

Wellbore Schematic

Well: Amen Corner State Com 26-36-27 105H
SHL: Sec. 27 26S-36E 200' FNL & 2300' 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: xxxxxx
AFE No.: xxxxx-xxx
API No.: xxxxxxxxxxxxx
GL: 2,908'
Field: Delaware_WCX
Objective: Wolfcamp XY
TVD: 11,600'
MD: 18,927'
Rig: TBD
E-Mail: Wellsite2@amerede.com

HOBBS OCD
 MAY 21 2018
 RECEIVED

Hole Size	Formation Tops	Logs	Cement	Mud Weight
17.5"	Rustler 2,159' 13.375" 54.5# J-55 BTC 2,284'	1825 Sacks TOC 0'	100% Excess	8.6 - 10 ppg WBM
12.25"	Salado 2,395' Tansill 3,206' Lamar 4,955' 9.625" 40# L-80HC BTC 5,005'	1350 Sacks TOC 0'	50% Excess	10 - 11.5 ppg Brine
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 11,027'	Triple Combo 345 Sacks TOC 4505'	25% Excess	9.5 - 10.5 Cut Brine
10° Build KOP @ 11,027'	Third Bone Spring 11,249' Wolfcamp 11,375' 5.5" 20# P-110HC CDC 18,927'	Triple Combo	715 Sacks TOC 10527'	25% Excess
6.75" □	Target Wolfcamp XY 11600 TVD // 18927 MD			11.5 - 12.5 ppg OBM



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 #105H

OWB

Plan: Plan #1

Standard Planning Report

03 April, 2018



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Amen Corner State Com 26-36-27 #105H
Company:	Ameredev Operating, LLC	TVD Reference:	KB @ 2935.0usft (H&P 616)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 2935.0usft (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 #105H	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
From:	Map	Easting:	876,483.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 15.504 N
		Longitude:	103° 15' 7.053 W
		Grid Convergence:	0.57 °

Well	Amen Corner State Com 26-36-27 #105H					
Well Position	+N/-S	0.0 usft	Northing:	373,046.00 usft	Latitude:	32° 1' 15.504 N
	+E/-W	0.0 usft	Easting:	876,483.00 usft	Longitude:	103° 15' 7.053 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	2,908.0 usft	

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	04/02/18	6.70	59.92	47,773.01502487

Design	Plan #1			
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	179.60

Plan Survey Tool Program	Date	04/03/18		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	18,865.1 Plan #1 (OWB)	MWD	
			MWD - Standard	



Intrepid
Planning Report



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Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 2935.0usft (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 #105H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #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	
2,177.3	3.55	59.04	2,177.2	2.8	4.7	2.00	2.00	0.00	59.04	
4,828.0	3.55	59.04	4,822.8	87.2	145.3	0.00	0.00	0.00	0.00	
5,005.3	0.00	0.00	5,000.0	90.0	150.0	2.00	-2.00	0.00	180.00	
11,121.3	0.00	0.00	11,116.0	90.0	150.0	0.00	0.00	0.00	0.00	
12,021.3	90.00	190.80	11,689.0	-472.8	42.6	10.00	10.00	0.00	190.80	
12,588.2	90.00	179.46	11,689.0	-1,036.5	-8.0	2.00	0.00	-2.00	-90.00	
18,866.0	90.00	179.46	11,689.0	-7,314.0	51.0	0.00	0.00	0.00	0.00	PBHL (Amen Corner)

