



Ameredev Operating, LLC.

JUN/PIM

JUN/PIM #1S

Pimento 111H

Wellbore #1

Plan: Design #1

Standard Planning Report

14 January, 2019



Ameredev Operating, LLC

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Pimento 111H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3018.0usft
Project:	JUN/PIM	MD Reference:	KB @ 3018.0usft
Site:	JUN/PIM #1S	North Reference:	Grid
Well:	Pimento 111H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project		JUN/PIM	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		JUN/PIM #1S			
Site Position: From:		Northing:	394,110.55 usft	Latitude:	32° 4' 44.214 N
	Lat/Long	Easting:	873,588.15 usft	Longitude:	103° 15' 38.243 W
	Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:

Well	Pimento 111H					
Well Position	+N/-S	-0.3 usft	Northing:	394,110.23 usft	Latitude:	32° 4' 44.215 N
	+E/-W	-40.0 usft	Easting:	873,548.19 usft	Longitude:	103° 15' 38.708 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	2,991.0 usft

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/4/2018	6.64	59.96	47,736.62245935

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	179.72

Plan Survey Tool Program			Date	1/11/2019	
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	22,496.4	Design #1 (Wellbore #1)	MWD	
				OWSG MWD - Standard	



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Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,300.0	6.00	328.00	2,299.5	13.3	-8.3	2.00	2.00	0.00	328.00	
6,372.9	6.00	328.00	6,350.0	374.3	-233.9	0.00	0.00	0.00	0.00	
6,672.9	0.00	0.00	6,649.5	387.7	-242.2	2.00	-2.00	0.00	180.00	
8,523.4	0.00	0.00	8,500.0	387.7	-242.2	0.00	0.00	0.00	0.00	
8,823.4	6.00	328.00	8,799.5	401.0	-250.6	2.00	2.00	0.00	328.00	
10,885.3	6.00	328.00	10,850.0	583.7	-364.8	0.00	0.00	0.00	0.00	
11,185.3	0.00	0.00	11,149.5	597.0	-373.1	2.00	-2.00	0.00	180.00	
11,260.8	0.00	0.00	11,225.0	597.0	-373.1	0.00	0.00	0.00	0.00	
11,961.9	84.13	149.08	11,700.0	229.3	-152.8	12.00	12.00	0.00	149.08	
12,026.1	84.13	149.08	11,706.5	174.5	-120.0	0.00	0.00	0.00	0.00	
12,283.2	90.00	179.43	11,720.0	-69.7	-51.3	12.00	2.28	11.80	80.09	Pim111 FTP2
22,496.4	90.00	179.43	11,720.0	-10,282.4	50.7	0.00	0.00	0.00	0.00	Pim111 BHL

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Site:	JUN/PIM #1S	North Reference:	Grid
Well:	Pimento 111H	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	328.00	2,100.0	1.5	-0.9	-1.5	2.00	2.00	0.00
2,200.0	4.00	328.00	2,199.8	5.9	-3.7	-5.9	2.00	2.00	0.00
2,300.0	6.00	328.00	2,299.5	13.3	-8.3	-13.3	2.00	2.00	0.00
2,400.0	6.00	328.00	2,398.9	22.2	-13.9	-22.2	0.00	0.00	0.00
2,500.0	6.00	328.00	2,498.4	31.0	-19.4	-31.1	0.00	0.00	0.00
2,600.0	6.00	328.00	2,597.8	39.9	-24.9	-40.0	0.00	0.00	0.00
2,700.0	6.00	328.00	2,697.3	48.8	-30.5	-48.9	0.00	0.00	0.00
2,800.0	6.00	328.00	2,796.7	57.6	-36.0	-57.8	0.00	0.00	0.00
2,900.0	6.00	328.00	2,896.2	66.5	-41.6	-66.7	0.00	0.00	0.00
3,000.0	6.00	328.00	2,995.6	75.4	-47.1	-75.6	0.00	0.00	0.00
3,100.0	6.00	328.00	3,095.1	84.2	-52.6	-84.5	0.00	0.00	0.00
3,200.0	6.00	328.00	3,194.5	93.1	-58.2	-93.4	0.00	0.00	0.00
3,300.0	6.00	328.00	3,294.0	102.0	-63.7	-102.3	0.00	0.00	0.00
3,400.0	6.00	328.00	3,393.4	110.8	-69.2	-111.2	0.00	0.00	0.00
3,500.0	6.00	328.00	3,492.9	119.7	-74.8	-120.1	0.00	0.00	0.00
3,600.0	6.00	328.00	3,592.3	128.5	-80.3	-128.9	0.00	0.00	0.00
3,700.0	6.00	328.00	3,691.8	137.4	-85.9	-137.8	0.00	0.00	0.00
3,800.0	6.00	328.00	3,791.2	146.3	-91.4	-146.7	0.00	0.00	0.00
3,900.0	6.00	328.00	3,890.7	155.1	-96.9	-155.6	0.00	0.00	0.00
4,000.0	6.00	328.00	3,990.1	164.0	-102.5	-164.5	0.00	0.00	0.00
4,100.0	6.00	328.00	4,089.6	172.9	-108.0	-173.4	0.00	0.00	0.00
4,200.0	6.00	328.00	4,189.0	181.7	-113.6	-182.3	0.00	0.00	0.00
4,300.0	6.00	328.00	4,288.5	190.6	-119.1	-191.2	0.00	0.00	0.00
4,400.0	6.00	328.00	4,387.9	199.5	-124.6	-200.1	0.00	0.00	0.00
4,500.0	6.00	328.00	4,487.4	208.3	-130.2	-209.0	0.00	0.00	0.00
4,600.0	6.00	328.00	4,586.9	217.2	-135.7	-217.9	0.00	0.00	0.00
4,700.0	6.00	328.00	4,686.3	226.1	-141.3	-226.8	0.00	0.00	0.00
4,800.0	6.00	328.00	4,785.8	234.9	-146.8	-235.6	0.00	0.00	0.00
4,900.0	6.00	328.00	4,885.2	243.8	-152.3	-244.5	0.00	0.00	0.00
5,000.0	6.00	328.00	4,984.7	252.7	-157.9	-253.4	0.00	0.00	0.00
5,100.0	6.00	328.00	5,084.1	261.5	-163.4	-262.3	0.00	0.00	0.00
5,200.0	6.00	328.00	5,183.6	270.4	-169.0	-271.2	0.00	0.00	0.00
5,300.0	6.00	328.00	5,283.0	279.2	-174.5	-280.1	0.00	0.00	0.00

