

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMNM127447

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
PAR THREE FED COM 25 36 06 114H9. API Well No.
30-025-46945-00-X110. Field and Pool or Exploratory Area
JAL; WOLFCAMP, WEST11. County or Parish, State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

AMEREDEV OPERATING LLC

Contact: CHRISTIE HANNA

E-Mail: CHANNA@AMEREDEV.COM

3a. Address

2901 VIA FORTUNA SUITE 600
AUSTIN, TX 78746

3b. Phone No. (include area code)

Ph: 7373004723

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 6 T25S R36E NENW 200FNL 2348FWL
32.166157 N Lat, 103.305122 W Lon

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

REQUEST TO RELOCATE BHL:

AMEREDEV REQUESTS A RELOCATION OF THE BOTTOM HOLE TO:
SEC: 07 TWP:25S RANGE:36E FOOTAGE:50'FSL 2310'FWL
LAT:32.1377952 LONG:-103.3052574

REVISED C-102 PLAT AND DIRECTIONAL PLAN ATTACHED.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #538381 verified by the BLM Well Information System
For AMEREDEV OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 11/30/2020 (21PP0634SE)

Name (Printed/Typed) SHANE MCNEELY

Title ENGINEER

Signature (Electronic Submission)

Date 11/23/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USEApproved By **ACCEPTED**ALLISON MORENCY
Title PETROLEUM ENGINEER

Date 12/14/2020

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

KZ

Revisions to Operator-Submitted EC Data for Sundry Notice #538381

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH SR	APDCH SR
Lease:	NMNM127447	NMNM127447
Agreement:		
Operator:	AMEREDEV OPERATING, LLC 2901 VIA FORTUNA SUITE 600 AUSTIN, TX 78746 Ph: 737-300-4700	AMEREDEV OPERATING LLC 2901 VIA FORTUNA SUITE 600 AUSTIN, TX 78746 Ph: 737-300-4700
Admin Contact:	CHRISTIE HANNA REGULATORY COORDINATOR E-Mail: channa@ameredev.com Ph: 737-300-4723 Fx: 737-300-4701	CHRISTIE HANNA SENIOR ENGINEERING TECHNICIAN E-Mail: CHANNA@AMEREDEV.COM Ph: 7373004723
Tech Contact:	SHANE MCNEELY ENGINEER E-Mail: smcneely@ameredev.com Ph: 737-300-4729 Fx: 737-300-4701	SHANE MCNEELY ENGINEER E-Mail: smcneely@ameredev.com Ph: 737-300-4729 Fx: 737-300-4701
Location:		
State:	NM	NM
County:	LEA	LEA
Field/Pool:	JAL WOLFCAMP WEST (33813)	JAL; WOLFCAMP, WEST
Well/Facility:	PAR THREE FED COM 25 36 06 114H Sec 6 T25S R36E Mer NMP 200FNL 2348FWL 32.166154 N Lat, 103.305120 W Lon	PAR THREE FED COM 25 36 06 114H Sec 6 T25S R36E NENW 200FNL 2348FWL 32.166157 N Lat, 103.305122 W Lon

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

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

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- 46945	² Pool Code 33813	³ Pool Name Jal; Wolfcamp, West
⁴ Property Code 327173	⁵ Property Name PAR THREE FED COM 25 36 06	⁶ Well Number 114H
⁷ OGRID No. 372224	⁸ Operator Name AMEREDEV OPERATING, LLC.	⁹ Elevation 3324'

¹⁰Surface Location

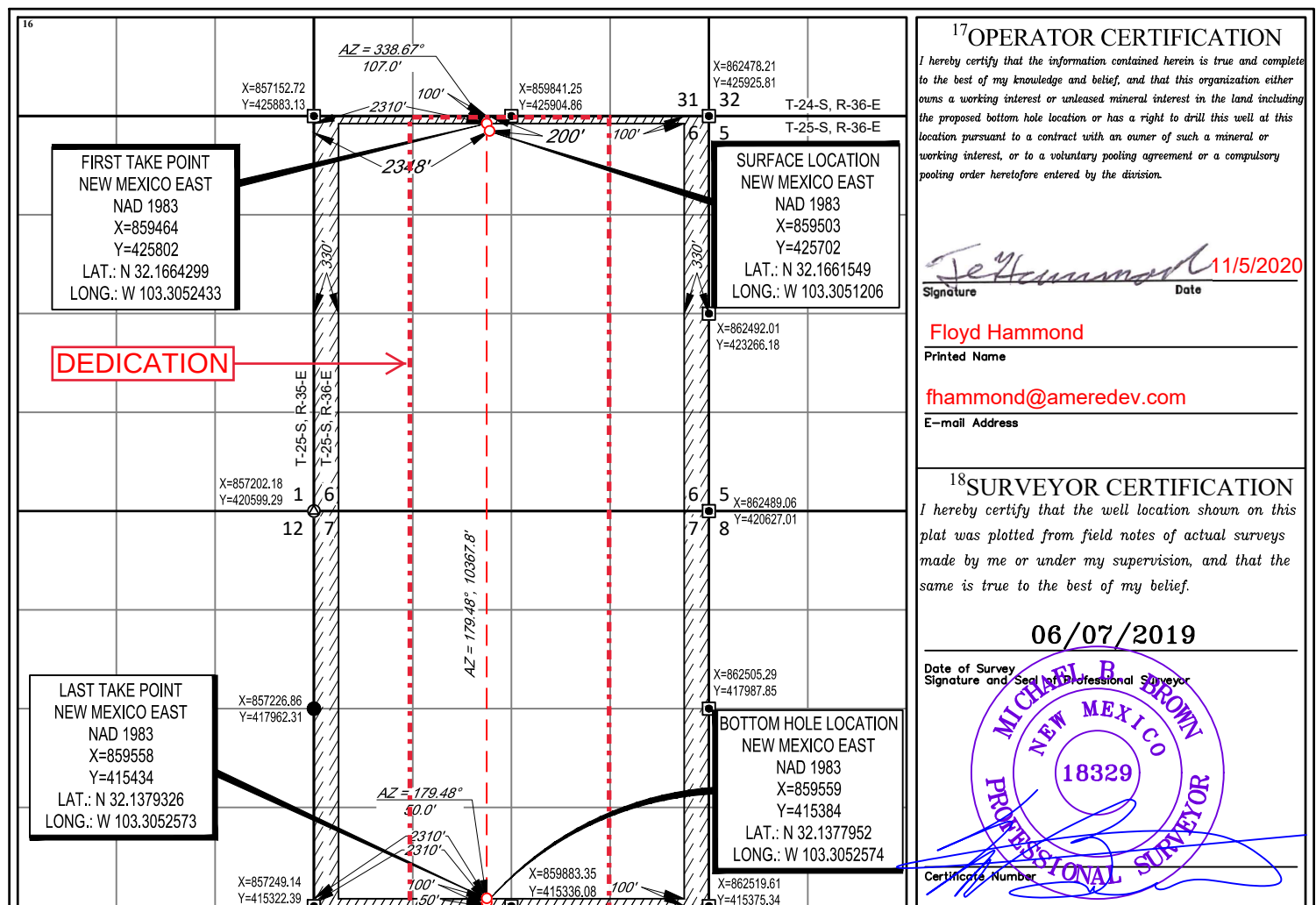
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	6	25-S	36-E	-	200'	NORTH	2348'	WEST	LEA

¹¹Bottom 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
N	7	25-S	36-E	-	50'	SOUTH	2310'	WEST	LEA

¹² Dedicated Acres 640.52	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.





Ameredev Operating, LLC.

