

30-025-44471



HOBBS OCD
FEB 13 2018
[Signature]

Ameredev Operating, LLC

Lea County, NM (NAD83 NME)
(Redbud State) Sec32_T-25-S_R-26-E
Red Bud State Com 25-36-32 #115H

ST01

Plan: Plan #2

Standard Planning Report

13 February, 2018





Intrepid
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Red Bud State Com 25-36-32 #115H
Company:	Ameredev Operating, LLC	TVD Reference:	KB @ 3030.0usft (H&P 616)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 3030.0usft (H&P 616)
Site:	(Redbud State) Sec32_T-25-S_R-26-E	North Reference:	Grid
Well:	Red Bud State Com 25-36-32 #115H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan #2		

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	(Redbud State) Sec32_T-25-S_R-26-E		
Site Position:		Northing:	394,463.00 usft
From:	Map	Easting:	865,740.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 48.465 N
		Longitude:	103° 17' 9.409 W
		Grid Convergence:	0.56 °

Well	Red Bud State Com 25-36-32 #115H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	-20.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 4' 48.467 N
		Longitude:	103° 17' 9.642 W
		Ground Level:	3,003.0 usft

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	02/06/18	6.74	59.97	47,820

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	11,379.7
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.29

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
11,379.7	0.00	0.00	11,377.1	-140.2	-28.0	0.00	0.00	0.00	0.00	
12,279.7	90.00	359.45	11,950.0	432.7	-33.5	10.00	10.00	-0.06	359.45	
22,007.4	90.00	359.45	11,950.0	10,160.0	-126.0	0.00	0.00	0.00	0.00	PBHL v2 (Red Bud)

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Red Bud State Com 25-36-32 #115H
Company:	Ameredev Operating, LLC	TVD Reference:	KB @ 3030.0usft (H&P 616)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 3030.0usft (H&P 616)
Site:	(Redbud State) Sec32_T-25-S_R-26-E	North Reference:	Grid
Well:	Red Bud State Com 25-36-32 #115H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan #2		