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Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 2935.0usft (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 #105H	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	59.04	2,100.0	0.9	1.5	-0.9	2.00	2.00	0.00
2,177.3	3.55	59.04	2,177.2	2.8	4.7	-2.8	2.00	2.00	0.00
HOLD - 2650.7 at 2177.3 MD									
2,200.0	3.55	59.04	2,199.8	3.5	5.9	-3.5	0.00	0.00	0.00
2,300.0	3.55	59.04	2,299.7	6.7	11.2	-6.6	0.00	0.00	0.00
2,400.0	3.55	59.04	2,399.5	9.9	16.5	-9.8	0.00	0.00	0.00
2,500.0	3.55	59.04	2,499.3	13.1	21.8	-12.9	0.00	0.00	0.00
2,600.0	3.55	59.04	2,599.1	16.3	27.1	-16.1	0.00	0.00	0.00
2,700.0	3.55	59.04	2,698.9	19.5	32.4	-19.2	0.00	0.00	0.00
2,800.0	3.55	59.04	2,798.7	22.6	37.7	-22.4	0.00	0.00	0.00
2,900.0	3.55	59.04	2,898.5	25.8	43.0	-25.5	0.00	0.00	0.00
3,000.0	3.55	59.04	2,998.3	29.0	48.3	-28.7	0.00	0.00	0.00
3,100.0	3.55	59.04	3,098.1	32.2	53.6	-31.8	0.00	0.00	0.00
3,200.0	3.55	59.04	3,197.9	35.4	58.9	-35.0	0.00	0.00	0.00
3,300.0	3.55	59.04	3,297.7	38.6	64.3	-38.1	0.00	0.00	0.00
3,400.0	3.55	59.04	3,397.5	41.7	69.6	-41.2	0.00	0.00	0.00
3,500.0	3.55	59.04	3,497.4	44.9	74.9	-44.4	0.00	0.00	0.00
3,600.0	3.55	59.04	3,597.2	48.1	80.2	-47.5	0.00	0.00	0.00
3,700.0	3.55	59.04	3,697.0	51.3	85.5	-50.7	0.00	0.00	0.00
3,800.0	3.55	59.04	3,796.8	54.5	90.8	-53.8	0.00	0.00	0.00
3,900.0	3.55	59.04	3,896.6	57.6	96.1	-57.0	0.00	0.00	0.00
4,000.0	3.55	59.04	3,996.4	60.8	101.4	-60.1	0.00	0.00	0.00
4,100.0	3.55	59.04	4,096.2	64.0	106.7	-63.3	0.00	0.00	0.00
4,200.0	3.55	59.04	4,196.0	67.2	112.0	-66.4	0.00	0.00	0.00
4,300.0	3.55	59.04	4,295.8	70.4	117.3	-69.6	0.00	0.00	0.00
4,400.0	3.55	59.04	4,395.6	73.6	122.6	-72.7	0.00	0.00	0.00
4,500.0	3.55	59.04	4,495.4	76.7	127.9	-75.8	0.00	0.00	0.00
4,600.0	3.55	59.04	4,595.2	79.9	133.2	-79.0	0.00	0.00	0.00
4,700.0	3.55	59.04	4,695.1	83.1	138.5	-82.1	0.00	0.00	0.00
4,800.0	3.55	59.04	4,794.9	86.3	143.8	-85.3	0.00	0.00	0.00
4,828.0	3.55	59.04	4,822.8	87.2	145.3	-86.2	0.00	0.00	0.00



Intrepid
Planning Report



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Wellbore:	OWB		
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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	2.11	59.04	4,894.7	89.0	148.3	-88.0	2.00	-2.00	0.00
5,005.3	0.00	0.00	5,000.0	90.0	150.0	-89.0	2.00	-2.00	0.00
HOLD - 6116.0 at 5005.3 MD									
5,100.0	0.00	0.00	5,094.7	90.0	150.0	-89.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,194.7	90.0	150.0	-89.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,294.7	90.0	150.0	-89.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,394.7	90.0	150.0	-89.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,494.7	90.0	150.0	-89.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,594.7	90.0	150.0	-89.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,694.7	90.0	150.0	-89.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,794.7	90.0	150.0	-89.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,894.7	90.0	150.0	-89.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,994.7	90.0	150.0	-89.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,094.7	90.0	150.0	-89.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,194.7	90.0	150.0	-89.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,294.7	90.0	150.0	-89.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,394.7	90.0	150.0	-89.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,494.7	90.0	150.0	-89.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,594.7	90.0	150.0	-89.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,694.7	90.0	150.0	-89.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,794.7	90.0	150.0	-89.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,894.7	90.0	150.0	-89.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,994.7	90.0	150.0	-89.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,094.7	90.0	150.0	-89.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,194.7	90.0	150.0	-89.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,294.7	90.0	150.0	-89.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,394.7	90.0	150.0	-89.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,494.7	90.0	150.0	-89.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,594.7	90.0	150.0	-89.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,694.7	90.0	150.0	-89.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,794.7	90.0	150.0	-89.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,894.7	90.0	150.0	-89.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,994.7	90.0	150.0	-89.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,094.7	90.0	150.0	-89.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,194.7	90.0	150.0	-89.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,294.7	90.0	150.0	-89.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,394.7	90.0	150.0	-89.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,494.7	90.0	150.0	-89.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,594.7	90.0	150.0	-89.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,694.7	90.0	150.0	-89.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,794.7	90.0	150.0	-89.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,894.7	90.0	150.0	-89.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,994.7	90.0	150.0	-89.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,094.7	90.0	150.0	-89.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,194.7	90.0	150.0	-89.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,294.7	90.0	150.0	-89.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,394.7	90.0	150.0	-89.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,494.7	90.0	150.0	-89.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,594.7	90.0	150.0	-89.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,694.7	90.0	150.0	-89.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,794.7	90.0	150.0	-89.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,894.7	90.0	150.0	-89.0	0.00	0.00	0.00