Par Three

Par Three 1-4

Par Three 114H

Wellbore #1

Plan: Design #1

Standard Planning Report

05 November, 2020



Ameredev Operating, LLC

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Par Three 114H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3351.0usft
Project:	Par Three	MD Reference:	KB @ 3351.0usft
Site:	Par Three 1-4	North Reference:	Grid
Well:	Par Three 114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Par Three		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Par Three 1-4			
Site Position:		Northing:	425,701.47 usft	Latitude:	32° 9' 58.159 N
From:	Lat/Long	Easting:	859,422.51 usft	Longitude:	103° 18' 19.365 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.55 °

Well	Par Three 114H					
Well Position	+N/-S	0.7 usft	Northing:	425,702.12 usft	Latitude:	32° 9' 58.158 N
	+E/-W	80.0 usft	Easting:	859,502.50 usft	Longitude:	103° 18' 18.434 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,324.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/4/2020	6.45	60.00	47,583.89202227

Design	Design #1			
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	179.69

Plan Survey Tool Program	Date	11/5/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,687.1	Design #1 (Wellbore #1)	MWD
				OWSG MWD - Standard

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	
2,300.0	6.00	340.00	2,299.5	14.7	-5.4	2.00	2.00	0.00	340.00	
7,830.8	6.00	340.00	7,800.0	558.0	-203.1	0.00	0.00	0.00	0.00	
8,130.8	0.00	0.00	8,099.5	572.8	-208.5	2.00	-2.00	0.00	180.00	
11,331.4	0.00	0.00	11,300.0	572.8	-208.5	0.00	0.00	0.00	0.00	
11,473.0	16.84	73.21	11,439.6	578.7	-188.7	11.89	11.89	0.00	73.21	
12,269.3	90.00	179.48	11,940.0	99.7	-38.9	11.89	9.19	13.35	105.60	Par Three 114 FTP
22,687.1	90.00	179.48	11,940.0	-10,317.7	56.2	0.00	0.00	0.00	0.00	Par Three 114 BHL



Ameredev Operating, LLC

Planning Report

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Project:	Par Three	MD Reference:	KB @ 3351.0usft
Site:	Par Three 1-4	North Reference:	Grid
Well:	Par Three 114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	2.00	340.00	2,100.0	1.6	-0.6	-1.6	2.00	2.00	0.00
2,200.0	4.00	340.00	2,199.8	6.6	-2.4	-6.6	2.00	2.00	0.00
2,300.0	6.00	340.00	2,299.5	14.7	-5.4	-14.8	2.00	2.00	0.00
2,400.0	6.00	340.00	2,398.9	24.6	-8.9	-24.6	0.00	0.00	0.00
2,500.0	6.00	340.00	2,498.4	34.4	-12.5	-34.5	0.00	0.00	0.00
2,600.0	6.00	340.00	2,597.8	44.2	-16.1	-44.3	0.00	0.00	0.00
2,700.0	6.00	340.00	2,697.3	54.0	-19.7	-54.1	0.00	0.00	0.00
2,800.0	6.00	340.00	2,796.7	63.9	-23.2	-64.0	0.00	0.00	0.00
2,900.0	6.00	340.00	2,896.2	73.7	-26.8	-73.8	0.00	0.00	0.00
3,000.0	6.00	340.00	2,995.6	83.5	-30.4	-83.7	0.00	0.00	0.00
3,100.0	6.00	340.00	3,095.1	93.3	-34.0	-93.5	0.00	0.00	0.00
3,200.0	6.00	340.00	3,194.5	103.1	-37.5	-103.4	0.00	0.00	0.00
3,300.0	6.00	340.00	3,294.0	113.0	-41.1	-113.2	0.00	0.00	0.00
3,400.0	6.00	340.00	3,393.4	122.8	-44.7	-123.0	0.00	0.00	0.00
3,500.0	6.00	340.00	3,492.9	132.6	-48.3	-132.9	0.00	0.00	0.00
3,600.0	6.00	340.00	3,592.3	142.4	-51.8	-142.7	0.00	0.00	0.00
3,700.0	6.00	340.00	3,691.8	152.3	-55.4	-152.6	0.00	0.00	0.00
3,800.0	6.00	340.00	3,791.2	162.1	-59.0	-162.4	0.00	0.00	0.00
3,900.0	6.00	340.00	3,890.7	171.9	-62.6	-172.2	0.00	0.00	0.00
4,000.0	6.00	340.00	3,990.1	181.7	-66.1	-182.1	0.00	0.00	0.00
4,100.0	6.00	340.00	4,089.6	191.6	-69.7	-191.9	0.00	0.00	0.00
4,200.0	6.00	340.00	4,189.0	201.4	-73.3	-201.8	0.00	0.00	0.00
4,300.0	6.00	340.00	4,288.5	211.2	-76.9	-211.6	0.00	0.00	0.00
4,400.0	6.00	340.00	4,387.9	221.0	-80.4	-221.5	0.00	0.00	0.00
4,500.0	6.00	340.00	4,487.4	230.8	-84.0	-231.3	0.00	0.00	0.00
4,600.0	6.00	340.00	4,586.9	240.7	-87.6	-241.1	0.00	0.00	0.00
4,700.0	6.00	340.00	4,686.3	250.5	-91.2	-251.0	0.00	0.00	0.00
4,800.0	6.00	340.00	4,785.8	260.3	-94.7	-260.8	0.00	0.00	0.00
4,900.0	6.00	340.00	4,885.2	270.1	-98.3	-270.7	0.00	0.00	0.00
5,000.0	6.00	340.00	4,984.7	280.0	-101.9	-280.5	0.00	0.00	0.00
5,100.0	6.00	340.00	5,084.1	289.8	-105.5	-290.3	0.00	0.00	0.00
5,200.0	6.00	340.00	5,183.6	299.6	-109.0	-300.2	0.00	0.00	0.00
5,300.0	6.00	340.00	5,283.0	309.4	-112.6	-310.0	0.00	0.00	0.00



Ameredev Operating, LLC

Planning Report

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Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,400.0	6.00	340.00	5,382.5	319.2	-116.2	-319.9	0.00	0.00	0.00	
5,500.0	6.00	340.00	5,481.9	329.1	-119.8	-329.7	0.00	0.00	0.00	
5,600.0	6.00	340.00	5,581.4	338.9	-123.3	-339.6	0.00	0.00	0.00	
5,700.0	6.00	340.00	5,680.8	348.7	-126.9	-349.4	0.00	0.00	0.00	
5,800.0	6.00	340.00	5,780.3	358.5	-130.5	-359.2	0.00	0.00	0.00	
5,900.0	6.00	340.00	5,879.7	368.4	-134.1	-369.1	0.00	0.00	0.00	
6,000.0	6.00	340.00	5,979.2	378.2	-137.6	-378.9	0.00	0.00	0.00	
6,100.0	6.00	340.00	6,078.6	388.0	-141.2	-388.8	0.00	0.00	0.00	
6,200.0	6.00	340.00	6,178.1	397.8	-144.8	-398.6	0.00	0.00	0.00	
6,300.0	6.00	340.00	6,277.5	407.6	-148.4	-408.4	0.00	0.00	0.00	
6,400.0	6.00	340.00	6,377.0	417.5	-151.9	-418.3	0.00	0.00	0.00	
6,500.0	6.00	340.00	6,476.4	427.3	-155.5	-428.1	0.00	0.00	0.00	
6,600.0	6.00	340.00	6,575.9	437.1	-159.1	-438.0	0.00	0.00	0.00	
6,700.0	6.00	340.00	6,675.3	446.9	-162.7	-447.8	0.00	0.00	0.00	
6,800.0	6.00	340.00	6,774.8	456.8	-166.2	-457.7	0.00	0.00	0.00	
6,900.0	6.00	340.00	6,874.3	466.6	-169.8	-467.5	0.00	0.00	0.00	
7,000.0	6.00	340.00	6,973.7	476.4	-173.4	-477.3	0.00	0.00	0.00	
7,100.0	6.00	340.00	7,073.2	486.2	-177.0	-487.2	0.00	0.00	0.00	
7,200.0	6.00	340.00	7,172.6	496.0	-180.5	-497.0	0.00	0.00	0.00	
7,300.0	6.00	340.00	7,272.1	505.9	-184.1	-506.9	0.00	0.00	0.00	
7,400.0	6.00	340.00	7,371.5	515.7	-187.7	-516.7	0.00	0.00	0.00	
7,500.0	6.00	340.00	7,471.0	525.5	-191.3	-526.5	0.00	0.00	0.00	
7,600.0	6.00	340.00	7,570.4	535.3	-194.8	-536.4	0.00	0.00	0.00	
7,700.0	6.00	340.00	7,669.9	545.2	-198.4	-546.2	0.00	0.00	0.00	
7,800.0	6.00	340.00	7,769.3	555.0	-202.0	-556.1	0.00	0.00	0.00	
7,830.8	6.00	340.00	7,800.0	558.0	-203.1	-559.1	0.00	0.00	0.00	
7,900.0	4.62	340.00	7,868.9	564.0	-205.3	-565.1	2.00	-2.00	0.00	
8,000.0	2.62	340.00	7,968.7	570.0	-207.4	-571.1	2.00	-2.00	0.00	
8,100.0	0.62	340.00	8,068.6	572.6	-208.4	-573.7	2.00	-2.00	0.00	
8,130.8	0.00	0.00	8,099.5	572.8	-208.5	-573.9	2.00	-2.00	0.00	
8,200.0	0.00	0.00	8,168.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,268.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,368.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,468.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,568.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,668.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,768.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,868.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,968.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,068.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,168.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,268.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,368.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,468.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,568.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,668.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,768.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,868.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,968.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,068.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,168.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,268.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,368.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,468.6	572.8	-208.5	-573.9	0.00	0.00	0.00	