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	1.00	191.29	2,100.0	-0.9	-0.2	-0.9	1.00	1.00	0.00
2,200.0	2.00	191.29	2,200.0	-3.4	-0.7	-3.4	1.00	1.00	0.00
2,213.2	2.13	191.29	2,213.2	-3.9	-0.8	-3.9	1.00	1.00	0.00
2,300.0	2.13	191.29	2,299.9	-7.1	-1.4	-7.0	0.00	0.00	0.00
2,400.0	2.13	191.29	2,399.8	-10.7	-2.1	-10.7	0.00	0.00	0.00
2,500.0	2.13	191.29	2,499.8	-14.4	-2.9	-14.3	0.00	0.00	0.00
2,600.0	2.13	191.29	2,599.7	-18.0	-3.6	-18.0	0.00	0.00	0.00
2,700.0	2.13	191.29	2,699.6	-21.7	-4.3	-21.6	0.00	0.00	0.00
2,800.0	2.13	191.29	2,799.5	-25.3	-5.1	-25.2	0.00	0.00	0.00
2,900.0	2.13	191.29	2,899.5	-28.9	-5.8	-28.9	0.00	0.00	0.00
3,000.0	2.13	191.29	2,999.4	-32.6	-6.5	-32.5	0.00	0.00	0.00
3,100.0	2.13	191.29	3,099.3	-36.2	-7.2	-36.2	0.00	0.00	0.00
3,200.0	2.13	191.29	3,199.3	-39.9	-8.0	-39.8	0.00	0.00	0.00
3,300.0	2.13	191.29	3,299.2	-43.5	-8.7	-43.4	0.00	0.00	0.00
3,400.0	2.13	191.29	3,399.1	-47.2	-9.4	-47.1	0.00	0.00	0.00
3,500.0	2.13	191.29	3,499.1	-50.8	-10.2	-50.7	0.00	0.00	0.00
3,600.0	2.13	191.29	3,599.0	-54.5	-10.9	-54.3	0.00	0.00	0.00
3,700.0	2.13	191.29	3,698.9	-58.1	-11.6	-58.0	0.00	0.00	0.00
3,800.0	2.13	191.29	3,798.9	-61.8	-12.3	-61.6	0.00	0.00	0.00
3,900.0	2.13	191.29	3,898.8	-65.4	-13.1	-65.3	0.00	0.00	0.00
4,000.0	2.13	191.29	3,998.7	-69.1	-13.8	-68.9	0.00	0.00	0.00
4,100.0	2.13	191.29	4,098.6	-72.7	-14.5	-72.5	0.00	0.00	0.00
4,200.0	2.13	191.29	4,198.6	-76.4	-15.3	-76.2	0.00	0.00	0.00
4,300.0	2.13	191.29	4,298.5	-80.0	-16.0	-79.8	0.00	0.00	0.00
4,400.0	2.13	191.29	4,398.4	-83.7	-16.7	-83.5	0.00	0.00	0.00
4,500.0	2.13	191.29	4,498.4	-87.3	-17.4	-87.1	0.00	0.00	0.00
4,600.0	2.13	191.29	4,598.3	-91.0	-18.2	-90.7	0.00	0.00	0.00
4,700.0	2.13	191.29	4,698.2	-94.6	-18.9	-94.4	0.00	0.00	0.00
4,800.0	2.13	191.29	4,798.2	-98.3	-19.6	-98.0	0.00	0.00	0.00
4,900.0	2.13	191.29	4,898.1	-101.9	-20.4	-101.7	0.00	0.00	0.00
5,000.0	2.13	191.29	4,998.0	-105.6	-21.1	-105.3	0.00	0.00	0.00
5,100.0	2.13	191.29	5,098.0	-109.2	-21.8	-108.9	0.00	0.00	0.00
5,200.0	2.13	191.29	5,197.9	-112.9	-22.5	-112.6	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db
Company: Ameredev Operating, LLC
Project: Lea County, NM (NAD83 NME)
Site: (Redbud State) Sec32_T-25-S_R-26-E
Well: Red Bud State Com 25-36-32 #115H
Wellbore: ST01
Design: Plan #2

Local Co-ordinate Reference: Well Red Bud State Com 25-36-32 #115H
TVD Reference: KB @ 3030.0usft (H&P 616)
MD Reference: KB @ 3030.0usft (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)
5,300.0	2.13	191.29	5,297.8	-116.5	-23.3	-116.2	0.00	0.00	0.00
5,400.0	2.13	191.29	5,397.7	-120.2	-24.0	-119.9	0.00	0.00	0.00
5,500.0	2.13	191.29	5,497.7	-123.8	-24.7	-123.5	0.00	0.00	0.00
5,600.0	2.13	191.29	5,597.6	-127.5	-25.5	-127.1	0.00	0.00	0.00
5,700.0	2.13	191.29	5,697.5	-131.1	-26.2	-130.8	0.00	0.00	0.00
5,800.0	2.13	191.29	5,797.5	-134.8	-26.9	-134.4	0.00	0.00	0.00
5,896.0	2.13	191.29	5,893.4	-138.3	-27.6	-137.9	0.00	0.00	0.00
5,900.0	2.05	191.29	5,897.4	-138.4	-27.6	-138.0	2.00	-2.00	0.00
6,002.6	0.00	0.00	6,000.0	-140.2	-28.0	-139.8	2.00	-2.00	0.00
6,100.0	0.00	0.00	6,097.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
6,200.0	0.00	0.00	6,197.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
