

Wellbore Schematic

Well: Magnolia State Com 26-36-22 125H
SHL: Sec. 27 26S-36E 200' FNL & 2400' FEL
BHL: Sec. 15 26S-36E 200' FNL & 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: XXXXX
AFE No.: XXXX-XXX
API No.: XXXXXXXXXXXXX
GL: 2,905'
Field: Delaware_WCB
Objective: Wolfcamp B
TVD: 12,091'
MD: 21,918'
Rig: TBD
E-Mail: Wellsite2@ameredev.com

HOBECCO
 MAY 21 2018
 RECEIVED

Hole Size	Formation Tops	Logs	Cement	Mud Weight
17.5"	Rustler 2,158' 13.375" 54.5# J-55 BTC 2,283'	1825 Sacks TOC 0'	100% Excess	8.6 - 10 ppg WBM
12.25"	Salado 2,396' 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 5,215' Brushy Canyon 6,672' Bone Spring Lime 7,607' First Bone Spring 9,324' Second Bone Spring 9,845' Third Bone Spring Upper 10,605' Third Bone Spring 11,249' Wolfcamp 11,417' 7.625" 29.7#P-110HC FJM 11,518'	Triple Combo 365 Sacks TOC 4505'	25% Excess	9.5 - 10.5 Cut Brine
10° Build KOP @ 11,518'	Wolfcamp B 11,841' 5.5" 20# P-110HC CDC 21,918' Target Wolfcamp B 12091 TVD // 21918 MD	Triple Combo 930 Sacks TOC 11018'	25% Excess	11.5 - 12.5 ppg OBM
6.75" □				



AMEREDEV

HO-----
MAY 21 2018
REC-----

Ameredev Operating, LLC

Lea County, NM (NAD83 NME)
(Magnolia) Sec-27_T-26-S_R-36-E
Magnolia State Com 26-36-22 #125H

OWB

Plan: Plan #1

Standard Planning Report

03 April, 2018



INTREPID

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Magnolia State Com 26-36-22 #125H
Company:	Amerdev Operating, LLC	TVD Reference:	KB @ 2932.0usft (H&P 616)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 2932.0usft (H&P 616)
Site:	(Magnolia) Sec-27_T-26-S_R-36-E	North Reference:	Grid
Well:	Magnolia State Com 26-36-22 #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	(Magnolia) Sec-27_T-26-S_R-36-E		
Site Position:		Northing:	373,046.00 usft
From:	Map	Easting:	876,423.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 15.509 N
		Longitude:	103° 15' 7.750 W
		Grid Convergence:	0.57 °

Well	Magnolia State Com 26-36-22 #125H		
Well Position	+N/-S	-1.0 usft	Northing: 373,045.00 usft
	+E/-W	-40.0 usft	Easting: 876,383.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 1' 15.504 N
			Longitude: 103° 15' 8.215 W
			Ground Level: 2,905.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	04/02/18	6.70	59.92	47,773.00390747

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	359.92

Plan Survey Tool Program	Date	04/03/18		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,539.8 Plan #1 (OWB)	MWD	
			MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,174.8	3.50	259.99	2,174.7	-0.9	-5.3	2.00	2.00	0.00	259.99	
4,830.3	3.50	259.99	4,825.3	-29.1	-164.7	0.00	0.00	0.00	0.00	
5,005.2	0.00	0.00	5,000.0	-30.0	-170.0	2.00	-2.00	0.00	180.00	
11,596.2	0.00	0.00	11,591.0	-30.0	-170.0	0.00	0.00	0.00	0.00	
12,496.2	90.00	14.80	12,164.0	523.9	-23.6	10.00	10.00	0.00	14.80	
13,262.8	90.00	359.47	12,164.0	1,282.4	71.3	2.00	0.00	-2.00	-90.00	
22,539.8	90.00	359.47	12,164.0	10,559.0	-15.0	0.00	0.00	0.00	0.00	PBHL (Magnolia St)