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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	9,994.7	90.0	150.0	-89.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,094.7	90.0	150.0	-89.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,194.7	90.0	150.0	-89.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,294.7	90.0	150.0	-89.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,394.7	90.0	150.0	-89.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,494.7	90.0	150.0	-89.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,594.7	90.0	150.0	-89.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,694.7	90.0	150.0	-89.0	0.00	0.00	0.00
10,800.0	0.00	0.00	10,794.7	90.0	150.0	-89.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,894.7	90.0	150.0	-89.0	0.00	0.00	0.00
11,000.0	0.00	0.00	10,994.7	90.0	150.0	-89.0	0.00	0.00	0.00
11,100.0	0.00	0.00	11,094.7	90.0	150.0	-89.0	0.00	0.00	0.00
11,121.3	0.00	0.00	11,116.0	90.0	150.0	-89.0	0.00	0.00	0.00
KOP - Build 10.00, 111'FNL & 2149.6'FEL									
11,150.0	2.87	190.80	11,144.7	89.3	149.9	-88.2	10.00	10.00	0.00
11,200.0	7.87	190.80	11,194.5	84.7	149.0	-83.7	10.00	10.00	0.00
11,250.0	12.87	190.80	11,243.6	75.9	147.3	-74.8	10.00	10.00	0.00
11,300.0	17.87	190.80	11,291.8	62.8	144.8	-61.8	10.00	10.00	0.00
11,350.0	22.87	190.80	11,338.7	45.8	141.6	-44.8	10.00	10.00	0.00
11,400.0	27.87	190.80	11,383.8	24.7	137.5	-23.8	10.00	10.00	0.00
11,450.0	32.87	190.80	11,427.0	-0.1	132.8	1.0	10.00	10.00	0.00
11,500.0	37.87	190.80	11,467.7	-28.5	127.4	29.4	10.00	10.00	0.00
11,550.0	42.87	190.80	11,505.8	-60.3	121.3	61.2	10.00	10.00	0.00
11,600.0	47.87	190.80	11,540.9	-95.3	114.7	96.1	10.00	10.00	0.00
11,650.0	52.87	190.80	11,572.8	-133.1	107.4	133.8	10.00	10.00	0.00
11,700.0	57.87	190.80	11,601.2	-173.5	99.7	174.2	10.00	10.00	0.00
11,750.0	62.87	190.80	11,625.9	-216.2	91.6	216.8	10.00	10.00	0.00
11,800.0	67.87	190.80	11,646.7	-260.8	83.1	261.4	10.00	10.00	0.00
11,850.0	72.87	190.80	11,663.5	-307.0	74.3	307.5	10.00	10.00	0.00
11,900.0	77.87	190.80	11,676.2	-354.5	65.2	355.0	10.00	10.00	0.00
11,950.0	82.87	190.80	11,684.5	-403.0	56.0	403.3	10.00	10.00	0.00
12,000.0	87.87	190.80	11,688.6	-451.9	46.6	452.2	10.00	10.00	0.00
12,021.3	90.00	190.80	11,689.0	-472.8	42.6	473.1	10.00	10.00	0.00
EOC/TRN - DLS 2.00 TFO -90.00									
12,100.0	90.00	189.23	11,689.0	-550.3	29.0	550.5	2.00	0.00	-2.00
12,200.0	90.00	187.23	11,689.0	-649.3	14.6	649.4	2.00	0.00	-2.00
12,300.0	90.00	185.23	11,689.0	-748.7	3.8	748.7	2.00	0.00	-2.00
12,400.0	90.00	183.23	11,689.0	-848.4	-3.6	848.4	2.00	0.00	-2.00
12,500.0	90.00	181.23	11,689.0	-948.3	-7.4	948.2	2.00	0.00	-2.00
12,588.2	90.00	179.46	11,689.0	-1,036.5	-8.0	1,036.5	2.00	0.00	-2.00
Start 6277.7 hold at 12588.2 MD									
12,600.0	90.00	179.46	11,689.0	-1,048.3	-7.9	1,048.2	0.00	0.00	0.00
12,700.0	90.00	179.46	11,689.0	-1,148.3	-6.9	1,148.2	0.00	0.00	0.00
12,800.0	90.00	179.46	11,689.0	-1,248.3	-6.0	1,248.2	0.00	0.00	0.00
12,900.0	90.00	179.46	11,689.0	-1,348.3	-5.0	1,348.2	0.00	0.00	0.00
13,000.0	90.00	179.46	11,689.0	-1,448.3	-4.1	1,448.2	0.00	0.00	0.00
13,100.0	90.00	179.46	11,689.0	-1,548.3	-3.2	1,548.2	0.00	0.00	0.00
13,200.0	90.00	179.46	11,689.0	-1,648.3	-2.2	1,648.2	0.00	0.00	0.00
13,300.0	90.00	179.46	11,689.0	-1,748.3	-1.3	1,748.2	0.00	0.00	0.00
13,400.0	90.00	179.46	11,689.0	-1,848.3	-0.4	1,848.2	0.00	0.00	0.00
13,500.0	90.00	179.46	11,689.0	-1,948.3	0.6	1,948.2	0.00	0.00	0.00
13,600.0	90.00	179.46	11,689.0	-2,048.3	1.5	2,048.2	0.00	0.00	0.00



