5	368,765.59	878,490.90	32.0091531	-103.2456206
14,100.0	90.00	179.41	9,308.0	-4,396.6	-41.5	368,665.60	878,491.93	32.0088783	-103.2456205
14,200.0	90.00	179.41	9,308.0	-4,496.6	-40.5	368,565.60	878,492.97	32.0086034	-103.2456204
14,300.0	90.00	179.41	9,308.0	-4,596.6	-39.4	368,465.61	878,494.01	32.0083285	-103.2456203
14,400.0	90.00	179.41	9,308.0	-4,696.6	-38.4	368,365.61	878,495.04	32.0080537	-103.2456202
14,500.0 14,600.0	90.00 90.00	179.41 179.41	9,308.0 9,308.0	-4,796.6 -4,896.6	-37.4 -36.3	368,265.62 368,165.62	878,496.08 878,497.11	32.0077788 32.0075039	-103.2456201 -103.2456201
14,700.0	90.00	179.41	9,308.0	-4,996.6	-35.3	368,065.63	878,498.15	32.0073039	-103.2456200
14,800.0	90.00	179.41	9,308.0	-5,096.5	-34.2	367,965.63	878,499.19	32.0069542	-103.2456199
14,900.0	90.00	179.41	9,308.0	-5,196.5	-33.2	367,865.64	878,500.22	32.0066793	-103.2456198
15,000.0	90.00	179.41	9,308.0	-5,296.5	-32.2	367,765.64	878,501.26	32.0064045	-103.2456197
15,100.0	90.00	179.41	9,308.0	-5,396.5	-31.1	367,665.65	878,502.29	32.0061296	-103.2456196
15,200.0	90.00	179.41	9,308.0	-5,496.5	-30.1	367,565.65	878,503.33	32.0058548	-103.2456195
15,300.0	90.00	179.41	9,308.0	-5,596.5	-29.1	367,465.66	878,504.37	32.0055799	-103.2456194
15,400.0	90.00 90.00	179.41 179.41	9,308.0	-5,696.5 -5,796.5	-28.0	367,365.67 367,265.67	878,505.40	32.0053050	-103.2456193
15,500.0 15,600.0	90.00	179.41	9,308.0 9,308.0	-5,796.5 -5,896.5	-27.0 -26.0	367,165.68	878,506.44 878,507.47	32.0050302 32.0047553	-103.2456192 -103.2456191
15,700.0	90.00	179.41	9,308.0	-5,996.5	-24.9	367,065.68	878,508.51	32.0044804	-103.2456190
15,800.0	90.00	179.41	9,308.0	-6,096.5	-23.9	366,965.69	878,509.54	32.0042056	-103.2456189
15,900.0	90.00	179.41	9,308.0	-6,196.5	-22.8	366,865.69	878,510.58	32.0039307	-103.2456188
16,000.0	90.00	179.41	9,308.0	-6,296.5	-21.8	366,765.70	878,511.62	32.0036558	-103.2456187
16,100.0	90.00	179.41	9,308.0	-6,396.5	-20.8	366,665.70	878,512.65	32.0033810	-103.2456186
16,200.0	90.00	179.41	9,308.0	-6,496.5	-19.7	366,565.71	878,513.69	32.0031061	-103.2456185
16,300.0	90.00	179.41	9,308.0	-6,596.5	-18.7	366,465.71	878,514.72	32.0028312	-103.2456184
16,400.0	90.00	179.41	9,308.0	-6,696.5	-17.7	366,365.72	878,515.76 878,516.80	32.0025564	-103.2456183
16,500.0 16,600.0	90.00 90.00	179.41 179.41	9,308.0 9,308.0	-6,796.5 -6,896.5	-16.6 -15.6	366,265.72 366,165.73	878,516.80 878,517.83	32.0022815 32.0020066	-103.2456182 -103.2456181
16,700.0	90.00	179.41	9,308.0	-6,996.4	-13.6 -14.6	366,065.73	878,518.87	32.0020000	-103.2456180
16,800.0	90.00	179.41	9,308.0	-7,096.4	-13.5	365,965.74	878,519.90	32.0017510	-103.2456179
16,900.0	90.00	179.41	9,308.0	-7,196.4	-12.5	365,865.75	878,520.94	32.0011821	-103.2456178
17,000.0	90.00	179.41	9,308.0	-7,296.4	-11.5	365,765.75	878,521.98	32.0009072	-103.2456178
17,100.0	90.00	179.41	9,308.0	-7,396.4	-10.4	365,665.76	878,523.01	32.0006323	-103.2456177
17,163.1	90.00	179.41	9,308.0	-7,459.5	-9.8	365,602.67	878,523.67	32.0004589	-103.2456176
TD at 1	7163.1								