Intrepid
Planning Report



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Company:	Ameredev Operating, LLC	TVD Reference:	KB @ 2932.0usft (H&P 616)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 2932.0usft (H&P 616)
Site:	(Magnolia) Sec-27_T-26-S_R-36-E	North Reference:	Grid
Well:	Magnolia State Com 26-36-22 #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	259.99	2,100.0	-0.3	-1.7	-0.3	2.00	2.00	0.00
2,174.8	3.50	259.99	2,174.7	-0.9	-5.3	-0.9	2.00	2.00	0.00
HOLD - 2655.5 at 2174.8 MD									
2,200.0	3.50	259.99	2,199.8	-1.2	-6.8	-1.2	0.00	0.00	0.00
2,300.0	3.50	259.99	2,299.7	-2.3	-12.8	-2.2	0.00	0.00	0.00
2,400.0	3.50	259.99	2,399.5	-3.3	-18.8	-3.3	0.00	0.00	0.00
2,500.0	3.50	259.99	2,499.3	-4.4	-24.8	-4.3	0.00	0.00	0.00
2,600.0	3.50	259.99	2,599.1	-5.4	-30.8	-5.4	0.00	0.00	0.00
2,700.0	3.50	259.99	2,698.9	-6.5	-36.8	-6.4	0.00	0.00	0.00
2,800.0	3.50	259.99	2,798.7	-7.6	-42.8	-7.5	0.00	0.00	0.00
2,900.0	3.50	259.99	2,898.5	-8.6	-48.8	-8.5	0.00	0.00	0.00
3,000.0	3.50	259.99	2,998.4	-9.7	-54.8	-9.6	0.00	0.00	0.00
3,100.0	3.50	259.99	3,098.2	-10.7	-60.8	-10.6	0.00	0.00	0.00
3,200.0	3.50	259.99	3,198.0	-11.8	-66.8	-11.7	0.00	0.00	0.00
3,300.0	3.50	259.99	3,297.8	-12.9	-72.8	-12.7	0.00	0.00	0.00
3,400.0	3.50	259.99	3,397.6	-13.9	-78.8	-13.8	0.00	0.00	0.00
3,500.0	3.50	259.99	3,497.4	-15.0	-84.8	-14.9	0.00	0.00	0.00
3,600.0	3.50	259.99	3,597.2	-16.0	-90.9	-15.9	0.00	0.00	0.00
3,700.0	3.50	259.99	3,697.1	-17.1	-96.9	-17.0	0.00	0.00	0.00
3,800.0	3.50	259.99	3,796.9	-18.2	-102.9	-18.0	0.00	0.00	0.00
3,900.0	3.50	259.99	3,896.7	-19.2	-108.9	-19.1	0.00	0.00	0.00
4,000.0	3.50	259.99	3,996.5	-20.3	-114.9	-20.1	0.00	0.00	0.00
4,100.0	3.50	259.99	4,096.3	-21.3	-120.9	-21.2	0.00	0.00	0.00
4,200.0	3.50	259.99	4,196.1	-22.4	-126.9	-22.2	0.00	0.00	0.00
4,300.0	3.50	259.99	4,295.9	-23.5	-132.9	-23.3	0.00	0.00	0.00
4,400.0	3.50	259.99	4,395.7	-24.5	-138.9	-24.3	0.00	0.00	0.00
4,500.0	3.50	259.99	4,495.6	-25.6	-144.9	-25.4	0.00	0.00	0.00
4,600.0	3.50	259.99	4,595.4	-26.6	-150.9	-26.4	0.00	0.00	0.00
4,700.0	3.50	259.99	4,695.2	-27.7	-156.9	-27.5	0.00	0.00	0.00
4,800.0	3.50	259.99	4,795.0	-28.8	-162.9	-28.5	0.00	0.00	0.00
4,830.3	3.50	259.99	4,825.3	-29.1	-164.7	-28.8	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)
DROP - -2.00									
4,900.0	2.10	259.99	4,894.9	-29.7	-168.1	-29.4	2.00	-2.00	0.00
5,005.2	0.00	0.00	5,000.0	-30.0	-170.0	-29.8	2.00	-2.00	0.00
HOLD - 6591.0 at 5005.2 MD									
5,100.0	0.00	0.00	5,094.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
5,200.0	0.00	0.00	5,194.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
5,300.0	0.00	0.00	5,294.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
5,400.0	0.00	0.00	5,394.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
5,500.0	0.00	0.00	5,494.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
5,600.0	0.00	0.00	5,594.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
5,700.0	0.00	0.00	5,694.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
5,800.0	0.00	0.00	5,794.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
5,900.0	0.00	0.00	5,894.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
6,000.0	0.00	0.00	5,994.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
6,100.0	0.00	0.00	6,094.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
6,200.0	0.00	0.00	6,194.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
6,300.0	0.00	0.00	6,294.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,394.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
6,500.0	0.00	0.00	6,494.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,594.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
6,700.0	0.00	0.00	6,694.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,794.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
6,900.0	0.00	0.00	6,894.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,994.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
7,100.0	0.00	0.00	7,094.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
7,200.0	0.00	0.00	7,194.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
7,300.0	0.00	0.00	7,294.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,394.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
7,500.0	0.00	0.00	7,494.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,594.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
7,700.0	0.00	0.00	7,694.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,794.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
7,900.0	0.00	0.00	7,894.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
8,000.0	0.00	0.00	7,994.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
8,100.0	0.00	0.00	8,094.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
8,200.0	0.00	0.00	8,194.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
8,300.0	0.00	0.00	8,294.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
8,400.0	0.00	0.00	8,394.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
8,500.0	0.00	0.00	8,494.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
8,600.0	0.00	0.00	8,594.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
8,700.0	0.00	0.00	8,694.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
8,800.0	0.00	0.00	8,794.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
8,900.0	0.00	0.00	8,894.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
9,000.0	0.00	0.00	8,994.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
9,100.0	0.00	0.00	9,094.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
9,200.0	0.00	0.00	9,194.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
9,300.0	0.00	0.00	9,294.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
9,400.0	0.00	0.00	9,394.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
9,500.0	0.00	0.00	9,494.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
9,600.0	0.00	0.00	9,594.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
9,700.0	0.00	0.00	9,694.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
9,800.0	0.00	0.00	9,794.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
9,900.0	0.00	0.00	9,894.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
10,000.0	0.00	0.00	9,994.8	-30.0	-170.0	-29.8	0.00	0.00	0.00