Ameredev Operating, LLC

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Par Three 114H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3351.0usft
Project:	Par Three	MD Reference:	KB @ 3351.0usft
Site:	Par Three 1-4	North Reference:	Grid
Well:	Par Three 114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,600.0	0.00	0.00	10,568.6	572.8	-208.5	-573.9	0.00	0.00	0.00
10,700.0	0.00	0.00	10,668.6	572.8	-208.5	-573.9	0.00	0.00	0.00
10,800.0	0.00	0.00	10,768.6	572.8	-208.5	-573.9	0.00	0.00	0.00
10,900.0	0.00	0.00	10,868.6	572.8	-208.5	-573.9	0.00	0.00	0.00
11,000.0	0.00	0.00	10,968.6	572.8	-208.5	-573.9	0.00	0.00	0.00
11,100.0	0.00	0.00	11,068.6	572.8	-208.5	-573.9	0.00	0.00	0.00
11,200.0	0.00	0.00	11,168.6	572.8	-208.5	-573.9	0.00	0.00	0.00
11,300.0	0.00	0.00	11,268.6	572.8	-208.5	-573.9	0.00	0.00	0.00
11,331.4	0.00	0.00	11,300.0	572.8	-208.5	-573.9	0.00	0.00	0.00
PT114 KOP									
11,400.0	8.16	73.21	11,368.4	574.2	-203.8	-575.3	11.89	11.89	0.00
11,473.0	16.84	73.21	11,439.6	578.7	-188.7	-579.7	11.89	11.89	0.00
11,500.0	16.26	84.30	11,465.5	580.2	-181.2	-581.2	11.89	-2.13	41.12
11,600.0	19.20	122.92	11,561.0	572.7	-153.4	-573.5	11.89	2.93	38.62
11,700.0	27.34	145.29	11,653.0	544.7	-126.4	-545.4	11.89	8.14	22.37
11,800.0	37.43	157.17	11,737.4	497.7	-101.4	-498.2	11.89	10.09	11.88
11,900.0	48.25	164.45	11,810.7	433.5	-79.5	-433.9	11.89	10.82	7.28
12,000.0	59.40	169.58	11,869.6	355.0	-61.7	-355.3	11.89	11.15	5.13
12,100.0	70.71	173.64	11,911.7	265.4	-48.6	-265.7	11.89	11.31	4.06
12,200.0	82.09	177.16	11,935.2	168.7	-40.9	-168.9	11.89	11.39	3.52
12,269.3	90.00	179.48	11,940.0	99.7	-38.9	-99.9	11.89	11.41	3.34
Par Three 114 FTP									
12,300.0	90.00	179.48	11,940.0	69.0	-38.6	-69.2	0.00	0.00	0.00
12,400.0	90.00	179.48	11,940.0	-31.0	-37.7	30.8	0.00	0.00	0.00
12,500.0	90.00	179.48	11,940.0	-131.0	-36.8	130.8	0.00	0.00	0.00
12,600.0	90.00	179.48	11,940.0	-231.0	-35.9	230.8	0.00	0.00	0.00
12,700.0	90.00	179.48	11,940.0	-331.0	-35.0	330.8	0.00	0.00	0.00
12,800.0	90.00	179.48	11,940.0	-431.0	-34.1	430.8	0.00	0.00	0.00
12,900.0	90.00	179.48	11,940.0	-531.0	-33.2	530.8	0.00	0.00	0.00
13,000.0	90.00	179.48	11,940.0	-631.0	-32.3	630.8	0.00	0.00	0.00
13,100.0	90.00	179.48	11,940.0	-731.0	-31.3	730.8	0.00	0.00	0.00
13,200.0	90.00	179.48	11,940.0	-831.0	-30.4	830.8	0.00	0.00	0.00
13,300.0	90.00	179.48	11,940.0	-931.0	-29.5	930.8	0.00	0.00	0.00
13,400.0	90.00	179.48	11,940.0	-1,031.0	-28.6	1,030.8	0.00	0.00	0.00
13,500.0	90.00	179.48	11,940.0	-1,131.0	-27.7	1,130.8	0.00	0.00	0.00
13,600.0	90.00	179.48	11,940.0	-1,231.0	-26.8	1,230.8	0.00	0.00	0.00
13,700.0	90.00	179.48	11,940.0	-1,331.0	-25.9	1,330.8	0.00	0.00	0.00
13,800.0	90.00	179.48	11,940.0	-1,431.0	-24.9	1,430.8	0.00	0.00	0.00
13,900.0	90.00	179.48	11,940.0	-1,531.0	-24.0	1,530.8	0.00	0.00	0.00
14,000.0	90.00	179.48	11,940.0	-1,631.0	-23.1	1,630.8	0.00	0.00	0.00
14,100.0	90.00	179.48	11,940.0	-1,731.0	-22.2	1,730.8	0.00	0.00	0.00
14,200.0	90.00	179.48	11,940.0	-1,831.0	-21.3	1,830.8	0.00	0.00	0.00
14,300.0	90.00	179.48	11,940.0	-1,931.0	-20.4	1,930.8	0.00	0.00	0.00
14,400.0	90.00	179.48	11,940.0	-2,031.0	-19.5	2,030.8	0.00	0.00	0.00
14,500.0	90.00	179.48	11,940.0	-2,131.0	-18.6	2,130.8	0.00	0.00	0.00
14,600.0	90.00	179.48	11,940.0	-2,230.9	-17.6	2,230.8	0.00	0.00	0.00
14,700.0	90.00	179.48	11,940.0	-2,330.9	-16.7	2,330.8	0.00	0.00	0.00
14,800.0	90.00	179.48	11,940.0	-2,430.9	-15.8	2,430.8	0.00	0.00	0.00
14,809.7	90.00	179.48	11,940.0	-2,440.6	-15.7	2,440.5	0.00	0.00	0.00
PT114 into NMNM127447									
14,900.0	90.00	179.48	11,940.0	-2,530.9	-14.9	2,530.8	0.00	0.00	0.00
15,000.0	90.00	179.48	11,940.0	-2,630.9	-14.0	2,630.8	0.00	0.00	0.00
15,100.0	90.00	179.48	11,940.0	-2,730.9	-13.1	2,730.8	0.00	0.00	0.00