6,300.0	0.00	0.00	6,297.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,397.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
6,500.0	0.00	0.00	6,497.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,597.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
6,700.0	0.00	0.00	6,697.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,797.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
6,900.0	0.00	0.00	6,897.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,997.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
7,100.0	0.00	0.00	7,097.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
7,200.0	0.00	0.00	7,197.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
7,300.0	0.00	0.00	7,297.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,397.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
7,500.0	0.00	0.00	7,497.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,597.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
7,700.0	0.00	0.00	7,697.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,797.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
7,900.0	0.00	0.00	7,897.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
8,000.0	0.00	0.00	7,997.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
8,100.0	0.00	0.00	8,097.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
8,200.0	0.00	0.00	8,197.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
8,300.0	0.00	0.00	8,297.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
8,400.0	0.00	0.00	8,397.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
8,500.0	0.00	0.00	8,497.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
8,600.0	0.00	0.00	8,597.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
8,700.0	0.00	0.00	8,697.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
8,800.0	0.00	0.00	8,797.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
8,900.0	0.00	0.00	8,897.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
9,000.0	0.00	0.00	8,997.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
9,100.0	0.00	0.00	9,097.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
9,200.0	0.00	0.00	9,197.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
9,300.0	0.00	0.00	9,297.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
9,400.0	0.00	0.00	9,397.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
9,500.0	0.00	0.00	9,497.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
9,600.0	0.00	0.00	9,597.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
9,700.0	0.00	0.00	9,697.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
9,800.0	0.00	0.00	9,797.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
9,900.0	0.00	0.00	9,897.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
10,000.0	0.00	0.00	9,997.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
10,100.0	0.00	0.00	10,097.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
10,200.0	0.00	0.00	10,197.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
10,300.0	0.00	0.00	10,297.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
10,400.0	0.00	0.00	10,397.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
10,500.0	0.00	0.00	10,497.4	-140.2	-28.0	-139.8	0.00	0.00	0.00