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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)
10,100.0	0.00	0.00	10,094.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
10,200.0	0.00	0.00	10,194.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
10,300.0	0.00	0.00	10,294.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
10,400.0	0.00	0.00	10,394.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
10,500.0	0.00	0.00	10,494.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
10,600.0	0.00	0.00	10,594.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
10,700.0	0.00	0.00	10,694.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
10,800.0	0.00	0.00	10,794.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
10,900.0	0.00	0.00	10,894.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
11,000.0	0.00	0.00	10,994.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
11,100.0	0.00	0.00	11,094.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
11,200.0	0.00	0.00	11,194.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
11,300.0	0.00	0.00	11,294.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
11,400.0	0.00	0.00	11,394.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
11,500.0	0.00	0.00	11,494.8	-30.0	-170.0	-29.8	0.00	0.00	0.00
11,596.2	0.00	0.00	11,591.0	-30.0	-170.0	-29.8	0.00	0.00	0.00
KOP - Build 10.00, 229.1°FNL & 2570.8°FEL									
11,600.0	0.38	14.80	11,594.8	-30.0	-170.0	-29.7	10.00	10.00	0.00
11,650.0	5.38	14.80	11,644.8	-27.6	-169.4	-27.3	10.00	10.00	0.00
11,700.0	10.38	14.80	11,694.3	-20.9	-167.6	-20.7	10.00	10.00	0.00
11,750.0	15.38	14.80	11,743.0	-10.2	-164.8	-9.9	10.00	10.00	0.00
11,800.0	20.38	14.80	11,790.6	4.7	-160.8	4.9	10.00	10.00	0.00
11,850.0	25.38	14.80	11,836.6	23.5	-155.9	23.7	10.00	10.00	0.00
11,900.0	30.38	14.80	11,880.8	46.1	-149.9	46.3	10.00	10.00	0.00
11,950.0	35.38	14.80	11,922.8	72.3	-143.0	72.5	10.00	10.00	0.00
12,000.0	40.38	14.80	11,962.2	102.0	-135.1	102.2	10.00	10.00	0.00
12,050.0	45.38	14.80	11,998.8	134.9	-126.4	135.1	10.00	10.00	0.00
12,100.0	50.38	14.80	12,032.4	170.7	-117.0	170.9	10.00	10.00	0.00
12,137.8	54.16	14.80	12,055.5	199.6	-109.3	199.8	10.00	10.00	0.00
Sec 27 & 22 Crossing, 0°FSL & 2507.9°FEL									
12,150.0	55.38	14.80	12,062.5	209.3	-106.8	209.4	10.00	10.00	0.00
12,200.0	60.38	14.80	12,089.1	250.2	-96.0	250.3	10.00	10.00	0.00
12,250.0	65.38	14.80	12,111.9	293.2	-84.6	293.3	10.00	10.00	0.00
12,300.0	70.38	14.80	12,130.7	338.0	-72.8	338.1	10.00	10.00	0.00
12,350.0	75.38	14.80	12,145.4	384.2	-60.6	384.3	10.00	10.00	0.00
12,400.0	80.38	14.80	12,155.9	431.4	-48.1	431.5	10.00	10.00	0.00
12,450.0	85.38	14.80	12,162.1	479.4	-35.4	479.4	10.00	10.00	0.00
12,496.2	90.00	14.80	12,164.0	523.9	-23.6	524.0	10.00	10.00	0.00
EOC/TRN - DLS 2.00 TFO -90.00									
12,500.0	90.00	14.72	12,164.0	527.7	-22.7	527.7	2.00	0.00	-2.00
12,600.0	90.00	12.72	12,164.0	624.8	1.1	624.8	2.00	0.00	-2.00
12,700.0	90.00	10.72	12,164.0	722.7	21.4	722.7	2.00	0.00	-2.00
12,800.0	90.00	8.72	12,164.0	821.3	38.3	821.2	2.00	0.00	-2.00
12,900.0	90.00	6.72	12,164.0	920.4	51.7	920.3	2.00	0.00	-2.00
13,000.0	90.00	4.72	12,164.0	1,019.9	61.7	1,019.8	2.00	0.00	-2.00
13,100.0	90.00	2.72	12,164.0	1,119.6	68.2	1,119.5	2.00	0.00	-2.00
13,200.0	90.00	0.72	12,164.0	1,219.6	71.2	1,219.5	2.00	0.00	-2.00
13,262.8	90.00	359.47	12,164.0	1,282.4	71.3	1,282.3	2.00	0.00	-2.00
Start 9277.0 hold at 13262.8 MD									
13,300.0	90.00	359.47	12,164.0	1,319.6	70.9	1,319.5	0.00	0.00	0.00
13,400.0	90.00	359.47	12,164.0	1,419.6	70.0	1,419.5	0.00	0.00	0.00
13,500.0	90.00	359.47	12,164.0	1,519.6	69.1	1,519.5	0.00	0.00	0.00
13,600.0	90.00	359.47	12,164.0	1,619.6	68.1	1,619.5	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db
 Company: Ameredev Operating, LLC
 Project: Lea County, NM (NAD83 NME)
 Site: (Magnolia) Sec-27_T-26-S_R-36-E
 Well: Magnolia State Com 26-36-22 #125H
 Wellbore: OWB
 Design: Plan #1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well Magnolia State Com 26-36-22 #125H
 KB @ 2932.0usft (H&P 616)
 KB @ 2932.0usft (H&P 616)
 Grid
 Minimum Curvature