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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	328.00	5,382.5	288.1	-180.0	-289.0	0.00	0.00	0.00
5,500.0	6.00	328.00	5,481.9	297.0	-185.6	-297.9	0.00	0.00	0.00
5,600.0	6.00	328.00	5,581.4	305.8	-191.1	-306.8	0.00	0.00	0.00
5,700.0	6.00	328.00	5,680.8	314.7	-196.6	-315.7	0.00	0.00	0.00
5,800.0	6.00	328.00	5,780.3	323.6	-202.2	-324.6	0.00	0.00	0.00
5,900.0	6.00	328.00	5,879.7	332.4	-207.7	-333.5	0.00	0.00	0.00
6,000.0	6.00	328.00	5,979.2	341.3	-213.3	-342.3	0.00	0.00	0.00
6,100.0	6.00	328.00	6,078.6	350.2	-218.8	-351.2	0.00	0.00	0.00
6,200.0	6.00	328.00	6,178.1	359.0	-224.3	-360.1	0.00	0.00	0.00
6,300.0	6.00	328.00	6,277.5	367.9	-229.9	-369.0	0.00	0.00	0.00
6,372.9	6.00	328.00	6,350.0	374.3	-233.9	-375.5	0.00	0.00	0.00
6,400.0	5.46	328.00	6,377.0	376.6	-235.4	-377.8	2.00	-2.00	0.00
6,500.0	3.46	328.00	6,476.7	383.2	-239.5	-384.4	2.00	-2.00	0.00
6,600.0	1.46	328.00	6,576.6	386.9	-241.7	-388.1	2.00	-2.00	0.00
6,672.9	0.00	0.00	6,649.5	387.7	-242.2	-388.8	2.00	-2.00	0.00
6,700.0	0.00	0.00	6,676.6	387.7	-242.2	-388.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,776.6	387.7	-242.2	-388.8	0.00	0.00	0.00
6,900.0	0.00	0.00	6,876.6	387.7	-242.2	-388.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,976.6	387.7	-242.2	-388.8	0.00	0.00	0.00
7,100.0	0.00	0.00	7,076.6	387.7	-242.2	-388.8	0.00	0.00	0.00
7,200.0	0.00	0.00	7,176.6	387.7	-242.2	-388.8	0.00	0.00	0.00
7,300.0	0.00	0.00	7,276.6	387.7	-242.2	-388.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,376.6	387.7	-242.2	-388.8	0.00	0.00	0.00
7,500.0	0.00	0.00	7,476.6	387.7	-242.2	-388.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,576.6	387.7	-242.2	-388.8	0.00	0.00	0.00
7,700.0	0.00	0.00	7,676.6	387.7	-242.2	-388.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,776.6	387.7	-242.2	-388.8	0.00	0.00	0.00
7,900.0	0.00	0.00	7,876.6	387.7	-242.2	-388.8	0.00	0.00	0.00
8,000.0	0.00	0.00	7,976.6	387.7	-242.2	-388.8	0.00	0.00	0.00
8,100.0	0.00	0.00	8,076.6	387.7	-242.2	-388.8	0.00	0.00	0.00
8,200.0	0.00	0.00	8,176.6	387.7	-242.2	-388.8	0.00	0.00	0.00
8,300.0	0.00	0.00	8,276.6	387.7	-242.2	-388.8	0.00	0.00	0.00
8,400.0	0.00	0.00	8,376.6	387.7	-242.2	-388.8	0.00	0.00	0.00
8,500.0	0.00	0.00	8,476.6	387.7	-242.2	-388.8	0.00	0.00	0.00
8,523.4	0.00	0.00	8,500.0	387.7	-242.2	-388.8	0.00	0.00	0.00
8,600.0	1.53	328.00	8,576.6	388.5	-242.8	-389.7	2.00	2.00	0.00
8,700.0	3.53	328.00	8,676.5	392.3	-245.1	-393.5	2.00	2.00	0.00
8,800.0	5.53	328.00	8,776.2	399.0	-249.3	-400.2	2.00	2.00	0.00
8,823.4	6.00	328.00	8,799.5	401.0	-250.6	-402.2	2.00	2.00	0.00
8,900.0	6.00	328.00	8,875.6	407.8	-254.8	-409.0	0.00	0.00	0.00
9,000.0	6.00	328.00	8,975.1	416.6	-260.3	-417.9	0.00	0.00	0.00
9,100.0	6.00	328.00	9,074.5	425.5	-265.9	-426.8	0.00	0.00	0.00
9,200.0	6.00	328.00	9,174.0	434.3	-271.4	-435.7	0.00	0.00	0.00
9,300.0	6.00	328.00	9,273.4	443.2	-277.0	-444.6	0.00	0.00	0.00
9,400.0	6.00	328.00	9,372.9	452.1	-282.5	-453.5	0.00	0.00	0.00
9,500.0	6.00	328.00	9,472.3	460.9	-288.0	-462.4	0.00	0.00	0.00
9,600.0	6.00	328.00	9,571.8	469.8	-293.6	-471.3	0.00	0.00	0.00
9,700.0	6.00	328.00	9,671.2	478.7	-299.1	-480.1	0.00	0.00	0.00
9,800.0	6.00	328.00	9,770.7	487.5	-304.6	-489.0	0.00	0.00	0.00
9,900.0	6.00	328.00	9,870.1	496.4	-310.2	-497.9	0.00	0.00	0.00
10,000.0	6.00	328.00	9,969.6	505.3	-315.7	-506.8	0.00	0.00	0.00
10,100.0	6.00	328.00	10,069.1	514.1	-321.3	-515.7	0.00	0.00	0.00
10,200.0	6.00	328.00	10,168.5	523.0	-326.8	-524.6	0.00	0.00	0.00
10,300.0	6.00	328.00	10,268.0	531.9	-332.3	-533.5	0.00	0.00	0.00

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Well:	Pimento 111H	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)
10,400.0	6.00	328.00	10,367.4	540.7	-337.9	-542.4	0.00	0.00	0.00
10,500.0	6.00	328.00	10,466.9	549.6	-343.4	-551.3	0.00	0.00	0.00
10,600.0	6.00	328.00	10,566.3	558.5	-349.0	-560.2	0.00	0.00	0.00
10,700.0	6.00	328.00	10,665.8	567.3	-354.5	-569.1	0.00	0.00	0.00
10,800.0	6.00	328.00	10,765.2	576.2	-360.0	-578.0	0.00	0.00	0.00
10,885.3	6.00	328.00	10,850.0	583.7	-364.8	-585.5	0.00	0.00	0.00
10,900.0	5.71	328.00	10,864.7	585.0	-365.6	-586.8	2.00	-2.00	0.00
11,000.0	3.71	328.00	10,964.3	592.0	-369.9	-593.8	2.00	-2.00	0.00
11,100.0	1.71	328.00	11,064.2	596.0	-372.4	-597.8	2.00	-2.00	0.00
11,185.3	0.00	0.00	11,149.5	597.0	-373.1	-598.9	2.00	-2.00	0.00
11,200.0	0.00	0.00	11,164.2	597.0	-373.1	-598.9	0.00	0.00	0.00
11,260.8	0.00	0.00	11,225.0	597.0	-373.1	-598.9	0.00	0.00	0.00
Pim111 KOP									
11,300.0	4.70	149.08	11,264.2	595.7	-372.3	-597.5	12.00	12.00	0.00
11,400.0	16.70	149.08	11,362.2	579.8	-362.7	-581.5	12.00	12.00	0.00
11,500.0	28.70	149.08	11,454.3	546.7	-342.9	-548.4	12.00	12.00	0.00
11,600.0	40.70	149.08	11,536.4	498.0	-313.7	-499.5	12.00	12.00	0.00
11,700.0	52.70	149.08	11,604.8	435.6	-276.4	-437.0	12.00	12.00	0.00
11,800.0	64.70	149.08	11,656.7	362.5	-232.6	-363.6	12.00	12.00	0.00
11,838.0	69.26	149.08	11,671.5	332.5	-214.6	-333.5	12.00	12.00	0.00
Sec 34									
11,900.0	76.70	149.08	11,689.7	281.6	-184.2	-282.5	12.00	12.00	0.00
11,961.9	84.13	149.08	11,700.0	229.3	-152.8	-230.1	12.00	12.00	0.00
12,000.0	84.13	149.08	11,703.9	196.8	-133.3	-197.5	0.00	0.00	0.00
12,026.1	84.13	149.08	11,706.5	174.5	-120.0	-175.1	0.00	0.00	0.00
12,098.0	85.68	157.61	11,712.9	110.5	-87.9	-111.0	12.00	2.15	11.85
Pim111 FTP									
12,100.0	85.72	157.84	11,713.1	108.7	-87.2	-109.2	12.00	2.22	11.83
12,200.0	88.02	169.64	11,718.6	13.0	-59.3	-13.3	12.00	2.30	11.80
12,283.2	90.00	179.43	11,720.0	-69.7	-51.3	69.4	12.00	2.38	11.76
Pim111 FTP2									
12,300.0	90.00	179.43	11,720.0	-86.5	-51.2	86.2	0.00	0.00	0.00
12,400.0	90.00	179.43	11,720.0	-186.5	-50.2	186.2	0.00	0.00	0.00
12,500.0	90.00	179.43	11,720.0	-286.4	-49.2	286.2	0.00	0.00	0.00
12,600.0	90.00	179.43	11,720.0	-386.4	-48.2	386.2	0.00	0.00	0.00
12,700.0	90.00	179.43	11,720.0	-486.4	-47.2	486.2	0.00	0.00	0.00
12,800.0	90.00	179.43	11,720.0	-586.4	-46.2	586.2	0.00	0.00	0.00
12,900.0	90.00	179.43	11,720.0	-686.4	-45.2	686.2	0.00	0.00	0.00
13,000.0	90.00	179.43	11,720.0	-786.4	-44.2	786.2	0.00	0.00	0.00
13,100.0	90.00	179.43	11,720.0	-886.4	-43.2	886.2	0.00	0.00	0.00
13,200.0	90.00	179.43	11,720.0	-986.4	-42.2	986.2	0.00	0.00	0.00
13,300.0	90.00	179.43	11,720.0	-1,086.4	-41.2	1,086.2	0.00	0.00	0.00
13,400.0	90.00	179.43	11,720.0	-1,186.4	-40.2	1,186.2	0.00	0.00	0.00
13,500.0	90.00	179.43	11,720.0	-1,286.4	-39.2	1,286.2	0.00	0.00	0.00
13,600.0	90.00	179.43	11,720.0	-1,386.4	-38.2	1,386.2	0.00	0.00	0.00
13,700.0	90.00	179.43	11,720.0	-1,486.4	-37.2	1,486.2	0.00	0.00	0.00
13,800.0	90.00	179.43	11,720.0	-1,586.4	-36.2	1,586.2	0.00	0.00	0.00
13,900.0	90.00	179.43	11,720.0	-1,686.4	-35.2	1,686.2	0.00	0.00	0.00
14,000.0	90.00	179.43	11,720.0	-1,786.4	-34.2	1,786.2	0.00	0.00	0.00
14,100.0	90.00	179.43	11,720.0	-1,886.4	-33.2	1,886.2	0.00	0.00	0.00
14,200.0	90.00	179.43	11,720.0	-1,986.4	-32.2	1,986.2	0.00	0.00	0.00
14,300.0	90.00	179.43	11,720.0	-2,086.4	-31.2	2,086.2	0.00	0.00	0.00
14,400.0	90.00	179.43	11,720.0	-2,186.4	-30.2	2,186.2	0.00	0.00	0.00