Ameredev Operating, LLC

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Par Three 114H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3351.0usft
Project:	Par Three	MD Reference:	KB @ 3351.0usft
Site:	Par Three 1-4	North Reference:	Grid
Well:	Par Three 114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,200.0	90.00	179.48	11,940.0	-2,830.9	-12.2	2,830.8	0.00	0.00	0.00
15,300.0	90.00	179.48	11,940.0	-2,930.9	-11.3	2,930.8	0.00	0.00	0.00
15,400.0	90.00	179.48	11,940.0	-3,030.9	-10.3	3,030.8	0.00	0.00	0.00
15,500.0	90.00	179.48	11,940.0	-3,130.9	-9.4	3,130.8	0.00	0.00	0.00
15,600.0	90.00	179.48	11,940.0	-3,230.9	-8.5	3,230.8	0.00	0.00	0.00
15,700.0	90.00	179.48	11,940.0	-3,330.9	-7.6	3,330.8	0.00	0.00	0.00
15,800.0	90.00	179.48	11,940.0	-3,430.9	-6.7	3,430.8	0.00	0.00	0.00
15,900.0	90.00	179.48	11,940.0	-3,530.9	-5.8	3,530.8	0.00	0.00	0.00
16,000.0	90.00	179.48	11,940.0	-3,630.9	-4.9	3,630.8	0.00	0.00	0.00
16,100.0	90.00	179.48	11,940.0	-3,730.9	-3.9	3,730.8	0.00	0.00	0.00
16,200.0	90.00	179.48	11,940.0	-3,830.9	-3.0	3,830.8	0.00	0.00	0.00
16,300.0	90.00	179.48	11,940.0	-3,930.9	-2.1	3,930.8	0.00	0.00	0.00
16,400.0	90.00	179.48	11,940.0	-4,030.9	-1.2	4,030.8	0.00	0.00	0.00
16,500.0	90.00	179.48	11,940.0	-4,130.9	-0.3	4,130.8	0.00	0.00	0.00
16,600.0	90.00	179.48	11,940.0	-4,230.9	0.6	4,230.8	0.00	0.00	0.00
16,700.0	90.00	179.48	11,940.0	-4,330.9	1.5	4,330.8	0.00	0.00	0.00
16,800.0	90.00	179.48	11,940.0	-4,430.9	2.4	4,430.8	0.00	0.00	0.00
16,900.0	90.00	179.48	11,940.0	-4,530.9	3.4	4,530.8	0.00	0.00	0.00
17,000.0	90.00	179.48	11,940.0	-4,630.8	4.3	4,630.8	0.00	0.00	0.00
17,100.0	90.00	179.48	11,940.0	-4,730.8	5.2	4,730.8	0.00	0.00	0.00
17,200.0	90.00	179.48	11,940.0	-4,830.8	6.1	4,830.8	0.00	0.00	0.00
17,300.0	90.00	179.48	11,940.0	-4,930.8	7.0	4,930.8	0.00	0.00	0.00
17,400.0	90.00	179.48	11,940.0	-5,030.8	7.9	5,030.8	0.00	0.00	0.00
17,500.0	90.00	179.48	11,940.0	-5,130.8	8.8	5,130.8	0.00	0.00	0.00
17,600.0	90.00	179.48	11,940.0	-5,230.8	9.7	5,230.8	0.00	0.00	0.00
17,700.0	90.00	179.48	11,940.0	-5,330.8	10.7	5,330.8	0.00	0.00	0.00
17,800.0	90.00	179.48	11,940.0	-5,430.8	11.6	5,430.8	0.00	0.00	0.00
17,900.0	90.00	179.48	11,940.0	-5,530.8	12.5	5,530.8	0.00	0.00	0.00
18,000.0	90.00	179.48	11,940.0	-5,630.8	13.4	5,630.8	0.00	0.00	0.00
18,100.0	90.00	179.48	11,940.0	-5,730.8	14.3	5,730.8	0.00	0.00	0.00
18,200.0	90.00	179.48	11,940.0	-5,830.8	15.2	5,830.8	0.00	0.00	0.00
18,300.0	90.00	179.48	11,940.0	-5,930.8	16.1	5,930.8	0.00	0.00	0.00
18,400.0	90.00	179.48	11,940.0	-6,030.8	17.1	6,030.8	0.00	0.00	0.00
18,500.0	90.00	179.48	11,940.0	-6,130.8	18.0	6,130.8	0.00	0.00	0.00
18,600.0	90.00	179.48	11,940.0	-6,230.8	18.9	6,230.8	0.00	0.00	0.00
18,700.0	90.00	179.48	11,940.0	-6,330.8	19.8	6,330.8	0.00	0.00	0.00
18,800.0	90.00	179.48	11,940.0	-6,430.8	20.7	6,430.8	0.00	0.00	0.00
18,900.0	90.00	179.48	11,940.0	-6,530.8	21.6	6,530.8	0.00	0.00	0.00
19,000.0	90.00	179.48	11,940.0	-6,630.8	22.5	6,630.8	0.00	0.00	0.00
19,100.0	90.00	179.48	11,940.0	-6,730.8	23.4	6,730.8	0.00	0.00	0.00
19,200.0	90.00	179.48	11,940.0	-6,830.8	24.4	6,830.8	0.00	0.00	0.00
19,300.0	90.00	179.48	11,940.0	-6,930.8	25.3	6,930.8	0.00	0.00	0.00
19,400.0	90.00	179.48	11,940.0	-7,030.7	26.2	7,030.8	0.00	0.00	0.00
19,500.0	90.00	179.48	11,940.0	-7,130.7	27.1	7,130.8	0.00	0.00	0.00
19,600.0	90.00	179.48	11,940.0	-7,230.7	28.0	7,230.8	0.00	0.00	0.00
19,700.0	90.00	179.48	11,940.0	-7,330.7	28.9	7,330.8	0.00	0.00	0.00
19,800.0	90.00	179.48	11,940.0	-7,430.7	29.8	7,430.8	0.00	0.00	0.00
19,900.0	90.00	179.48	11,940.0	-7,530.7	30.7	7,530.8	0.00	0.00	0.00
20,000.0	90.00	179.48	11,940.0	-7,630.7	31.7	7,630.8	0.00	0.00	0.00
20,089.9	90.00	179.48	11,940.0	-7,720.6	32.5	7,720.7	0.00	0.00	0.00
PT114 into NMNM140352									
20,100.0	90.00	179.48	11,940.0	-7,730.7	32.6	7,730.8	0.00	0.00	0.00
20,200.0	90.00	179.48	11,940.0	-7,830.7	33.5	7,830.8	0.00	0.00	0.00