Intrepid
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Amen Corner State Com 26-36-27 #105H
Company:	Ameredev Operating, LLC	TVD Reference:	KB @ 2935.0usft (H&P 616)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 2935.0usft (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 #105H	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	11,689.0	-2,148.3	2.5	2,148.2	0.00	0.00	0.00
13,800.0	90.00	179.46	11,689.0	-2,248.3	3.4	2,248.2	0.00	0.00	0.00
13,900.0	90.00	179.46	11,689.0	-2,348.3	4.3	2,348.2	0.00	0.00	0.00
14,000.0	90.00	179.46	11,689.0	-2,448.3	5.3	2,448.2	0.00	0.00	0.00
14,100.0	90.00	179.46	11,689.0	-2,548.2	6.2	2,548.2	0.00	0.00	0.00
14,200.0	90.00	179.46	11,689.0	-2,648.2	7.2	2,648.2	0.00	0.00	0.00
14,300.0	90.00	179.46	11,689.0	-2,748.2	8.1	2,748.2	0.00	0.00	0.00
14,400.0	90.00	179.46	11,689.0	-2,848.2	9.0	2,848.2	0.00	0.00	0.00
14,500.0	90.00	179.46	11,689.0	-2,948.2	10.0	2,948.2	0.00	0.00	0.00
14,600.0	90.00	179.46	11,689.0	-3,048.2	10.9	3,048.2	0.00	0.00	0.00
14,700.0	90.00	179.46	11,689.0	-3,148.2	11.9	3,148.2	0.00	0.00	0.00
14,800.0	90.00	179.46	11,689.0	-3,248.2	12.8	3,248.2	0.00	0.00	0.00
14,900.0	90.00	179.46	11,689.0	-3,348.2	13.7	3,348.2	0.00	0.00	0.00
15,000.0	90.00	179.46	11,689.0	-3,448.2	14.7	3,448.2	0.00	0.00	0.00
15,100.0	90.00	179.46	11,689.0	-3,548.2	15.6	3,548.2	0.00	0.00	0.00
15,200.0	90.00	179.46	11,689.0	-3,648.2	16.6	3,648.2	0.00	0.00	0.00
15,300.0	90.00	179.46	11,689.0	-3,748.2	17.5	3,748.2	0.00	0.00	0.00
15,400.0	90.00	179.46	11,689.0	-3,848.2	18.4	3,848.2	0.00	0.00	0.00
15,500.0	90.00	179.46	11,689.0	-3,948.2	19.4	3,948.2	0.00	0.00	0.00
15,600.0	90.00	179.46	11,689.0	-4,048.2	20.3	4,048.2	0.00	0.00	0.00
15,700.0	90.00	179.46	11,689.0	-4,148.2	21.3	4,148.2	0.00	0.00	0.00
15,800.0	90.00	179.46	11,689.0	-4,248.2	22.2	4,248.2	0.00	0.00	0.00
15,900.0	90.00	179.46	11,689.0	-4,348.2	23.1	4,348.2	0.00	0.00	0.00
16,000.0	90.00	179.46	11,689.0	-4,448.2	24.1	4,448.2	0.00	0.00	0.00
16,100.0	90.00	179.46	11,689.0	-4,548.2	25.0	4,548.2	0.00	0.00	0.00
16,200.0	90.00	179.46	11,689.0	-4,648.2	26.0	4,648.2	0.00	0.00	0.00
16,300.0	90.00	179.46	11,689.0	-4,748.2	26.9	4,748.2	0.00	0.00	0.00
16,400.0	90.00	179.46	11,689.0	-4,848.1	27.8	4,848.2	0.00	0.00	0.00
16,500.0	90.00	179.46	11,689.0	-4,948.1	28.8	4,948.2	0.00	0.00	0.00
16,600.0	90.00	179.46	11,689.0	-5,048.1	29.7	5,048.2	0.00	0.00	0.00
16,634.7	90.00	179.46	11,689.0	-5,082.8	30.0	5,082.9	0.00	0.00	0.00
Sec 27 & 34 Crossing, 2318'FEL									
16,700.0	90.00	179.46	11,689.0	-5,148.1	30.7	5,148.2	0.00	0.00	0.00