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	359.47	12,164.0	1,719.6	67.2	1,719.5	0.00	0.00	0.00
13,800.0	90.00	359.47	12,164.0	1,819.6	66.3	1,819.5	0.00	0.00	0.00
13,900.0	90.00	359.47	12,164.0	1,919.6	65.4	1,919.5	0.00	0.00	0.00
14,000.0	90.00	359.47	12,164.0	2,019.6	64.4	2,019.5	0.00	0.00	0.00
14,100.0	90.00	359.47	12,164.0	2,119.5	63.5	2,119.5	0.00	0.00	0.00
14,200.0	90.00	359.47	12,164.0	2,219.5	62.6	2,219.5	0.00	0.00	0.00
14,300.0	90.00	359.47	12,164.0	2,319.5	61.6	2,319.5	0.00	0.00	0.00
14,400.0	90.00	359.47	12,164.0	2,419.5	60.7	2,419.4	0.00	0.00	0.00
14,500.0	90.00	359.47	12,164.0	2,519.5	59.8	2,519.4	0.00	0.00	0.00
14,600.0	90.00	359.47	12,164.0	2,619.5	58.8	2,619.4	0.00	0.00	0.00
14,700.0	90.00	359.47	12,164.0	2,719.5	57.9	2,719.4	0.00	0.00	0.00
14,800.0	90.00	359.47	12,164.0	2,819.5	57.0	2,819.4	0.00	0.00	0.00
14,817.3	90.00	359.47	12,164.0	2,836.8	56.8	2,836.7	0.00	0.00	0.00
Sec 22 midpoint, 2636.7'FSL & 2318'FEL									
14,900.0	90.00	359.47	12,164.0	2,919.5	56.1	2,919.4	0.00	0.00	0.00
15,000.0	90.00	359.47	12,164.0	3,019.5	55.1	3,019.4	0.00	0.00	0.00
15,100.0	90.00	359.47	12,164.0	3,119.5	54.2	3,119.4	0.00	0.00	0.00
15,200.0	90.00	359.47	12,164.0	3,219.5	53.3	3,219.4	0.00	0.00	0.00
15,300.0	90.00	359.47	12,164.0	3,319.5	52.3	3,319.4	0.00	0.00	0.00
15,400.0	90.00	359.47	12,164.0	3,419.5	51.4	3,419.4	0.00	0.00	0.00
15,500.0	90.00	359.47	12,164.0	3,519.5	50.5	3,519.4	0.00	0.00	0.00
15,600.0	90.00	359.47	12,164.0	3,619.5	49.5	3,619.4	0.00	0.00	0.00
15,700.0	90.00	359.47	12,164.0	3,719.5	48.6	3,719.4	0.00	0.00	0.00
15,800.0	90.00	359.47	12,164.0	3,819.5	47.7	3,819.4	0.00	0.00	0.00
15,900.0	90.00	359.47	12,164.0	3,919.5	46.8	3,919.4	0.00	0.00	0.00
16,000.0	90.00	359.47	12,164.0	4,019.5	45.8	4,019.4	0.00	0.00	0.00
16,100.0	90.00	359.47	12,164.0	4,119.5	44.9	4,119.4	0.00	0.00	0.00
16,200.0	90.00	359.47	12,164.0	4,219.5	44.0	4,219.4	0.00	0.00	0.00
