

30-025-44652

AMEREDEV

Ameredev Operating, LLC

Lea County, NM (NAD83 NME)

(Amen Corner) Sec-27_T-26-S_R-36-E

Amen Corner State Com 26-36-27 #125H

OWB

Plan: Plan #1

Standard Planning Report

03 April, 2018

INTREPID



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Amen Corner State Com 26-36-27 #125H
Company:	Ameredev Operating, LLC	TVD Reference:	KB @ 2934.0usft (H&P 616)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 2934.0usft (H&P 616)
Site:	(Amen Corner) Sec-27_T-26-S_R-36-E	North Reference:	Grid
Well:	Amen Corner State Com 26-36-27 #125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Project	Lea County, NM (NAD83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	(Amen Corner) Sec-27_T-26-S_R-36-E				
Site Position:		Northing:	373,046.00 usft	Latitude:	32° 1' 15.504 N
From:	Map	Easting:	876,483.00 usft	Longitude:	103° 15' 7.053 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.57 °

Well	Amen Corner State Com 26-36-27 #125H					
Well Position	+N/-S	0.0 usft	Northing:	373,046.00 usft	Latitude:	32° 1' 15.507 N
	+E/-W	-40.0 usft	Easting:	876,443.00 usft	Longitude:	103° 15' 7.518 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	2,907.0 usft	

Wellbore	OWB
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	04/02/18	6.70	59.92	47,773.00976989

Design	Plan #1
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Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.29

Plan Survey Tool Program		Date	04/03/18		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,416.3 Plan #1 (OWB)	MWD	MWD - Standard	



Intrepid
Planning Report



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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	
2,156.2	3.12	14.93	2,156.2	4.1	1.1	2.00	2.00	0.00	14.93	
4,847.9	3.12	14.93	4,843.8	145.9	38.9	0.00	0.00	0.00	0.00	
5,004.2	0.00	0.00	5,000.0	150.0	40.0	2.00	-2.00	0.00	180.00	
11,625.2	0.00	0.00	11,621.0	150.0	40.0	0.00	0.00	0.00	0.00	
12,525.2	90.00	181.30	12,194.0	-422.8	27.0	10.00	10.00	0.00	181.30	
12,617.4	90.00	179.46	12,194.0	-515.0	26.4	2.00	0.00	-2.00	-90.01	
19,416.7	90.00	179.46	12,194.0	-7,314.0	91.0	0.00	0.00	0.00	0.00	PBHL (Amen Corner)