16,800.0	90.00	179.46	11,689.0	-5,248.1	31.6	5,248.2	0.00	0.00	0.00
16,900.0	90.00	179.46	11,689.0	-5,348.1	32.5	5,348.2	0.00	0.00	0.00
17,000.0	90.00	179.46	11,689.0	-5,448.1	33.5	5,448.2	0.00	0.00	0.00
17,100.0	90.00	179.46	11,689.0	-5,548.1	34.4	5,548.2	0.00	0.00	0.00
17,200.0	90.00	179.46	11,689.0	-5,648.1	35.3	5,648.2	0.00	0.00	0.00
17,300.0	90.00	179.46	11,689.0	-5,748.1	36.3	5,748.2	0.00	0.00	0.00
17,400.0	90.00	179.46	11,689.0	-5,848.1	37.2	5,848.2	0.00	0.00	0.00
17,500.0	90.00	179.46	11,689.0	-5,948.1	38.2	5,948.2	0.00	0.00	0.00
17,600.0	90.00	179.46	11,689.0	-6,048.1	39.1	6,048.2	0.00	0.00	0.00
17,700.0	90.00	179.46	11,689.0	-6,148.1	40.0	6,148.2	0.00	0.00	0.00
17,800.0	90.00	179.46	11,689.0	-6,248.1	41.0	6,248.2	0.00	0.00	0.00
17,900.0	90.00	179.46	11,689.0	-6,348.1	41.9	6,348.2	0.00	0.00	0.00
18,000.0	90.00	179.46	11,689.0	-6,448.1	42.9	6,448.2	0.00	0.00	0.00
18,100.0	90.00	179.46	11,689.0	-6,548.1	43.8	6,548.2	0.00	0.00	0.00
18,200.0	90.00	179.46	11,689.0	-6,648.1	44.7	6,648.2	0.00	0.00	0.00
18,300.0	90.00	179.46	11,689.0	-6,748.1	45.7	6,748.2	0.00	0.00	0.00
18,400.0	90.00	179.46	11,689.0	-6,848.1	46.6	6,848.2	0.00	0.00	0.00
18,500.0	90.00	179.46	11,689.0	-6,948.1	47.6	6,948.2	0.00	0.00	0.00
18,600.0	90.00	179.46	11,689.0	-7,048.0	48.5	7,048.2	0.00	0.00	0.00
18,700.0	90.00	179.46	11,689.0	-7,148.0	49.4	7,148.2	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 #105H
Company:	Ameredev Operating, LLC	TVD Reference:	KB @ 2935.0usft (H&P 616)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 2935.0usft (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 #105H	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	11,689.0	-7,248.0	50.4	7,248.2	0.00	0.00	0.00
18,866.0	90.00	179.46	11,689.0	-7,314.0	51.0	7,314.2	0.00	0.00	0.00
TD at 18866.0, 200'FNL & 2318'FEL									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (Amen Corner St - plan misses target center by 0.2usft at 18736.0usft MD (11689.0 TVD, -7184.0 N, 49.8 E) - Rectangle (sides W60.0 H7,054.8 D25.0)	0.00	179.46	11,689.0	-7,184.0	50.0	365,862.00	876,533.00	32° 0' 4.416 N	103° 15' 7.308 W
PBHL (Amen Corner St - plan hits target center - Point	0.00	0.00	11,689.0	-7,314.0	51.0	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 149.2usft at 11725.1usft MD (11614.1 TVD, -194.7 N, 95.7 E) - Point	0.00	0.00	11,689.0	-130.0	-16.0	372,916.00	876,467.00	32° 1' 14.219 N	103° 15' 7.254 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,350.0	1,350.0	13.375	13-3/8	17-1/2
5,205.3	5,200.0	9.625	9-5/8	12-1/4
10,805.3	10,800.0	7.625	7-5/8	8-3/4
18,866.0	11,689.0	5 1/2"	5-1/2	6-3/4