Database:	EDM5000	Local Co-ordinate Reference:	Well Pimento 111H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3018.0usft
Project:	JUN/PIM	MD Reference:	KB @ 3018.0usft
Site:	JUN/PIM #1S	North Reference:	Grid
Well:	Pimento 111H	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)
14,500.0	90.00	179.43	11,720.0	-2,286.3	-29.2	2,286.2	0.00	0.00	0.00
14,600.0	90.00	179.43	11,720.0	-2,386.3	-28.2	2,386.2	0.00	0.00	0.00
14,625.4	90.00	179.43	11,720.0	-2,411.7	-27.9	2,411.5	0.00	0.00	0.00
Pimento Into NMNM 136234									
14,700.0	90.00	179.43	11,720.0	-2,486.3	-27.2	2,486.2	0.00	0.00	0.00
14,800.0	90.00	179.43	11,720.0	-2,586.3	-26.2	2,586.2	0.00	0.00	0.00
14,900.0	90.00	179.43	11,720.0	-2,686.3	-25.2	2,686.2	0.00	0.00	0.00
15,000.0	90.00	179.43	11,720.0	-2,786.3	-24.2	2,786.2	0.00	0.00	0.00
15,100.0	90.00	179.43	11,720.0	-2,886.3	-23.2	2,886.2	0.00	0.00	0.00
15,200.0	90.00	179.43	11,720.0	-2,986.3	-22.2	2,986.2	0.00	0.00	0.00
15,300.0	90.00	179.43	11,720.0	-3,086.3	-21.2	3,086.2	0.00	0.00	0.00
15,400.0	90.00	179.43	11,720.0	-3,186.3	-20.2	3,186.2	0.00	0.00	0.00
15,500.0	90.00	179.43	11,720.0	-3,286.3	-19.2	3,286.2	0.00	0.00	0.00
15,600.0	90.00	179.43	11,720.0	-3,386.3	-18.2	3,386.2	0.00	0.00	0.00
15,700.0	90.00	179.43	11,720.0	-3,486.3	-17.2	3,486.2	0.00	0.00	0.00
15,800.0	90.00	179.43	11,720.0	-3,586.3	-16.2	3,586.2	0.00	0.00	0.00
15,900.0	90.00	179.43	11,720.0	-3,686.3	-15.2	3,686.2	0.00	0.00	0.00
16,000.0	90.00	179.43	11,720.0	-3,786.3	-14.2	3,786.2	0.00	0.00	0.00
16,100.0	90.00	179.43	11,720.0	-3,886.3	-13.2	3,886.2	0.00	0.00	0.00
16,200.0	90.00	179.43	11,720.0	-3,986.3	-12.2	3,986.2	0.00	0.00	0.00
16,300.0	90.00	179.43	11,720.0	-4,086.3	-11.2	4,086.2	0.00	0.00	0.00
16,400.0	90.00	179.43	11,720.0	-4,186.3	-10.2	4,186.1	0.00	0.00	0.00
16,500.0	90.00	179.43	11,720.0	-4,286.2	-9.2	4,286.1	0.00	0.00	0.00
16,600.0	90.00	179.43	11,720.0	-4,386.2	-8.2	4,386.1	0.00	0.00	0.00
16,700.0	90.00	179.43	11,720.0	-4,486.2	-7.2	4,486.1	0.00	0.00	0.00
16,800.0	90.00	179.43	11,720.0	-4,586.2	-6.2	4,586.1	0.00	0.00	0.00
16,900.0	90.00	179.43	11,720.0	-4,686.2	-5.2	4,686.1	0.00	0.00	0.00
17,000.0	90.00	179.43	11,720.0	-4,786.2	-4.2	4,786.1	0.00	0.00	0.00
17,100.0	90.00	179.43	11,720.0	-4,886.2	-3.2	4,886.1	0.00	0.00	0.00
17,200.0	90.00	179.43	11,720.0	-4,986.2	-2.2	4,986.1	0.00	0.00	0.00
17,265.5	90.00	179.43	11,720.0	-5,051.7	-1.5	5,051.6	0.00	0.00	0.00
Sec 03									
17,300.0	90.00	179.43	11,720.0	-5,086.2	-1.2	5,086.1	0.00	0.00	0.00
17,400.0	90.00	179.43	11,720.0	-5,186.2	-0.2	5,186.1	0.00	0.00	0.00
17,500.0	90.00	179.43	11,720.0	-5,286.2	0.8	5,286.1	0.00	0.00	0.00
17,600.0	90.00	179.43	11,720.0	-5,386.2	1.8	5,386.1	0.00	0.00	0.00
17,700.0	90.00	179.43	11,720.0	-5,486.2	2.8	5,486.1	0.00	0.00	0.00
17,800.0	90.00	179.43	11,720.0	-5,586.2	3.8	5,586.1	0.00	0.00	0.00
17,900.0	90.00	179.43	11,720.0	-5,686.2	4.8	5,686.1	0.00	0.00	0.00
18,000.0	90.00	179.43	11,720.0	-5,786.2	5.8	5,786.1	0.00	0.00	0.00
18,100.0	90.00	179.43	11,720.0	-5,886.2	6.8	5,886.1	0.00	0.00	0.00
18,200.0	90.00	179.43	11,720.0	-5,986.2	7.8	5,986.1	0.00	0.00	0.00
18,300.0	90.00	179.43	11,720.0	-6,086.2	8.8	6,086.1	0.00	0.00	0.00
18,400.0	90.00	179.43	11,720.0	-6,186.2	9.8	6,186.1	0.00	0.00	0.00
18,500.0	90.00	179.43	11,720.0	-6,286.1	10.8	6,286.1	0.00	0.00	0.00
18,600.0	90.00	179.43	11,720.0	-6,386.1	11.8	6,386.1	0.00	0.00	0.00
18,700.0	90.00	179.43	11,720.0	-6,486.1	12.8	6,486.1	0.00	0.00	0.00
18,800.0	90.00	179.43	11,720.0	-6,586.1	13.8	6,586.1	0.00	0.00	0.00
18,900.0	90.00	179.43	11,720.0	-6,686.1	14.8	6,686.1	0.00	0.00	0.00
19,000.0	90.00	179.43	11,720.0	-6,786.1	15.8	6,786.1	0.00	0.00	0.00
19,100.0	90.00	179.43	11,720.0	-6,886.1	16.8	6,886.1	0.00	0.00	0.00
19,200.0	90.00	179.43	11,720.0	-6,986.1	17.8	6,986.1	0.00	0.00	0.00
19,300.0	90.00	179.43	11,720.0	-7,086.1	18.8	7,086.1	0.00	0.00	0.00
19,400.0	90.00	179.43	11,720.0	-7,186.1	19.8	7,186.1	0.00	0.00	0.00