Intrepid
Planning Report



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Site:	(Amen Corner) Sec-27_T-26-S_R-36-E	North Reference:	Grid
Well:	Amen Corner State Com 26-36-27 #125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #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
NUDGE - Build 2.00									
2,100.0	2.00	14.93	2,100.0	1.7	0.4	-1.7	2.00	2.00	0.00
2,156.2	3.12	14.93	2,156.2	4.1	1.1	-4.1	2.00	2.00	0.00
HOLD - 2691.7 at 2156.2 MD									
2,200.0	3.12	14.93	2,199.9	6.4	1.7	-6.4	0.00	0.00	0.00
2,300.0	3.12	14.93	2,299.7	11.7	3.1	-11.6	0.00	0.00	0.00
2,400.0	3.12	14.93	2,399.6	17.0	4.5	-16.9	0.00	0.00	0.00
2,500.0	3.12	14.93	2,499.4	22.2	5.9	-22.1	0.00	0.00	0.00
2,600.0	3.12	14.93	2,599.3	27.5	7.3	-27.4	0.00	0.00	0.00
2,700.0	3.12	14.93	2,699.1	32.8	8.7	-32.6	0.00	0.00	0.00
2,800.0	3.12	14.93	2,799.0	38.0	10.1	-37.9	0.00	0.00	0.00
2,900.0	3.12	14.93	2,898.8	43.3	11.5	-43.1	0.00	0.00	0.00
3,000.0	3.12	14.93	2,998.7	48.6	12.9	-48.4	0.00	0.00	0.00
3,100.0	3.12	14.93	3,098.5	53.8	14.4	-53.6	0.00	0.00	0.00
3,200.0	3.12	14.93	3,198.4	59.1	15.8	-58.9	0.00	0.00	0.00
3,300.0	3.12	14.93	3,298.2	64.4	17.2	-64.1	0.00	0.00	0.00
3,400.0	3.12	14.93	3,398.1	69.6	18.6	-69.4	0.00	0.00	0.00
3,500.0	3.12	14.93	3,497.9	74.9	20.0	-74.6	0.00	0.00	0.00
3,600.0	3.12	14.93	3,597.8	80.2	21.4	-79.9	0.00	0.00	0.00
3,700.0	3.12	14.93	3,697.6	85.4	22.8	-85.1	0.00	0.00	0.00
3,800.0	3.12	14.93	3,797.5	90.7	24.2	-90.4	0.00	0.00	0.00
3,900.0	3.12	14.93	3,897.3	96.0	25.6	-95.6	0.00	0.00	0.00
4,000.0	3.12	14.93	3,997.2	101.2	27.0	-100.9	0.00	0.00	0.00
4,100.0	3.12	14.93	4,097.0	106.5	28.4	-106.1	0.00	0.00	0.00
4,200.0	3.12	14.93	4,196.9	111.8	29.8	-111.4	0.00	0.00	0.00
4,300.0	3.12	14.93	4,296.7	117.0	31.2	-116.6	0.00	0.00	0.00
4,400.0	3.12	14.93	4,396.6	122.3	32.6	-121.9	0.00	0.00	0.00
4,500.0	3.12	14.93	4,496.4	127.6	34.0	-127.1	0.00	0.00	0.00
4,600.0	3.12	14.93	4,596.3	132.8	35.4	-132.4	0.00	0.00	0.00
4,700.0	3.12	14.93	4,696.1	138.1	36.8	-137.6	0.00	0.00	0.00
4,800.0	3.12	14.93	4,796.0	143.4	38.2	-142.9	0.00	0.00	0.00
4,847.9	3.12	14.93	4,843.8	145.9	38.9	-145.4	0.00	0.00	0.00



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Well Amen Corner State Com 26-36-27
#125H

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TVD Reference:

KB @ 2934.0usft (H&P 616)

Project: Lea County, NM (NAD83 NME)

MD Reference:

KB @ 2934.0usft (H&P 616)

Site: (Amen Corner) Sec-27_T-26-S_R-36-E

North Reference:

Grid

Well: Amen Corner State Com 26-36-27 #125H

Survey Calculation Method:

Minimum Curvature

Wellbore: OWB

Design: Plan #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)
DROP - -2.00									
4,900.0	2.08	14.93	4,895.9	148.2	39.5	-147.7	2.00	-2.00	0.00
5,004.2	0.00	0.00	5,000.0	150.0	40.0	-149.5	2.00	-2.00	0.00
HOLD - 6621.0 at 5004.2 MD									
5,100.0	0.00	0.00	5,095.8	150.0	40.0	-149.5	0.00	0.00	0.00
5,200.0	0.00	0.00	5,195.8	150.0	40.0	-149.5	0.00	0.00	0.00
5,300.0	0.00	0.00	5,295.8	150.0	40.0	-149.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,395.8	150.0	40.0	-149.5	0.00	0.00	0.00
5,500.0	0.00	0.00	5,495.8	150.0	40.0	-149.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,595.8	150.0	40.0	-149.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,695.8	150.0	40.0	-149.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,795.8	150.0	40.0	-149.5	0.00	0.00	0.00
5,900.0	0.00	0.00	5,895.8	150.0	40.0	-149.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,995.8	150.0	40.0	-149.5	0.00	0.00	0.00
6,100.0	0.00	0.00	6,095.8	150.0	40.0	-149.5	0.00	0.00	0.00
6,200.0	0.00	0.00	6,195.8	150.0	40.0	-149.5	0.00	0.00	0.00
6,300.0	0.00	0.00	6,295.8	150.0	40.0	-149.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,395.8	150.0	40.0	-149.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,495.8	150.0	40.0	-149.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,595.8	150.0	40.0	-149.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,695.8	150.0	40.0	-149.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,795.8	150.0	40.0	-149.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,895.8	150.0	40.0	-149.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,995.8	150.0	40.0	-149.5	0.00	0.00	0.00
7,100.0	0.00	0.00	7,095.8	150.0	40.0	-149.5	0.00	0.00	0.00
7,200.0	0.00	0.00	7,195.8	150.0	40.0	-149.5	0.00	0.00	0.00
7,300.0	0.00	0.00	7,295.8	150.0	40.0	-149.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,395.8	150.0	40.0	-149.5	0.00	0.00	0.00
7,500.0	0.00	0.00	7,495.8	150.0	40.0	-149.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,595.8	150.0	40.0	-149.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,695.8	150.0	40.0	-149.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,795.8	150.0	40.0	-149.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,895.8	150.0	40.0	-149.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,995.8	150.0	40.0	-149.5	0.00	0.00	0.00
8,100.0	0.00	0.00	8,095.8	150.0	40.0	-149.5	0.00	0.00	0.00
8,200.0	0.00	0.00	8,195.8	150.0	40.0	-149.5	0.00	0.00	0.00
8,300.0	0.00	0.00	8,295.8	150.0	40.0	-149.5	0.00	0.00	0.00
8,400.0	0.00	0.00	8,395.8	150.0	40.0	-149.5	0.00	0.00	0.00
8,500.0	0.00	0.00	8,495.8	150.0	40.0	-149.5	0.00	0.00	0.00
8,600.0	0.00	0.00	8,595.8	150.0	40.0	-149.5	0.00	0.00	0.00
8,700.0	0.00	0.00	8,695.8	150.0	40.0	-149.5	0.00	0.00	0.00
8,800.0	0.00	0.00	8,795.8	150.0	40.0	-149.5	0.00	0.00	0.00
8,900.0	0.00	0.00	8,895.8	150.0	40.0	-149.5	0.00	0.00	0.00
9,000.0	0.00	0.00	8,995.8	150.0	40.0	-149.5	0.00	0.00	0.00
9,100.0	0.00	0.00	9,095.8	150.0	40.0	-149.5	0.00	0.00	0.00
9,200.0	0.00	0.00	9,195.8	150.0	40.0	-149.5	0.00	0.00	0.00
9,300.0	0.00	0.00	9,295.8	150.0	40.0	-149.5	0.00	0.00	0.00
9,400.0	0.00	0.00	9,395.8	150.0	40.0	-149.5	0.00	0.00	0.00
9,500.0	0.00	0.00	9,495.8	150.0	40.0	-149.5	0.00	0.00	0.00
9,600.0	0.00	0.00	9,595.8	150.0	40.0	-149.5	0.00	0.00	0.00
9,700.0	0.00	0.00	9,695.8	150.0	40.0	-149.5	0.00	0.00	0.00
9,800.0	0.00	0.00	9,795.8	150.0	40.0	-149.5	0.00	0.00	0.00
9,900.0	0.00	0.00	9,895.8	150.0	40.0	-149.5	0.00	0.00	0.00