Intrepid
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Red Bud State Com 25-36-32 #115H
Company:	Ameredev Operating, LLC	TVD Reference:	KB @ 3030.0usft (H&P 616)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 3030.0usft (H&P 616)
Site:	(Redbud State) Sec32_T-25-S_R-26-E	North Reference:	Grid
Well:	Red Bud State Com 25-36-32 #115H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,600.0	0.00	0.00	10,597.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
10,700.0	0.00	0.00	10,697.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
10,800.0	0.00	0.00	10,797.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
10,900.0	0.00	0.00	10,897.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
11,000.0	0.00	0.00	10,997.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
11,100.0	0.00	0.00	11,097.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
11,200.0	0.00	0.00	11,197.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
11,300.0	0.00	0.00	11,297.4	-140.2	-28.0	-139.8	0.00	0.00	0.00
11,379.7	0.00	0.00	11,377.1	-140.2	-28.0	-139.8	0.00	0.00	0.00
KOP - DLS 10.00 TFO 359.45									
11,400.0	2.03	359.45	11,397.4	-139.8	-28.0	-139.5	10.00	10.00	0.00
11,450.0	7.03	359.45	11,447.2	-135.9	-28.0	-135.5	10.00	10.00	0.00
11,500.0	12.03	359.45	11,496.5	-127.6	-28.1	-127.3	10.00	10.00	0.00
11,550.0	17.03	359.45	11,544.9	-115.1	-28.2	-114.7	10.00	10.00	0.00
11,600.0	22.03	359.45	11,592.0	-98.4	-28.4	-98.0	10.00	10.00	0.00
11,650.0	27.03	359.45	11,637.5	-77.6	-28.6	-77.3	10.00	10.00	0.00
11,700.0	32.03	359.45	11,681.0	-53.0	-28.8	-52.6	10.00	10.00	0.00
11,750.0	37.03	359.45	11,722.1	-24.7	-29.1	-24.3	10.00	10.00	0.00
11,800.0	42.03	359.45	11,760.7	7.2	-29.4	7.5	10.00	10.00	0.00
11,850.0	47.03	359.45	11,796.3	42.2	-29.7	42.6	10.00	10.00	0.00
11,900.0	52.03	359.45	11,828.8	80.2	-30.1	80.6	10.00	10.00	0.00
11,950.0	57.03	359.45	11,857.8	120.9	-30.5	121.3	10.00	10.00	0.00
12,000.0	62.03	359.45	11,883.1	164.0	-30.9	164.4	10.00	10.00	0.00
12,050.0	67.03	359.45	11,904.6	209.1	-31.3	209.5	10.00	10.00	0.00
12,100.0	72.03	359.45	11,922.1	256.0	-31.8	256.3	10.00	10.00	0.00
12,150.0	77.03	359.45	11,935.4	304.1	-32.2	304.5	10.00	10.00	0.00
12,200.0	82.03	359.45	11,944.5	353.3	-32.7	353.7	10.00	10.00	0.00
12,250.0	87.03	359.45	11,949.3	403.0	-33.2	403.4	10.00	10.00	0.00
12,279.7	90.00	359.45	11,950.0	432.7	-33.5	433.1	10.00	10.00	0.00
EOC - 9727.7 hold at 12279.7 MD									
12,300.0	90.00	359.45	11,950.0	453.0	-33.6	453.4	0.00	0.00	0.00
12,400.0	90.00	359.45	11,950.0	553.0	-34.6	553.4	0.00	0.00	0.00
12,500.0	90.00	359.45	11,950.0	653.0	-35.5	653.4	0.00	0.00	0.00
12,600.0	90.00	359.45	11,950.0	753.0	-36.5	753.4	0.00	0.00	0.00
12,700.0	90.00	359.45	11,950.0	853.0	-37.4	853.4	0.00	0.00	0.00
12,800.0	90.00	359.45	11,950.0	953.0	-38.4	953.4	0.00	0.00	0.00
12,900.0	90.00	359.45	11,950.0	1,053.0	-39.4	1,053.4	0.00	0.00	0.00
13,000.0	90.00	359.45	11,950.0	1,153.0	-40.3	1,153.4	0.00	0.00	0.00
13,100.0	90.00	359.45	11,950.0	1,253.0	-41.3	1,253.4	0.00	0.00	0.00
13,200.0	90.00	359.45	11,950.0	1,353.0	-42.2	1,353.4	0.00	0.00	0.00
13,300.0	90.00	359.45	11,950.0	1,453.0	-43.2	1,453.4	0.00	0.00	0.00
13,400.0	90.00	359.45	11,950.0	1,553.0	-44.1	1,553.4	0.00	0.00	0.00
13,500.0	90.00	359.45	11,950.0	1,653.0	-45.1	1,653.4	0.00	0.00	0.00
13,600.0	90.00	359.45	11,950.0	1,753.0	-46.0	1,753.4	0.00	0.00	0.00
13,700.0	90.00	359.45	11,950.0	1,853.0	-47.0	1,853.4	0.00	0.00	0.00
13,800.0	90.00	359.45	11,950.0	1,953.0	-47.9	1,953.4	0.00	0.00	0.00
13,900.0	90.00	359.45	11,950.0	2,053.0	-48.9	2,053.4	0.00	0.00	0.00
14,000.0	90.00	359.45	11,950.0	2,153.0	-49.8	2,153.4	0.00	0.00	0.00
14,100.0	90.00	359.45	11,950.0	2,252.9	-50.8	2,253.4	0.00	0.00	0.00
14,200.0	90.00	359.45	11,950.0	2,352.9	-51.7	2,353.4	0.00	0.00	0.00
14,300.0	90.00	359.45	11,950.0	2,452.9	-52.7	2,453.4	0.00	0.00	0.00
14,400.0	90.00	359.45	11,950.0	2,552.9	-53.6	2,553.4	0.00	0.00	0.00
14,500.0	90.00	359.45	11,950.0	2,652.9	-54.6	2,653.4	0.00	0.00	0.00
14,600.0	90.00	359.45	11,950.0	2,752.9	-55.5	2,753.4	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db
 Company: Ameredev Operating, LLC
 Project: Lea County, NM (NAD83 NME)
 Site: (Redbud State) Sec32_T-25-S_R-26-E
 Well: Red Bud State Com 25-36-32 #115H
 Wellbore: ST01
 Design: Plan #2