16,300.0	90.00	359.47	12,164.0	4,319.5	43.0	4,319.4	0.00	0.00	0.00
16,400.0	90.00	359.47	12,164.0	4,419.5	42.1	4,419.4	0.00	0.00	0.00
16,500.0	90.00	359.47	12,164.0	4,519.4	41.2	4,519.4	0.00	0.00	0.00
16,600.0	90.00	359.47	12,164.0	4,619.4	40.2	4,619.4	0.00	0.00	0.00
16,700.0	90.00	359.47	12,164.0	4,719.4	39.3	4,719.4	0.00	0.00	0.00
16,800.0	90.00	359.47	12,164.0	4,819.4	38.4	4,819.4	0.00	0.00	0.00
16,900.0	90.00	359.47	12,164.0	4,919.4	37.5	4,919.4	0.00	0.00	0.00
17,000.0	90.00	359.47	12,164.0	5,019.4	36.5	5,019.4	0.00	0.00	0.00
17,100.0	90.00	359.47	12,164.0	5,119.4	35.6	5,119.4	0.00	0.00	0.00
17,200.0	90.00	359.47	12,164.0	5,219.4	34.7	5,219.4	0.00	0.00	0.00
17,300.0	90.00	359.47	12,164.0	5,319.4	33.7	5,319.4	0.00	0.00	0.00
17,400.0	90.00	359.47	12,164.0	5,419.4	32.8	5,419.4	0.00	0.00	0.00
17,459.1	90.00	359.47	12,164.0	5,478.5	32.3	5,478.5	0.00	0.00	0.00
Sec 22 & 15 Crossing, 5278.6'FSL & 2318'FEL									
17,500.0	90.00	359.47	12,164.0	5,519.4	31.9	5,519.4	0.00	0.00	0.00
17,600.0	90.00	359.47	12,164.0	5,619.4	30.9	5,619.3	0.00	0.00	0.00
17,700.0	90.00	359.47	12,164.0	5,719.4	30.0	5,719.3	0.00	0.00	0.00
17,800.0	90.00	359.47	12,164.0	5,819.4	29.1	5,819.3	0.00	0.00	0.00
17,900.0	90.00	359.47	12,164.0	5,919.4	28.2	5,919.3	0.00	0.00	0.00
18,000.0	90.00	359.47	12,164.0	6,019.4	27.2	6,019.3	0.00	0.00	0.00
18,100.0	90.00	359.47	12,164.0	6,119.4	26.3	6,119.3	0.00	0.00	0.00
18,200.0	90.00	359.47	12,164.0	6,219.4	25.4	6,219.3	0.00	0.00	0.00
18,300.0	90.00	359.47	12,164.0	6,319.4	24.4	6,319.3	0.00	0.00	0.00
18,400.0	90.00	359.47	12,164.0	6,419.4	23.5	6,419.3	0.00	0.00	0.00
18,500.0	90.00	359.47	12,164.0	6,519.4	22.6	6,519.3	0.00	0.00	0.00
18,600.0	90.00	359.47	12,164.0	6,619.4	21.6	6,619.3	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db
 Company: Ameredev Operating, LLC
 Project: Lea County, NM (NAD83 NME)
 Site: (Magnolia) Sec-27_T-26-S_R-36-E
 Well: Magnolia State Com 26-36-22 #125H
 Wellbore: OWB
 Design: Plan #1