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
900.0	900.0	Dewey Lake			
2,159.1	2,159.0	Rustler			
2,395.5	2,395.0	Salado			
3,208.1	3,206.0	Tansill			
4,960.3	4,955.0	Lamar			
5,219.3	5,214.0	Bell Canyon			
6,677.3	6,672.0	Brushy Canyon			
7,609.3	7,604.0	Bone Spring Lime			
9,329.3	9,324.0	First Bone Spring			
9,850.3	9,845.0	Second Bone Spring			
10,610.3	10,605.0	Third Bone Spring Upper			
11,255.5	11,249.0	Third Bone Spring			
11,258.6	11,252.0	Wolfcamp			



Intrepid
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Amen Corner State Com 26-36-27 #105H
Company:	Ameredev Operating, LLC	TVD Reference:	KB @ 2935.0usft (H&P 616)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 2935.0usft (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 #105H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.0	2,000.0	0.0	0.0	NUDGE - Build 2.00
2,177.3	2,177.2	2.8	4.7	HOLD - 2650.7 at 2177.3 MD
4,828.0	4,822.8	87.2	145.3	DROP - -2.00
5,005.3	5,000.0	90.0	150.0	HOLD - 6116.0 at 5005.3 MD
11,121.3	11,116.0	90.0	150.0	KOP - Build 10.00, 111'FNL & 2149.6'FEL
12,021.3	11,689.0	-472.8	42.6	EOC/TRN - DLS 2.00 TFO -90.00
12,588.2	11,689.0	-1,036.5	-8.0	Start 6277.7 hold at 12588.2 MD
16,634.7	11,689.0	-5,082.8	30.0	Sec 27 & 34 Crossing, 2318'FEL
18,866.0	11,689.0	-7,314.0	51.0	TD at 18866.0, 200'FNL & 2318'FEL