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Well:	Amen Corner State Com 26-36-27 #125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #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)
10,000.0	0.00	0.00	9,995.8	150.0	40.0	-149.5	0.00	0.00	0.00
10,100.0	0.00	0.00	10,095.8	150.0	40.0	-149.5	0.00	0.00	0.00
10,200.0	0.00	0.00	10,195.8	150.0	40.0	-149.5	0.00	0.00	0.00
10,300.0	0.00	0.00	10,295.8	150.0	40.0	-149.5	0.00	0.00	0.00
10,400.0	0.00	0.00	10,395.8	150.0	40.0	-149.5	0.00	0.00	0.00
10,500.0	0.00	0.00	10,495.8	150.0	40.0	-149.5	0.00	0.00	0.00
10,600.0	0.00	0.00	10,595.8	150.0	40.0	-149.5	0.00	0.00	0.00
10,700.0	0.00	0.00	10,695.8	150.0	40.0	-149.5	0.00	0.00	0.00
10,800.0	0.00	0.00	10,795.8	150.0	40.0	-149.5	0.00	0.00	0.00
10,900.0	0.00	0.00	10,895.8	150.0	40.0	-149.5	0.00	0.00	0.00
11,000.0	0.00	0.00	10,995.8	150.0	40.0	-149.5	0.00	0.00	0.00
11,100.0	0.00	0.00	11,095.8	150.0	40.0	-149.5	0.00	0.00	0.00
11,200.0	0.00	0.00	11,195.8	150.0	40.0	-149.5	0.00	0.00	0.00
11,300.0	0.00	0.00	11,295.8	150.0	40.0	-149.5	0.00	0.00	0.00
11,400.0	0.00	0.00	11,395.8	150.0	40.0	-149.5	0.00	0.00	0.00
11,500.0	0.00	0.00	11,495.8	150.0	40.0	-149.5	0.00	0.00	0.00
11,600.0	0.00	0.00	11,595.8	150.0	40.0	-149.5	0.00	0.00	0.00
11,625.2	0.00	0.00	11,621.0	150.0	40.0	-149.5	0.00	0.00	0.00
KOP - Build 10.00, 50.3'FNL & 2299'FEL									
11,650.0	2.48	181.30	11,645.8	149.5	40.0	-149.0	10.00	10.00	0.00
11,700.0	7.48	181.30	11,695.6	145.1	39.9	-144.6	10.00	10.00	0.00
11,750.0	12.48	181.30	11,744.9	136.5	39.7	-136.0	10.00	10.00	0.00
11,800.0	17.48	181.30	11,793.1	123.5	39.4	-123.0	10.00	10.00	0.00
11,850.0	22.48	181.30	11,840.1	106.5	39.0	-106.0	10.00	10.00	0.00
11,900.0	27.48	181.30	11,885.4	85.4	38.5	-84.9	10.00	10.00	0.00
11,950.0	32.48	181.30	11,928.7	60.4	38.0	-59.9	10.00	10.00	0.00
12,000.0	37.48	181.30	11,969.7	31.7	37.3	-31.3	10.00	10.00	0.00
12,050.0	42.48	181.30	12,008.0	-0.4	36.6	0.8	10.00	10.00	0.00
12,100.0	47.48	181.30	12,043.3	-35.7	35.8	36.2	10.00	10.00	0.00
12,150.0	52.48	181.30	12,075.5	-74.0	34.9	74.4	10.00	10.00	0.00
12,200.0	57.48	181.30	12,104.1	-114.9	34.0	115.3	10.00	10.00	0.00
12,250.0	62.48	181.30	12,129.1	-158.2	33.0	158.6	10.00	10.00	0.00
12,300.0	67.48	181.30	12,150.3	-203.5	32.0	203.8	10.00	10.00	0.00
12,350.0	72.48	181.30	12,167.4	-250.4	30.9	250.8	10.00	10.00	0.00
12,400.0	77.48	181.30	12,180.3	-298.7	29.8	299.0	10.00	10.00	0.00
12,450.0	82.48	181.30	12,189.0	-347.9	28.7	348.2	10.00	10.00	0.00
12,500.0	87.48	181.30	12,193.4	-397.7	27.6	398.0	10.00	10.00	0.00
12,525.2	90.00	181.30	12,194.0	-422.8	27.0	423.1	10.00	10.00	0.00
EOC/TRN - DLS 2.00 TFO -90.01									
12,600.0	90.00	179.80	12,194.0	-497.6	26.3	497.9	2.00	0.00	-2.00
12,617.4	90.00	179.46	12,194.0	-515.0	26.4	515.3	2.00	0.00	-2.00
Start 6799.3 hold at 12617.4 MD									
12,700.0	90.00	179.46	12,194.0	-597.6	27.2	597.9	0.00	0.00	0.00
12,800.0	90.00	179.46	12,194.0	-697.6	28.1	697.9	0.00	0.00	0.00
12,900.0	90.00	179.46	12,194.0	-797.6	29.1	797.9	0.00	0.00	0.00
13,000.0	90.00	179.46	12,194.0	-897.6	30.0	897.9	0.00	0.00	0.00
13,100.0	90.00	179.46	12,194.0	-997.6	31.0	997.9	0.00	0.00	0.00