Database:	EDM5000	Local Co-ordinate Reference:	Well Pimento 111H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3018.0usft
Project:	JUN/PIM	MD Reference:	KB @ 3018.0usft
Site:	JUN/PIM #1S	North Reference:	Grid
Well:	Pimento 111H	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)	
19,500.0	90.00	179.43	11,720.0	-7,286.1	20.8	7,286.1	0.00	0.00	0.00	
19,600.0	90.00	179.43	11,720.0	-7,386.1	21.8	7,386.1	0.00	0.00	0.00	
19,700.0	90.00	179.43	11,720.0	-7,486.1	22.8	7,486.1	0.00	0.00	0.00	
19,800.0	90.00	179.43	11,720.0	-7,586.1	23.8	7,586.1	0.00	0.00	0.00	
19,900.0	90.00	179.43	11,720.0	-7,686.1	24.8	7,686.1	0.00	0.00	0.00	
20,000.0	90.00	179.43	11,720.0	-7,786.1	25.8	7,786.1	0.00	0.00	0.00	
20,100.0	90.00	179.43	11,720.0	-7,886.1	26.8	7,886.1	0.00	0.00	0.00	
20,200.0	90.00	179.43	11,720.0	-7,986.1	27.8	7,986.1	0.00	0.00	0.00	
20,300.0	90.00	179.43	11,720.0	-8,086.1	28.8	8,086.1	0.00	0.00	0.00	
20,400.0	90.00	179.43	11,720.0	-8,186.1	29.8	8,186.1	0.00	0.00	0.00	
20,500.0	90.00	179.43	11,720.0	-8,286.0	30.8	8,286.1	0.00	0.00	0.00	
20,600.0	90.00	179.43	11,720.0	-8,386.0	31.8	8,386.1	0.00	0.00	0.00	
20,700.0	90.00	179.43	11,720.0	-8,486.0	32.8	8,486.1	0.00	0.00	0.00	
20,800.0	90.00	179.43	11,720.0	-8,586.0	33.8	8,586.1	0.00	0.00	0.00	
20,900.0	90.00	179.43	11,720.0	-8,686.0	34.8	8,686.1	0.00	0.00	0.00	
21,000.0	90.00	179.43	11,720.0	-8,786.0	35.8	8,786.1	0.00	0.00	0.00	
21,100.0	90.00	179.43	11,720.0	-8,886.0	36.8	8,886.1	0.00	0.00	0.00	
21,200.0	90.00	179.43	11,720.0	-8,986.0	37.8	8,986.1	0.00	0.00	0.00	
21,300.0	90.00	179.43	11,720.0	-9,086.0	38.8	9,086.1	0.00	0.00	0.00	
21,400.0	90.00	179.43	11,720.0	-9,186.0	39.8	9,186.1	0.00	0.00	0.00	
21,500.0	90.00	179.43	11,720.0	-9,286.0	40.8	9,286.1	0.00	0.00	0.00	
21,600.0	90.00	179.43	11,720.0	-9,386.0	41.8	9,386.1	0.00	0.00	0.00	
21,700.0	90.00	179.43	11,720.0	-9,486.0	42.8	9,486.1	0.00	0.00	0.00	
21,800.0	90.00	179.43	11,720.0	-9,586.0	43.8	9,586.1	0.00	0.00	0.00	
21,900.0	90.00	179.43	11,720.0	-9,686.0	44.8	9,686.1	0.00	0.00	0.00	
22,000.0	90.00	179.43	11,720.0	-9,786.0	45.8	9,786.1	0.00	0.00	0.00	
22,100.0	90.00	179.43	11,720.0	-9,886.0	46.8	9,886.1	0.00	0.00	0.00	
22,200.0	90.00	179.43	11,720.0	-9,986.0	47.8	9,986.1	0.00	0.00	0.00	
22,300.0	90.00	179.43	11,720.0	-10,086.0	48.8	10,086.1	0.00	0.00	0.00	
22,400.0	90.00	179.43	11,720.0	-10,186.0	49.8	10,186.1	0.00	0.00	0.00	
Pim111 LTP										
22,496.4	90.00	179.43	11,720.0	-10,282.4	50.7	10,282.5	0.00	0.00	0.00	
Sec 10 - Pim111 BHL										



Ameredev Operating, LLC
Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Pimento 111H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3018.0usft
Project:	JUN/PIM	MD Reference:	KB @ 3018.0usft
Site:	JUN/PIM #1S	North Reference:	Grid
Well:	Pimento 111H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Pim111 KOP	0.00	0.00	11,225.0	597.0	-373.1	394,707.27	873,175.12	32° 4' 50.159 N	103° 15' 42.974 W
- plan hits target center									
- Point									
Sec 03	0.00	0.00	11,470.0	-5,053.7	-199.0	389,056.56	873,349.16	32° 3' 54.231 N	103° 15' 41.604 W
- plan misses target center by 318.6usft at 17265.5usft MD (11720.0 TVD, -5051.7 N, -1.5 E)									
- Polygon									
Point 1			11,470.0	0.0	0.0	389,056.56	873,349.16		
Point 2			11,470.0	5,281.2	-53.3	394,337.76	873,295.86		
Point 3			11,470.0	5,330.6	5,227.9	394,387.16	878,577.06		
Point 4			11,470.0	47.9	5,279.4	389,104.46	878,628.56		
Sec 10	0.00	0.00	11,470.0	-10,334.4	-145.0	383,775.85	873,403.15	32° 3' 1.975 N	103° 15' 41.586 W
- plan misses target center by 321.8usft at 22496.4usft MD (11720.0 TVD, -10282.4 N, 50.7 E)									
- Polygon									
Point 1			11,470.0	0.0	0.0	383,775.85	873,403.15		
Point 2			11,470.0	5,280.7	-54.0	389,056.55	873,349.15		
Point 3			11,470.0	5,328.6	5,225.4	389,104.45	878,628.55		
Point 4			11,470.0	49.3	5,280.9	383,825.15	878,684.05		
Sec 34	0.00	0.00	11,470.0	227.6	-252.4	394,337.79	873,295.83	32° 4' 46.491 N	103° 15' 41.614 W
- plan misses target center by 230.2usft at 11824.2usft MD (11666.5 TVD, 343.5 N, -221.2 E)									
- Polygon									
Point 1			11,470.0	0.0	0.0	394,337.79	873,295.83		
Point 2			11,470.0	5,278.0	-53.8	399,615.79	873,242.03		
Point 3			11,470.0	5,326.9	5,230.6	399,664.69	878,526.43		
Point 4			11,470.0	49.4	5,281.3	394,387.19	878,577.13		
Pim111 FTP2	0.00	0.01	11,720.0	-69.7	-51.3	394,040.55	873,496.85	32° 4' 43.531 N	103° 15' 39.312 W
- plan hits target center									
- Point									
Pim111 LTP	0.00	0.00	11,720.0	-10,232.4	53.9	383,877.84	873,602.11	32° 3' 2.965 N	103° 15' 39.263 W
- plan misses target center by 46.6usft at 22400.0usft MD (11720.0 TVD, -10186.0 N, 49.8 E)									
- Point									
Pimento Into NMNM 13€	0.00	0.00	11,720.0	-2,413.7	-225.1	391,696.55	873,323.08	32° 4' 20.355 N	103° 15' 41.602 W
- plan misses target center by 197.2usft at 14625.4usft MD (11720.0 TVD, -2411.7 N, -27.9 E)									
- Polygon									
Point 1			11,720.0	0.0	0.0	391,696.55	873,323.08		
Point 2			11,720.0	50.2	5,279.9	391,746.75	878,602.98		
Pim111 FTP	0.00	0.00	11,720.0	129.5	-51.3	394,239.71	873,496.85	32° 4' 45.501 N	103° 15' 39.289 W
- plan misses target center by 41.8usft at 12098.1usft MD (11712.9 TVD, 110.5 N, -87.9 E)									
- Point									
Pim111 BHL	0.00	0.01	11,720.0	-10,282.4	54.4	383,827.86	873,602.64	32° 3' 2.470 N	103° 15' 39.262 W
- plan misses target center by 3.7usft at 22496.4usft MD (11720.0 TVD, -10282.4 N, 50.7 E)									
- Point									



Ameredev Operating, LLC.