Local Co-ordinate Reference: Well Magnolia State Com 26-36-22 #125H
 TVD Reference: KB @ 2932.0usft (H&P 616)
 MD Reference: KB @ 2932.0usft (H&P 616)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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)
18,700.0	90.00	359.47	12,164.0	6,719.4	20.7	6,719.3	0.00	0.00	0.00
18,800.0	90.00	359.47	12,164.0	6,819.3	19.8	6,819.3	0.00	0.00	0.00
18,900.0	90.00	359.47	12,164.0	6,919.3	18.9	6,919.3	0.00	0.00	0.00
19,000.0	90.00	359.47	12,164.0	7,019.3	17.9	7,019.3	0.00	0.00	0.00
19,100.0	90.00	359.47	12,164.0	7,119.3	17.0	7,119.3	0.00	0.00	0.00
19,200.0	90.00	359.47	12,164.0	7,219.3	16.1	7,219.3	0.00	0.00	0.00
19,300.0	90.00	359.47	12,164.0	7,319.3	15.1	7,319.3	0.00	0.00	0.00
19,400.0	90.00	359.47	12,164.0	7,419.3	14.2	7,419.3	0.00	0.00	0.00
19,500.0	90.00	359.47	12,164.0	7,519.3	13.3	7,519.3	0.00	0.00	0.00
19,600.0	90.00	359.47	12,164.0	7,619.3	12.3	7,619.3	0.00	0.00	0.00
19,700.0	90.00	359.47	12,164.0	7,719.3	11.4	7,719.3	0.00	0.00	0.00
19,800.0	90.00	359.47	12,164.0	7,819.3	10.5	7,819.3	0.00	0.00	0.00
19,900.0	90.00	359.47	12,164.0	7,919.3	9.6	7,919.3	0.00	0.00	0.00
20,000.0	90.00	359.47	12,164.0	8,019.3	8.6	8,019.3	0.00	0.00	0.00
20,100.0	90.00	359.47	12,164.0	8,119.3	7.7	8,119.3	0.00	0.00	0.00
20,200.0	90.00	359.47	12,164.0	8,219.3	6.8	8,219.3	0.00	0.00	0.00
20,300.0	90.00	359.47	12,164.0	8,319.3	5.8	8,319.3	0.00	0.00	0.00
20,400.0	90.00	359.47	12,164.0	8,419.3	4.9	8,419.3	0.00	0.00	0.00
20,500.0	90.00	359.47	12,164.0	8,519.3	4.0	8,519.3	0.00	0.00	0.00
20,600.0	90.00	359.47	12,164.0	8,619.3	3.0	8,619.3	0.00	0.00	0.00
20,700.0	90.00	359.47	12,164.0	8,719.3	2.1	8,719.3	0.00	0.00	0.00
20,800.0	90.00	359.47	12,164.0	8,819.3	1.2	8,819.2	0.00	0.00	0.00
20,900.0	90.00	359.47	12,164.0	8,919.3	0.3	8,919.2	0.00	0.00	0.00
21,000.0	90.00	359.47	12,164.0	9,019.3	-0.7	9,019.2	0.00	0.00	0.00
21,100.0	90.00	359.47	12,164.0	9,119.2	-1.6	9,119.2	0.00	0.00	0.00
21,200.0	90.00	359.47	12,164.0	9,219.2	-2.5	9,219.2	0.00	0.00	0.00
21,300.0	90.00	359.47	12,164.0	9,319.2	-3.5	9,319.2	0.00	0.00	0.00
21,400.0	90.00	359.47	12,164.0	9,419.2	-4.4	9,419.2	0.00	0.00	0.00
21,500.0	90.00	359.47	12,164.0	9,519.2	-5.3	9,519.2	0.00	0.00	0.00
21,600.0	90.00	359.47	12,164.0	9,619.2	-6.3	9,619.2	0.00	0.00	0.00
21,700.0	90.00	359.47	12,164.0	9,719.2	-7.2	9,719.2	0.00	0.00	0.00
21,800.0	90.00	359.47	12,164.0	9,819.2	-8.1	9,819.2	0.00	0.00	0.00
21,900.0	90.00	359.47	12,164.0	9,919.2	-9.0	9,919.2	0.00	0.00	0.00
22,000.0	90.00	359.47	12,164.0	10,019.2	-10.0	10,019.2	0.00	0.00	0.00
22,100.0	90.00	359.47	12,164.0	10,119.2	-10.9	10,119.2	0.00	0.00	0.00
22,200.0	90.00	359.47	12,164.0	10,219.2	-11.8	10,219.2	0.00	0.00	0.00
22,300.0	90.00	359.47	12,164.0	10,319.2	-12.8	10,319.2	0.00	0.00	0.00
22,400.0	90.00	359.47	12,164.0	10,419.2	-13.7	10,419.2	0.00	0.00	0.00
22,500.0	90.00	359.47	12,164.0	10,519.2	-14.6	10,519.2	0.00	0.00	0.00
22,539.8	90.00	359.47	12,164.0	10,559.0	-15.0	10,559.0	0.00	0.00	0.00