13,200.0	90.00	179.46	12,194.0	-1,097.6	31.9	1,097.9	0.00	0.00	0.00
13,300.0	90.00	179.46	12,194.0	-1,197.6	32.9	1,197.9	0.00	0.00	0.00
13,400.0	90.00	179.46	12,194.0	-1,297.6	33.8	1,297.9	0.00	0.00	0.00
13,500.0	90.00	179.46	12,194.0	-1,397.6	34.8	1,397.9	0.00	0.00	0.00
13,600.0	90.00	179.46	12,194.0	-1,497.6	35.7	1,497.9	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Amen Corner State Com 26-36-27 #125H
Company:	Ameredev Operating, LLC	TVD Reference:	KB @ 2934.0usft (H&P 616)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 2934.0usft (H&P 616)
Site:	(Amen Corner) Sec-27_T-26-S_R-36-E	North Reference:	Grid
Well:	Amen Corner State Com 26-36-27 #125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #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)	
13,700.0	90.00	179.46	12,194.0	-1,597.6	36.7	1,597.9	0.00	0.00	0.00	
13,800.0	90.00	179.46	12,194.0	-1,697.6	37.6	1,697.9	0.00	0.00	0.00	
13,900.0	90.00	179.46	12,194.0	-1,797.6	38.6	1,797.9	0.00	0.00	0.00	
14,000.0	90.00	179.46	12,194.0	-1,897.6	39.5	1,897.9	0.00	0.00	0.00	
14,100.0	90.00	179.46	12,194.0	-1,997.6	40.5	1,997.9	0.00	0.00	0.00	
14,200.0	90.00	179.46	12,194.0	-2,097.6	41.4	2,097.9	0.00	0.00	0.00	
14,300.0	90.00	179.46	12,194.0	-2,197.6	42.4	2,197.9	0.00	0.00	0.00	
14,400.0	90.00	179.46	12,194.0	-2,297.6	43.3	2,297.9	0.00	0.00	0.00	
14,500.0	90.00	179.46	12,194.0	-2,397.6	44.3	2,397.9	0.00	0.00	0.00	
14,600.0	90.00	179.46	12,194.0	-2,497.6	45.2	2,497.9	0.00	0.00	0.00	
14,700.0	90.00	179.46	12,194.0	-2,597.6	46.2	2,597.9	0.00	0.00	0.00	
14,800.0	90.00	179.46	12,194.0	-2,697.5	47.1	2,697.9	0.00	0.00	0.00	
14,900.0	90.00	179.46	12,194.0	-2,797.5	48.1	2,797.9	0.00	0.00	0.00	
15,000.0	90.00	179.46	12,194.0	-2,897.5	49.0	2,897.9	0.00	0.00	0.00	
15,100.0	90.00	179.46	12,194.0	-2,997.5	50.0	2,997.9	0.00	0.00	0.00	
15,200.0	90.00	179.46	12,194.0	-3,097.5	50.9	3,097.9	0.00	0.00	0.00	
15,300.0	90.00	179.46	12,194.0	-3,197.5	51.9	3,197.9	0.00	0.00	0.00	
15,400.0	90.00	179.46	12,194.0	-3,297.5	52.8	3,297.9	0.00	0.00	0.00	
15,500.0	90.00	179.46	12,194.0	-3,397.5	53.8	3,397.9	0.00	0.00	0.00	
15,600.0	90.00	179.46	12,194.0	-3,497.5	54.7	3,497.9	0.00	0.00	0.00	
15,700.0	90.00	179.46	12,194.0	-3,597.5	55.7	3,597.9	0.00	0.00	0.00	
15,800.0	90.00	179.46	12,194.0	-3,697.5	56.6	3,697.9	0.00	0.00	0.00	
15,900.0	90.00	179.46	12,194.0	-3,797.5	57.6	3,797.9	0.00	0.00	0.00	
16,000.0	90.00	179.46	12,194.0	-3,897.5	58.5	3,897.9	0.00	0.00	0.00	
16,100.0	90.00	179.46	12,194.0	-3,997.5	59.5	3,997.9	0.00	0.00	0.00	
16,200.0	90.00	179.46	12,194.0	-4,097.5	60.4	4,097.9	0.00	0.00	0.00	
16,300.0	90.00	179.46	12,194.0	-4,197.5	61.4	4,197.9	0.00	0.00	0.00	
16,400.0	90.00	179.46	12,194.0	-4,297.5	62.3	4,297.9	0.00	0.00	0.00	
16,500.0	90.00	179.46	12,194.0	-4,397.5	63.3	4,397.9	0.00	0.00	0.00	
16,600.0	90.00	179.46	12,194.0	-4,497.5	64.2	4,497.9	0.00	0.00	0.00	
16,700.0	90.00	179.46	12,194.0	-4,597.5	65.2	4,597.9	0.00	0.00	0.00	
16,800.0	90.00	179.46	12,194.0	-4,697.5	66.1	4,697.9	0.00	0.00	0.00	
16,900.0	90.00	179.46	12,194.0	-4,797.5	67.1	4,797.9	0.00	0.00	0.00	
17,000.0	90.00	179.46	12,194.0	-4,897.4	68.0	4,897.9	0.00	0.00	0.00	