JUN/PIM

JUN/PIM #1S

Pimento 111H

Wellbore #1

Plan: Design #1

Lease Penetration Section Line Foot

18 January, 2019



Ameredev Operating, LLC
Lease Penetration Section Line Footages

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pimento 111H
Project:	JUN/PIM	TVD Reference:	KB @ 3018.0usft
Site:	JUN/PIM #1S	MD Reference:	KB @ 3018.0usft
Well:	Pimento 111H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Project	JUN/PIM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		JUN/PIM #1S			
Site Position:		Northing:	394,110.55 usft	Latitude:	32° 4' 44.214 N
From:	Lat/Long	Easting:	873,588.15 usft	Longitude:	103° 15' 38.243 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.57 °

Well	Pimento 111H					
Well Position	+N/-S	0.0 usft	Northing:	394,110.23 usft	Latitude:	32° 4' 44.215 N
	+E/-W	0.0 usft	Easting:	873,548.20 usft	Longitude:	103° 15' 38.708 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	2,991.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/4/2018	6.64	59.96	47,736.62245935

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	179.72

Survey Tool Program		Date	1/11/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	22,496.4	Design #1 (Wellbore #1)	MWD	OWSG MWD - Standard	

Planned Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W	
100.0	0.00	0.00	100.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W	
200.0	0.00	0.00	200.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W	
300.0	0.00	0.00	300.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W	
400.0	0.00	0.00	400.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W	
500.0	0.00	0.00	500.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W	
600.0	0.00	0.00	600.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W	
700.0	0.00	0.00	700.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W	
800.0	0.00	0.00	800.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W	
900.0	0.00	0.00	900.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W	
1,000.0	0.00	0.00	1,000.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W	
1,100.0	0.00	0.00	1,100.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W	

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pimento 111H
Project:	JUN/PIM	TVD Reference:	KB @ 3018.0usft
Site:	JUN/PIM #1S	MD Reference:	KB @ 3018.0usft
Well:	Pimento 111H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
1,200.0	0.00	0.00	1,200.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W
1,300.0	0.00	0.00	1,300.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W
1,400.0	0.00	0.00	1,400.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W
1,500.0	0.00	0.00	1,500.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W
1,600.0	0.00	0.00	1,600.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W
1,700.0	0.00	0.00	1,700.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W
1,800.0	0.00	0.00	1,800.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W
1,900.0	0.00	0.00	1,900.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W
2,000.0	0.00	0.00	2,000.0	-230.3	250.0	32° 4' 44.215 N	103° 15' 38.708 W
2,100.0	2.00	328.00	2,100.0	-228.8	249.1	32° 4' 44.230 N	103° 15' 38.718 W
2,200.0	4.00	328.00	2,199.8	-224.4	246.3	32° 4' 44.274 N	103° 15' 38.750 W
2,300.0	6.00	328.00	2,299.5	-217.0	241.7	32° 4' 44.347 N	103° 15' 38.803 W
2,400.0	6.00	328.00	2,398.9	-208.2	236.2	32° 4' 44.436 N	103° 15' 38.866 W
2,500.0	6.00	328.00	2,498.4	-199.3	230.6	32° 4' 44.524 N	103° 15' 38.929 W
2,600.0	6.00	328.00	2,597.8	-190.4	225.1	32° 4' 44.612 N	103° 15' 38.993 W
2,700.0	6.00	328.00	2,697.3	-181.6	219.6	32° 4' 44.700 N	103° 15' 39.056 W
2,800.0	6.00	328.00	2,796.7	-172.7	214.0	32° 4' 44.789 N	103° 15' 39.119 W
2,900.0	6.00	328.00	2,896.2	-163.8	208.5	32° 4' 44.877 N	103° 15' 39.183 W
3,000.0	6.00	328.00	2,995.6	-155.0	203.0	32° 4' 44.965 N	103° 15' 39.246 W
3,100.0	6.00	328.00	3,095.1	-146.1	197.4	32° 4' 45.054 N	103° 15' 39.309 W
3,200.0	6.00	328.00	3,194.5	-137.2	191.9	32° 4' 45.142 N	103° 15' 39.373 W
3,300.0	6.00	328.00	3,294.0	-128.4	186.3	32° 4' 45.230 N	103° 15' 39.436 W
3,400.0	6.00	328.00	3,393.4	-119.5	180.8	32° 4' 45.318 N	103° 15' 39.499 W
3,500.0	6.00	328.00	3,492.9	-110.6	175.3	32° 4' 45.407 N	103° 15' 39.563 W
3,600.0	6.00	328.00	3,592.3	-101.8	169.7	32° 4' 45.495 N	103° 15' 39.626 W
3,700.0	6.00	328.00	3,691.8	-92.9	164.2	32° 4' 45.583 N	103° 15' 39.690 W
3,800.0	6.00	328.00	3,791.2	-84.0	158.6	32° 4' 45.671 N	103° 15' 39.753 W
3,900.0	6.00	328.00	3,890.7	-75.2	153.1	32° 4' 45.760 N	103° 15' 39.816 W
4,000.0	6.00	328.00	3,990.1	-66.3	147.6	32° 4' 45.848 N	103° 15' 39.880 W
4,100.0	6.00	328.00	4,089.6	-57.5	142.0	32° 4' 45.936 N	103° 15' 39.943 W
4,200.0	6.00	328.00	4,189.0	-48.6	136.5	32° 4' 46.024 N	103° 15' 40.006 W
4,300.0	6.00	328.00	4,288.5	-39.7	130.9	32° 4' 46.113 N	103° 15' 40.070 W
4,400.0	6.00	328.00	4,387.9	-30.9	125.4	32° 4' 46.201 N	103° 15' 40.133 W
4,500.0	6.00	328.00	4,487.4	-22.0	119.9	32° 4' 46.289 N	103° 15' 40.196 W
4,600.0	6.00	328.00	4,586.9	-13.1	114.3	32° 4' 46.377 N	103° 15' 40.260 W
4,700.0	6.00	328.00	4,686.3	-4.3	108.8	32° 4' 46.466 N	103° 15' 40.323 W
4,759.0	6.00	328.00	4,745.0	1.0	105.5	32° 4' 46.518 N	103° 15' 40.360 W
Pimento 111H into Sec 34							
4,800.0	6.00	328.00	4,785.8	4.6	103.2	32° 4' 46.554 N	103° 15' 40.386 W
4,900.0	6.00	328.00	4,885.2	13.5	97.7	32° 4' 46.642 N	103° 15' 40.450 W
5,000.0	6.00	328.00	4,984.7	22.3	92.2	32° 4' 46.730 N	103° 15' 40.513 W
5,100.0	6.00	328.00	5,084.1	31.2	86.6	32° 4' 46.819 N	103° 15' 40.576 W
5,200.0	6.00	328.00	5,183.6	40.1	81.1	32° 4' 46.907 N	103° 15' 40.640 W
5,300.0	6.00	328.00	5,283.0	48.9	75.6	32° 4' 46.995 N	103° 15' 40.703 W