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

Site: AMEN CORNER ST COM PROJECT
Well: AMEN CORNER ST COM 26 36 27 #74H

Wellbore: OWB
Design: PWP

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Database:

Well AMEN CORNER ST COM 26 36 27 #74H

KB=25' @ 2931.0usft

KB=25' @ 2931.0usft

Minimum Curvature

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 #74H) - plan misses targ - Point	0.00 et center by		9,308.0 17100.0usf	-7,409.5 t MD (9308.0	-10.2 0 TVD, -7396	365,652.70 6.4 N, -10.4 E)	878,523.19	32.0005964	-103.2456175
FTP (ACSC #74H) - plan misses targ - Point	0.00 et center by		9,308.0 603.9usft M	99.4 ID (9308.0 T	-81.0 VD, 99.3 N,	373,161.56 -88.1 E)	878,452.46	32.0212365	-103.2456019
BHL (ACSC #74H) - plan hits target of Point	0.00 enter	0.00	9,308.0	-7,459.5	-9.8	365,602.67	878,523.67	32.0004589	-103.2456176

Formations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	2,019.2	2,016.0	Rustler				
	2,355.5	2,351.0	Salado				
	2,937.7	2,931.0	Dewey Lake				
	3,179.7	3,172.0	Tansill				
	3,756.9	3,747.0	Capitan				
	5,018.7	5,004.0	Lamar				
	5,290.7	5,275.0	Bell Canyon				
	6,696.0	6,675.0	Brushy Canyon				
	7,477.0	7,453.0	Bone Spring Lime				
	9,507.9	9,298.0	First Bone Spring				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	rdinates +E/-W (usft)	Comment
1000	1000	0	0	Start Build 2.00
1250	1250	11	-2	Start 6433.0 hold at 1250.0 MD
7683	7658	564	-91	Start Drop -2.00
7933	7908	575	-93	Start 922.7 hold at 7933.0 MD
8856	8831	575	-93	KOP-Start DLS 12.00 TFO 179.41
9606	9308	98	-88	LP-Start 7557.5 hold at 9605.6 MD
17,163	9308	-7460	-10	TD at 17163.1

Checked By:	Approved By:	Date:	
-	11		



H₂S Drilling Operation Plan

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

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

2. Briefing Area:

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

3. H₂S Detection and Alarm Systems:

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

4. Protective Equipment for Essential Personnel:

a. Breathing Apparatus:

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

b. Auxiliary Rescue Equipment:

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

5. Windsock and/or Wind Streamers:

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

6. Communication:

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



H₂S Drilling Operation Plan

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

8. Mud program:

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

9. Metallurgy:

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



H₂S Contingency Plan

Emergency Procedures

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

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

Ignition of Gas Source

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

Characteristics of H₂S and SO₂

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

Contacting Authorities

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



H₂S Contingency Plan

Ameredev Operating LLC – Emergency Phone 737-300-4799								
Key Personnel:	Key Personnel:							
Name	Title	Office	Mobile					
Floyd Hammond	Chief Operating officer	737-300-4724	512-783-6810					
Shane McNeely	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
Carlsbad	
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
Santa Fe	
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
Medical	
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