17,100.0	90.00	179.46	12,194.0	-4,997.4	69.0	4,997.9	0.00	0.00	0.00	
17,185.4	90.00	179.46	12,194.0	-5,082.8	69.8	5,083.3	0.00	0.00	0.00	
Sec 27 & 34 Crossing, 218'FEL										
17,200.0	90.00	179.46	12,194.0	-5,097.4	69.9	5,097.9	0.00	0.00	0.00	
17,300.0	90.00	179.46	12,194.0	-5,197.4	70.9	5,197.9	0.00	0.00	0.00	
17,400.0	90.00	179.46	12,194.0	-5,297.4	71.8	5,297.9	0.00	0.00	0.00	
17,500.0	90.00	179.46	12,194.0	-5,397.4	72.8	5,397.9	0.00	0.00	0.00	
17,600.0	90.00	179.46	12,194.0	-5,497.4	73.7	5,497.9	0.00	0.00	0.00	
17,700.0	90.00	179.46	12,194.0	-5,597.4	74.7	5,597.9	0.00	0.00	0.00	
17,800.0	90.00	179.46	12,194.0	-5,697.4	75.6	5,697.9	0.00	0.00	0.00	
17,900.0	90.00	179.46	12,194.0	-5,797.4	76.6	5,797.9	0.00	0.00	0.00	
18,000.0	90.00	179.46	12,194.0	-5,897.4	77.5	5,897.9	0.00	0.00	0.00	
18,100.0	90.00	179.46	12,194.0	-5,997.4	78.5	5,997.9	0.00	0.00	0.00	
18,200.0	90.00	179.46	12,194.0	-6,097.4	79.4	6,097.9	0.00	0.00	0.00	
18,300.0	90.00	179.46	12,194.0	-6,197.4	80.4	6,197.9	0.00	0.00	0.00	
18,400.0	90.00	179.46	12,194.0	-6,297.4	81.3	6,297.9	0.00	0.00	0.00	
18,500.0	90.00	179.46	12,194.0	-6,397.4	82.3	6,397.9	0.00	0.00	0.00	
18,600.0	90.00	179.46	12,194.0	-6,497.4	83.2	6,497.9	0.00	0.00	0.00	
18,700.0	90.00	179.46	12,194.0	-6,597.4	84.2	6,597.9	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Amen Corner State Com 26-36-27 #125H
Company:	Ameredev Operating, LLC	TVD Reference:	KB @ 2934.0usft (H&P 616)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 2934.0usft (H&P 616)
Site:	(Amen Corner) Sec-27_T-26-S_R-36-E	North Reference:	Grid
Well:	Amen Corner State Com 26-36-27 #125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #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)
18,800.0	90.00	179.46	12,194.0	-6,697.4	85.1	6,697.9	0.00	0.00	0.00
18,900.0	90.00	179.46	12,194.0	-6,797.4	86.1	6,797.9	0.00	0.00	0.00
19,000.0	90.00	179.46	12,194.0	-6,897.4	87.0	6,897.9	0.00	0.00	0.00
19,100.0	90.00	179.46	12,194.0	-6,997.4	88.0	6,997.9	0.00	0.00	0.00
19,200.0	90.00	179.46	12,194.0	-7,097.4	88.9	7,097.9	0.00	0.00	0.00
19,300.0	90.00	179.46	12,194.0	-7,197.3	89.9	7,197.9	0.00	0.00	0.00
19,400.0	90.00	179.46	12,194.0	-7,297.3	90.8	7,297.9	0.00	0.00	0.00
19,416.7	90.00	179.46	12,194.0	-7,314.0	91.0	7,314.6	0.00	0.00	0.00
TD at 19416.7, 200°FSL & 2318°FEL									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (Amen Corner St - plan hits target center - Point	0.00	0.00	12,194.0	-7,314.0	91.0	365,732.00	876,534.00	32° 0' 3.129 N	103° 15' 7.311 W
FTP (Amen Corner St - plan misses target center by 71.2usft at 12252.1usft MD (12130.1 TVD, -160.0 N, 33.0 E) - Point	0.00	0.00	12,194.0	-130.0	24.0	372,916.00	876,467.00	32° 1' 14.219 N	103° 15' 7.254 W
LTP (Amen Corner St - plan misses target center by 0.2usft at 19286.7usft MD (12194.0 TVD, -7184.0 N, 89.8 E) - Rectangle (sides W60.0 H7,054.8 D25.0)	0.00	179.46	12,194.0	-7,184.0	90.0	365,862.00	876,533.00	32° 0' 4.416 N	103° 15' 7.308 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,349.0	1,349.0	13.375	13-3/8	17-1/2
5,203.2	5,199.0	9.625	9-5/8	12-1/4
10,803.2	10,799.0	7.625	7-5/8	8-3/4
19,416.7	12,194.0	5 1/2"	5-1/2	6-3/4