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Site:	JUN/PIM #1S	MD Reference:	KB @ 3018.0usft
Well:	Pimento 111H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
5,400.0	6.00	328.00	5,382.5	57.8	70.0	32° 4' 47.083 N	103° 15' 40.766 W
5,500.0	6.00	328.00	5,481.9	66.6	64.5	32° 4' 47.172 N	103° 15' 40.830 W
5,600.0	6.00	328.00	5,581.4	75.5	58.9	32° 4' 47.260 N	103° 15' 40.893 W
5,700.0	6.00	328.00	5,680.8	84.4	53.4	32° 4' 47.348 N	103° 15' 40.957 W
5,800.0	6.00	328.00	5,780.3	93.2	47.9	32° 4' 47.436 N	103° 15' 41.020 W
5,900.0	6.00	328.00	5,879.7	102.1	42.3	32° 4' 47.525 N	103° 15' 41.083 W
6,000.0	6.00	328.00	5,979.2	111.0	36.8	32° 4' 47.613 N	103° 15' 41.147 W
6,100.0	6.00	328.00	6,078.6	119.8	31.2	32° 4' 47.701 N	103° 15' 41.210 W
6,200.0	6.00	328.00	6,178.1	128.7	25.7	32° 4' 47.789 N	103° 15' 41.273 W
6,300.0	6.00	328.00	6,277.5	137.6	20.2	32° 4' 47.878 N	103° 15' 41.337 W
6,372.9	6.00	328.00	6,350.0	144.0	16.1	32° 4' 47.942 N	103° 15' 41.383 W
6,400.0	5.46	328.00	6,377.0	146.3	14.7	32° 4' 47.965 N	103° 15' 41.399 W
6,500.0	3.46	328.00	6,476.7	152.9	10.6	32° 4' 48.030 N	103° 15' 41.446 W
6,600.0	1.46	328.00	6,576.6	156.5	8.3	32° 4' 48.067 N	103° 15' 41.472 W
6,672.9	0.00	0.00	6,649.5	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
6,700.0	0.00	0.00	6,676.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
6,800.0	0.00	0.00	6,776.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
6,900.0	0.00	0.00	6,876.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
7,000.0	0.00	0.00	6,976.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
7,100.0	0.00	0.00	7,076.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
7,200.0	0.00	0.00	7,176.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
7,300.0	0.00	0.00	7,276.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
7,400.0	0.00	0.00	7,376.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
7,500.0	0.00	0.00	7,476.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
7,600.0	0.00	0.00	7,576.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
7,700.0	0.00	0.00	7,676.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
7,800.0	0.00	0.00	7,776.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
7,900.0	0.00	0.00	7,876.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
8,000.0	0.00	0.00	7,976.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
8,100.0	0.00	0.00	8,076.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
8,200.0	0.00	0.00	8,176.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
8,300.0	0.00	0.00	8,276.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
8,400.0	0.00	0.00	8,376.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
8,500.0	0.00	0.00	8,476.6	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
8,523.4	0.00	0.00	8,500.0	157.3	7.8	32° 4' 48.074 N	103° 15' 41.478 W
8,600.0	1.53	328.00	8,576.6	158.2	7.3	32° 4' 48.083 N	103° 15' 41.484 W
8,700.0	3.53	328.00	8,676.5	161.9	4.9	32° 4' 48.120 N	103° 15' 41.511 W
8,800.0	5.53	328.00	8,776.2	168.6	0.7	32° 4' 48.187 N	103° 15' 41.559 W
8,812.0	5.77	328.00	8,788.1	169.6	0.1	32° 4' 48.197 N	103° 15' 41.566 W
Pimento 111H into Sec 33							
8,823.4	6.00	328.00	8,799.5	170.6	-0.5	32° 4' 48.207 N	103° 15' 41.573 W
8,900.0	6.00	328.00	8,875.6	177.4	-4.8	32° 4' 48.275 N	103° 15' 41.622 W
9,000.0	6.00	328.00	8,975.1	186.3	-10.3	32° 4' 48.363 N	103° 15' 41.685 W
9,100.0	6.00	328.00	9,074.5	195.2	-15.8	32° 4' 48.451 N	103° 15' 41.748 W
9,200.0	6.00	328.00	9,174.0	204.0	-21.4	32° 4' 48.539 N	103° 15' 41.812 W