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

Well Red Bud State Com 25-36-32 #115H
 KB @ 3030.0usft (H&P 616)
 KB @ 3030.0usft (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)
14,700.0	90.00	359.45	11,950.0	2,852.9	-56.5	2,853.4	0.00	0.00	0.00
14,800.0	90.00	359.45	11,950.0	2,952.9	-57.4	2,953.4	0.00	0.00	0.00
14,900.0	90.00	359.45	11,950.0	3,052.9	-58.4	3,053.4	0.00	0.00	0.00
15,000.0	90.00	359.45	11,950.0	3,152.9	-59.3	3,153.4	0.00	0.00	0.00
15,100.0	90.00	359.45	11,950.0	3,252.9	-60.3	3,253.4	0.00	0.00	0.00
15,200.0	90.00	359.45	11,950.0	3,352.9	-61.2	3,353.4	0.00	0.00	0.00
15,300.0	90.00	359.45	11,950.0	3,452.9	-62.2	3,453.4	0.00	0.00	0.00
15,400.0	90.00	359.45	11,950.0	3,552.9	-63.1	3,553.4	0.00	0.00	0.00
15,500.0	90.00	359.45	11,950.0	3,652.9	-64.1	3,653.4	0.00	0.00	0.00
15,600.0	90.00	359.45	11,950.0	3,752.9	-65.0	3,753.4	0.00	0.00	0.00
15,700.0	90.00	359.45	11,950.0	3,852.9	-66.0	3,853.4	0.00	0.00	0.00
15,800.0	90.00	359.45	11,950.0	3,952.9	-66.9	3,953.4	0.00	0.00	0.00
15,900.0	90.00	359.45	11,950.0	4,052.9	-67.9	4,053.4	0.00	0.00	0.00
16,000.0	90.00	359.45	11,950.0	4,152.9	-68.8	4,153.4	0.00	0.00	0.00
16,100.0	90.00	359.45	11,950.0	4,252.9	-69.8	4,253.4	0.00	0.00	0.00
16,200.0	90.00	359.45	11,950.0	4,352.9	-70.7	4,353.4	0.00	0.00	0.00
16,300.0	90.00	359.45	11,950.0	4,452.8	-71.7	4,453.4	0.00	0.00	0.00
16,400.0	90.00	359.45	11,950.0	4,552.8	-72.7	4,553.4	0.00	0.00	0.00
16,500.0	90.00	359.45	11,950.0	4,652.8	-73.6	4,653.4	0.00	0.00	0.00
16,600.0	90.00	359.45	11,950.0	4,752.8	-74.6	4,753.4	0.00	0.00	0.00
16,700.0	90.00	359.45	11,950.0	4,852.8	-75.5	4,853.4	0.00	0.00	0.00
16,800.0	90.00	359.45	11,950.0	4,952.8	-76.5	4,953.4	0.00	0.00	0.00
16,900.0	90.00	359.45	11,950.0	5,052.8	-77.4	5,053.4	0.00	0.00	0.00
17,000.0	90.00	359.45	11,950.0	5,152.8	-78.4	5,153.4	0.00	0.00	0.00
17,100.0	90.00	359.45	11,950.0	5,252.8	-79.3	5,253.4	0.00	0.00	0.00
17,200.0	90.00	359.45	11,950.0	5,352.8	-80.3	5,353.4	0.00	0.00	0.00