TD at 22539.8, 200'FNL & 2318'FEL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Magnolia State Com 26-36-22 #125H
Company:	Ameredev Operating, LLC	TVD Reference:	KB @ 2932.0usft (H&P 616)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 2932.0usft (H&P 616)
Site:	(Magnolia) Sec-27_T-26-S_R-36-E	North Reference:	Grid
Well:	Magnolia State Com 26-36-22 #125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #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)		
LTP (Magnolia State (	0.00	359.47	12,164.0	10,429.0	-14.0	383,474.00	876,369.00	32° 2' 58.696 N	103° 15' 7.165 W
- plan misses target center by 0.2usft at 22409.8usft MD (12164.0 TVD, 10429.0 N, -13.8 E)									
- Rectangle (sides W60.0 H9,898.0 D25.0)									
FTP (Magnolia State (	0.00	0.00	12,164.0	531.0	77.0	373,576.00	876,460.00	32° 1' 20.750 N	103° 15' 7.259 W
- plan misses target center by 95.7usft at 12526.9usft MD (12164.0 TVD, 553.7 N, -16.0 E)									
- Point									
PBHL (Magnolia State	0.00	0.00	12,164.0	10,559.0	-15.0	383,604.00	876,368.00	32° 2' 59.982 N	103° 15' 7.161 W
- plan hits target center									
- Point									