Intrepid
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Amen Corner State Com 26-36-27 #125H
Company:	Ameredev Operating, LLC	TVD Reference:	KB @ 2934.0usft (H&P 616)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 2934.0usft (H&P 616)
Site:	(Amen Corner) Sec-27_T-26-S_R-36-E	North Reference:	Grid
Well:	Amen Corner State Com 26-36-27 #125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
899.0	899.0	Dewey Lake				
2,158.1	2,158.0	Rustler				
2,394.4	2,394.0	Salado				
3,206.6	3,205.0	Tansill				
4,958.2	4,954.0	Lamar				
5,217.2	5,213.0	Bell Canyon				
6,675.2	6,671.0	Brushy Canyon				
7,607.2	7,603.0	Bone Spring Lime				
9,327.2	9,323.0	First Bone Spring				
9,848.2	9,844.0	Second Bone Spring				
10,608.2	10,604.0	Third Bone Spring Upper				
11,252.2	11,248.0	Third Bone Spring				
11,255.2	11,251.0	Wolfcamp				
11,853.1	11,843.0	Wolfcamp B				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,000.0	2,000.0	0.0	0.0	NUDGE - Build 2.00	
2,156.2	2,156.2	4.1	1.1	HOLD - 2691.7 at 2156.2 MD	
4,847.9	4,843.8	145.9	38.9	DROP - -2.00	
5,004.2	5,000.0	150.0	40.0	HOLD - 6621.0 at 5004.2 MD	
11,625.2	11,621.0	150.0	40.0	KOP - Build 10.00, 50.3'FNL & 2299'FEL	
12,525.2	12,194.0	-422.8	27.0	EOC/TRN - DLS 2.00 TFO -90.01	
12,617.4	12,194.0	-515.0	26.4	Start 6799.3 hold at 12617.4 MD	
17,185.4	12,194.0	-5,082.8	69.8	Sec 27 & 34 Crossing, 218'FEL	
19,416.7	12,194.0	-7,314.0	91.0	TD at 19416.7, 200'FSL & 2318'FEL	