17,300.0	90.00	359.45	11,950.0	5,452.8	-81.2	5,453.4	0.00	0.00	0.00
17,400.0	90.00	359.45	11,950.0	5,552.8	-82.2	5,553.4	0.00	0.00	0.00
17,500.0	90.00	359.45	11,950.0	5,652.8	-83.1	5,653.4	0.00	0.00	0.00
17,600.0	90.00	359.45	11,950.0	5,752.8	-84.1	5,753.4	0.00	0.00	0.00
17,700.0	90.00	359.45	11,950.0	5,852.8	-85.0	5,853.4	0.00	0.00	0.00
17,800.0	90.00	359.45	11,950.0	5,952.8	-86.0	5,953.4	0.00	0.00	0.00
17,900.0	90.00	359.45	11,950.0	6,052.8	-86.9	6,053.4	0.00	0.00	0.00
18,000.0	90.00	359.45	11,950.0	6,152.8	-87.9	6,153.4	0.00	0.00	0.00
18,100.0	90.00	359.45	11,950.0	6,252.8	-88.8	6,253.4	0.00	0.00	0.00
18,200.0	90.00	359.45	11,950.0	6,352.8	-89.8	6,353.4	0.00	0.00	0.00
18,300.0	90.00	359.45	11,950.0	6,452.8	-90.7	6,453.4	0.00	0.00	0.00
18,400.0	90.00	359.45	11,950.0	6,552.8	-91.7	6,553.4	0.00	0.00	0.00
18,500.0	90.00	359.45	11,950.0	6,652.8	-92.6	6,653.4	0.00	0.00	0.00
18,600.0	90.00	359.45	11,950.0	6,752.7	-93.6	6,753.4	0.00	0.00	0.00
18,700.0	90.00	359.45	11,950.0	6,852.7	-94.5	6,853.4	0.00	0.00	0.00
18,800.0	90.00	359.45	11,950.0	6,952.7	-95.5	6,953.4	0.00	0.00	0.00
18,900.0	90.00	359.45	11,950.0	7,052.7	-96.4	7,053.4	0.00	0.00	0.00
19,000.0	90.00	359.45	11,950.0	7,152.7	-97.4	7,153.4	0.00	0.00	0.00
19,100.0	90.00	359.45	11,950.0	7,252.7	-98.3	7,253.4	0.00	0.00	0.00
19,200.0	90.00	359.45	11,950.0	7,352.7	-99.3	7,353.4	0.00	0.00	0.00
19,300.0	90.00	359.45	11,950.0	7,452.7	-100.2	7,453.4	0.00	0.00	0.00
19,400.0	90.00	359.45	11,950.0	7,552.7	-101.2	7,553.4	0.00	0.00	0.00
19,500.0	90.00	359.45	11,950.0	7,652.7	-102.1	7,653.4	0.00	0.00	0.00
19,600.0	90.00	359.45	11,950.0	7,752.7	-103.1	7,753.4	0.00	0.00	0.00
19,700.0	90.00	359.45	11,950.0	7,852.7	-104.0	7,853.4	0.00	0.00	0.00
19,800.0	90.00	359.45	11,950.0	7,952.7	-105.0	7,953.4	0.00	0.00	0.00
19,900.0	90.00	359.45	11,950.0	8,052.7	-106.0	8,053.4	0.00	0.00	0.00
20,000.0	90.00	359.45	11,950.0	8,152.7	-106.9	8,153.4	0.00	0.00	0.00