Ameredev Operating, LLC

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Par Three 114H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3351.0usft
Project:	Par Three	MD Reference:	KB @ 3351.0usft
Site:	Par Three 1-4	North Reference:	Grid
Well:	Par Three 114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
20,300.0	90.00	179.48	11,940.0	-7,930.7	34.4	7,930.8	0.00	0.00	0.00	
20,400.0	90.00	179.48	11,940.0	-8,030.7	35.3	8,030.8	0.00	0.00	0.00	
20,500.0	90.00	179.48	11,940.0	-8,130.7	36.2	8,130.8	0.00	0.00	0.00	
20,600.0	90.00	179.48	11,940.0	-8,230.7	37.1	8,230.8	0.00	0.00	0.00	
20,700.0	90.00	179.48	11,940.0	-8,330.7	38.1	8,330.8	0.00	0.00	0.00	
20,800.0	90.00	179.48	11,940.0	-8,430.7	39.0	8,430.8	0.00	0.00	0.00	
20,900.0	90.00	179.48	11,940.0	-8,530.7	39.9	8,530.8	0.00	0.00	0.00	
21,000.0	90.00	179.48	11,940.0	-8,630.7	40.8	8,630.8	0.00	0.00	0.00	
21,100.0	90.00	179.48	11,940.0	-8,730.7	41.7	8,730.8	0.00	0.00	0.00	
21,200.0	90.00	179.48	11,940.0	-8,830.7	42.6	8,830.8	0.00	0.00	0.00	
21,300.0	90.00	179.48	11,940.0	-8,930.7	43.5	8,930.8	0.00	0.00	0.00	
21,400.0	90.00	179.48	11,940.0	-9,030.7	44.4	9,030.8	0.00	0.00	0.00	
21,500.0	90.00	179.48	11,940.0	-9,130.7	45.4	9,130.8	0.00	0.00	0.00	
21,600.0	90.00	179.48	11,940.0	-9,230.7	46.3	9,230.8	0.00	0.00	0.00	
21,700.0	90.00	179.48	11,940.0	-9,330.7	47.2	9,330.8	0.00	0.00	0.00	
21,800.0	90.00	179.48	11,940.0	-9,430.6	48.1	9,430.8	0.00	0.00	0.00	
21,900.0	90.00	179.48	11,940.0	-9,530.6	49.0	9,530.8	0.00	0.00	0.00	
22,000.0	90.00	179.48	11,940.0	-9,630.6	49.9	9,630.8	0.00	0.00	0.00	
22,100.0	90.00	179.48	11,940.0	-9,730.6	50.8	9,730.8	0.00	0.00	0.00	
22,200.0	90.00	179.48	11,940.0	-9,830.6	51.7	9,830.8	0.00	0.00	0.00	
22,300.0	90.00	179.48	11,940.0	-9,930.6	52.7	9,930.8	0.00	0.00	0.00	
22,400.0	90.00	179.48	11,940.0	-10,030.6	53.6	10,030.8	0.00	0.00	0.00	
22,500.0	90.00	179.48	11,940.0	-10,130.6	54.5	10,130.8	0.00	0.00	0.00	
22,600.0	90.00	179.48	11,940.0	-10,230.6	55.4	10,230.8	0.00	0.00	0.00	
Par Three 114 LTP										
22,687.1	90.00	179.48	11,940.0	-10,317.7	56.2	10,317.9	0.00	0.00	0.00	
Par Three 114 BHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Par Three 114 BHL - hit/miss target - Shape - Point	0.00	0.00	11,940.0	-10,317.7	56.2	415,384.39	859,558.70	32° 8' 16.063 N	103° 18' 18.927 W	
Par Three 114 LTP - plan misses target center by 37.1usft at 22600.0usft MD (11940.0 TVD, -10230.6 N, 55.4 E) - Point	0.00	0.00	11,940.0	-10,267.7	55.8	415,434.38	859,558.25	32° 8' 16.557 N	103° 18' 18.926 W	
Par Three 114 FTP - plan hits target center - Point	0.00	0.00	11,940.0	99.7	-38.9	425,801.81	859,463.58	32° 9' 59.148 N	103° 18' 18.876 W	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
11,331.4	11,300.0	572.8	-208.5	PT114 KOP	
14,809.7	11,940.0	-2,440.6	-15.7	PT114 into NMNM127447	
20,089.9	11,940.0	-7,720.6	32.5	PT114 into NMNM140352	



Ameredev Operating, LLC.

Par Three

Par Three 1-4

Par Three 114H

Wellbore #1

Plan: Design #1

Standard Planning Report

05 November, 2020



Ameredev Operating, LLC

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Par Three 114H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3351.0usft
Project:	Par Three	MD Reference:	KB @ 3351.0usft
Site:	Par Three 1-4	North Reference:	Grid
Well:	Par Three 114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Par Three		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Par Three 1-4			
Site Position:		Northing:	425,701.47 usft	Latitude:	32° 9' 58.159 N
From:	Lat/Long	Easting:	859,422.51 usft	Longitude:	103° 18' 19.365 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.55 °

Well	Par Three 114H					
Well Position	+N/-S	0.7 usft	Northing:	425,702.12 usft	Latitude:	32° 9' 58.158 N
	+E/-W	80.0 usft	Easting:	859,502.50 usft	Longitude:	103° 18' 18.434 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,324.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/4/2020	6.45	60.00	47,583.89202227

Design	Design #1			
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	179.69

Plan Survey Tool Program	Date	11/5/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,687.1	Design #1 (Wellbore #1)	MWD
				OWSG MWD - Standard

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	
2,300.0	6.00	340.00	2,299.5	14.7	-5.4	2.00	2.00	0.00	340.00	
7,830.8	6.00	340.00	7,800.0	558.0	-203.1	0.00	0.00	0.00	0.00	
8,130.8	0.00	0.00	8,099.5	572.8	-208.5	2.00	-2.00	0.00	180.00	
11,331.4	0.00	0.00	11,300.0	572.8	-208.5	0.00	0.00	0.00	0.00	
11,473.0	16.84	73.21	11,439.6	578.7	-188.7	11.89	11.89	0.00	73.21	
12,269.3	90.00	179.48	11,940.0	99.7	-38.9	11.89	9.19	13.35	105.60	Par Three 114 FTP
22,687.1	90.00	179.48	11,940.0	-10,317.7	56.2	0.00	0.00	0.00	0.00	Par Three 114 BHL



Ameredev Operating, LLC

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Par Three 114H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3351.0usft
Project:	Par Three	MD Reference:	KB @ 3351.0usft
Site:	Par Three 1-4	North Reference:	Grid
Well:	Par Three 114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	2.00	340.00	2,100.0	1.6	-0.6	-1.6	2.00	2.00	0.00
2,200.0	4.00	340.00	2,199.8	6.6	-2.4	-6.6	2.00	2.00	0.00
2,300.0	6.00	340.00	2,299.5	14.7	-5.4	-14.8	2.00	2.00	0.00
2,400.0	6.00	340.00	2,398.9	24.6	-8.9	-24.6	0.00	0.00	0.00
2,500.0	6.00	340.00	2,498.4	34.4	-12.5	-34.5	0.00	0.00	0.00
2,600.0	6.00	340.00	2,597.8	44.2	-16.1	-44.3	0.00	0.00	0.00
2,700.0	6.00	340.00	2,697.3	54.0	-19.7	-54.1	0.00	0.00	0.00
2,800.0	6.00	340.00	2,796.7	63.9	-23.2	-64.0	0.00	0.00	0.00
2,900.0	6.00	340.00	2,896.2	73.7	-26.8	-73.8	0.00	0.00	0.00
3,000.0	6.00	340.00	2,995.6	83.5	-30.4	-83.7	0.00	0.00	0.00
3,100.0	6.00	340.00	3,095.1	93.3	-34.0	-93.5	0.00	0.00	0.00
3,200.0	6.00	340.00	3,194.5	103.1	-37.5	-103.4	0.00	0.00	0.00
3,300.0	6.00	340.00	3,294.0	113.0	-41.1	-113.2	0.00	0.00	0.00
3,400.0	6.00	340.00	3,393.4	122.8	-44.7	-123.0	0.00	0.00	0.00
3,500.0	6.00	340.00	3,492.9	132.6	-48.3	-132.9	0.00	0.00	0.00
3,600.0	6.00	340.00	3,592.3	142.4	-51.8	-142.7	0.00	0.00	0.00
3,700.0	6.00	340.00	3,691.8	152.3	-55.4	-152.6	0.00	0.00	0.00
3,800.0	6.00	340.00	3,791.2	162.1	-59.0	-162.4	0.00	0.00	0.00
3,900.0	6.00	340.00	3,890.7	171.9	-62.6	-172.2	0.00	0.00	0.00
4,000.0	6.00	340.00	3,990.1	181.7	-66.1	-182.1	0.00	0.00	0.00
4,100.0	6.00	340.00	4,089.6	191.6	-69.7	-191.9	0.00	0.00	0.00
4,200.0	6.00	340.00	4,189.0	201.4	-73.3	-201.8	0.00	0.00	0.00
4,300.0	6.00	340.00	4,288.5	211.2	-76.9	-211.6	0.00	0.00	0.00
4,400.0	6.00	340.00	4,387.9	221.0	-80.4	-221.5	0.00	0.00	0.00
4,500.0	6.00	340.00	4,487.4	230.8	-84.0	-231.3	0.00	0.00	0.00
4,600.0	6.00	340.00	4,586.9	240.7	-87.6	-241.1	0.00	0.00	0.00
4,700.0	6.00	340.00	4,686.3	250.5	-91.2	-251.0	0.00	0.00	0.00
4,800.0	6.00	340.00	4,785.8	260.3	-94.7	-260.8	0.00	0.00	0.00
4,900.0	6.00	340.00	4,885.2	270.1	-98.3	-270.7	0.00	0.00	0.00
5,000.0	6.00	340.00	4,984.7	280.0	-101.9	-280.5	0.00	0.00	0.00
5,100.0	6.00	340.00	5,084.1	289.8	-105.5	-290.3	0.00	0.00	0.00
5,200.0	6.00	340.00	5,183.6	299.6	-109.0	-300.2	0.00	0.00	0.00
5,300.0	6.00	340.00	5,283.0	309.4	-112.6	-310.0	0.00	0.00	0.00