Wellbore Schematic

Well: Amen Corner State Com 26-36-27 125H
SHL: Sec. 27 26S-36E 200' FNL & 2340' FEL
BHL: Sec. 34 26S-36E 200' FSL & 2318' FEL
 Lea, NM
Wellhead: A - 13-5/8" 10M x 13-5/8" SOW
 B - 13-5/8" 10M x 13-5/8" 10M
 C - 13-5/8" 10M x 13-5/8" 10M
 Tubing Spool - 5-1/8" 15M x 13-3/8" 10M
Xmas Tree: 2-9/16" 10M
Tubing: 2-7/8" L-80 6.5# 8rd EUE

Co. Well ID: 40223
AFE No.: 2018-011
API No.: xxxxxxxxxx
GL: 2,907'
Field: Delaware_WCB
Objective: Wolfcamp B
TVD: 12,194'
MD: 20,094'
Rig: H&P 616
E-Mail: Wellsite2@amerede.com

Hole Size	Formation Tops	Logs	Cement	Mud Weight
17.5"	Dewey Lake 900'		1125 Sacks TOC 0' 100% Excess	8.6 - 10 ppg WBM
	13.375" 54.5# J-55 BTC 1,350'			
12.25"	Rustler 2,159'			
	Salado 2,395'			
	Tansill 3,206'			
	Lamar 4,955'		1150 Sacks TOC 0' 50% Excess	10 - 11.5 ppg Brine
	9.625" 40# L-80HC BTC 5,200'			
8.75"	Bell Canyon 5,214'			
	Brushy Canyon 6,672'			
	Bone Spring Lime 7,604'			
	First Bone Spring 9,324'			
	Second Bone Spring 9,845'			
	Third Bone Spring Upper 10,605'			
	7.625" 29.7#P-110HC FJM 10,800'		300 Sacks TOC 4700' 25% Excess	9.5 - 10.5 Cut Brine
6.75" KOP 11,630' 10° Build	Third Bone Spring 11,249'			
	Wolfcamp 11,252'			
	Wolfcamp B 11,844'			
	5.5" 20# P-110HC CDC 20,094'			
	Target Wolfcamp B 12,194' TVD // 20,094' MD		825 Sacks TOC 10,300' 25% Excess	11.5 - 12.5 ppg OBM