Intrepid Planning Report



Database: EDM 5000.1 Single User Db
Company: Ameredev Operating, LLC
Project: Lea County, NM (NAD83 NME)
Site: (Redbud State) Sec32_T-25-S_R-26-E
Well: Red Bud State Com 25-36-32 #115H
Wellbore: ST01
Design: Plan #2

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

Well Red Bud State Com 25-36-32 #115H
KB @ 3030.0usft (H&P 616)
KB @ 3030.0usft (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)
20,100.0	90.00	359.45	11,950.0	8,252.7	-107.9	8,253.4	0.00	0.00	0.00
20,200.0	90.00	359.45	11,950.0	8,352.7	-108.8	8,353.4	0.00	0.00	0.00
20,300.0	90.00	359.45	11,950.0	8,452.7	-109.8	8,453.4	0.00	0.00	0.00
20,400.0	90.00	359.45	11,950.0	8,552.7	-110.7	8,553.4	0.00	0.00	0.00
20,500.0	90.00	359.45	11,950.0	8,652.7	-111.7	8,653.4	0.00	0.00	0.00
20,600.0	90.00	359.45	11,950.0	8,752.7	-112.6	8,753.4	0.00	0.00	0.00
20,700.0	90.00	359.45	11,950.0	8,852.7	-113.6	8,853.4	0.00	0.00	0.00
20,800.0	90.00	359.45	11,950.0	8,952.6	-114.5	8,953.4	0.00	0.00	0.00
20,900.0	90.00	359.45	11,950.0	9,052.6	-115.5	9,053.4	0.00	0.00	0.00
21,000.0	90.00	359.45	11,950.0	9,152.6	-116.4	9,153.4	0.00	0.00	0.00
21,100.0	90.00	359.45	11,950.0	9,252.6	-117.4	9,253.4	0.00	0.00	0.00
21,200.0	90.00	359.45	11,950.0	9,352.6	-118.3	9,353.4	0.00	0.00	0.00
21,300.0	90.00	359.45	11,950.0	9,452.6	-119.3	9,453.4	0.00	0.00	0.00
21,400.0	90.00	359.45	11,950.0	9,552.6	-120.2	9,553.4	0.00	0.00	0.00
21,500.0	90.00	359.45	11,950.0	9,652.6	-121.2	9,653.4	0.00	0.00	0.00
21,600.0	90.00	359.45	11,950.0	9,752.6	-122.1	9,753.4	0.00	0.00	0.00
21,700.0	90.00	359.45	11,950.0	9,852.6	-123.1	9,853.4	0.00	0.00	0.00
21,800.0	90.00	359.45	11,950.0	9,952.6	-124.0	9,953.4	0.00	0.00	0.00
21,900.0	90.00	359.45	11,950.0	10,052.6	-125.0	10,053.4	0.00	0.00	0.00
22,007.4	90.00	359.45	11,950.0	10,160.0	-126.0	10,160.8	0.00	0.00	0.00

TD at 22007.4

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									
FTP (Red Bud State C	0.00	0.00	11,950.0	129.0	-30.0	394,592.00	865,690.00	32° 4' 49.746 N	103° 17' 9.976 W
- plan misses target center by 75.5usft at 12000.0usft MD (11883.1 TVD, 164.0 N, -30.9 E)									
- Point									
LTP (Red Bud State C	0.00	179.45	11,950.0	10,030.0	-125.0	404,493.00	865,595.00	32° 6' 27.722 N	103° 17' 9.962 W
- plan misses target center by 0.2usft at 21877.4usft MD (11950.0 TVD, 10030.0 N, -124.8 E)									
- Rectangle (sides W60.0 H9,900.2 D25.0)									
PBHL v2 (Red Bud St	0.00	179.45	11,950.0	10,160.0	-126.0	404,623.00	865,594.00	32° 6' 29.008 N	103° 17' 9.959 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
22,007.4	11,950.0	5 1/2"	5-1/2	6-3/4

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Red Bud State Com 25-36-32 #115H
Company:	Ameredev Operating, LLC	TVD Reference:	KB @ 3030.0usft (H&P 616)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	KB @ 3030.0usft (H&P 616)
Site:	(Redbud State) Sec32_T-25-S_R-26-E	North Reference:	Grid
Well:	Red Bud State Com 25-36-32 #115H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan #2		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,230.0	1,230.0	Rustler			
1,662.0	1,662.0	Salado			
3,353.8	3,353.0	Tansill			
5,136.1	5,134.0	Bell Canyon			
6,947.6	6,945.0	Brushy Canyon			
8,108.6	8,106.0	Bone Spring Lime			
9,561.6	9,559.0	First Bone Spring			
10,084.6	10,082.0	Second Bone Spring			
10,736.6	10,734.0	Upper Third Bone Spring			
11,325.6	11,323.0	Third Bone Spring			
11,586.1	11,579.0	Wolfcamp			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,379.7	11,377.1	-140.2	-28.0	KOP - DLS 10.00 TFO 359.45
12,279.7	11,950.0	432.7	-33.5	EOC - 9727.7 hold at 12279.7 MD
22,007.4	11,950.0	10,160.0	-126.0	TD at 22007.4