Casing Points

Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(usft)	(usft)		(")	(")
1,349.0	1,349.0	13.375	13-3/8	17-1/2
5,204.2	5,199.0	9.625	9-5/8	12-1/4
10,804.2	10,799.0	7.625	7-5/8	8-3/4
22,539.8	12,164.0	5 1/2"	5-1/2	6-3/4

Formations

Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(usft)	(usft)			(°)	(°)
899.0	899.0	Dewey Lake			
2,157.1	2,157.0	Rustler			
2,395.5	2,395.0	Salado			
3,207.0	3,205.0	Tansill			
4,959.2	4,954.0	Lamar			
5,219.2	5,214.0	Bell Canyon			
6,676.2	6,671.0	Brushy Canyon			
7,611.2	7,606.0	Bone Spring Lime			
9,328.2	9,323.0	First Bone Spring			
9,849.2	9,844.0	Second Bone Spring			
10,609.2	10,604.0	Third Bone Spring Upper			
11,253.2	11,248.0	Third Bone Spring			
11,421.2	11,416.0	Wolfcamp			

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Magnolia State Com 26-36-22 #125H
Company:	Ameredev Operating, LLC	TVD Reference:	KB @ 2932.0usft (H&P 616)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 2932.0usft (H&P 616)
Site:	(Magnolia) Sec-27_T-26-S_R-36-E	North Reference:	Grid
Well:	Magnolia State Com 26-36-22 #125H	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
2,174.8	2,174.7	-0.9	-5.3	HOLD - 2655.5 at 2174.8 MD
4,830.3	4,825.3	-29.1	-164.7	DROP - -2.00
5,005.2	5,000.0	-30.0	-170.0	HOLD - 6591.0 at 5005.2 MD
11,596.2	11,591.0	-30.0	-170.0	KOP - Build 10.00, 229.1'FNL & 2570.8'FEL
12,137.8	12,055.5	199.6	-109.3	Sec 27 & 22 Crossing, 0'FSL & 2507.9'FEL
12,496.2	12,164.0	523.9	-23.6	EOC/TRN - DLS 2.00 TFO -90.00
13,262.8	12,164.0	1,282.4	71.3	Start 9277.0 hold at 13262.8 MD
14,817.3	12,164.0	2,836.8	56.8	Sec 22 midpoint, 2636.7'FSL & 2318'FEL
17,459.1	12,164.0	5,478.5	32.3	Sec 22 & 15 Crossing, 5278.6'FSL & 2318'FEL
22,539.8	12,164.0	10,559.0	-15.0	TD at 22539.8, 200'FNL & 2318'FEL