Ameredev Operating, LLC

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Par Three 114H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3351.0usft
Project:	Par Three	MD Reference:	KB @ 3351.0usft
Site:	Par Three 1-4	North Reference:	Grid
Well:	Par Three 114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,400.0	6.00	340.00	5,382.5	319.2	-116.2	-319.9	0.00	0.00	0.00	
5,500.0	6.00	340.00	5,481.9	329.1	-119.8	-329.7	0.00	0.00	0.00	
5,600.0	6.00	340.00	5,581.4	338.9	-123.3	-339.6	0.00	0.00	0.00	
5,700.0	6.00	340.00	5,680.8	348.7	-126.9	-349.4	0.00	0.00	0.00	
5,800.0	6.00	340.00	5,780.3	358.5	-130.5	-359.2	0.00	0.00	0.00	
5,900.0	6.00	340.00	5,879.7	368.4	-134.1	-369.1	0.00	0.00	0.00	
6,000.0	6.00	340.00	5,979.2	378.2	-137.6	-378.9	0.00	0.00	0.00	
6,100.0	6.00	340.00	6,078.6	388.0	-141.2	-388.8	0.00	0.00	0.00	
6,200.0	6.00	340.00	6,178.1	397.8	-144.8	-398.6	0.00	0.00	0.00	
6,300.0	6.00	340.00	6,277.5	407.6	-148.4	-408.4	0.00	0.00	0.00	
6,400.0	6.00	340.00	6,377.0	417.5	-151.9	-418.3	0.00	0.00	0.00	
6,500.0	6.00	340.00	6,476.4	427.3	-155.5	-428.1	0.00	0.00	0.00	
6,600.0	6.00	340.00	6,575.9	437.1	-159.1	-438.0	0.00	0.00	0.00	
6,700.0	6.00	340.00	6,675.3	446.9	-162.7	-447.8	0.00	0.00	0.00	
6,800.0	6.00	340.00	6,774.8	456.8	-166.2	-457.7	0.00	0.00	0.00	
6,900.0	6.00	340.00	6,874.3	466.6	-169.8	-467.5	0.00	0.00	0.00	
7,000.0	6.00	340.00	6,973.7	476.4	-173.4	-477.3	0.00	0.00	0.00	
7,100.0	6.00	340.00	7,073.2	486.2	-177.0	-487.2	0.00	0.00	0.00	
7,200.0	6.00	340.00	7,172.6	496.0	-180.5	-497.0	0.00	0.00	0.00	
7,300.0	6.00	340.00	7,272.1	505.9	-184.1	-506.9	0.00	0.00	0.00	
7,400.0	6.00	340.00	7,371.5	515.7	-187.7	-516.7	0.00	0.00	0.00	
7,500.0	6.00	340.00	7,471.0	525.5	-191.3	-526.5	0.00	0.00	0.00	
7,600.0	6.00	340.00	7,570.4	535.3	-194.8	-536.4	0.00	0.00	0.00	
7,700.0	6.00	340.00	7,669.9	545.2	-198.4	-546.2	0.00	0.00	0.00	
7,800.0	6.00	340.00	7,769.3	555.0	-202.0	-556.1	0.00	0.00	0.00	
7,830.8	6.00	340.00	7,800.0	558.0	-203.1	-559.1	0.00	0.00	0.00	
7,900.0	4.62	340.00	7,868.9	564.0	-205.3	-565.1	2.00	-2.00	0.00	
8,000.0	2.62	340.00	7,968.7	570.0	-207.4	-571.1	2.00	-2.00	0.00	
8,100.0	0.62	340.00	8,068.6	572.6	-208.4	-573.7	2.00	-2.00	0.00	
8,130.8	0.00	0.00	8,099.5	572.8	-208.5	-573.9	2.00	-2.00	0.00	
8,200.0	0.00	0.00	8,168.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,268.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,368.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,468.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,568.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,668.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,768.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,868.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,968.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,068.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,168.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,268.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,368.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,468.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,568.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,668.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,768.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,868.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,968.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,068.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,168.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,268.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,368.6	572.8	-208.5	-573.9	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,468.6	572.8	-208.5	-573.9	0.00	0.00	0.00	