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Project:	JUN/PIM	TVD Reference:	KB @ 3018.0usft
Site:	JUN/PIM #1S	MD Reference:	KB @ 3018.0usft
Well:	Pimento 111H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
9,300.0	6.00	328.00	9,273.4	212.9	-26.9	32° 4' 48.628 N	103° 15' 41.875 W
9,400.0	6.00	328.00	9,372.9	221.8	-32.4	32° 4' 48.716 N	103° 15' 41.938 W
9,500.0	6.00	328.00	9,472.3	230.6	-38.0	32° 4' 48.804 N	103° 15' 42.002 W
9,600.0	6.00	328.00	9,571.8	239.5	-43.5	32° 4' 48.892 N	103° 15' 42.065 W
9,700.0	6.00	328.00	9,671.2	248.3	-49.1	32° 4' 48.981 N	103° 15' 42.128 W
9,800.0	6.00	328.00	9,770.7	257.2	-54.6	32° 4' 49.069 N	103° 15' 42.192 W
9,900.0	6.00	328.00	9,870.1	266.1	-60.1	32° 4' 49.157 N	103° 15' 42.255 W
10,000.0	6.00	328.00	9,969.6	274.9	-65.7	32° 4' 49.245 N	103° 15' 42.318 W
10,100.0	6.00	328.00	10,069.1	283.8	-71.2	32° 4' 49.334 N	103° 15' 42.382 W
10,200.0	6.00	328.00	10,168.5	292.7	-76.8	32° 4' 49.422 N	103° 15' 42.445 W
10,300.0	6.00	328.00	10,268.0	301.5	-82.3	32° 4' 49.510 N	103° 15' 42.508 W
10,400.0	6.00	328.00	10,367.4	310.4	-87.8	32° 4' 49.598 N	103° 15' 42.572 W
10,500.0	6.00	328.00	10,466.9	319.3	-93.4	32° 4' 49.687 N	103° 15' 42.635 W
10,600.0	6.00	328.00	10,566.3	328.1	-98.9	32° 4' 49.775 N	103° 15' 42.698 W
10,700.0	6.00	328.00	10,665.8	337.0	-104.5	32° 4' 49.863 N	103° 15' 42.762 W
10,800.0	6.00	328.00	10,765.2	345.9	-110.0	32° 4' 49.951 N	103° 15' 42.825 W
10,885.3	6.00	328.00	10,850.0	353.4	-114.7	32° 4' 50.027 N	103° 15' 42.879 W
10,900.0	5.71	328.00	10,864.7	354.7	-115.5	32° 4' 50.039 N	103° 15' 42.888 W
11,000.0	3.71	328.00	10,964.3	361.6	-119.9	32° 4' 50.109 N	103° 15' 42.938 W
11,100.0	1.71	328.00	11,064.2	365.6	-122.4	32° 4' 50.148 N	103° 15' 42.967 W
11,185.3	0.00	0.00	11,149.5	366.7	-123.0	32° 4' 50.159 N	103° 15' 42.974 W
11,200.0	0.00	0.00	11,164.2	366.7	-123.0	32° 4' 50.159 N	103° 15' 42.974 W
11,260.8	0.00	0.00	11,225.0	366.7	-123.0	32° 4' 50.159 N	103° 15' 42.974 W
Pim111 KOP							
11,300.0	4.70	149.08	11,264.2	365.3	-122.2	32° 4' 50.145 N	103° 15' 42.965 W
11,400.0	16.70	149.08	11,362.2	349.4	-112.7	32° 4' 49.987 N	103° 15' 42.856 W
11,500.0	28.70	149.08	11,454.3	316.4	-92.9	32° 4' 49.658 N	103° 15' 42.630 W
11,600.0	40.70	149.08	11,536.4	267.6	-63.7	32° 4' 49.173 N	103° 15' 42.296 W
11,700.0	52.70	149.08	11,604.8	205.3	-26.4	32° 4' 48.553 N	103° 15' 41.869 W
11,800.0	64.70	149.08	11,656.7	132.1	17.5	32° 4' 47.824 N	103° 15' 41.368 W
11,838.0	69.26	149.08	11,671.5	102.1	35.4	32° 4' 47.526 N	103° 15' 41.163 W
Sec 34							
11,900.0	76.70	149.08	11,689.7	51.3	65.9	32° 4' 47.020 N	103° 15' 40.815 W
11,961.9	84.13	149.08	11,700.0	-1.0	97.2	32° 4' 46.499 N	103° 15' 40.457 W
12,000.0	84.13	149.08	11,703.9	-33.5	116.7	32° 4' 46.175 N	103° 15' 40.235 W
12,026.1	84.13	149.08	11,706.5	-55.8	130.0	32° 4' 45.954 N	103° 15' 40.082 W
12,098.1	85.68	157.61	11,712.9	-119.8	162.1	32° 4' 45.317 N	103° 15' 39.716 W
Pim111 FTP							
12,100.0	85.72	157.84	11,713.1	-121.6	162.9	32° 4' 45.299 N	103° 15' 39.708 W
12,200.0	88.02	169.64	11,718.6	-217.3	190.8	32° 4' 44.350 N	103° 15' 39.395 W
12,283.2	90.00	179.43	11,720.0	-300.0	198.7	32° 4' 43.531 N	103° 15' 39.312 W
Pim111 FTP2							
12,300.0	90.00	179.43	11,720.0	-316.8	198.9	32° 4' 43.365 N	103° 15' 39.312 W
12,400.0	90.00	179.43	11,720.0	-416.8	199.9	32° 4' 42.375 N	103° 15' 39.312 W
12,500.0	90.00	179.43	11,720.0	-516.8	200.9	32° 4' 41.386 N	103° 15' 39.312 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pimento 111H
Project:	JUN/PIM	TVD Reference:	KB @ 3018.0usft
Site:	JUN/PIM #1S	MD Reference:	KB @ 3018.0usft
Well:	Pimento 111H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
12,600.0	90.00	179.43	11,720.0	-616.8	201.9	32° 4' 40.396 N	103° 15' 39.312 W
12,700.0	90.00	179.43	11,720.0	-716.8	202.9	32° 4' 39.407 N	103° 15' 39.312 W
12,800.0	90.00	179.43	11,720.0	-816.8	203.9	32° 4' 38.417 N	103° 15' 39.312 W
12,900.0	90.00	179.43	11,720.0	-916.7	204.9	32° 4' 37.428 N	103° 15' 39.312 W
13,000.0	90.00	179.43	11,720.0	-1,016.7	205.9	32° 4' 36.438 N	103° 15' 39.312 W
13,100.0	90.00	179.43	11,720.0	-1,116.7	206.9	32° 4' 35.449 N	103° 15' 39.312 W
13,200.0	90.00	179.43	11,720.0	-1,216.7	207.9	32° 4' 34.459 N	103° 15' 39.312 W
13,300.0	90.00	179.43	11,720.0	-1,316.7	208.9	32° 4' 33.470 N	103° 15' 39.312 W
13,400.0	90.00	179.43	11,720.0	-1,416.7	209.9	32° 4' 32.480 N	103° 15' 39.312 W
13,500.0	90.00	179.43	11,720.0	-1,516.7	210.9	32° 4' 31.491 N	103° 15' 39.312 W
13,600.0	90.00	179.43	11,720.0	-1,616.7	211.9	32° 4' 30.501 N	103° 15' 39.311 W
13,700.0	90.00	179.43	11,720.0	-1,716.7	212.9	32° 4' 29.511 N	103° 15' 39.311 W
13,800.0	90.00	179.43	11,720.0	-1,816.7	213.9	32° 4' 28.522 N	103° 15' 39.311 W
13,900.0	90.00	179.43	11,720.0	-1,916.7	214.9	32° 4' 27.532 N	103° 15' 39.311 W
14,000.0	90.00	179.43	11,720.0	-2,016.7	215.9	32° 4' 26.543 N	103° 15' 39.311 W
14,100.0	90.00	179.43	11,720.0	-2,116.7	216.9	32° 4' 25.553 N	103° 15' 39.311 W
14,200.0	90.00	179.43	11,720.0	-2,216.7	217.9	32° 4' 24.564 N	103° 15' 39.311 W
14,300.0	90.00	179.43	11,720.0	-2,316.7	218.9	32° 4' 23.574 N	103° 15' 39.311 W
14,400.0	90.00	179.43	11,720.0	-2,416.7	219.9	32° 4' 22.585 N	103° 15' 39.311 W
14,500.0	90.00	179.43	11,720.0	-2,516.7	220.9	32° 4' 21.595 N	103° 15' 39.311 W
14,600.0	90.00	179.43	11,720.0	-2,616.7	221.9	32° 4' 20.606 N	103° 15' 39.311 W
14,625.4	90.00	179.43	11,720.0	-2,642.0	222.1	32° 4' 20.355 N	103° 15' 39.311 W
Pimento Into NMNM 136234							
14,700.0	90.00	179.43	11,720.0	-2,716.7	222.9	32° 4' 19.616 N	103° 15' 39.311 W
14,800.0	90.00	179.43	11,720.0	-2,816.7	223.9	32° 4' 18.627 N	103° 15' 39.311 W
14,900.0	90.00	179.43	11,720.0	-2,916.6	224.9	32° 4' 17.637 N	103° 15' 39.311 W
15,000.0	90.00	179.43	11,720.0	-3,016.6	225.9	32° 4' 16.648 N	103° 15' 39.311 W
15,100.0	90.00	179.43	11,720.0	-3,116.6	226.9	32° 4' 15.658 N	103° 15' 39.310 W
15,200.0	90.00	179.43	11,720.0	-3,216.6	227.9	32° 4' 14.669 N	103° 15' 39.310 W
15,300.0	90.00	179.43	11,720.0	-3,316.6	228.9	32° 4' 13.679 N	103° 15' 39.310 W
15,400.0	90.00	179.43	11,720.0	-3,416.6	229.9	32° 4' 12.690 N	103° 15' 39.310 W
15,500.0	90.00	179.43	11,720.0	-3,516.6	230.9	32° 4' 11.700 N	103° 15' 39.310 W
15,600.0	90.00	179.43	11,720.0	-3,616.6	231.9	32° 4' 10.711 N	103° 15' 39.310 W
15,700.0	90.00	179.43	11,720.0	-3,716.6	232.9	32° 4' 9.721 N	103° 15' 39.310 W
15,800.0	90.00	179.43	11,720.0	-3,816.6	233.9	32° 4' 8.732 N	103° 15' 39.310 W
15,900.0	90.00	179.43	11,720.0	-3,916.6	234.8	32° 4' 7.742 N	103° 15' 39.310 W
16,000.0	90.00	179.43	11,720.0	-4,016.6	235.8	32° 4' 6.753 N	103° 15' 39.310 W
16,100.0	90.00	179.43	11,720.0	-4,116.6	236.8	32° 4' 5.763 N	103° 15' 39.310 W
16,200.0	90.00	179.43	11,720.0	-4,216.6	237.8	32° 4' 4.774 N	103° 15' 39.310 W
16,300.0	90.00	179.43	11,720.0	-4,316.6	238.8	32° 4' 3.784 N	103° 15' 39.310 W
16,400.0	90.00	179.43	11,720.0	-4,416.6	239.8	32° 4' 2.795 N	103° 15' 39.310 W
16,500.0	90.00	179.43	11,720.0	-4,516.6	240.8	32° 4' 1.805 N	103° 15' 39.310 W
16,600.0	90.00	179.43	11,720.0	-4,616.6	241.8	32° 4' 0.816 N	103° 15' 39.309 W
16,700.0	90.00	179.43	11,720.0	-4,716.6	242.8	32° 3' 59.826 N	103° 15' 39.309 W
16,800.0	90.00	179.43	11,720.0	-4,816.6	243.8	32° 3' 58.837 N	103° 15' 39.309 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pimento 111H
Project:	JUN/PIM	TVD Reference:	KB @ 3018.0usft
Site:	JUN/PIM #1S	MD Reference:	KB @ 3018.0usft
Well:	Pimento 111H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
16,900.0	90.00	179.43	11,720.0	-4,916.5	244.8	32° 3' 57.847 N	103° 15' 39.309 W
17,000.0	90.00	179.43	11,720.0	-5,016.5	245.8	32° 3' 56.858 N	103° 15' 39.309 W
17,100.0	90.00	179.43	11,720.0	-5,116.5	246.8	32° 3' 55.868 N	103° 15' 39.309 W
17,200.0	90.00	179.43	11,720.0	-5,216.5	247.8	32° 3' 54.879 N	103° 15' 39.309 W
17,265.5	90.00	179.43	11,720.0	-5,282.0	248.5	32° 3' 54.231 N	103° 15' 39.309 W
Sec 03							
17,300.0	90.00	179.43	11,720.0	-5,316.5	248.8	32° 3' 53.889 N	103° 15' 39.309 W
17,400.0	90.00	179.43	11,720.0	-5,416.5	249.8	32° 3' 52.900 N	103° 15' 39.309 W
17,500.0	90.00	179.43	11,720.0	-5,516.5	250.8	32° 3' 51.910 N	103° 15' 39.309 W
17,600.0	90.00	179.43	11,720.0	-5,616.5	251.8	32° 3' 50.921 N	103° 15' 39.309 W
17,700.0	90.00	179.43	11,720.0	-5,716.5	252.8	32° 3' 49.931 N	103° 15' 39.309 W
17,800.0	90.00	179.43	11,720.0	-5,816.5	253.8	32° 3' 48.942 N	103° 15' 39.309 W
17,900.0	90.00	179.43	11,720.0	-5,916.5	254.8	32° 3' 47.952 N	103° 15' 39.309 W
18,000.0	90.00	179.43	11,720.0	-6,016.5	255.8	32° 3' 46.963 N	103° 15' 39.309 W
18,100.0	90.00	179.43	11,720.0	-6,116.5	256.8	32° 3' 45.973 N	103° 15' 39.308 W
18,200.0	90.00	179.43	11,720.0	-6,216.5	257.8	32° 3' 44.984 N	103° 15' 39.308 W
18,300.0	90.00	179.43	11,720.0	-6,316.5	258.8	32° 3' 43.994 N	103° 15' 39.308 W
18,400.0	90.00	179.43	11,720.0	-6,416.5	259.8	32° 3' 43.005 N	103° 15' 39.308 W
18,500.0	90.00	179.43	11,720.0	-6,516.5	260.8	32° 3' 42.015 N	103° 15' 39.308 W
18,600.0	90.00	179.43	11,720.0	-6,616.5	261.8	32° 3' 41.026 N	103° 15' 39.308 W
18,700.0	90.00	179.43	11,720.0	-6,716.5	262.8	32° 3' 40.036 N	103° 15' 39.308 W
18,800.0	90.00	179.43	11,720.0	-6,816.5	263.8	32° 3' 39.047 N	103° 15' 39.308 W
18,900.0	90.00	179.43	11,720.0	-6,916.4	264.8	32° 3' 38.057 N	103° 15' 39.308 W
19,000.0	90.00	179.43	11,720.0	-7,016.4	265.8	32° 3' 37.068 N	103° 15' 39.308 W
19,100.0	90.00	179.43	11,720.0	-7,116.4	266.8	32° 3' 36.078 N	103° 15' 39.308 W
19,200.0	90.00	179.43	11,720.0	-7,216.4	267.8	32° 3' 35.089 N	103° 15' 39.308 W
19,300.0	90.00	179.43	11,720.0	-7,316.4	268.8	32° 3' 34.099 N	103° 15' 39.308 W
19,400.0	90.00	179.43	11,720.0	-7,416.4	269.8	32° 3' 33.110 N	103° 15' 39.308 W
19,500.0	90.00	179.43	11,720.0	-7,516.4	270.8	32° 3' 32.120 N	103° 15' 39.307 W
19,600.0	90.00	179.43	11,720.0	-7,616.4	271.8	32° 3' 31.131 N	103° 15' 39.307 W
19,700.0	90.00	179.43	11,720.0	-7,716.4	272.8	32° 3' 30.141 N	103° 15' 39.307 W
19,800.0	90.00	179.43	11,720.0	-7,816.4	273.8	32° 3' 29.152 N	103° 15' 39.307 W
19,900.0	90.00	179.43	11,720.0	-7,916.4	274.8	32° 3' 28.162 N	103° 15' 39.307 W
20,000.0	90.00	179.43	11,720.0	-8,016.4	275.8	32° 3' 27.173 N	103° 15' 39.307 W
20,100.0	90.00	179.43	11,720.0	-8,116.4	276.8	32° 3' 26.183 N	103° 15' 39.307 W
20,200.0	90.00	179.43	11,720.0	-8,216.4	277.8	32° 3' 25.194 N	103° 15' 39.307 W
20,300.0	90.00	179.43	11,720.0	-8,316.4	278.8	32° 3' 24.204 N	103° 15' 39.307 W
20,400.0	90.00	179.43	11,720.0	-8,416.4	279.8	32° 3' 23.215 N	103° 15' 39.307 W
20,500.0	90.00	179.43	11,720.0	-8,516.4	280.8	32° 3' 22.225 N	103° 15' 39.307 W
20,600.0	90.00	179.43	11,720.0	-8,616.4	281.8	32° 3' 21.236 N	103° 15' 39.307 W
20,700.0	90.00	179.43	11,720.0	-8,716.4	282.8	32° 3' 20.246 N	103° 15' 39.307 W
20,800.0	90.00	179.43	11,720.0	-8,816.4	283.8	32° 3' 19.257 N	103° 15' 39.307 W
20,900.0	90.00	179.43	11,720.0	-8,916.3	284.8	32° 3' 18.267 N	103° 15' 39.306 W
21,000.0	90.00	179.43	11,720.0	-9,016.3	285.8	32° 3' 17.278 N	103° 15' 39.306 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pimento 111H
Project:	JUN/PIM	TVD Reference:	KB @ 3018.0usft
Site:	JUN/PIM #1S	MD Reference:	KB @ 3018.0usft
Well:	Pimento 111H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
21,100.0	90.00	179.43	11,720.0	-9,116.3	286.8	32° 3' 16.288 N	103° 15' 39.306 W
21,200.0	90.00	179.43	11,720.0	-9,216.3	287.8	32° 3' 15.299 N	103° 15' 39.306 W
21,300.0	90.00	179.43	11,720.0	-9,316.3	288.8	32° 3' 14.309 N	103° 15' 39.306 W
21,400.0	90.00	179.43	11,720.0	-9,416.3	289.8	32° 3' 13.320 N	103° 15' 39.306 W
21,500.0	90.00	179.43	11,720.0	-9,516.3	290.8	32° 3' 12.330 N	103° 15' 39.306 W
21,600.0	90.00	179.43	11,720.0	-9,616.3	291.8	32° 3' 11.340 N	103° 15' 39.306 W
21,700.0	90.00	179.43	11,720.0	-9,716.3	292.8	32° 3' 10.351 N	103° 15' 39.306 W
21,800.0	90.00	179.43	11,720.0	-9,816.3	293.8	32° 3' 9.361 N	103° 15' 39.306 W
21,900.0	90.00	179.43	11,720.0	-9,916.3	294.8	32° 3' 8.372 N	103° 15' 39.306 W
22,000.0	90.00	179.43	11,720.0	-10,016.3	295.8	32° 3' 7.382 N	103° 15' 39.306 W
22,100.0	90.00	179.43	11,720.0	-10,116.3	296.8	32° 3' 6.393 N	103° 15' 39.306 W
22,200.0	90.00	179.43	11,720.0	-10,216.3	297.8	32° 3' 5.403 N	103° 15' 39.306 W
22,300.0	90.00	179.43	11,720.0	-10,316.3	298.8	32° 3' 4.414 N	103° 15' 39.305 W
22,400.0	90.00	179.43	11,720.0	-10,416.3	299.8	32° 3' 3.424 N	103° 15' 39.305 W
Pim111 LTP							
22,496.4	90.00	179.43	11,720.0	-10,512.7	300.8	32° 3' 2.470 N	103° 15' 39.305 W
Sec 10 - Pim111 BHL							

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,759.0	4,745.0	231.3	-144.5	Pimento 111H into Sec 34
8,812.0	8,788.1	400.0	-249.9	Pimento 111H into Sec 33