Ameredev Operating, LLC

Planning Report

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Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3351.0usft
Project:	Par Three	MD Reference:	KB @ 3351.0usft
Site:	Par Three 1-4	North Reference:	Grid
Well:	Par Three 114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,600.0	0.00	0.00	10,568.6	572.8	-208.5	-573.9	0.00	0.00	0.00
10,700.0	0.00	0.00	10,668.6	572.8	-208.5	-573.9	0.00	0.00	0.00
10,800.0	0.00	0.00	10,768.6	572.8	-208.5	-573.9	0.00	0.00	0.00
10,900.0	0.00	0.00	10,868.6	572.8	-208.5	-573.9	0.00	0.00	0.00
11,000.0	0.00	0.00	10,968.6	572.8	-208.5	-573.9	0.00	0.00	0.00
11,100.0	0.00	0.00	11,068.6	572.8	-208.5	-573.9	0.00	0.00	0.00
11,200.0	0.00	0.00	11,168.6	572.8	-208.5	-573.9	0.00	0.00	0.00
11,300.0	0.00	0.00	11,268.6	572.8	-208.5	-573.9	0.00	0.00	0.00
11,331.4	0.00	0.00	11,300.0	572.8	-208.5	-573.9	0.00	0.00	0.00
PT114 KOP									
11,400.0	8.16	73.21	11,368.4	574.2	-203.8	-575.3	11.89	11.89	0.00
11,473.0	16.84	73.21	11,439.6	578.7	-188.7	-579.7	11.89	11.89	0.00
11,500.0	16.26	84.30	11,465.5	580.2	-181.2	-581.2	11.89	-2.13	41.12
11,600.0	19.20	122.92	11,561.0	572.7	-153.4	-573.5	11.89	2.93	38.62
11,700.0	27.34	145.29	11,653.0	544.7	-126.4	-545.4	11.89	8.14	22.37
11,800.0	37.43	157.17	11,737.4	497.7	-101.4	-498.2	11.89	10.09	11.88
11,900.0	48.25	164.45	11,810.7	433.5	-79.5	-433.9	11.89	10.82	7.28
12,000.0	59.40	169.58	11,869.6	355.0	-61.7	-355.3	11.89	11.15	5.13
12,100.0	70.71	173.64	11,911.7	265.4	-48.6	-265.7	11.89	11.31	4.06
12,200.0	82.09	177.16	11,935.2	168.7	-40.9	-168.9	11.89	11.39	3.52
12,269.3	90.00	179.48	11,940.0	99.7	-38.9	-99.9	11.89	11.41	3.34
Par Three 114 FTP									
12,300.0	90.00	179.48	11,940.0	69.0	-38.6	-69.2	0.00	0.00	0.00
12,400.0	90.00	179.48	11,940.0	-31.0	-37.7	30.8	0.00	0.00	0.00
12,500.0	90.00	179.48	11,940.0	-131.0	-36.8	130.8	0.00	0.00	0.00
12,600.0	90.00	179.48	11,940.0	-231.0	-35.9	230.8	0.00	0.00	0.00
12,700.0	90.00	179.48	11,940.0	-331.0	-35.0	330.8	0.00	0.00	0.00
12,800.0	90.00	179.48	11,940.0	-431.0	-34.1	430.8	0.00	0.00	0.00
12,900.0	90.00	179.48	11,940.0	-531.0	-33.2	530.8	0.00	0.00	0.00
13,000.0	90.00	179.48	11,940.0	-631.0	-32.3	630.8	0.00	0.00	0.00
13,100.0	90.00	179.48	11,940.0	-731.0	-31.3	730.8	0.00	0.00	0.00
13,200.0	90.00	179.48	11,940.0	-831.0	-30.4	830.8	0.00	0.00	0.00
13,300.0	90.00	179.48	11,940.0	-931.0	-29.5	930.8	0.00	0.00	0.00
13,400.0	90.00	179.48	11,940.0	-1,031.0	-28.6	1,030.8	0.00	0.00	0.00
13,500.0	90.00	179.48	11,940.0	-1,131.0	-27.7	1,130.8	0.00	0.00	0.00
13,600.0	90.00	179.48	11,940.0	-1,231.0	-26.8	1,230.8	0.00	0.00	0.00
13,700.0	90.00	179.48	11,940.0	-1,331.0	-25.9	1,330.8	0.00	0.00	0.00
13,800.0	90.00	179.48	11,940.0	-1,431.0	-24.9	1,430.8	0.00	0.00	0.00
13,900.0	90.00	179.48	11,940.0	-1,531.0	-24.0	1,530.8	0.00	0.00	0.00
14,000.0	90.00	179.48	11,940.0	-1,631.0	-23.1	1,630.8	0.00	0.00	0.00
14,100.0	90.00	179.48	11,940.0	-1,731.0	-22.2	1,730.8	0.00	0.00	0.00
14,200.0	90.00	179.48	11,940.0	-1,831.0	-21.3	1,830.8	0.00	0.00	0.00
14,300.0	90.00	179.48	11,940.0	-1,931.0	-20.4	1,930.8	0.00	0.00	0.00
14,400.0	90.00	179.48	11,940.0	-2,031.0	-19.5	2,030.8	0.00	0.00	0.00
14,500.0	90.00	179.48	11,940.0	-2,131.0	-18.6	2,130.8	0.00	0.00	0.00
14,600.0	90.00	179.48	11,940.0	-2,230.9	-17.6	2,230.8	0.00	0.00	0.00
14,700.0	90.00	179.48	11,940.0	-2,330.9	-16.7	2,330.8	0.00	0.00	0.00
14,800.0	90.00	179.48	11,940.0	-2,430.9	-15.8	2,430.8	0.00	0.00	0.00
14,809.7	90.00	179.48	11,940.0	-2,440.6	-15.7	2,440.5	0.00	0.00	0.00
PT114 into NMNM127447									
14,900.0	90.00	179.48	11,940.0	-2,530.9	-14.9	2,530.8	0.00	0.00	0.00
15,000.0	90.00	179.48	11,940.0	-2,630.9	-14.0	2,630.8	0.00	0.00	0.00
15,100.0	90.00	179.48	11,940.0	-2,730.9	-13.1	2,730.8	0.00	0.00	0.00



Ameredev Operating, LLC

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Par Three 114H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3351.0usft
Project:	Par Three	MD Reference:	KB @ 3351.0usft
Site:	Par Three 1-4	North Reference:	Grid
Well:	Par Three 114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,200.0	90.00	179.48	11,940.0	-2,830.9	-12.2	2,830.8	0.00	0.00	0.00	
15,300.0	90.00	179.48	11,940.0	-2,930.9	-11.3	2,930.8	0.00	0.00	0.00	
15,400.0	90.00	179.48	11,940.0	-3,030.9	-10.3	3,030.8	0.00	0.00	0.00	
15,500.0	90.00	179.48	11,940.0	-3,130.9	-9.4	3,130.8	0.00	0.00	0.00	
15,600.0	90.00	179.48	11,940.0	-3,230.9	-8.5	3,230.8	0.00	0.00	0.00	
15,700.0	90.00	179.48	11,940.0	-3,330.9	-7.6	3,330.8	0.00	0.00	0.00	
15,800.0	90.00	179.48	11,940.0	-3,430.9	-6.7	3,430.8	0.00	0.00	0.00	
15,900.0	90.00	179.48	11,940.0	-3,530.9	-5.8	3,530.8	0.00	0.00	0.00	
16,000.0	90.00	179.48	11,940.0	-3,630.9	-4.9	3,630.8	0.00	0.00	0.00	
16,100.0	90.00	179.48	11,940.0	-3,730.9	-3.9	3,730.8	0.00	0.00	0.00	
16,200.0	90.00	179.48	11,940.0	-3,830.9	-3.0	3,830.8	0.00	0.00	0.00	
16,300.0	90.00	179.48	11,940.0	-3,930.9	-2.1	3,930.8	0.00	0.00	0.00	
16,400.0	90.00	179.48	11,940.0	-4,030.9	-1.2	4,030.8	0.00	0.00	0.00	
16,500.0	90.00	179.48	11,940.0	-4,130.9	-0.3	4,130.8	0.00	0.00	0.00	
16,600.0	90.00	179.48	11,940.0	-4,230.9	0.6	4,230.8	0.00	0.00	0.00	
16,700.0	90.00	179.48	11,940.0	-4,330.9	1.5	4,330.8	0.00	0.00	0.00	
16,800.0	90.00	179.48	11,940.0	-4,430.9	2.4	4,430.8	0.00	0.00	0.00	
16,900.0	90.00	179.48	11,940.0	-4,530.9	3.4	4,530.8	0.00	0.00	0.00	
17,000.0	90.00	179.48	11,940.0	-4,630.8	4.3	4,630.8	0.00	0.00	0.00	
17,100.0	90.00	179.48	11,940.0	-4,730.8	5.2	4,730.8	0.00	0.00	0.00	
17,200.0	90.00	179.48	11,940.0	-4,830.8	6.1	4,830.8	0.00	0.00	0.00	
17,300.0	90.00	179.48	11,940.0	-4,930.8	7.0	4,930.8	0.00	0.00	0.00	
17,400.0	90.00	179.48	11,940.0	-5,030.8	7.9	5,030.8	0.00	0.00	0.00	
17,500.0	90.00	179.48	11,940.0	-5,130.8	8.8	5,130.8	0.00	0.00	0.00	
17,600.0	90.00	179.48	11,940.0	-5,230.8	9.7	5,230.8	0.00	0.00	0.00	
17,700.0	90.00	179.48	11,940.0	-5,330.8	10.7	5,330.8	0.00	0.00	0.00	
17,800.0	90.00	179.48	11,940.0	-5,430.8	11.6	5,430.8	0.00	0.00	0.00	
17,900.0	90.00	179.48	11,940.0	-5,530.8	12.5	5,530.8	0.00	0.00	0.00	
18,000.0	90.00	179.48	11,940.0	-5,630.8	13.4	5,630.8	0.00	0.00	0.00	
18,100.0	90.00	179.48	11,940.0	-5,730.8	14.3	5,730.8	0.00	0.00	0.00	
18,200.0	90.00	179.48	11,940.0	-5,830.8	15.2	5,830.8	0.00	0.00	0.00	
18,300.0	90.00	179.48	11,940.0	-5,930.8	16.1	5,930.8	0.00	0.00	0.00	
18,400.0	90.00	179.48	11,940.0	-6,030.8	17.1	6,030.8	0.00	0.00	0.00	
18,500.0	90.00	179.48	11,940.0	-6,130.8	18.0	6,130.8	0.00	0.00	0.00	
18,600.0	90.00	179.48	11,940.0	-6,230.8	18.9	6,230.8	0.00	0.00	0.00	
18,700.0	90.00	179.48	11,940.0	-6,330.8	19.8	6,330.8	0.00	0.00	0.00	
18,800.0	90.00	179.48	11,940.0	-6,430.8	20.7	6,430.8	0.00	0.00	0.00	
18,900.0	90.00	179.48	11,940.0	-6,530.8	21.6	6,530.8	0.00	0.00	0.00	
19,000.0	90.00	179.48	11,940.0	-6,630.8	22.5	6,630.8	0.00	0.00	0.00	
19,100.0	90.00	179.48	11,940.0	-6,730.8	23.4	6,730.8	0.00	0.00	0.00	
19,200.0	90.00	179.48	11,940.0	-6,830.8	24.4	6,830.8	0.00	0.00	0.00	
19,300.0	90.00	179.48	11,940.0	-6,930.8	25.3	6,930.8	0.00	0.00	0.00	
19,400.0	90.00	179.48	11,940.0	-7,030.7	26.2	7,030.8	0.00	0.00	0.00	
19,500.0	90.00	179.48	11,940.0	-7,130.7	27.1	7,130.8	0.00	0.00	0.00	
19,600.0	90.00	179.48	11,940.0	-7,230.7	28.0	7,230.8	0.00	0.00	0.00	
19,700.0	90.00	179.48	11,940.0	-7,330.7	28.9	7,330.8	0.00	0.00	0.00	
19,800.0	90.00	179.48	11,940.0	-7,430.7	29.8	7,430.8	0.00	0.00	0.00	
19,900.0	90.00	179.48	11,940.0	-7,530.7	30.7	7,530.8	0.00	0.00	0.00	
20,000.0	90.00	179.48	11,940.0	-7,630.7	31.7	7,630.8	0.00	0.00	0.00	
20,089.9	90.00	179.48	11,940.0	-7,720.6	32.5	7,720.7	0.00	0.00	0.00	
PT114 into NMNM140352										
20,100.0	90.00	179.48	11,940.0	-7,730.7	32.6	7,730.8	0.00	0.00	0.00	
20,200.0	90.00	179.48	11,940.0	-7,830.7	33.5	7,830.8	0.00	0.00	0.00	



Ameredev Operating, LLC

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Par Three 114H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3351.0usft
Project:	Par Three	MD Reference:	KB @ 3351.0usft
Site:	Par Three 1-4	North Reference:	Grid
Well:	Par Three 114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
20,300.0	90.00	179.48	11,940.0	-7,930.7	34.4	7,930.8	0.00	0.00	0.00	
20,400.0	90.00	179.48	11,940.0	-8,030.7	35.3	8,030.8	0.00	0.00	0.00	
20,500.0	90.00	179.48	11,940.0	-8,130.7	36.2	8,130.8	0.00	0.00	0.00	
20,600.0	90.00	179.48	11,940.0	-8,230.7	37.1	8,230.8	0.00	0.00	0.00	
20,700.0	90.00	179.48	11,940.0	-8,330.7	38.1	8,330.8	0.00	0.00	0.00	
20,800.0	90.00	179.48	11,940.0	-8,430.7	39.0	8,430.8	0.00	0.00	0.00	
20,900.0	90.00	179.48	11,940.0	-8,530.7	39.9	8,530.8	0.00	0.00	0.00	
21,000.0	90.00	179.48	11,940.0	-8,630.7	40.8	8,630.8	0.00	0.00	0.00	
21,100.0	90.00	179.48	11,940.0	-8,730.7	41.7	8,730.8	0.00	0.00	0.00	
21,200.0	90.00	179.48	11,940.0	-8,830.7	42.6	8,830.8	0.00	0.00	0.00	
21,300.0	90.00	179.48	11,940.0	-8,930.7	43.5	8,930.8	0.00	0.00	0.00	
21,400.0	90.00	179.48	11,940.0	-9,030.7	44.4	9,030.8	0.00	0.00	0.00	
21,500.0	90.00	179.48	11,940.0	-9,130.7	45.4	9,130.8	0.00	0.00	0.00	
21,600.0	90.00	179.48	11,940.0	-9,230.7	46.3	9,230.8	0.00	0.00	0.00	
21,700.0	90.00	179.48	11,940.0	-9,330.7	47.2	9,330.8	0.00	0.00	0.00	
21,800.0	90.00	179.48	11,940.0	-9,430.6	48.1	9,430.8	0.00	0.00	0.00	
21,900.0	90.00	179.48	11,940.0	-9,530.6	49.0	9,530.8	0.00	0.00	0.00	
22,000.0	90.00	179.48	11,940.0	-9,630.6	49.9	9,630.8	0.00	0.00	0.00	
22,100.0	90.00	179.48	11,940.0	-9,730.6	50.8	9,730.8	0.00	0.00	0.00	
22,200.0	90.00	179.48	11,940.0	-9,830.6	51.7	9,830.8	0.00	0.00	0.00	
22,300.0	90.00	179.48	11,940.0	-9,930.6	52.7	9,930.8	0.00	0.00	0.00	
22,400.0	90.00	179.48	11,940.0	-10,030.6	53.6	10,030.8	0.00	0.00	0.00	
22,500.0	90.00	179.48	11,940.0	-10,130.6	54.5	10,130.8	0.00	0.00	0.00	
22,600.0	90.00	179.48	11,940.0	-10,230.6	55.4	10,230.8	0.00	0.00	0.00	
Par Three 114 LTP										
22,687.1	90.00	179.48	11,940.0	-10,317.7	56.2	10,317.9	0.00	0.00	0.00	
Par Three 114 BHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		
Par Three 114 BHL	0.00	0.00	11,940.0	-10,317.7	56.2	415,384.39	859,558.70	32° 8' 16.063 N		
- hit/miss target										
- Shape										
- Point										
Par Three 114 LTP	0.00	0.00	11,940.0	-10,267.7	55.8	415,434.38	859,558.25	32° 8' 16.557 N		
- plan misses target center by 37.1usft at 22600.0usft MD (11940.0 TVD, -10230.6 N, 55.4 E)										
- Point										
Par Three 114 FTP	0.00	0.00	11,940.0	99.7	-38.9	425,801.81	859,463.58	32° 9' 59.148 N		
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
11,331.4	11,300.0	572.8	-208.5	PT114 KOP	
14,809.7	11,940.0	-2,440.6	-15.7	PT114 into NMNM127447	
20,089.9	11,940.0	-7,720.6	32.5	PT114 into NMNM140352	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
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

CONDITIONS

Action 11969

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
AMEREDEV OPERATING, LLC Suite 600 Austin, TX78746	372224	11969	C-103A
2901 Via Fortuna			
OCD Reviewer	Condition		
pkautz	None		